

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00678_1 ~ PR1605LEDLX100L35KEXCD3X.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [LUMCAT] CRT1804171150-001, Model: PR1605LEDLX100L35KEX/CD3X
 [LUMINAIRE] LED Highbay
 [LAMP] LED
 [USER DEFINED] 120.01 VAC, 912.5 mA, 109.12 W, 0.9964 PF
 [TEST] SP-00678_1
 [TESTLAB] Intertek
 [ISSUEDATE] 04/23/2018
 [MANUFAC] Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	81.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.29 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13030	13137	13172
55	16886	16755	16624
65	19610	19627	19573
75	18831	18724	18542
85	5319	5445	5398

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891
2.5	2704.898	2707.580	2707.016	2707.651	2701.721	2707.651	2707.016	2707.580	2704.898	2707.580
5.0	2623.778	2623.425	2622.931	2615.165	2619.330	2615.165	2622.931	2623.425	2623.778	2623.425
7.5	2505.382	2500.087	2500.087	2500.087	2502.699	2500.087	2500.087	2500.087	2505.382	2500.087
10.0	2373.925	2361.782	2360.935	2363.123	2366.018	2363.123	2360.935	2361.782	2373.925	2361.782
12.5	2217.758	2213.381	2211.404	2211.263	2222.135	2211.263	2211.404	2213.381	2217.758	2213.381
15.0	2068.015	2058.484	2059.261	2062.650	2064.909	2062.650	2059.261	2058.484	2068.015	2058.484
17.5	1932.746	1927.239	1927.874	1928.368	1934.722	1928.368	1927.874	1927.239	1932.746	1927.239
20.0	1827.552	1824.798	1823.386	1823.245	1826.634	1823.245	1823.386	1824.798	1827.552	1824.798
22.5	1748.480	1747.562	1747.138	1743.043	1751.727	1743.043	1747.138	1747.562	1748.480	1747.562
25.0	1695.106	1694.329	1700.472	1690.517	1702.378	1690.517	1700.472	1694.329	1695.106	1694.329
27.5	1669.337	1666.866	1678.656	1667.007	1682.892	1667.007	1678.656	1666.866	1669.337	1666.866
30.0	1656.347	1652.322	1662.559	1659.100	1669.196	1659.100	1662.559	1652.322	1656.347	1652.322
32.5	1637.708	1638.485	1644.274	1650.557	1650.487	1650.557	1644.274	1638.485	1637.708	1638.485
35.0	1618.787	1617.375	1622.106	1633.190	1628.601	1633.190	1622.106	1617.375	1618.787	1617.375
37.5	1587.229	1588.006	1593.089	1605.868	1603.185	1605.868	1593.089	1588.006	1587.229	1588.006
40.0	1552.988	1551.011	1564.496	1576.216	1575.792	1576.216	1564.496	1551.011	1552.988	1551.011
42.5	1530.890	1524.819	1543.457	1551.717	1551.011	1551.717	1543.457	1524.819	1530.890	1524.819
45.0	1520.795	1518.182	1533.291	1541.763	1537.315	1541.763	1533.291	1518.182	1520.795	1518.182
47.5	1526.725	1535.621	1539.292	1556.942	1536.962	1556.942	1539.292	1535.621	1526.725	1535.621
50.0	1565.061	1591.253	1580.240	1602.620	1567.249	1602.620	1580.240	1591.253	1565.061	1591.253
52.5	1646.251	1686.210	1651.052	1678.656	1636.720	1678.656	1651.052	1686.210	1646.251	1686.210
55.0	1747.421	1791.051	1733.795	1757.446	1720.310	1757.446	1733.795	1791.051	1747.421	1791.051
57.5	1811.172	1847.390	1799.947	1821.762	1779.049	1821.762	1799.947	1847.390	1811.172	1847.390
60.0	1832.211	1870.335	1827.269	1850.285	1803.759	1850.285	1827.269	1870.335	1832.211	1870.335
62.5	1786.604	1834.965	1783.780	1813.290	1781.450	1813.290	1783.780	1834.965	1786.604	1834.965
65.0	1708.096	1746.009	1709.579	1731.677	1704.919	1731.677	1709.579	1746.009	1708.096	1746.009
67.5	1630.860	1657.547	1630.013	1657.406	1629.307	1657.406	1630.013	1657.547	1630.860	1657.547
70.0	1553.482	1573.956	1554.894	1582.358	1538.092	1582.358	1554.894	1573.956	1553.482	1573.956
72.5	1448.359	1454.360	1457.396	1473.563	1444.123	1473.563	1457.396	1454.360	1448.359	1454.360
75.0	1282.025	1268.329	1274.754	1281.108	1262.328	1281.108	1274.754	1268.329	1282.025	1268.329
77.5	1003.367	992.636	1006.685	1010.498	992.495	1010.498	1006.685	992.636	1003.367	992.636
80.0	704.800	693.998	704.023	715.743	699.575	715.743	704.023	693.998	704.800	693.998
82.5	426.777	431.225	436.308	444.498	434.825	444.498	436.308	431.225	426.777	431.225
85.0	249.924	255.431	255.854	260.867	253.666	260.867	255.854	255.431	249.924	255.431
87.5	181.583	185.043	184.054	186.525	181.936	186.525	184.054	185.043	181.583	185.043
90.0	162.874	164.074	162.804	164.498	163.227	164.498	162.804	164.074	162.874	164.074
92.5	154.755	155.532	154.402	156.308	155.038	156.308	154.402	155.532	154.755	155.532
95.0	144.518	145.930	144.448	146.707	144.801	146.707	144.448	145.930	144.518	145.930
97.5	131.457	133.081	132.093	133.716	131.528	133.716	132.093	133.081	131.457	133.081
100.0	117.549	118.961	117.831	119.879	117.408	119.879	117.831	118.961	117.549	118.961
102.5	101.452	103.217	101.735	103.994	101.593	103.994	101.735	103.217	101.452	103.217
105.0	85.073	86.767	85.144	87.403	84.579	87.403	85.144	86.767	85.073	86.767
107.5	68.270	70.176	68.835	70.882	68.270	70.882	68.835	70.176	68.270	70.176
110.0	53.938	55.703	54.503	56.056	53.585	56.056	54.503	55.703	53.938	55.703
112.5	41.230	43.066	42.078	43.419	41.372	43.419	42.078	43.066	41.230	43.066
115.0	31.276	32.617	31.911	33.041	31.417	33.041	31.911	32.617	31.276	32.617
117.5	23.086	24.286	23.510	24.286	23.157	24.286	23.510	24.286	23.086	24.286
120.0	16.379	16.873	16.873	17.156	16.591	17.156	16.873	16.873	16.379	16.873
122.5	10.378	11.084	10.872	10.943	10.802	10.943	10.872	11.084	10.378	11.084
125.0	5.577	5.930	5.930	5.789	5.577	5.789	5.930	5.930	5.577	5.930

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CANDELA TABULATION - (Cont.)

127.5	1.341	1.694	1.977	1.765	1.624	1.765	1.977	1.694	1.341	1.694
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891	2735.891
2.5	2707.016	2707.651	2701.721	2707.651	2707.016	2707.580	2704.898
5.0	2622.931	2615.165	2619.330	2615.165	2622.931	2623.425	2623.778
7.5	2500.087	2500.087	2502.699	2500.087	2500.087	2500.087	2505.382
10.0	2360.935	2363.123	2366.018	2363.123	2360.935	2361.782	2373.925
12.5	2211.404	2211.263	2222.135	2211.263	2211.404	2213.381	2217.758
15.0	2059.261	2062.650	2064.909	2062.650	2059.261	2058.484	2068.015
17.5	1927.874	1928.368	1934.722	1928.368	1927.874	1927.239	1932.746
20.0	1823.386	1823.245	1826.634	1823.245	1823.386	1824.798	1827.552
22.5	1747.138	1743.043	1751.727	1743.043	1747.138	1747.562	1748.480
25.0	1700.472	1690.517	1702.378	1690.517	1700.472	1694.329	1695.106
27.5	1678.656	1667.007	1682.892	1667.007	1678.656	1666.866	1669.337
30.0	1662.559	1659.100	1669.196	1659.100	1662.559	1652.322	1656.347
32.5	1644.274	1650.557	1650.487	1650.557	1644.274	1638.485	1637.708
35.0	1622.106	1633.190	1628.601	1633.190	1622.106	1617.375	1618.787
37.5	1593.089	1605.868	1603.185	1605.868	1593.089	1588.006	1587.229
40.0	1564.496	1576.216	1575.792	1576.216	1564.496	1551.011	1552.988
42.5	1543.457	1551.717	1551.011	1551.717	1543.457	1524.819	1530.890
45.0	1533.291	1541.763	1537.315	1541.763	1533.291	1518.182	1520.795
47.5	1539.292	1556.942	1536.962	1556.942	1539.292	1535.621	1526.725
50.0	1580.240	1602.620	1567.249	1602.620	1580.240	1591.253	1565.061
52.5	1651.052	1678.656	1636.720	1678.656	1651.052	1686.210	1646.251
55.0	1733.795	1757.446	1720.310	1757.446	1733.795	1791.051	1747.421
57.5	1799.947	1821.762	1779.049	1821.762	1799.947	1847.390	1811.172
60.0	1827.269	1850.285	1803.759	1850.285	1827.269	1870.335	1832.211
62.5	1783.780	1813.290	1781.450	1813.290	1783.780	1834.965	1786.604
65.0	1709.579	1731.677	1704.919	1731.677	1709.579	1746.009	1708.096

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CANDELA TABULATION - (Cont.)

67.5	1630.013	1657.406	1629.307	1657.406	1630.013	1657.547	1630.860
70.0	1554.894	1582.358	1538.092	1582.358	1554.894	1573.956	1553.482
72.5	1457.396	1473.563	1444.123	1473.563	1457.396	1454.360	1448.359
75.0	1274.754	1281.108	1262.328	1281.108	1274.754	1268.329	1282.025
77.5	1006.685	1010.498	992.495	1010.498	1006.685	992.636	1003.367
80.0	704.023	715.743	699.575	715.743	704.023	693.998	704.800
82.5	436.308	444.498	434.825	444.498	436.308	431.225	426.777
85.0	255.854	260.867	253.666	260.867	255.854	255.431	249.924
87.5	184.054	186.525	181.936	186.525	184.054	185.043	181.583
90.0	162.804	164.498	163.227	164.498	162.804	164.074	162.874
92.5	154.402	156.308	155.038	156.308	154.402	155.532	154.755
95.0	144.448	146.707	144.801	146.707	144.448	145.930	144.518
97.5	132.093	133.716	131.528	133.716	132.093	133.081	131.457
100.0	117.831	119.879	117.408	119.879	117.831	118.961	117.549
102.5	101.735	103.994	101.593	103.994	101.735	103.217	101.452
105.0	85.144	87.403	84.579	87.403	85.144	86.767	85.073
107.5	68.835	70.882	68.270	70.882	68.835	70.176	68.270
110.0	54.503	56.056	53.585	56.056	54.503	55.703	53.938
112.5	42.078	43.419	41.372	43.419	42.078	43.066	41.230
115.0	31.911	33.041	31.417	33.041	31.911	32.617	31.276
117.5	23.510	24.286	23.157	24.286	23.510	24.286	23.086
120.0	16.873	17.156	16.591	17.156	16.873	16.873	16.379
122.5	10.872	10.943	10.802	10.943	10.872	11.084	10.378
125.0	5.930	5.789	5.577	5.789	5.930	5.930	5.577
127.5	1.977	1.765	1.624	1.765	1.977	1.694	1.341
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	822.08	N.A.	9.10
0-30	1613.39	N.A.	17.90
0-40	2629.21	N.A.	29.10
0-60	5387.75	N.A.	59.70
0-80	8375.84	N.A.	92.90
0-90	8732.39	N.A.	96.80
10-90	8490.49	N.A.	94.10
20-40	1807.13	N.A.	20.00
20-50	3004.99	N.A.	33.30
40-70	4462.51	N.A.	49.50
60-80	2988.09	N.A.	33.10
70-80	1284.12	N.A.	14.20
80-90	356.55	N.A.	4.00
90-110	248.22	N.A.	2.80
90-120	281.81	N.A.	3.10
90-130	287.98	N.A.	3.20
90-150	287.98	N.A.	3.20
90-180	287.98	N.A.	3.20
110-180	39.76	N.A.	0.40
0-180	9020.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.90
10-20	580.18
20-30	791.31
30-40	1015.82
40-50	1197.87
50-60	1560.67
60-70	1703.98
70-80	1284.12
80-90	356.55
90-100	156.73
100-110	91.49
110-120	33.60
120-130	6.17
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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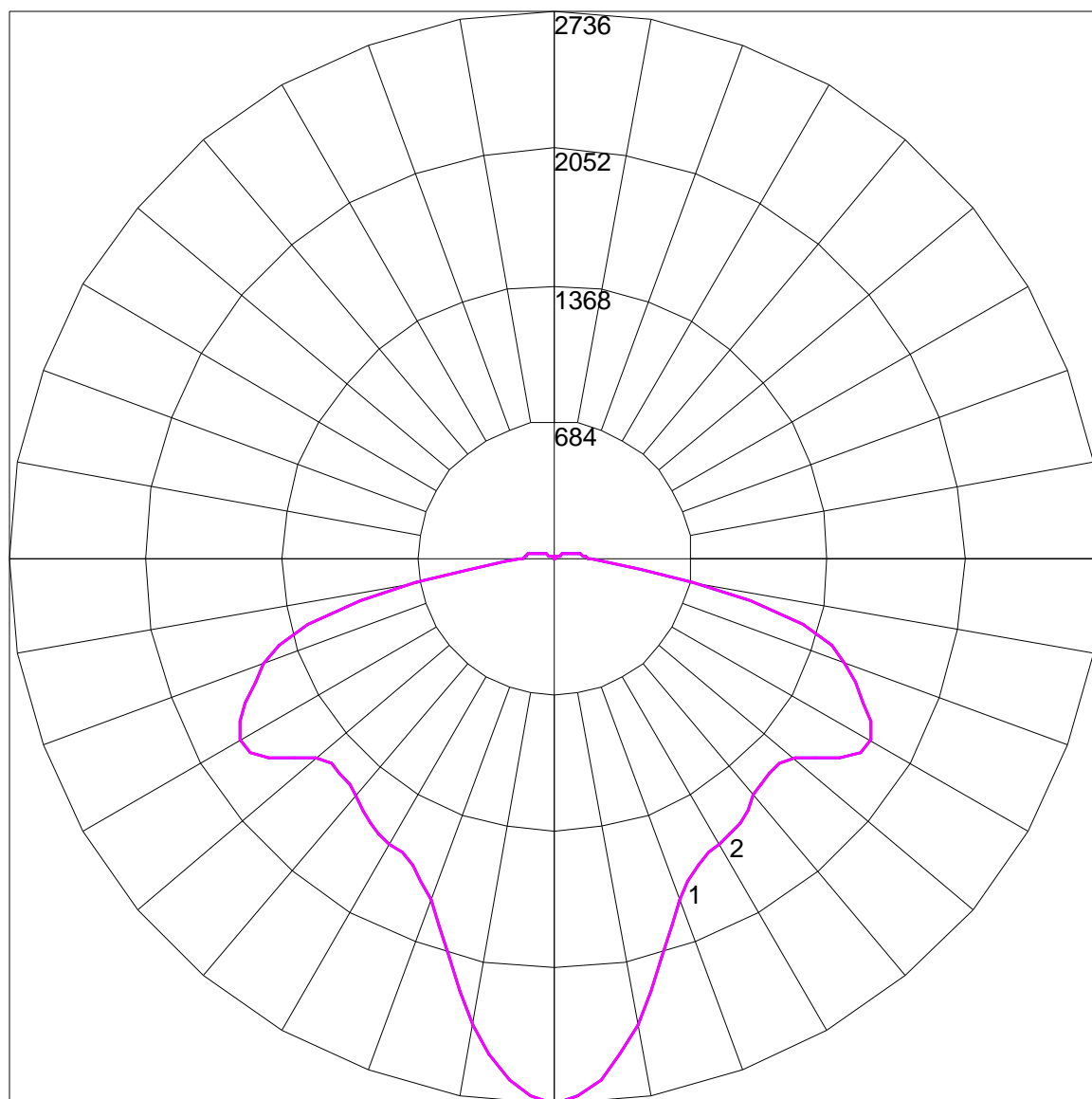
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	99	94	89	102	96	91	87	91	87	84	87	83	80	83	80	77	75
2	93	83	75	68	90	81	73	67	77	70	65	73	67	63	69	65	61	58
3	84	71	62	54	81	69	60	53	66	58	52	62	56	50	59	54	49	46
4	76	62	52	44	73	60	51	43	57	49	42	54	47	41	52	46	40	38
5	69	54	44	37	67	53	44	36	50	42	36	48	41	35	46	39	34	32
6	63	49	39	31	61	47	38	31	45	37	31	43	36	30	41	35	29	27
7	59	44	34	27	56	43	34	27	41	33	27	39	32	26	37	31	26	23
8	54	40	30	24	53	39	30	24	37	29	23	36	28	23	34	28	23	21
9	51	36	27	21	49	36	27	21	34	26	21	33	26	21	31	25	20	18
10	48	33	25	19	46	33	25	19	32	24	19	30	24	19	29	23	18	17

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00678_1 ~ PR1605LEDLX100L35KEXCD3X.IES

POLAR GRAPH



Maximum Candela = 2735.891 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)