

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE6--SQLEDOS-30L35KE1--OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]20141023\_M-30L-Gen3  
[TESTLAB]OSRAM SYLVANIA  
[TESTDATE]8/14/2014  
[ISSUE DATE]8/14/2014  
[UPDATE]11/11/2016  
[MANUFAC]Spectrum Lighting  
[LUMCAT]SGE6SQLEDOS-30L-35K-E1-CA0366OS-MW-SO  
[LUMINAIRE]6" Square, LED recessed downlight  
[TRIM]Cast Alum, Matte White finish, regressed Solite lens  
[OTHER]69.4 Degree Beam Angle  
[LAMP]N/A  
[LAMPCAT]N/A  
[OTHER]Total Luminaire Watts is approximate  
[OTHER]Photometric measurements taken at 120VAC  
[OTHER]Data applicable for Housing: SGE6PZSQLEDOS  
[OTHER]Data applicable for Trims: SD6NOS-MS-SO and TP0366OS-MW-SO  
[OTHER]Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946  
[OTHER]Catalog number designation update: 35W is now called 30L  
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.48 ft
Luminous Width (90-270)	0.48 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21699	33657	21039
55	16967	18297	16903
65	16603	16516	16546
75	15931	15662	15956
85	13798	13958	14075

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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	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788
2.5	1728.584	1727.321	1725.709	1725.560	1728.007	1725.560	1725.709	1727.321	1728.584	1727.321
5.0	1719.800	1717.642	1718.815	1716.746	1717.254	1716.746	1718.815	1717.642	1719.800	1717.642
7.5	1709.613	1709.116	1702.361	1705.774	1708.698	1705.774	1702.361	1709.116	1709.613	1709.116
10.0	1696.850	1691.041	1690.523	1690.663	1693.169	1690.663	1690.523	1691.041	1696.850	1691.041
12.5	1675.691	1672.139	1673.681	1671.373	1672.786	1671.373	1673.681	1672.139	1675.691	1672.139
15.0	1650.403	1650.174	1657.217	1649.418	1648.463	1649.418	1657.217	1650.174	1650.403	1650.174
17.5	1619.355	1620.589	1636.287	1623.792	1622.240	1623.792	1636.287	1620.589	1619.355	1620.589
20.0	1591.730	1596.087	1607.627	1598.415	1594.863	1598.415	1607.627	1596.087	1591.730	1596.087
22.5	1556.872	1562.114	1574.380	1571.734	1563.557	1571.734	1574.380	1562.114	1556.872	1562.114
25.0	1491.872	1517.070	1530.410	1529.963	1502.616	1529.963	1530.410	1517.070	1491.872	1517.070
27.5	1384.125	1437.765	1481.695	1454.795	1391.069	1454.795	1481.695	1437.765	1384.125	1437.765
30.0	1225.842	1316.687	1413.611	1334.266	1227.862	1334.266	1413.611	1316.687	1225.842	1316.687
32.5	1032.204	1152.346	1322.835	1171.088	1037.855	1171.088	1322.835	1152.346	1032.204	1152.346
35.0	837.094	965.503	1198.276	982.196	830.867	982.196	1198.276	965.503	837.094	965.503
37.5	655.195	778.779	1030.921	784.798	643.108	784.798	1030.921	778.779	655.195	778.779
40.0	504.423	609.773	842.397	611.553	494.237	611.553	842.397	609.773	504.423	609.773
42.5	400.327	475.166	662.477	473.395	389.066	473.395	662.477	475.166	400.327	475.166
45.0	328.732	380.123	509.895	374.622	318.734	374.622	509.895	380.123	328.732	380.123
47.5	279.101	314.377	393.443	308.478	272.804	308.478	393.443	314.377	279.101	314.377
50.0	247.098	268.118	313.830	264.040	243.199	264.040	313.830	268.118	247.098	268.118
52.5	225.849	237.270	260.737	235.131	223.701	235.131	260.737	237.270	225.849	237.270
55.0	208.500	216.021	224.845	214.857	207.724	214.857	224.845	216.021	208.500	216.021
57.5	193.429	198.582	199.656	197.886	192.713	197.886	199.656	198.582	193.429	198.582
60.0	179.114	182.824	180.745	182.506	178.288	182.506	180.745	182.824	179.114	182.824
62.5	164.619	167.614	164.610	167.485	164.052	167.485	164.610	167.614	164.619	167.614
65.0	150.334	152.503	149.548	152.403	149.817	152.403	149.548	152.503	150.334	152.503
67.5	136.168	137.332	134.258	137.153	135.611	137.153	134.258	137.332	136.168	137.332
70.0	121.614	122.072	118.938	122.102	121.286	122.102	118.938	122.072	121.614	122.072
72.5	106.195	106.175	103.161	106.334	106.195	106.334	103.161	106.175	106.195	106.175
75.0	88.338	89.273	86.846	89.870	88.478	89.870	86.846	89.273	88.338	89.273
77.5	71.069	71.874	70.820	72.750	71.437	72.750	70.820	71.874	71.069	71.874
80.0	54.853	55.629	54.993	56.793	55.122	56.793	54.993	55.629	54.853	55.629
82.5	39.752	40.399	40.150	41.493	40.110	41.493	40.150	40.399	39.752	40.399
85.0	25.765	26.133	26.064	27.287	26.283	27.287	26.064	26.133	25.765	26.133
87.5	13.082	13.131	13.221	14.236	13.589	14.236	13.221	13.131	13.082	13.131
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

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**CANDELA TABULATION - (Cont.)**

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	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788	1731.788
2.5	1725.709	1725.560	1728.007	1725.560	1725.709	1727.321	1728.584
5.0	1718.815	1716.746	1717.254	1716.746	1718.815	1717.642	1719.800
7.5	1702.361	1705.774	1708.698	1705.774	1702.361	1709.116	1709.613
10.0	1690.523	1690.663	1693.169	1690.663	1690.523	1691.041	1696.850
12.5	1673.681	1671.373	1672.786	1671.373	1673.681	1672.139	1675.691
15.0	1657.217	1649.418	1648.463	1649.418	1657.217	1650.174	1650.403
17.5	1636.287	1623.792	1622.240	1623.792	1636.287	1620.589	1619.355
20.0	1607.627	1598.415	1594.863	1598.415	1607.627	1596.087	1591.730
22.5	1574.380	1571.734	1563.557	1571.734	1574.380	1562.114	1556.872
25.0	1530.410	1529.963	1502.616	1529.963	1530.410	1517.070	1491.872
27.5	1481.695	1454.795	1391.069	1454.795	1481.695	1437.765	1384.125
30.0	1413.611	1334.266	1227.862	1334.266	1413.611	1316.687	1225.842
32.5	1322.835	1171.088	1037.855	1171.088	1322.835	1152.346	1032.204
35.0	1198.276	982.196	830.867	982.196	1198.276	965.503	837.094
37.5	1030.921	784.798	643.108	784.798	1030.921	778.779	655.195
40.0	842.397	611.553	494.237	611.553	842.397	609.773	504.423
42.5	662.477	473.395	389.066	473.395	662.477	475.166	400.327
45.0	509.895	374.622	318.734	374.622	509.895	380.123	328.732
47.5	393.443	308.478	272.804	308.478	393.443	314.377	279.101
50.0	313.830	264.040	243.199	264.040	313.830	268.118	247.098
52.5	260.737	235.131	223.701	235.131	260.737	237.270	225.849
55.0	224.845	214.857	207.724	214.857	224.845	216.021	208.500
57.5	199.656	197.886	192.713	197.886	199.656	198.582	193.429
60.0	180.745	182.506	178.288	182.506	180.745	182.824	179.114
62.5	164.610	167.485	164.052	167.485	164.610	167.614	164.619
65.0	149.548	152.403	149.817	152.403	149.548	152.503	150.334
67.5	134.258	137.153	135.611	137.153	134.258	137.332	136.168
70.0	118.938	122.102	121.286	122.102	118.938	122.072	121.614
72.5	103.161	106.334	106.195	106.334	103.161	106.175	106.195
75.0	86.846	89.870	88.478	89.870	86.846	89.273	88.338
77.5	70.820	72.750	71.437	72.750	70.820	71.874	71.069
80.0	54.993	56.793	55.122	56.793	54.993	55.629	54.853

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**CANDELA TABULATION - (Cont.)**

82.5	40.150	41.493	40.110	41.493	40.150	40.399	39.752
85.0	26.064	27.287	26.283	27.287	26.064	26.133	25.765
87.5	13.221	14.236	13.589	14.236	13.221	13.131	13.082
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	629.20	N.A.	23.10
0-30	1318.4	N.A.	48.40
0-40	1931.48	N.A.	71.00
0-60	2449.13	N.A.	90.00
0-80	2692.15	N.A.	98.90
0-90	2721.58	N.A.	100.00
10-90	2558.4	N.A.	94.00
20-40	1302.28	N.A.	47.90
20-50	1623.38	N.A.	59.60
40-70	667.27	N.A.	24.50
60-80	243.02	N.A.	8.90
70-80	93.40	N.A.	3.40
80-90	29.43	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2721.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	163.18
10-20	466.02
20-30	689.20
30-40	613.08
40-50	321.10
50-60	196.55
60-70	149.62
70-80	93.40
80-90	29.43
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

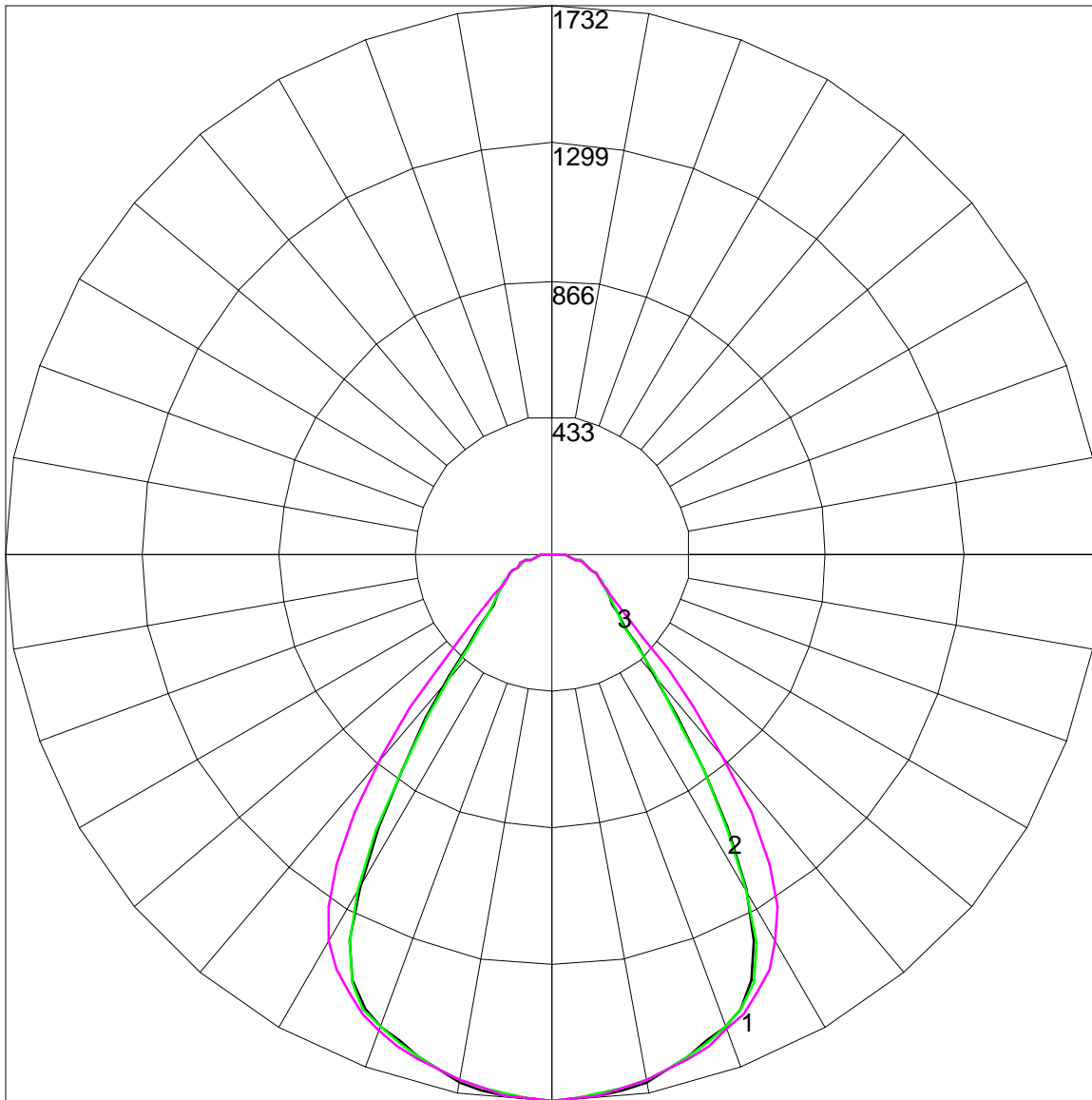
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	76	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 1731.788 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)