

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934824

Luminaire Tested: SQ4-FA-075U-100D-927-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934824
REPORT IS A COMBINATION OF REPORTS P933716 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-927-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

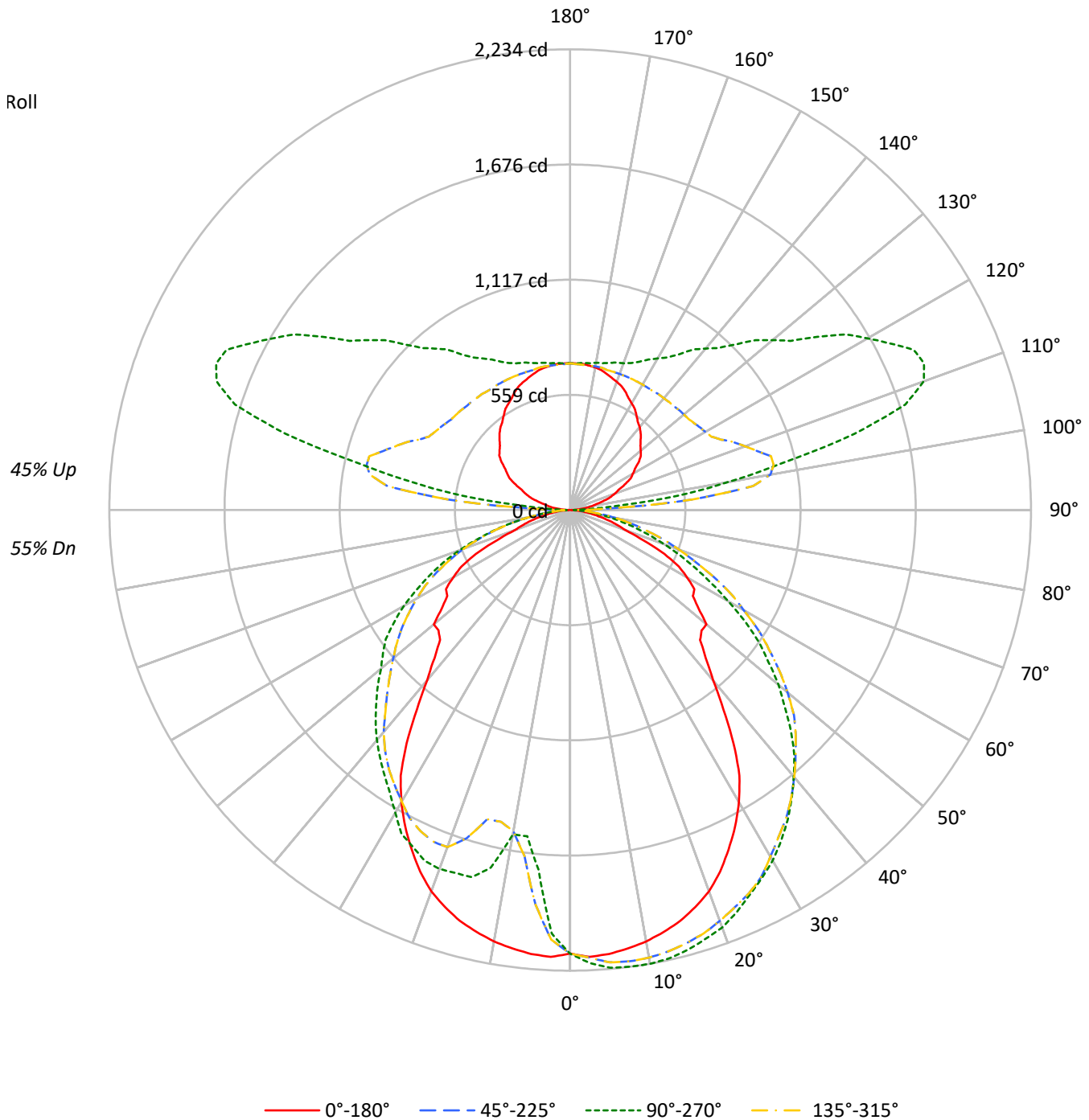
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10190.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 102.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46				
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9978	9978	9978	9978
5°	10053	10073	10053	7920
10°	9986	9922	9986	7093
15°	9877	9707	9877	8106
20°	9671	9453	9671	8123
25°	9248	9081	9248	7950
30°	8701	8773	8701	7573
35°	7757	8383	7757	7157
40°	6464	7924	6464	6843
45°	5775	7386	5775	6482
50°	6136	6745	6136	6120
55°	5773	6054	5773	5911
60°	5951	5142	5951	5414
65°	5395	4251	5395	4751
70°	3735	3387	3735	3982
75°	3276	2504	3276	2998
80°	2640	1655	2640	1803
85°	1518	877	1518	744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	1.9
10°-20°	551.2	5.4
20°-30°	852.1	8.4
30°-40°	1017.2	10.0
40°-50°	1023.2	10.0
50°-60°	890.3	8.7
60°-70°	631.2	6.2
70°-80°	333.9	3.3
80°-90°	85.9	0.8
90°-100°	346.7	3.4
100°-110°	911.6	8.9
110°-120°	945.2	9.3
120°-130°	758.2	7.4
130°-140°	594.9	5.8
140°-150°	456.6	4.5
150°-160°	328.8	3.2
160°-170°	201.2	2.0
170°-180°	68.0	0.7
0°-30°	1597.4	15.7
0°-40°	2614.6	25.7
0°-60°	4528.0	44.4
0°-90°	5579.1	54.7
90°-120°	2203.5	21.6
90°-150°	4013.1	39.4
90°-180°	4611.0	45.2
0°-180°	10190.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2151	2151	2151	2151	2151	
5°	2161	2228	2161	1752	2161	205
15°	2063	2208	2063	1844	2063	581
25°	1817	2059	1817	1803	1817	834
35°	1382	1837	1382	1569	1382	855
45°	891	1514	891	1329	891	714
55°	726	1117	726	1091	726	667
65°	505	674	505	753	505	482
75°	191	320	191	382	191	201
85°	33	81	33	69	33	44
90°	5	18	5	18	5	5
95°	46	210	46	210	46	51
105°	164	1427	164	1427	164	174
115°	292	1838	292	1838	292	288
125°	406	1464	406	1464	406	360
135°	484	1136	484	1136	484	374
145°	561	921	561	921	561	351
155°	634	793	634	793	634	291
165°	684	739	684	739	684	193
175°	711	716	711	716	711	68
180°	711	711	711	711	711	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2169.0	2169.0	2181.2	2185.3	2185.3	2179.2	2173.1	2179.2	2197.5	2203.6	2201.6
5°	2160.9	2177.1	2199.5	2203.6	2207.7	2205.6	2201.6	2205.6	2226.0	2230.1	2232.1
7.5°	2144.6	2175.1	2203.6	2209.7	2215.8	2209.7	2207.7	2211.7	2232.1	2236.2	2236.2
10°	2124.2	2166.9	2199.5	2203.6	2209.7	2203.6	2203.6	2211.7	2232.1	2236.2	2238.2
12.5°	2095.7	2154.8	2185.3	2189.3	2197.5	2195.4	2193.4	2201.6	2221.9	2226.0	2226.0
15°	2063.2	2132.4	2160.9	2164.9	2179.2	2175.1	2175.1	2183.3	2205.6	2211.7	2209.7
17.5°	2018.4	2103.9	2136.4	2142.5	2152.7	2150.7	2152.7	2160.9	2181.2	2185.3	2187.3
20°	1967.6	2065.2	2103.9	2110.0	2120.2	2120.2	2120.2	2130.4	2150.7	2158.8	2158.8
22.5°	1898.4	2024.6	2065.2	2069.3	2081.5	2081.5	2085.5	2099.8	2118.1	2120.2	2120.2
25°	1817.0	1979.7	2014.3	2026.6	2038.8	2044.9	2051.0	2059.1	2065.2	2063.2	2065.2
27.5°	1731.5	1922.8	1967.6	1975.7	1992.0	1998.1	2006.2	2008.2	2010.3	2016.4	2012.3
30°	1635.9	1843.5	1910.6	1918.8	1945.2	1949.3	1941.1	1945.2	1955.3	1959.4	1963.5
32.5°	1528.1	1725.4	1851.6	1869.9	1894.3	1882.1	1880.0	1886.2	1902.4	1902.4	1906.5
35°	1381.5	1633.9	1796.6	1812.9	1831.2	1817.0	1825.1	1827.1	1837.4	1843.5	1841.4
37.5°	1220.8	1554.5	1739.7	1751.9	1766.1	1747.8	1760.0	1766.1	1774.2	1770.2	1770.2
40°	1078.4	1430.4	1672.5	1680.7	1692.8	1678.6	1690.8	1694.9	1699.0	1694.9	1692.8
42.5°	972.6	1294.1	1601.3	1611.5	1603.4	1613.5	1617.6	1625.7	1619.6	1611.5	1611.5
45°	891.2	1257.4	1524.0	1536.2	1524.0	1540.3	1546.4	1546.4	1528.1	1524.0	1522.0
47.5°	864.8	1184.2	1446.7	1446.7	1440.6	1460.9	1471.1	1456.8	1438.5	1432.4	1432.4
50°	862.7	1102.8	1340.9	1332.7	1361.2	1385.6	1375.5	1361.2	1347.0	1324.6	1324.6
52.5°	783.4	1003.1	1204.5	1235.1	1279.8	1294.1	1277.8	1263.6	1239.2	1229.0	1220.8
55°	726.4	899.4	1080.5	1141.4	1188.3	1206.6	1176.0	1161.9	1125.2	1119.1	1115.0
57.5°	714.2	748.7	966.5	1043.8	1100.8	1098.7	1080.5	1054.0	1023.5	1017.3	1015.3
60°	655.2	541.2	844.4	935.9	995.0	988.8	972.6	948.2	919.7	915.6	911.5
62.5°	594.1	392.7	706.0	809.8	893.2	891.2	877.0	840.3	820.0	809.8	801.6
65°	504.6	329.6	502.6	673.5	793.6	797.6	767.1	740.7	718.3	706.0	704.0
67.5°	384.5	268.6	339.8	561.6	697.9	693.8	655.2	643.0	614.5	608.4	596.1
70°	284.8	179.0	236.0	455.8	604.3	594.1	563.6	549.4	522.9	508.7	500.5
72.5°	236.0	144.5	172.9	354.0	508.7	496.5	470.0	453.8	431.4	419.1	411.0
75°	191.3	152.6	132.3	262.5	413.0	404.9	380.5	364.2	345.9	329.6	331.6
77.5°	140.4	142.5	105.8	193.3	327.6	315.4	301.1	280.8	272.7	256.4	256.4
80°	105.8	111.9	79.4	132.3	236.0	236.0	223.8	209.6	195.3	187.2	187.2
82.5°	71.2	71.2	59.0	83.4	160.8	154.6	146.5	142.5	134.3	130.2	130.2
85°	32.6	40.7	36.7	50.9	87.5	91.6	91.6	87.5	85.5	81.4	83.4
87.5°	10.2	18.3	22.4	28.5	44.7	46.8	48.8	48.8	48.8	50.9	50.9
90°	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2	18.2	18.2
92.5°	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6	90.7	87.1
95°	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3	307.9	297.0
97.5°	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8	710.9	690.1
100°	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8	998.2	973.4
102.5°	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9	1243.6	1222.4
105°	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9	1530.0	1518.6
107.5°	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1	1679.0	1681.8
110°	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7	1717.2	1729.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0	1692.8	1711.1
115°	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6	1610.2	1635.6
117.5°	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6	1496.1	1524.1
120°	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6	1419.3	1446.5
122.5°	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7	1342.4	1369.3
125°	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8	1240.7	1265.5
127.5°	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1	1159.1	1179.9
130°	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5	1107.6	1126.9
132.5°	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1	1063.6	1080.9
135°	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8	1001.5	1016.5
137.5°	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0	955.7	967.9
140°	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3	919.0	930.4
142.5°	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1	893.2	903.0
145°	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8	854.5	861.9
147.5°	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1	822.1	828.2
150°	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7	803.4	808.4
152.5°	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8	788.6	792.4
155°	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1	771.0	773.5
157.5°	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9	755.7	757.4
160°	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8	748.1	749.1
162.5°	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0	740.9	741.8
165°	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7	730.0	731.0
167.5°	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1	725.2	725.6
170°	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1	725.2	725.2
172.5°	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6	721.3	721.0
175°	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1	716.1	716.1
177.5°	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7	715.1	714.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2205.6	2199.5	2205.6	2201.6	2203.6	2197.5	2179.2	2173.1	2179.2	2185.3	2185.3
5°	2232.1	2228.0	2232.1	2232.1	2230.1	2226.0	2205.6	2201.6	2205.6	2207.7	2203.6
7.5°	2240.2	2234.1	2240.2	2236.2	2236.2	2232.1	2211.7	2207.7	2209.7	2215.8	2209.7
10°	2240.2	2234.1	2240.2	2238.2	2236.2	2232.1	2211.7	2203.6	2203.6	2209.7	2203.6
12.5°	2230.1	2226.0	2230.1	2226.0	2226.0	2221.9	2201.6	2193.4	2195.4	2197.5	2189.3
15°	2213.8	2207.7	2213.8	2209.7	2211.7	2205.6	2183.3	2175.1	2175.1	2179.2	2164.9
17.5°	2189.3	2181.2	2189.3	2187.3	2185.3	2181.2	2160.9	2152.7	2150.7	2152.7	2142.5
20°	2160.9	2154.8	2160.9	2158.8	2158.8	2150.7	2130.4	2120.2	2120.2	2120.2	2110.0
22.5°	2116.1	2110.0	2116.1	2120.2	2120.2	2118.1	2099.8	2085.5	2081.5	2081.5	2069.3
25°	2065.2	2059.1	2065.2	2065.2	2063.2	2065.2	2059.1	2051.0	2044.9	2038.8	2026.6
27.5°	2016.4	2012.3	2016.4	2012.3	2016.4	2010.3	2008.2	2006.2	1998.1	1992.0	1975.7
30°	1967.6	1963.5	1967.6	1963.5	1959.4	1955.3	1945.2	1941.1	1949.3	1945.2	1918.8
32.5°	1906.5	1902.4	1906.5	1906.5	1902.4	1902.4	1886.2	1880.0	1882.1	1894.3	1869.9
35°	1843.5	1837.4	1843.5	1841.4	1843.5	1837.4	1827.1	1825.1	1817.0	1831.2	1812.9
37.5°	1770.2	1764.1	1770.2	1770.2	1770.2	1774.2	1766.1	1760.0	1747.8	1766.1	1751.9
40°	1694.9	1686.8	1694.9	1692.8	1694.9	1699.0	1694.9	1690.8	1678.6	1692.8	1680.7
42.5°	1609.5	1607.5	1609.5	1611.5	1611.5	1619.6	1625.7	1617.6	1613.5	1603.4	1611.5
45°	1517.9	1513.8	1517.9	1522.0	1524.0	1528.1	1546.4	1546.4	1540.3	1524.0	1536.2
47.5°	1420.2	1410.0	1420.2	1432.4	1432.4	1438.5	1456.8	1471.1	1460.9	1440.6	1446.7
50°	1316.5	1318.5	1316.5	1324.6	1324.6	1347.0	1361.2	1375.5	1385.6	1361.2	1332.7
52.5°	1214.8	1212.7	1214.8	1220.8	1229.0	1239.2	1263.6	1277.8	1294.1	1279.8	1235.1
55°	1113.0	1117.0	1113.0	1115.0	1119.1	1125.2	1161.9	1176.0	1206.6	1188.3	1141.4
57.5°	1011.2	1005.2	1011.2	1015.3	1017.3	1023.5	1054.0	1080.5	1098.7	1100.8	1043.8
60°	893.2	885.1	893.2	911.5	915.6	919.7	948.2	972.6	988.8	995.0	935.9
62.5°	789.5	775.2	789.5	801.6	809.8	820.0	840.3	877.0	891.2	893.2	809.8
65°	679.6	673.5	679.6	704.0	706.0	718.3	740.7	767.1	797.6	793.6	673.5
67.5°	579.9	579.9	579.9	596.1	608.4	614.5	643.0	655.2	693.8	697.9	561.6
70°	488.3	486.3	488.3	500.5	508.7	522.9	549.4	563.6	594.1	604.3	455.8
72.5°	400.9	398.8	400.9	411.0	419.1	431.4	453.8	470.0	496.5	508.7	354.0
75°	323.6	319.5	323.6	331.6	329.6	345.9	364.2	380.5	404.9	413.0	262.5
77.5°	248.2	248.2	248.2	256.4	256.4	272.7	280.8	301.1	315.4	327.6	193.3
80°	185.2	183.1	185.2	187.2	187.2	195.3	209.6	223.8	236.0	236.0	132.3
82.5°	130.2	126.1	130.2	130.2	130.2	134.3	142.5	146.5	154.6	160.8	83.4
85°	81.4	81.4	81.4	83.4	81.4	85.5	87.5	91.6	91.6	87.5	50.9
87.5°	52.9	50.9	52.9	50.9	50.9	48.8	48.8	48.8	46.8	44.7	28.5
90°	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2	21.0	13.4
92.5°	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4	129.6	92.2
95°	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4	318.7	179.5
97.5°	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9	429.4	197.2
100°	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1	469.6	212.0
102.5°	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5	488.0	226.8
105°	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1	501.7	248.7
107.5°	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7	504.3	281.2
110°	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6	500.4	299.3



TEST NUMBER: P934824

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7	500.6	321.2
115°	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6	505.2	354.2
117.5°	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8	514.7	386.2
120°	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8	522.2	404.8
122.5°	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1	533.2	426.8
125°	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1	548.0	454.9
127.5°	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4	562.9	482.2
130°	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5	573.6	500.3
132.5°	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1	582.4	515.1
135°	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5	592.0	532.3
137.5°	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7	606.3	554.2
140°	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4	615.0	569.0
142.5°	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8	622.4	580.0
145°	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8	631.9	596.8
147.5°	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5	646.0	617.8
150°	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9	653.2	628.7
152.5°	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5	658.0	635.9
155°	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0	668.5	651.7
157.5°	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5	679.0	667.4
160°	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1	683.8	674.5
162.5°	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8	688.9	682.2
165°	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2	696.2	693.2
167.5°	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3	701.9	699.4
170°	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9	706.7	706.6
172.5°	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9	709.9	711.3
177.5°	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7	710.2	711.3
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934824

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2181.2	2169.0	2169.0	2148.7	2140.5	2134.4	2124.2	2093.7	2085.5	2077.5	2089.6
5°	2199.5	2177.1	2160.9	2124.2	2093.7	2081.5	2042.8	1969.6	1920.8	1884.1	1863.8
7.5°	2203.6	2175.1	2144.6	2087.6	2014.3	1981.8	1863.8	1729.5	1692.8	1660.4	1639.9
10°	2199.5	2166.9	2124.2	2038.8	1865.8	1808.9	1690.8	1603.4	1581.0	1574.9	1581.0
12.5°	2185.3	2154.8	2095.7	1953.3	1711.2	1672.5	1603.4	1552.5	1548.4	1558.6	1613.5
15°	2160.9	2132.4	2063.2	1839.4	1625.7	1597.2	1548.4	1530.1	1552.5	1623.7	1788.5
17.5°	2136.4	2103.9	2018.4	1727.5	1560.6	1540.3	1505.7	1542.3	1668.4	1764.1	1819.0
20°	2103.9	2065.2	1967.6	1646.1	1513.8	1495.5	1479.2	1644.0	1739.7	1774.2	1804.8
22.5°	2065.2	2024.6	1898.4	1589.1	1465.0	1450.8	1460.9	1701.0	1739.7	1764.1	1790.6
25°	2014.3	1979.7	1817.0	1544.3	1426.3	1410.0	1448.7	1694.9	1717.3	1723.4	1776.3
27.5°	1967.6	1922.8	1731.5	1503.7	1379.5	1373.4	1458.9	1668.4	1684.8	1690.8	1747.8
30°	1910.6	1843.5	1635.9	1460.9	1330.7	1328.6	1460.9	1635.9	1631.9	1648.1	1705.1
32.5°	1851.6	1725.4	1528.1	1408.0	1283.9	1281.9	1446.7	1587.0	1583.0	1605.4	1648.1
35°	1796.6	1633.9	1381.5	1347.0	1224.9	1226.9	1412.1	1530.1	1532.1	1552.5	1579.0
37.5°	1739.7	1554.5	1220.8	1279.8	1167.9	1167.9	1365.3	1477.2	1473.2	1479.2	1515.8
40°	1672.5	1430.4	1078.4	1192.3	1115.0	1108.9	1308.3	1420.2	1405.9	1403.9	1454.8
42.5°	1601.3	1294.1	972.6	1076.4	1054.0	1045.8	1239.2	1351.0	1324.6	1330.7	1395.8
45°	1524.0	1257.4	891.2	909.5	990.9	984.8	1163.9	1271.7	1253.4	1269.7	1336.8
47.5°	1446.7	1184.2	864.8	754.9	923.8	921.7	1080.5	1194.3	1184.2	1200.5	1271.7
50°	1340.9	1102.8	862.7	647.0	848.5	856.6	980.7	1119.1	1119.1	1133.4	1208.6
52.5°	1204.5	1003.1	783.4	586.0	761.0	785.4	893.2	1054.0	1058.1	1072.3	1139.4
55°	1080.5	899.4	726.4	539.2	657.2	710.1	807.8	986.8	995.0	1009.2	1070.2
57.5°	966.5	748.7	714.2	484.3	561.6	612.5	732.5	921.7	925.8	938.0	997.0
60°	844.4	541.2	655.2	425.3	478.2	516.8	663.3	844.4	858.6	866.8	917.7
62.5°	706.0	392.7	594.1	384.5	437.4	445.6	606.4	771.2	789.5	795.6	826.1
65°	502.6	329.6	504.6	350.0	394.7	396.8	545.3	695.8	712.2	722.3	744.7
67.5°	339.8	268.6	384.5	317.4	362.2	364.2	486.3	608.4	630.8	638.9	653.1
70°	236.0	179.0	284.8	282.8	325.6	329.6	423.2	529.0	549.4	555.5	563.6
72.5°	172.9	144.5	236.0	254.3	286.9	291.0	358.1	439.5	459.8	465.9	470.0
75°	132.3	152.6	191.3	221.8	244.2	246.2	293.0	358.1	372.4	376.5	378.5
77.5°	105.8	142.5	140.4	179.0	199.4	195.3	229.9	276.7	288.9	288.9	288.9
80°	79.4	111.9	105.8	128.2	146.5	142.5	164.8	197.4	201.4	205.5	203.4
82.5°	59.0	71.2	71.2	81.4	97.6	93.6	109.9	128.2	128.2	128.2	132.3
85°	36.7	40.7	32.6	42.7	54.9	52.9	61.1	69.1	71.2	71.2	67.1
87.5°	22.4	18.3	10.2	16.2	24.4	24.4	28.5	30.5	28.5	28.5	28.5
90°	12.5	8.6	4.8	8.6	12.5	13.4	21.0	31.2	36.3	32.3	24.2
92.5°	84.1	51.6	19.1	51.6	84.1	92.2	129.6	179.4	204.4	179.1	128.6
95°	164.6	105.3	45.8	105.3	164.6	179.5	318.7	504.4	597.2	532.9	404.3
97.5°	184.1	131.7	79.2	131.7	184.1	197.2	429.4	738.9	893.7	853.0	771.8
100°	200.1	152.5	105.0	152.5	200.1	212.0	469.6	813.1	984.8	987.8	993.8
102.5°	215.7	171.3	127.0	171.3	215.7	226.8	488.0	836.5	1010.6	1062.4	1165.9
105°	239.3	201.8	164.2	201.8	239.3	248.7	501.7	839.1	1007.8	1123.8	1355.9
107.5°	272.4	237.5	202.4	237.5	272.4	281.2	504.3	801.7	950.5	1112.3	1436.1
110°	291.4	259.8	228.2	259.8	291.4	299.3	500.4	768.6	902.7	1083.7	1445.7



TEST NUMBER: P934824

CATALOG NUMBER: SQ4-FA-075U-100D-927-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	313.7	283.6	253.5	283.6	313.7	321.2	500.6	739.7	859.3	1044.6	1415.0
115°	347.3	319.5	291.7	319.5	347.3	354.2	505.2	706.6	807.3	985.7	1342.6
117.5°	379.9	354.7	329.4	354.7	379.9	386.2	514.7	685.8	771.5	932.5	1254.6
120°	398.9	375.1	351.4	375.1	398.9	404.8	522.2	678.8	757.1	904.3	1198.6
122.5°	420.8	396.9	372.8	396.9	420.8	426.8	533.2	675.1	746.1	878.6	1143.7
125°	449.4	427.7	405.8	427.7	449.4	454.9	548.0	672.1	734.2	846.8	1071.8
127.5°	476.6	454.6	432.5	454.6	476.6	482.2	562.9	670.4	724.2	820.8	1014.1
130°	494.3	470.5	446.8	470.5	494.3	500.3	573.6	671.5	720.4	806.4	978.5
132.5°	509.2	485.4	461.6	485.4	509.2	515.1	582.4	672.1	717.0	794.0	948.1
135°	526.9	505.2	483.6	505.2	526.9	532.3	592.0	671.5	711.3	775.9	904.8
137.5°	548.9	527.4	506.0	527.4	548.9	554.2	606.3	675.7	710.3	764.8	874.0
140°	564.1	544.4	524.7	544.4	564.1	569.0	615.0	676.4	707.0	754.1	848.3
142.5°	575.5	557.2	539.0	557.2	575.5	580.0	622.4	678.8	707.0	748.4	831.1
145°	592.7	576.9	560.9	576.9	592.7	596.8	631.9	678.8	702.2	736.1	803.8
147.5°	613.9	598.4	582.9	598.4	613.9	617.8	646.0	683.5	702.2	728.9	782.1
150°	625.2	611.2	597.2	611.2	625.2	628.7	653.2	685.9	702.2	724.7	769.7
152.5°	633.2	622.6	612.0	622.6	633.2	635.9	658.0	687.5	702.2	721.4	759.8
155°	649.6	641.8	633.9	641.8	649.6	651.7	668.5	691.0	702.2	717.5	748.1
157.5°	665.4	657.8	650.2	657.8	665.4	667.4	679.0	694.5	702.2	714.1	737.9
160°	673.1	667.1	661.2	667.1	673.1	674.5	683.8	696.1	702.2	712.4	732.8
162.5°	681.1	676.6	672.1	676.6	681.1	682.2	688.9	697.8	702.2	710.9	728.0
165°	692.2	688.1	684.1	688.1	692.2	693.2	696.2	700.2	702.2	708.4	720.7
167.5°	698.9	697.0	695.1	697.0	698.9	699.4	701.9	705.3	707.0	711.0	719.1
170°	706.1	704.2	702.2	704.2	706.1	706.6	706.7	706.9	707.0	711.0	719.1
172.5°	706.9	706.5	706.1	706.5	706.9	707.0	707.0	707.0	707.0	710.2	716.6
175°	711.3	711.3	711.3	711.3	711.3	711.3	709.9	707.9	707.0	709.0	713.1
177.5°	711.3	711.3	711.3	711.3	711.3	711.3	710.2	708.7	707.9	709.6	712.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



TEST NUMBER: P934824
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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2075.4	2069.3	2077.5	2055.1	2077.5	2069.3	2075.4	2089.6	2077.5	2085.5	2093.7
5°	1821.0	1810.9	1778.3	1751.9	1778.3	1810.9	1821.0	1863.8	1884.1	1920.8	1969.6
7.5°	1627.8	1619.6	1611.5	1595.2	1611.5	1619.6	1627.8	1639.9	1660.4	1692.8	1729.5
10°	1585.0	1587.0	1599.3	1597.2	1599.3	1587.0	1585.0	1581.0	1574.9	1581.0	1603.4
12.5°	1694.9	1713.2	1780.4	1776.3	1780.4	1713.2	1694.9	1613.5	1558.6	1548.4	1552.5
15°	1821.0	1827.1	1841.4	1843.5	1841.4	1827.1	1821.0	1788.5	1623.7	1552.5	1530.1
17.5°	1833.3	1835.3	1845.5	1845.5	1845.5	1835.3	1833.3	1819.0	1764.1	1668.4	1542.3
20°	1823.1	1827.1	1847.5	1851.6	1847.5	1827.1	1823.1	1804.8	1774.2	1739.7	1644.0
22.5°	1819.0	1827.1	1843.5	1841.4	1843.5	1827.1	1819.0	1790.6	1764.1	1739.7	1701.0
25°	1798.6	1798.6	1800.7	1802.7	1800.7	1798.6	1798.6	1776.3	1723.4	1717.3	1694.9
27.5°	1756.0	1760.0	1772.2	1770.2	1772.2	1760.0	1756.0	1747.8	1690.8	1684.8	1668.4
30°	1717.3	1713.2	1703.0	1694.9	1703.0	1713.2	1717.3	1705.1	1648.1	1631.9	1635.9
32.5°	1652.2	1642.0	1631.9	1625.7	1631.9	1642.0	1652.2	1648.1	1605.4	1583.0	1587.0
35°	1574.9	1576.9	1574.9	1568.7	1574.9	1576.9	1574.9	1579.0	1552.5	1532.1	1530.1
37.5°	1519.9	1524.0	1522.0	1513.8	1522.0	1524.0	1519.9	1515.8	1479.2	1473.2	1477.2
40°	1462.9	1465.0	1462.9	1456.8	1462.9	1465.0	1462.9	1454.8	1403.9	1405.9	1420.2
42.5°	1408.0	1405.9	1399.9	1395.8	1399.9	1405.9	1408.0	1395.8	1330.7	1324.6	1351.0
45°	1345.0	1347.0	1334.8	1328.6	1334.8	1347.0	1345.0	1336.8	1269.7	1253.4	1271.7
47.5°	1281.9	1281.9	1271.7	1265.6	1271.7	1281.9	1281.9	1271.7	1200.5	1184.2	1194.3
50°	1214.8	1212.7	1198.4	1196.4	1198.4	1212.7	1214.8	1208.6	1133.4	1119.1	1119.1
52.5°	1137.4	1137.4	1139.4	1143.5	1139.4	1137.4	1137.4	1139.4	1072.3	1058.1	1054.0
55°	1070.2	1072.3	1086.5	1090.6	1086.5	1072.3	1070.2	1070.2	1009.2	995.0	986.8
57.5°	1001.1	1001.1	1011.2	1011.2	1011.2	1001.1	1001.1	997.0	938.0	925.8	921.7
60°	921.7	925.8	933.9	931.9	933.9	925.8	921.7	917.7	866.8	858.6	844.4
62.5°	838.3	842.4	844.4	840.3	844.4	842.4	838.3	826.1	795.6	789.5	771.2
65°	750.8	754.9	756.9	752.8	756.9	754.9	750.8	744.7	722.3	712.2	695.8
67.5°	661.3	659.3	657.2	665.4	657.2	659.3	661.3	653.1	638.9	630.8	608.4
70°	569.7	569.7	567.6	571.7	567.6	569.7	569.7	563.6	555.5	549.4	529.0
72.5°	472.1	470.0	478.2	472.1	478.2	470.0	472.1	470.0	465.9	459.8	439.5
75°	376.5	380.5	376.5	382.5	376.5	380.5	376.5	378.5	376.5	372.4	358.1
77.5°	286.9	291.0	286.9	286.9	286.9	291.0	286.9	288.9	288.9	288.9	276.7
80°	203.4	201.4	201.4	199.4	201.4	201.4	203.4	203.4	205.5	201.4	197.4
82.5°	130.2	128.2	128.2	132.3	128.2	128.2	130.2	132.3	128.2	128.2	128.2
85°	71.2	73.2	69.1	69.1	69.1	73.2	71.2	67.1	71.2	71.2	69.1
87.5°	26.5	24.4	24.4	24.4	24.4	24.4	26.5	28.5	28.5	28.5	30.5
90°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	24.2	32.3	36.3	31.2
92.5°	90.7	87.1	72.7	58.2	72.7	87.1	90.7	128.6	179.1	204.4	179.4
95°	307.9	297.0	253.3	209.6	253.3	297.0	307.9	404.3	532.9	597.2	504.4
97.5°	710.9	690.1	606.8	523.7	606.8	690.1	710.9	771.8	853.0	893.7	738.9
100°	998.2	973.4	874.4	775.3	874.4	973.4	998.2	993.8	987.8	984.8	813.1
102.5°	1243.6	1222.4	1137.5	1052.7	1137.5	1222.4	1243.6	1165.9	1062.4	1010.6	836.5
105°	1530.0	1518.6	1472.9	1427.3	1472.9	1518.6	1530.0	1355.9	1123.8	1007.8	839.1
107.5°	1679.0	1681.8	1692.8	1703.8	1692.8	1681.8	1679.0	1436.1	1112.3	950.5	801.7
110°	1717.2	1729.0	1776.6	1824.1	1776.6	1729.0	1717.2	1445.7	1083.7	902.7	768.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1692.8	1711.1	1784.0	1857.0	1784.0	1711.1	1692.8	1415.0	1044.6	859.3	739.7
115°	1610.2	1635.6	1736.7	1837.9	1736.7	1635.6	1610.2	1342.6	985.7	807.3	706.6
117.5°	1496.1	1524.1	1636.4	1748.7	1636.4	1524.1	1496.1	1254.6	932.5	771.5	685.8
120°	1419.3	1446.5	1555.6	1664.7	1555.6	1446.5	1419.3	1198.6	904.3	757.1	678.8
122.5°	1342.4	1369.3	1476.9	1584.4	1476.9	1369.3	1342.4	1143.7	878.6	746.1	675.1
125°	1240.7	1265.5	1364.6	1463.7	1364.6	1265.5	1240.7	1071.8	846.8	734.2	672.1
127.5°	1159.1	1179.9	1263.6	1347.2	1263.6	1179.9	1159.1	1014.1	820.8	724.2	670.4
130°	1107.6	1126.9	1204.0	1281.3	1204.0	1126.9	1107.6	978.5	806.4	720.4	671.5
132.5°	1063.6	1080.9	1150.1	1219.2	1150.1	1080.9	1063.6	948.1	794.0	717.0	672.1
135°	1001.5	1016.5	1076.1	1135.7	1076.1	1016.5	1001.5	904.8	775.9	711.3	671.5
137.5°	955.7	967.9	1016.7	1065.5	1016.7	967.9	955.7	874.0	764.8	710.3	675.7
140°	919.0	930.4	976.1	1021.6	976.1	930.4	919.0	848.3	754.1	707.0	676.4
142.5°	893.2	903.0	942.2	981.5	942.2	903.0	893.2	831.1	748.4	707.0	678.8
145°	854.5	861.9	891.7	921.4	891.7	861.9	854.5	803.8	736.1	702.2	678.8
147.5°	822.1	828.2	852.8	877.4	852.8	828.2	822.1	782.1	728.9	702.2	683.5
150°	803.4	808.4	828.4	848.3	828.4	808.4	803.4	769.7	724.7	702.2	685.9
152.5°	788.6	792.4	807.4	822.5	807.4	792.4	788.6	759.8	721.4	702.2	687.5
155°	771.0	773.5	783.5	793.4	783.5	773.5	771.0	748.1	717.5	702.2	691.0
157.5°	755.7	757.4	764.5	771.5	764.5	757.4	755.7	737.9	714.1	702.2	694.5
160°	748.1	749.1	753.1	757.1	753.1	749.1	748.1	732.8	712.4	702.2	696.1
162.5°	740.9	741.8	745.7	749.5	745.7	741.8	740.9	728.0	710.9	702.2	697.8
165°	730.0	731.0	735.0	739.0	735.0	731.0	730.0	720.7	708.4	702.2	700.2
167.5°	725.2	725.6	727.3	729.0	727.3	725.6	725.2	719.1	711.0	707.0	705.3
170°	725.2	725.2	725.2	725.2	725.2	725.2	725.2	719.1	711.0	707.0	706.9
172.5°	721.3	721.0	719.5	718.0	719.5	721.0	721.3	716.6	710.2	707.0	707.0
175°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	713.1	709.0	707.0	707.9
177.5°	715.1	714.7	713.0	711.3	713.0	714.7	715.1	712.7	709.6	707.9	708.7
180°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2150.7	2150.7	2150.7	2150.7	2150.7
2.5°	2124.2	2134.4	2140.5	2148.7	2169.0
5°	2042.8	2081.5	2093.7	2124.2	2160.9
7.5°	1863.8	1981.8	2014.3	2087.6	2144.6
10°	1690.8	1808.9	1865.8	2038.8	2124.2
12.5°	1603.4	1672.5	1711.2	1953.3	2095.7
15°	1548.4	1597.2	1625.7	1839.4	2063.2
17.5°	1505.7	1540.3	1560.6	1727.5	2018.4
20°	1479.2	1495.5	1513.8	1646.1	1967.6
22.5°	1460.9	1450.8	1465.0	1589.1	1898.4
25°	1448.7	1410.0	1426.3	1544.3	1817.0
27.5°	1458.9	1373.4	1379.5	1503.7	1731.5
30°	1460.9	1328.6	1330.7	1460.9	1635.9
32.5°	1446.7	1281.9	1283.9	1408.0	1528.1
35°	1412.1	1226.9	1224.9	1347.0	1381.5
37.5°	1365.3	1167.9	1167.9	1279.8	1220.8
40°	1308.3	1108.9	1115.0	1192.3	1078.4
42.5°	1239.2	1045.8	1054.0	1076.4	972.6
45°	1163.9	984.8	990.9	909.5	891.2
47.5°	1080.5	921.7	923.8	754.9	864.8
50°	980.7	856.6	848.5	647.0	862.7
52.5°	893.2	785.4	761.0	586.0	783.4
55°	807.8	710.1	657.2	539.2	726.4
57.5°	732.5	612.5	561.6	484.3	714.2
60°	663.3	516.8	478.2	425.3	655.2
62.5°	606.4	445.6	437.4	384.5	594.1
65°	545.3	396.8	394.7	350.0	504.6
67.5°	486.3	364.2	362.2	317.4	384.5
70°	423.2	329.6	325.6	282.8	284.8
72.5°	358.1	291.0	286.9	254.3	236.0
75°	293.0	246.2	244.2	221.8	191.3
77.5°	229.9	195.3	199.4	179.0	140.4
80°	164.8	142.5	146.5	128.2	105.8
82.5°	109.9	93.6	97.6	81.4	71.2
85°	61.1	52.9	54.9	42.7	32.6
87.5°	28.5	24.4	24.4	16.2	10.2
90°	21.0	13.4	12.5	8.6	4.8
92.5°	129.6	92.2	84.1	51.6	19.1
95°	318.7	179.5	164.6	105.3	45.8
97.5°	429.4	197.2	184.1	131.7	79.2
100°	469.6	212.0	200.1	152.5	105.0
102.5°	488.0	226.8	215.7	171.3	127.0
105°	501.7	248.7	239.3	201.8	164.2
107.5°	504.3	281.2	272.4	237.5	202.4
110°	500.4	299.3	291.4	259.8	228.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	500.6	321.2	313.7	283.6	253.5
115°	505.2	354.2	347.3	319.5	291.7
117.5°	514.7	386.2	379.9	354.7	329.4
120°	522.2	404.8	398.9	375.1	351.4
122.5°	533.2	426.8	420.8	396.9	372.8
125°	548.0	454.9	449.4	427.7	405.8
127.5°	562.9	482.2	476.6	454.6	432.5
130°	573.6	500.3	494.3	470.5	446.8
132.5°	582.4	515.1	509.2	485.4	461.6
135°	592.0	532.3	526.9	505.2	483.6
137.5°	606.3	554.2	548.9	527.4	506.0
140°	615.0	569.0	564.1	544.4	524.7
142.5°	622.4	580.0	575.5	557.2	539.0
145°	631.9	596.8	592.7	576.9	560.9
147.5°	646.0	617.8	613.9	598.4	582.9
150°	653.2	628.7	625.2	611.2	597.2
152.5°	658.0	635.9	633.2	622.6	612.0
155°	668.5	651.7	649.6	641.8	633.9
157.5°	679.0	667.4	665.4	657.8	650.2
160°	683.8	674.5	673.1	667.1	661.2
162.5°	688.9	682.2	681.1	676.6	672.1
165°	696.2	693.2	692.2	688.1	684.1
167.5°	701.9	699.4	698.9	697.0	695.1
170°	706.7	706.6	706.1	704.2	702.2
172.5°	707.0	707.0	706.9	706.5	706.1
175°	709.9	711.3	711.3	711.3	711.3
177.5°	710.2	711.3	711.3	711.3	711.3
180°	711.3	711.3	711.3	711.3	711.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.23	14.13	14.14	15.07	16.27	16.07	16.97	16.98	17.90	19.11
	3H	13.71	14.52	14.64	15.46	16.69	17.42	18.23	18.34	19.17	20.40
	4H	13.90	14.67	14.84	15.62	16.85	17.86	18.63	18.81	19.58	20.82
	6H	14.02	14.73	14.98	15.68	16.93	18.15	18.86	19.11	19.82	21.06
	8H	14.03	14.70	14.99	15.67	16.92	18.23	18.90	19.19	19.88	21.12
	12H	14.00	14.64	14.96	15.60	16.87	18.27	18.91	19.24	19.88	21.15
4H	2H	14.27	15.04	15.22	15.98	17.22	16.48	17.25	17.43	18.20	19.43
	3H	15.30	15.94	16.26	16.92	18.17	17.99	18.63	18.95	19.61	20.86
	4H	15.58	16.16	16.54	17.13	18.41	18.52	19.11	19.49	20.08	21.35
	6H	15.70	16.21	16.68	17.20	18.48	18.89	19.40	19.87	20.39	21.67
	8H	15.71	16.18	16.69	17.17	18.46	19.00	19.47	19.98	20.46	21.75
	12H	15.68	16.10	16.68	17.11	18.40	19.06	19.49	20.06	20.49	21.78
8H	4H	16.04	16.51	17.02	17.49	18.78	18.65	19.12	19.63	20.11	21.40
	6H	16.30	16.69	17.31	17.72	19.00	19.09	19.48	20.10	20.51	21.80
	8H	16.34	16.68	17.36	17.70	19.01	19.25	19.59	20.26	20.61	21.91
	12H	16.33	16.63	17.35	17.64	18.99	19.35	19.65	20.37	20.66	22.01
12H	4H	16.04	16.47	17.04	17.47	18.77	18.62	19.04	19.62	20.05	21.34
	6H	16.36	16.70	17.38	17.72	19.03	19.09	19.43	20.10	20.45	21.75
	8H	16.43	16.73	17.45	17.74	19.09	19.25	19.56	20.27	20.57	21.92