

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: P934888

Luminaire Tested: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934888
REPORT IS A COMBINATION OF REPORTS P933715 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

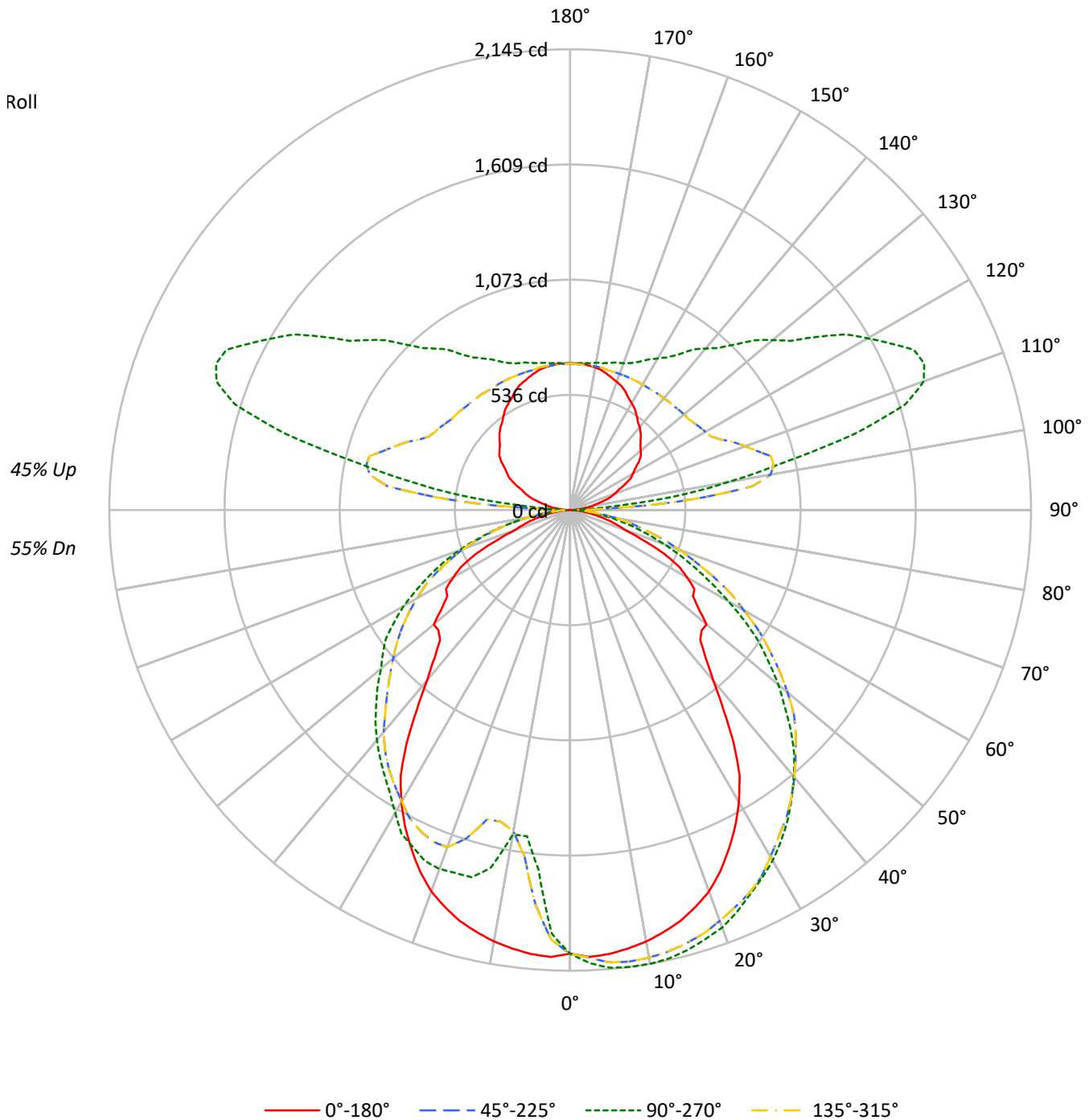
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9786.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.8
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	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°	12776	12776	12776	12776
5°	12867	12897	12867	10141
10°	12776	12704	12776	9082
15°	12633	12429	12633	10379
20°	12364	12103	12364	10400
25°	11818	11627	11818	10180
30°	11115	11232	11115	9696
35°	9904	10732	9904	9164
40°	8248	10145	8248	8762
45°	7364	9457	7364	8300
50°	7817	8636	7817	7837
55°	7349	7752	7349	7568
60°	7566	6583	7566	6932
65°	6849	5442	6849	6083
70°	4730	4337	4730	5099
75°	4134	3205	4134	3840
80°	3307	2120	3307	2308
85°	1866	1123	1866	955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11295 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	1.9
10°-20°	529.3	5.4
20°-30°	818.2	8.4
30°-40°	976.8	10.0
40°-50°	982.5	10.0
50°-60°	854.9	8.7
60°-70°	606.1	6.2
70°-80°	320.7	3.3
80°-90°	82.5	0.8
90°-100°	333.0	3.4
100°-110°	875.5	8.9
110°-120°	907.8	9.3
120°-130°	728.1	7.4
130°-140°	571.3	5.8
140°-150°	438.5	4.5
150°-160°	315.8	3.2
160°-170°	193.2	2.0
170°-180°	65.3	0.7
0°-30°	1534.0	15.7
0°-40°	2510.8	25.7
0°-60°	4348.3	44.4
0°-90°	5357.6	54.7
90°-120°	2116.2	21.6
90°-150°	3854.2	39.4
90°-180°	4428.0	45.2
0°-180°	9786.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2065	2065	2065	2065	2065	
5°	2075	2140	2075	1682	2075	197
15°	1981	2120	1981	1770	1981	557
25°	1745	1977	1745	1731	1745	801
35°	1327	1764	1327	1506	1327	821
45°	856	1454	856	1276	856	686
55°	698	1073	698	1047	698	641
65°	485	647	485	723	485	463
75°	184	307	184	367	184	193
85°	31	78	31	66	31	42
90°	4	18	4	18	4	5
95°	44	201	44	201	44	49
105°	158	1371	158	1371	158	167
115°	280	1765	280	1765	280	277
125°	390	1406	390	1406	390	346
135°	464	1091	464	1091	464	359
145°	539	885	539	885	539	338
155°	609	762	609	762	609	280
165°	657	710	657	710	657	185
175°	683	688	683	688	683	65
180°	683	683	683	683	683	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2082.9	2082.9	2094.7	2098.5	2098.5	2092.7	2086.8	2092.7	2110.2	2116.2	2114.2
5°	2075.0	2090.7	2112.2	2116.2	2120.0	2118.0	2114.2	2118.0	2137.5	2141.5	2143.5
7.5°	2059.5	2088.7	2116.2	2122.0	2127.8	2122.0	2120.0	2123.9	2143.5	2147.4	2147.4
10°	2039.9	2081.0	2112.2	2116.2	2122.0	2116.2	2116.2	2123.9	2143.5	2147.4	2149.3
12.5°	2012.5	2069.2	2098.5	2102.4	2110.2	2108.3	2106.3	2114.2	2133.7	2137.5	2137.5
15°	1981.3	2047.7	2075.0	2079.0	2092.7	2088.7	2088.7	2096.5	2118.0	2123.9	2122.0
17.5°	1938.3	2020.3	2051.7	2057.5	2067.2	2065.3	2067.2	2075.0	2094.7	2098.5	2100.5
20°	1889.5	1983.2	2020.3	2026.2	2036.0	2036.0	2036.0	2045.8	2065.3	2073.2	2073.2
22.5°	1823.0	1944.2	1983.2	1987.2	1998.9	1998.9	2002.8	2016.5	2034.0	2036.0	2036.0
25°	1744.8	1901.2	1934.4	1946.1	1957.8	1963.7	1969.5	1977.4	1983.2	1981.3	1983.2
27.5°	1662.8	1846.5	1889.5	1897.3	1912.9	1918.8	1926.5	1928.5	1930.5	1936.3	1932.5
30°	1571.0	1770.3	1834.7	1842.5	1868.0	1871.8	1864.0	1868.0	1877.7	1881.7	1885.5
32.5°	1467.4	1657.0	1778.1	1795.7	1819.1	1807.3	1805.5	1811.3	1827.0	1827.0	1830.8
35°	1326.8	1569.0	1725.3	1741.0	1758.5	1744.8	1752.7	1754.6	1764.3	1770.3	1768.3
37.5°	1172.4	1492.8	1670.6	1682.3	1696.0	1678.5	1690.1	1696.0	1703.8	1700.0	1700.0
40°	1035.6	1373.6	1606.1	1614.0	1625.7	1612.0	1623.7	1627.6	1631.5	1627.6	1625.7
42.5°	933.9	1242.7	1537.8	1547.5	1539.7	1549.5	1553.3	1561.2	1555.3	1547.5	1547.5
45°	855.8	1207.6	1463.5	1475.3	1463.5	1479.1	1485.0	1485.0	1467.4	1463.5	1461.5
47.5°	830.4	1137.2	1389.3	1389.3	1383.4	1402.9	1412.6	1399.0	1381.4	1375.6	1375.6
50°	828.4	1059.1	1287.6	1279.8	1307.1	1330.6	1320.8	1307.1	1293.5	1272.0	1272.0
52.5°	752.2	963.3	1156.7	1186.1	1229.0	1242.7	1227.1	1213.4	1189.9	1180.1	1172.4
55°	697.6	863.6	1037.6	1096.1	1141.1	1158.6	1129.4	1115.7	1080.6	1074.6	1070.8
57.5°	685.9	719.1	928.1	1002.4	1057.1	1055.1	1037.6	1012.1	982.8	976.9	975.1
60°	629.2	519.7	810.9	898.8	955.4	949.6	933.9	910.6	883.2	879.3	875.4
62.5°	570.5	377.1	678.0	777.7	857.8	855.8	842.1	806.9	787.4	777.7	769.9
65°	484.6	316.5	482.6	646.7	762.1	765.9	736.6	711.2	689.7	678.0	676.1
67.5°	369.3	257.9	326.3	539.2	670.2	666.3	629.2	617.4	590.1	584.2	572.5
70°	273.5	172.0	226.7	437.7	580.4	570.5	541.2	527.6	502.2	488.5	480.7
72.5°	226.7	138.7	166.0	340.0	488.5	476.7	451.4	435.7	414.2	402.5	394.7
75°	183.7	146.5	127.0	252.0	396.7	388.9	365.4	349.7	332.2	316.5	318.5
77.5°	134.8	136.8	101.6	185.7	314.5	302.9	289.2	269.7	261.8	246.2	246.2
80°	101.6	107.5	76.2	127.0	226.7	226.7	214.9	201.2	187.5	179.7	179.7
82.5°	68.4	68.4	56.7	80.1	154.4	148.5	140.7	136.8	129.0	125.0	125.0
85°	31.3	39.0	35.2	48.8	84.0	88.0	88.0	84.0	82.0	78.2	80.1
87.5°	9.8	17.6	21.5	27.3	43.0	45.0	46.9	46.9	46.9	48.8	48.8
90°	4.5	8.2	11.9	12.8	20.1	29.9	34.8	31.0	23.3	17.5	17.5
92.5°	18.3	49.5	80.7	88.4	124.3	172.3	196.2	172.0	123.4	87.1	83.6
95°	44.0	101.1	158.1	172.4	306.1	484.4	573.6	511.8	388.3	295.7	285.2
97.5°	76.1	126.4	176.7	189.3	412.3	709.6	858.3	819.3	741.3	682.7	662.7
100°	100.9	146.5	192.2	203.6	451.0	780.9	945.9	948.7	954.4	958.7	934.9
102.5°	122.0	164.6	207.2	217.8	468.7	803.3	970.6	1020.3	1119.8	1194.3	1173.9
105°	157.8	193.8	229.9	238.9	481.9	805.9	967.9	1079.3	1302.2	1469.4	1458.5
107.5°	194.4	228.1	261.7	270.1	484.3	770.0	912.8	1068.3	1379.3	1612.5	1615.2
110°	219.2	249.6	279.8	287.4	480.6	738.2	867.0	1040.8	1388.5	1649.2	1660.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	243.4	272.3	301.3	308.5	480.8	710.4	825.3	1003.2	1358.9	1625.7	1643.3
115°	280.1	306.8	333.5	340.2	485.2	678.6	775.3	946.7	1289.4	1546.4	1570.7
117.5°	316.3	340.6	364.8	370.9	494.3	658.6	740.9	895.6	1204.9	1436.9	1463.8
120°	337.4	360.3	383.1	388.8	501.6	651.9	727.2	868.5	1151.1	1363.0	1389.3
122.5°	358.1	381.1	404.2	409.9	512.1	648.5	716.6	843.8	1098.3	1289.2	1315.0
125°	389.7	410.7	431.7	436.9	526.3	645.5	705.2	813.3	1029.5	1191.6	1215.3
127.5°	415.4	436.6	457.7	463.0	540.5	643.9	695.5	788.3	974.0	1113.2	1133.3
130°	429.1	452.0	474.8	480.5	551.0	644.9	691.9	774.5	939.8	1063.7	1082.2
132.5°	443.3	466.2	489.0	494.7	559.4	645.5	688.6	762.6	910.6	1021.5	1038.1
135°	464.4	485.2	506.0	511.2	568.5	644.9	683.1	745.0	869.0	961.8	976.1
137.5°	486.0	506.5	527.1	532.2	582.2	648.9	682.2	734.6	839.3	917.9	929.6
140°	503.8	522.8	541.8	546.5	590.7	649.6	679.0	724.2	814.7	882.6	893.5
142.5°	517.6	535.2	552.8	557.1	597.7	651.8	679.0	718.7	798.2	857.8	867.3
145°	538.8	554.0	569.2	573.1	606.9	651.9	674.4	707.0	771.9	820.6	827.7
147.5°	559.8	574.6	589.5	593.3	620.3	656.4	674.4	700.0	751.1	789.5	795.4
150°	573.6	587.0	600.5	603.8	627.4	658.7	674.4	696.0	739.2	771.6	776.5
152.5°	587.8	598.0	608.2	610.7	631.9	660.2	674.4	692.9	729.7	757.4	761.1
155°	608.9	616.3	623.9	625.8	642.0	663.6	674.4	689.1	718.5	740.5	742.9
157.5°	624.4	631.8	639.1	641.0	652.1	667.0	674.4	685.9	708.6	725.8	727.5
160°	635.0	640.7	646.4	647.8	656.7	668.5	674.4	684.2	703.7	718.4	719.4
162.5°	645.5	649.9	654.1	655.2	661.6	670.2	674.4	682.7	699.2	711.6	712.5
165°	657.0	660.9	664.8	665.7	668.6	672.5	674.4	680.3	692.2	701.0	702.0
167.5°	667.5	669.4	671.2	671.7	674.1	677.4	679.0	682.8	690.6	696.4	696.8
170°	674.4	676.3	678.1	678.6	678.7	678.9	679.0	682.8	690.6	696.4	696.4
172.5°	678.1	678.5	678.9	679.0	679.0	679.0	679.0	682.0	688.1	692.8	692.4
175°	683.1	683.1	683.1	683.1	681.7	679.8	679.0	680.9	684.8	687.7	687.7
177.5°	683.1	683.1	683.1	683.1	682.0	680.6	679.9	681.5	684.6	686.8	686.5
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2118.0	2112.2	2118.0	2114.2	2116.2	2110.2	2092.7	2086.8	2092.7	2098.5	2098.5
5°	2143.5	2139.5	2143.5	2143.5	2141.5	2137.5	2118.0	2114.2	2118.0	2120.0	2116.2
7.5°	2151.3	2145.4	2151.3	2147.4	2147.4	2143.5	2123.9	2120.0	2122.0	2127.8	2122.0
10°	2151.3	2145.4	2151.3	2149.3	2147.4	2143.5	2123.9	2116.2	2116.2	2122.0	2116.2
12.5°	2141.5	2137.5	2141.5	2137.5	2137.5	2133.7	2114.2	2106.3	2108.3	2110.2	2102.4
15°	2125.9	2120.0	2125.9	2122.0	2123.9	2118.0	2096.5	2088.7	2088.7	2092.7	2079.0
17.5°	2102.4	2094.7	2102.4	2100.5	2098.5	2094.7	2075.0	2067.2	2065.3	2067.2	2057.5
20°	2075.0	2069.2	2075.0	2073.2	2073.2	2065.3	2045.8	2036.0	2036.0	2036.0	2026.2
22.5°	2032.0	2026.2	2032.0	2036.0	2036.0	2034.0	2016.5	2002.8	1998.9	1998.9	1987.2
25°	1983.2	1977.4	1983.2	1983.2	1981.3	1983.2	1977.4	1969.5	1963.7	1957.8	1946.1
27.5°	1936.3	1932.5	1936.3	1932.5	1936.3	1930.5	1928.5	1926.5	1918.8	1912.9	1897.3
30°	1889.5	1885.5	1889.5	1885.5	1881.7	1877.7	1868.0	1864.0	1871.8	1868.0	1842.5
32.5°	1830.8	1827.0	1830.8	1830.8	1827.0	1827.0	1811.3	1805.5	1807.3	1819.1	1795.7
35°	1770.3	1764.3	1770.3	1768.3	1770.3	1764.3	1754.6	1752.7	1744.8	1758.5	1741.0
37.5°	1700.0	1694.0	1700.0	1700.0	1700.0	1703.8	1696.0	1690.1	1678.5	1696.0	1682.3
40°	1627.6	1619.8	1627.6	1625.7	1627.6	1631.5	1627.6	1623.7	1612.0	1625.7	1614.0
42.5°	1545.6	1543.6	1545.6	1547.5	1547.5	1555.3	1561.2	1553.3	1549.5	1539.7	1547.5
45°	1457.6	1453.8	1457.6	1461.5	1463.5	1467.4	1485.0	1485.0	1479.1	1463.5	1475.3
47.5°	1363.8	1354.1	1363.8	1375.6	1375.6	1381.4	1399.0	1412.6	1402.9	1383.4	1389.3
50°	1264.2	1266.1	1264.2	1272.0	1272.0	1293.5	1307.1	1320.8	1330.6	1307.1	1279.8
52.5°	1166.5	1164.6	1166.5	1172.4	1180.1	1189.9	1213.4	1227.1	1242.7	1229.0	1186.1
55°	1068.8	1072.7	1068.8	1070.8	1074.6	1080.6	1115.7	1129.4	1158.6	1141.1	1096.1
57.5°	971.1	965.2	971.1	975.1	976.9	982.8	1012.1	1037.6	1055.1	1057.1	1002.4
60°	857.8	849.9	857.8	875.4	879.3	883.2	910.6	933.9	949.6	955.4	898.8
62.5°	758.1	744.4	758.1	769.9	777.7	787.4	806.9	842.1	855.8	857.8	777.7
65°	652.6	646.7	652.6	676.1	678.0	689.7	711.2	736.6	765.9	762.1	646.7
67.5°	556.9	556.9	556.9	572.5	584.2	590.1	617.4	629.2	666.3	670.2	539.2
70°	468.9	467.0	468.9	480.7	488.5	502.2	527.6	541.2	570.5	580.4	437.7
72.5°	384.9	383.0	384.9	394.7	402.5	414.2	435.7	451.4	476.7	488.5	340.0
75°	310.7	306.7	310.7	318.5	316.5	332.2	349.7	365.4	388.9	396.7	252.0
77.5°	238.4	238.4	238.4	246.2	246.2	261.8	269.7	289.2	302.9	314.5	185.7
80°	177.8	175.9	177.8	179.7	179.7	187.5	201.2	214.9	226.7	226.7	127.0
82.5°	125.0	121.2	125.0	125.0	125.0	129.0	136.8	140.7	148.5	154.4	80.1
85°	78.2	78.2	78.2	80.1	78.2	82.0	84.0	88.0	88.0	84.0	48.8
87.5°	50.8	48.8	50.8	48.8	48.8	46.9	46.9	46.9	45.0	43.0	27.3
90°	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.8	29.9	20.1	12.8
92.5°	69.7	55.9	69.7	83.6	87.1	123.4	172.0	196.2	172.3	124.3	88.4
95°	243.2	201.2	243.2	285.2	295.7	388.3	511.8	573.6	484.4	306.1	172.4
97.5°	582.8	503.0	582.8	662.7	682.7	741.3	819.3	858.3	709.6	412.3	189.3
100°	839.7	744.5	839.7	934.9	958.7	954.4	948.7	945.9	780.9	451.0	203.6
102.5°	1092.5	1010.9	1092.5	1173.9	1194.3	1119.8	1020.3	970.6	803.3	468.7	217.8
105°	1414.6	1370.8	1414.6	1458.5	1469.4	1302.2	1079.3	967.9	805.9	481.9	238.9
107.5°	1625.7	1636.3	1625.7	1615.2	1612.5	1379.3	1068.3	912.8	770.0	484.3	270.1
110°	1706.2	1751.8	1706.2	1660.6	1649.2	1388.5	1040.8	867.0	738.2	480.6	287.4



TEST NUMBER: P934888

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1713.4	1783.5	1713.4	1643.3	1625.7	1358.9	1003.2	825.3	710.4	480.8	308.5
115°	1667.9	1765.1	1667.9	1570.7	1546.4	1289.4	946.7	775.3	678.6	485.2	340.2
117.5°	1571.6	1679.4	1571.6	1463.8	1436.9	1204.9	895.6	740.9	658.6	494.3	370.9
120°	1494.0	1598.7	1494.0	1389.3	1363.0	1151.1	868.5	727.2	651.9	501.6	388.8
122.5°	1418.4	1521.7	1418.4	1315.0	1289.2	1098.3	843.8	716.6	648.5	512.1	409.9
125°	1310.6	1405.7	1310.6	1215.3	1191.6	1029.5	813.3	705.2	645.5	526.3	436.9
127.5°	1213.6	1293.8	1213.6	1133.3	1113.2	974.0	788.3	695.5	643.9	540.5	463.0
130°	1156.4	1230.5	1156.4	1082.2	1063.7	939.8	774.5	691.9	644.9	551.0	480.5
132.5°	1104.5	1171.0	1104.5	1038.1	1021.5	910.6	762.6	688.6	645.5	559.4	494.7
135°	1033.4	1090.7	1033.4	976.1	961.8	869.0	745.0	683.1	644.9	568.5	511.2
137.5°	976.4	1023.4	976.4	929.6	917.9	839.3	734.6	682.2	648.9	582.2	532.2
140°	937.4	981.2	937.4	893.5	882.6	814.7	724.2	679.0	649.6	590.7	546.5
142.5°	905.0	942.6	905.0	867.3	857.8	798.2	718.7	679.0	651.8	597.7	557.1
145°	856.3	884.8	856.3	827.7	820.6	771.9	707.0	674.4	651.9	606.9	573.1
147.5°	819.0	842.6	819.0	795.4	789.5	751.1	700.0	674.4	656.4	620.3	593.3
150°	795.6	814.7	795.6	776.5	771.6	739.2	696.0	674.4	658.7	627.4	603.8
152.5°	775.5	790.0	775.5	761.1	757.4	729.7	692.9	674.4	660.2	631.9	610.7
155°	752.4	762.0	752.4	742.9	740.5	718.5	689.1	674.4	663.6	642.0	625.8
157.5°	734.2	740.9	734.2	727.5	725.8	708.6	685.9	674.4	667.0	652.1	641.0
160°	723.2	727.2	723.2	719.4	718.4	703.7	684.2	674.4	668.5	656.7	647.8
162.5°	716.1	719.8	716.1	712.5	711.6	699.2	682.7	674.4	670.2	661.6	655.2
165°	705.9	709.7	705.9	702.0	701.0	692.2	680.3	674.4	672.5	668.6	665.7
167.5°	698.5	700.1	698.5	696.8	696.4	690.6	682.8	679.0	677.4	674.1	671.7
170°	696.4	696.4	696.4	696.4	696.4	690.6	682.8	679.0	678.9	678.7	678.6
172.5°	691.0	689.5	691.0	692.4	692.8	688.1	682.0	679.0	679.0	679.0	679.0
175°	687.7	687.7	687.7	687.7	687.7	684.8	680.9	679.0	679.8	681.7	683.1
177.5°	684.8	683.1	684.8	686.5	686.8	684.6	681.5	679.9	680.6	682.0	683.1
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



TEST NUMBER: P934888

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2094.7	2082.9	2082.9	2063.3	2055.5	2049.7	2039.9	2010.6	2002.8	1995.0	2006.7
5°	2112.2	2090.7	2075.0	2039.9	2010.6	1998.9	1961.7	1891.4	1844.5	1809.3	1789.8
7.5°	2116.2	2088.7	2059.5	2004.7	1934.4	1903.1	1789.8	1660.8	1625.7	1594.4	1574.8
10°	2112.2	2081.0	2039.9	1957.8	1791.8	1737.0	1623.7	1539.7	1518.2	1512.3	1518.2
12.5°	2098.5	2069.2	2012.5	1875.8	1643.3	1606.1	1539.7	1490.8	1487.0	1496.7	1549.5
15°	2075.0	2047.7	1981.3	1766.3	1561.2	1533.8	1487.0	1469.3	1490.8	1559.3	1717.5
17.5°	2051.7	2020.3	1938.3	1658.8	1498.6	1479.1	1445.9	1481.1	1602.2	1694.0	1746.8
20°	2020.3	1983.2	1889.5	1580.8	1453.8	1436.1	1420.5	1578.8	1670.6	1703.8	1733.1
22.5°	1983.2	1944.2	1823.0	1526.0	1406.8	1393.1	1402.9	1633.5	1670.6	1694.0	1719.5
25°	1934.4	1901.2	1744.8	1483.0	1369.8	1354.1	1391.2	1627.6	1649.1	1655.0	1705.8
27.5°	1889.5	1846.5	1662.8	1444.0	1324.8	1318.9	1401.0	1602.2	1617.8	1623.7	1678.5
30°	1834.7	1770.3	1571.0	1402.9	1277.9	1275.9	1402.9	1571.0	1567.0	1582.7	1637.4
32.5°	1778.1	1657.0	1467.4	1352.1	1232.9	1231.0	1389.3	1524.1	1520.1	1541.6	1582.7
35°	1725.3	1569.0	1326.8	1293.5	1176.3	1178.2	1356.0	1469.3	1471.3	1490.8	1516.3
37.5°	1670.6	1492.8	1172.4	1229.0	1121.6	1121.6	1311.1	1418.6	1414.6	1420.5	1455.6
40°	1606.1	1373.6	1035.6	1145.0	1070.8	1064.9	1256.4	1363.8	1350.1	1348.3	1397.1
42.5°	1537.8	1242.7	933.9	1033.6	1012.1	1004.3	1189.9	1297.4	1272.0	1277.9	1340.4
45°	1463.5	1207.6	855.8	873.4	951.6	945.7	1117.6	1221.2	1203.6	1219.3	1283.8
47.5°	1389.3	1137.2	830.4	724.9	887.1	885.1	1037.6	1146.9	1137.2	1152.8	1221.2
50°	1287.6	1059.1	828.4	621.4	814.8	822.6	941.8	1074.6	1074.6	1088.3	1160.6
52.5°	1156.7	963.3	752.2	562.7	730.7	754.2	857.8	1012.1	1016.1	1029.7	1094.2
55°	1037.6	863.6	697.6	517.7	631.1	681.9	775.7	947.6	955.4	969.1	1027.8
57.5°	928.1	719.1	685.9	465.0	539.2	588.1	703.4	885.1	889.1	900.8	957.4
60°	810.9	519.7	629.2	408.4	459.2	496.3	637.0	810.9	824.6	832.4	881.2
62.5°	678.0	377.1	570.5	369.3	420.1	427.9	582.2	740.6	758.1	764.0	793.3
65°	482.6	316.5	484.6	336.0	379.0	381.0	523.7	668.2	683.9	693.7	715.1
67.5°	326.3	257.9	369.3	304.8	347.8	349.7	467.0	584.2	605.7	613.5	627.2
70°	226.7	172.0	273.5	271.6	312.7	316.5	406.4	508.0	527.6	533.4	541.2
72.5°	166.0	138.7	226.7	244.2	275.5	279.4	343.9	422.0	441.6	447.4	451.4
75°	127.0	146.5	183.7	213.0	234.5	236.4	281.4	343.9	357.5	361.5	363.4
77.5°	101.6	136.8	134.8	172.0	191.5	187.5	220.8	265.7	277.5	277.5	277.5
80°	76.2	107.5	101.6	123.1	140.7	136.8	158.3	189.5	193.5	197.3	195.4
82.5°	56.7	68.4	68.4	78.2	93.8	89.9	105.5	123.1	123.1	123.1	127.0
85°	35.2	39.0	31.3	41.0	52.8	50.8	58.7	66.5	68.4	68.4	64.5
87.5°	21.5	17.6	9.8	15.7	23.5	23.5	27.3	29.3	27.3	27.3	27.3
90°	11.9	8.2	4.5	8.2	11.9	12.8	20.1	29.9	34.8	31.0	23.3
92.5°	80.7	49.5	18.3	49.5	80.7	88.4	124.3	172.3	196.2	172.0	123.4
95°	158.1	101.1	44.0	101.1	158.1	172.4	306.1	484.4	573.6	511.8	388.3
97.5°	176.7	126.4	76.1	126.4	176.7	189.3	412.3	709.6	858.3	819.3	741.3
100°	192.2	146.5	100.9	146.5	192.2	203.6	451.0	780.9	945.9	948.7	954.4
102.5°	207.2	164.6	122.0	164.6	207.2	217.8	468.7	803.3	970.6	1020.3	1119.8
105°	229.9	193.8	157.8	193.8	229.9	238.9	481.9	805.9	967.9	1079.3	1302.2
107.5°	261.7	228.1	194.4	228.1	261.7	270.1	484.3	770.0	912.8	1068.3	1379.3
110°	279.8	249.6	219.2	249.6	279.8	287.4	480.6	738.2	867.0	1040.8	1388.5



TEST NUMBER: P934888

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	301.3	272.3	243.4	272.3	301.3	308.5	480.8	710.4	825.3	1003.2	1358.9
115°	333.5	306.8	280.1	306.8	333.5	340.2	485.2	678.6	775.3	946.7	1289.4
117.5°	364.8	340.6	316.3	340.6	364.8	370.9	494.3	658.6	740.9	895.6	1204.9
120°	383.1	360.3	337.4	360.3	383.1	388.8	501.6	651.9	727.2	868.5	1151.1
122.5°	404.2	381.1	358.1	381.1	404.2	409.9	512.1	648.5	716.6	843.8	1098.3
125°	431.7	410.7	389.7	410.7	431.7	436.9	526.3	645.5	705.2	813.3	1029.5
127.5°	457.7	436.6	415.4	436.6	457.7	463.0	540.5	643.9	695.5	788.3	974.0
130°	474.8	452.0	429.1	452.0	474.8	480.5	551.0	644.9	691.9	774.5	939.8
132.5°	489.0	466.2	443.3	466.2	489.0	494.7	559.4	645.5	688.6	762.6	910.6
135°	506.0	485.2	464.4	485.2	506.0	511.2	568.5	644.9	683.1	745.0	869.0
137.5°	527.1	506.5	486.0	506.5	527.1	532.2	582.2	648.9	682.2	734.6	839.3
140°	541.8	522.8	503.8	522.8	541.8	546.5	590.7	649.6	679.0	724.2	814.7
142.5°	552.8	535.2	517.6	535.2	552.8	557.1	597.7	651.8	679.0	718.7	798.2
145°	569.2	554.0	538.8	554.0	569.2	573.1	606.9	651.9	674.4	707.0	771.9
147.5°	589.5	574.6	559.8	574.6	589.5	593.3	620.3	656.4	674.4	700.0	751.1
150°	600.5	587.0	573.6	587.0	600.5	603.8	627.4	658.7	674.4	696.0	739.2
152.5°	608.2	598.0	587.8	598.0	608.2	610.7	631.9	660.2	674.4	692.9	729.7
155°	623.9	616.3	608.9	616.3	623.9	625.8	642.0	663.6	674.4	689.1	718.5
157.5°	639.1	631.8	624.4	631.8	639.1	641.0	652.1	667.0	674.4	685.9	708.6
160°	646.4	640.7	635.0	640.7	646.4	647.8	656.7	668.5	674.4	684.2	703.7
162.5°	654.1	649.9	645.5	649.9	654.1	655.2	661.6	670.2	674.4	682.7	699.2
165°	664.8	660.9	657.0	660.9	664.8	665.7	668.6	672.5	674.4	680.3	692.2
167.5°	671.2	669.4	667.5	669.4	671.2	671.7	674.1	677.4	679.0	682.8	690.6
170°	678.1	676.3	674.4	676.3	678.1	678.6	678.7	678.9	679.0	682.8	690.6
172.5°	678.9	678.5	678.1	678.5	678.9	679.0	679.0	679.0	679.0	682.0	688.1
175°	683.1	683.1	683.1	683.1	683.1	683.1	681.7	679.8	679.0	680.9	684.8
177.5°	683.1	683.1	683.1	683.1	683.1	683.1	682.0	680.6	679.9	681.5	684.6
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



TEST NUMBER: P934888

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	1993.0	1987.2	1995.0	1973.5	1995.0	1987.2	1993.0	2006.7	1995.0	2002.8	2010.6
5°	1748.8	1739.0	1707.8	1682.3	1707.8	1739.0	1748.8	1789.8	1809.3	1844.5	1891.4
7.5°	1563.1	1555.3	1547.5	1531.8	1547.5	1555.3	1563.1	1574.8	1594.4	1625.7	1660.8
10°	1522.1	1524.1	1535.8	1533.8	1535.8	1524.1	1522.1	1518.2	1512.3	1518.2	1539.7
12.5°	1627.6	1645.2	1709.7	1705.8	1709.7	1645.2	1627.6	1549.5	1496.7	1487.0	1490.8
15°	1748.8	1754.6	1768.3	1770.3	1768.3	1754.6	1748.8	1717.5	1559.3	1490.8	1469.3
17.5°	1760.5	1762.5	1772.2	1772.2	1772.2	1762.5	1760.5	1746.8	1694.0	1602.2	1481.1
20°	1750.7	1754.6	1774.2	1778.1	1774.2	1754.6	1750.7	1733.1	1703.8	1670.6	1578.8
22.5°	1746.8	1754.6	1770.3	1768.3	1770.3	1754.6	1746.8	1719.5	1694.0	1670.6	1633.5
25°	1727.3	1727.3	1729.2	1731.2	1729.2	1727.3	1727.3	1705.8	1655.0	1649.1	1627.6
27.5°	1686.3	1690.1	1701.8	1700.0	1701.8	1690.1	1686.3	1678.5	1623.7	1617.8	1602.2
30°	1649.1	1645.2	1635.5	1627.6	1635.5	1645.2	1649.1	1637.4	1582.7	1567.0	1571.0
32.5°	1586.6	1576.8	1567.0	1561.2	1567.0	1576.8	1586.6	1582.7	1541.6	1520.1	1524.1
35°	1512.3	1514.3	1512.3	1506.5	1512.3	1514.3	1512.3	1516.3	1490.8	1471.3	1469.3
37.5°	1459.6	1463.5	1461.5	1453.8	1461.5	1463.5	1459.6	1455.6	1420.5	1414.6	1418.6
40°	1404.9	1406.8	1404.9	1399.0	1404.9	1406.8	1404.9	1397.1	1348.3	1350.1	1363.8
42.5°	1352.1	1350.1	1344.3	1340.4	1344.3	1350.1	1352.1	1340.4	1277.9	1272.0	1297.4
45°	1291.6	1293.5	1281.8	1275.9	1281.8	1293.5	1291.6	1283.8	1219.3	1203.6	1221.2
47.5°	1231.0	1231.0	1221.2	1215.3	1221.2	1231.0	1231.0	1221.2	1152.8	1137.2	1146.9
50°	1166.5	1164.6	1150.9	1148.9	1150.9	1164.6	1166.5	1160.6	1088.3	1074.6	1074.6
52.5°	1092.3	1092.3	1094.2	1098.1	1094.2	1092.3	1092.3	1094.2	1029.7	1016.1	1012.1
55°	1027.8	1029.7	1043.4	1047.3	1043.4	1029.7	1027.8	1027.8	969.1	955.4	947.6
57.5°	961.4	961.4	971.1	971.1	971.1	961.4	961.4	957.4	900.8	889.1	885.1
60°	885.1	889.1	896.9	894.9	896.9	889.1	885.1	881.2	832.4	824.6	810.9
62.5°	805.0	808.9	810.9	806.9	810.9	808.9	805.0	793.3	764.0	758.1	740.6
65°	721.0	724.9	726.9	722.9	726.9	724.9	721.0	715.1	693.7	683.9	668.2
67.5°	635.0	633.1	631.1	638.9	631.1	633.1	635.0	627.2	613.5	605.7	584.2
70°	547.1	547.1	545.2	549.0	545.2	547.1	547.1	541.2	533.4	527.6	508.0
72.5°	453.3	451.4	459.2	453.3	459.2	451.4	453.3	451.4	447.4	441.6	422.0
75°	361.5	365.4	361.5	367.4	361.5	365.4	361.5	363.4	361.5	357.5	343.9
77.5°	275.5	279.4	275.5	275.5	275.5	279.4	275.5	277.5	277.5	277.5	265.7
80°	195.4	193.5	193.5	191.5	193.5	193.5	195.4	195.4	197.3	193.5	189.5
82.5°	125.0	123.1	123.1	127.0	123.1	123.1	125.0	127.0	123.1	123.1	123.1
85°	68.4	70.3	66.5	66.5	66.5	70.3	68.4	64.5	68.4	68.4	66.5
87.5°	25.4	23.5	23.5	23.5	23.5	23.5	25.4	27.3	27.3	27.3	29.3
90°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	23.3	31.0	34.8	29.9
92.5°	87.1	83.6	69.7	55.9	69.7	83.6	87.1	123.4	172.0	196.2	172.3
95°	295.7	285.2	243.2	201.2	243.2	285.2	295.7	388.3	511.8	573.6	484.4
97.5°	682.7	662.7	582.8	503.0	582.8	662.7	682.7	741.3	819.3	858.3	709.6
100°	958.7	934.9	839.7	744.5	839.7	934.9	958.7	954.4	948.7	945.9	780.9
102.5°	1194.3	1173.9	1092.5	1010.9	1092.5	1173.9	1194.3	1119.8	1020.3	970.6	803.3
105°	1469.4	1458.5	1414.6	1370.8	1414.6	1458.5	1469.4	1302.2	1079.3	967.9	805.9
107.5°	1612.5	1615.2	1625.7	1636.3	1625.7	1615.2	1612.5	1379.3	1068.3	912.8	770.0
110°	1649.2	1660.6	1706.2	1751.8	1706.2	1660.6	1649.2	1388.5	1040.8	867.0	738.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1625.7	1643.3	1713.4	1783.5	1713.4	1643.3	1625.7	1358.9	1003.2	825.3	710.4
115°	1546.4	1570.7	1667.9	1765.1	1667.9	1570.7	1546.4	1289.4	946.7	775.3	678.6
117.5°	1436.9	1463.8	1571.6	1679.4	1571.6	1463.8	1436.9	1204.9	895.6	740.9	658.6
120°	1363.0	1389.3	1494.0	1598.7	1494.0	1389.3	1363.0	1151.1	868.5	727.2	651.9
122.5°	1289.2	1315.0	1418.4	1521.7	1418.4	1315.0	1289.2	1098.3	843.8	716.6	648.5
125°	1191.6	1215.3	1310.6	1405.7	1310.6	1215.3	1191.6	1029.5	813.3	705.2	645.5
127.5°	1113.2	1133.3	1213.6	1293.8	1213.6	1133.3	1113.2	974.0	788.3	695.5	643.9
130°	1063.7	1082.2	1156.4	1230.5	1156.4	1082.2	1063.7	939.8	774.5	691.9	644.9
132.5°	1021.5	1038.1	1104.5	1171.0	1104.5	1038.1	1021.5	910.6	762.6	688.6	645.5
135°	961.8	976.1	1033.4	1090.7	1033.4	976.1	961.8	869.0	745.0	683.1	644.9
137.5°	917.9	929.6	976.4	1023.4	976.4	929.6	917.9	839.3	734.6	682.2	648.9
140°	882.6	893.5	937.4	981.2	937.4	893.5	882.6	814.7	724.2	679.0	649.6
142.5°	857.8	867.3	905.0	942.6	905.0	867.3	857.8	798.2	718.7	679.0	651.8
145°	820.6	827.7	856.3	884.8	856.3	827.7	820.6	771.9	707.0	674.4	651.9
147.5°	789.5	795.4	819.0	842.6	819.0	795.4	789.5	751.1	700.0	674.4	656.4
150°	771.6	776.5	795.6	814.7	795.6	776.5	771.6	739.2	696.0	674.4	658.7
152.5°	757.4	761.1	775.5	790.0	775.5	761.1	757.4	729.7	692.9	674.4	660.2
155°	740.5	742.9	752.4	762.0	752.4	742.9	740.5	718.5	689.1	674.4	663.6
157.5°	725.8	727.5	734.2	740.9	734.2	727.5	725.8	708.6	685.9	674.4	667.0
160°	718.4	719.4	723.2	727.2	723.2	719.4	718.4	703.7	684.2	674.4	668.5
162.5°	711.6	712.5	716.1	719.8	716.1	712.5	711.6	699.2	682.7	674.4	670.2
165°	701.0	702.0	705.9	709.7	705.9	702.0	701.0	692.2	680.3	674.4	672.5
167.5°	696.4	696.8	698.5	700.1	698.5	696.8	696.4	690.6	682.8	679.0	677.4
170°	696.4	696.4	696.4	696.4	696.4	696.4	696.4	690.6	682.8	679.0	678.9
172.5°	692.8	692.4	691.0	689.5	691.0	692.4	692.8	688.1	682.0	679.0	679.0
175°	687.7	687.7	687.7	687.7	687.7	687.7	687.7	684.8	680.9	679.0	679.8
177.5°	686.8	686.5	684.8	683.1	684.8	686.5	686.8	684.6	681.5	679.9	680.6
180°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2039.9	2049.7	2055.5	2063.3	2082.9
5°	1961.7	1998.9	2010.6	2039.9	2075.0
7.5°	1789.8	1903.1	1934.4	2004.7	2059.5
10°	1623.7	1737.0	1791.8	1957.8	2039.9
12.5°	1539.7	1606.1	1643.3	1875.8	2012.5
15°	1487.0	1533.8	1561.2	1766.3	1981.3
17.5°	1445.9	1479.1	1498.6	1658.8	1938.3
20°	1420.5	1436.1	1453.8	1580.8	1889.5
22.5°	1402.9	1393.1	1406.8	1526.0	1823.0
25°	1391.2	1354.1	1369.8	1483.0	1744.8
27.5°	1401.0	1318.9	1324.8	1444.0	1662.8
30°	1402.9	1275.9	1277.9	1402.9	1571.0
32.5°	1389.3	1231.0	1232.9	1352.1	1467.4
35°	1356.0	1178.2	1176.3	1293.5	1326.8
37.5°	1311.1	1121.6	1121.6	1229.0	1172.4
40°	1256.4	1064.9	1070.8	1145.0	1035.6
42.5°	1189.9	1004.3	1012.1	1033.6	933.9
45°	1117.6	945.7	951.6	873.4	855.8
47.5°	1037.6	885.1	887.1	724.9	830.4
50°	941.8	822.6	814.8	621.4	828.4
52.5°	857.8	754.2	730.7	562.7	752.2
55°	775.7	681.9	631.1	517.7	697.6
57.5°	703.4	588.1	539.2	465.0	685.9
60°	637.0	496.3	459.2	408.4	629.2
62.5°	582.2	427.9	420.1	369.3	570.5
65°	523.7	381.0	379.0	336.0	484.6
67.5°	467.0	349.7	347.8	304.8	369.3
70°	406.4	316.5	312.7	271.6	273.5
72.5°	343.9	279.4	275.5	244.2	226.7
75°	281.4	236.4	234.5	213.0	183.7
77.5°	220.8	187.5	191.5	172.0	134.8
80°	158.3	136.8	140.7	123.1	101.6
82.5°	105.5	89.9	93.8	78.2	68.4
85°	58.7	50.8	52.8	41.0	31.3
87.5°	27.3	23.5	23.5	15.7	9.8
90°	20.1	12.8	11.9	8.2	4.5
92.5°	124.3	88.4	80.7	49.5	18.3
95°	306.1	172.4	158.1	101.1	44.0
97.5°	412.3	189.3	176.7	126.4	76.1
100°	451.0	203.6	192.2	146.5	100.9
102.5°	468.7	217.8	207.2	164.6	122.0
105°	481.9	238.9	229.9	193.8	157.8
107.5°	484.3	270.1	261.7	228.1	194.4
110°	480.6	287.4	279.8	249.6	219.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	480.8	308.5	301.3	272.3	243.4
115°	485.2	340.2	333.5	306.8	280.1
117.5°	494.3	370.9	364.8	340.6	316.3
120°	501.6	388.8	383.1	360.3	337.4
122.5°	512.1	409.9	404.2	381.1	358.1
125°	526.3	436.9	431.7	410.7	389.7
127.5°	540.5	463.0	457.7	436.6	415.4
130°	551.0	480.5	474.8	452.0	429.1
132.5°	559.4	494.7	489.0	466.2	443.3
135°	568.5	511.2	506.0	485.2	464.4
137.5°	582.2	532.2	527.1	506.5	486.0
140°	590.7	546.5	541.8	522.8	503.8
142.5°	597.7	557.1	552.8	535.2	517.6
145°	606.9	573.1	569.2	554.0	538.8
147.5°	620.3	593.3	589.5	574.6	559.8
150°	627.4	603.8	600.5	587.0	573.6
152.5°	631.9	610.7	608.2	598.0	587.8
155°	642.0	625.8	623.9	616.3	608.9
157.5°	652.1	641.0	639.1	631.8	624.4
160°	656.7	647.8	646.4	640.7	635.0
162.5°	661.6	655.2	654.1	649.9	645.5
165°	668.6	665.7	664.8	660.9	657.0
167.5°	674.1	671.7	671.2	669.4	667.5
170°	678.7	678.6	678.1	676.3	674.4
172.5°	679.0	679.0	678.9	678.5	678.1
175°	681.7	683.1	683.1	683.1	683.1
177.5°	682.0	683.1	683.1	683.1	683.1
180°	683.1	683.1	683.1	683.1	683.1



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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	14.08	14.99	15.00	15.92	17.12	16.91	17.81	17.82	18.75	19.95
	3H	14.56	15.37	15.49	16.32	17.54	18.25	19.07	19.18	20.01	21.23
	4H	14.76	15.52	15.70	16.47	17.71	18.70	19.47	19.64	20.41	21.65
	6H	14.88	15.58	15.83	16.54	17.79	18.98	19.69	19.94	20.65	21.89
	8H	14.88	15.55	15.84	16.52	17.77	19.06	19.73	20.02	20.70	21.95
	12H	14.85	15.49	15.82	16.46	17.73	19.10	19.74	20.06	20.70	21.98
4H	2H	15.12	15.89	16.07	16.83	18.07	17.32	18.09	18.27	19.04	20.27
	3H	16.15	16.79	17.11	17.77	19.02	18.83	19.47	19.79	20.45	21.70
	4H	16.43	17.01	17.39	17.98	19.26	19.36	19.94	20.33	20.91	22.19
	6H	16.56	17.06	17.54	18.05	19.33	19.72	20.23	20.70	21.22	22.50
	8H	16.56	17.03	17.54	18.02	19.31	19.83	20.30	20.81	21.29	22.58
	12H	16.53	16.96	17.53	17.96	19.25	19.89	20.31	20.89	21.32	22.61
8H	4H	16.88	17.35	17.87	18.34	19.63	19.49	19.96	20.47	20.95	22.23
	6H	17.15	17.54	18.15	18.57	19.85	19.92	20.31	20.93	21.34	22.63
	8H	17.19	17.53	18.21	18.55	19.86	20.07	20.42	21.09	21.44	22.74
	12H	17.18	17.48	18.20	18.49	19.84	20.17	20.48	21.19	21.49	22.84
12H	4H	16.89	17.32	17.89	18.32	19.61	19.45	19.88	20.45	20.88	22.18
	6H	17.21	17.55	18.22	18.57	19.87	19.92	20.26	20.94	21.28	22.59
	8H	17.28	17.58	18.30	18.59	19.94	20.08	20.38	21.10	21.40	22.75