

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: P933879

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

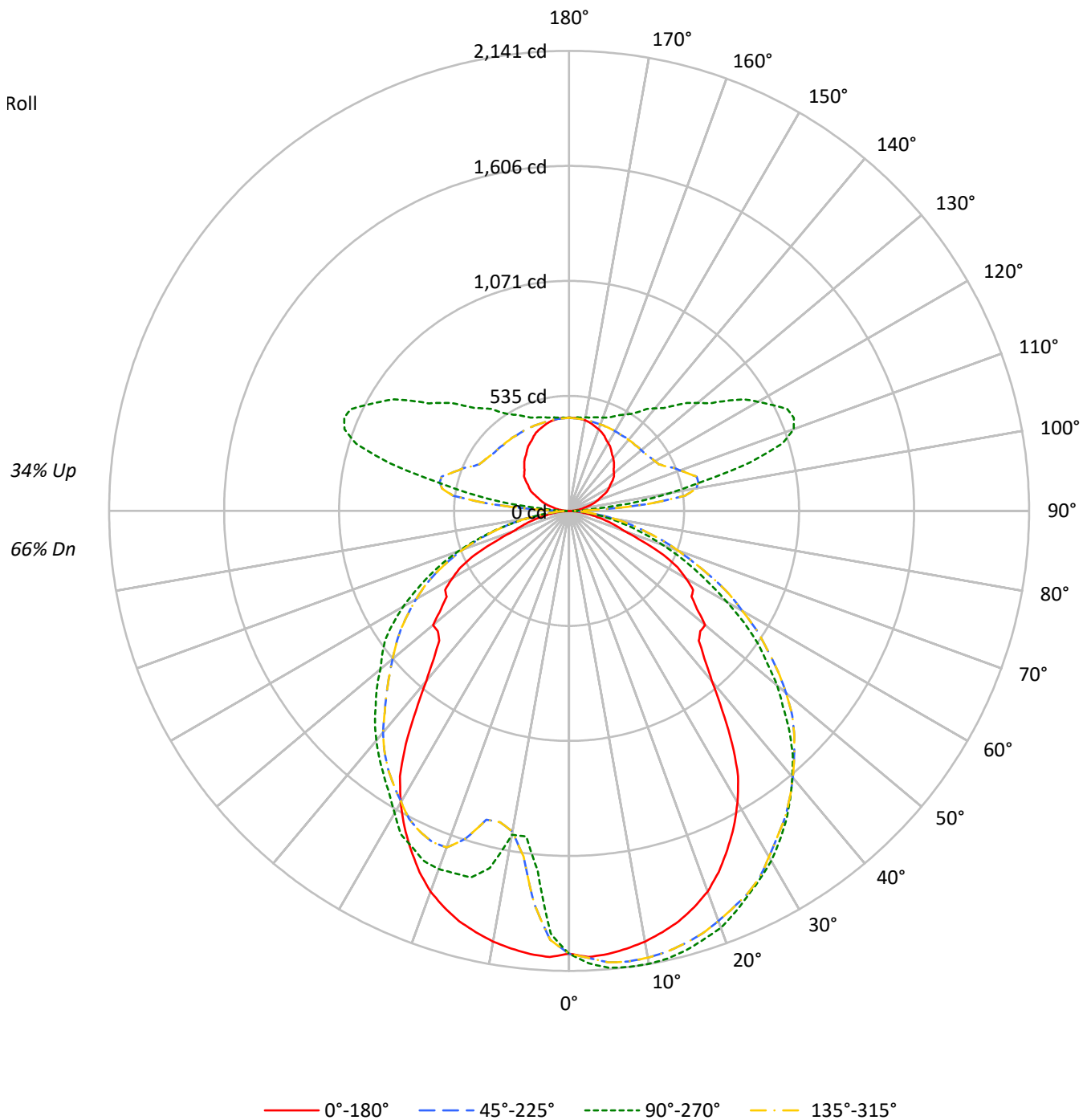
Test Method: LM-79-2019  
Report Number: P933879  
REPORT IS A COMBINATION OF REPORTS P933673 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8157.1 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 66  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6424	6434	6424	5059
10°	6383	6338	6383	4531
15°	6316	6201	6316	5178
20°	6187	6038	6187	5188
25°	5919	5801	5919	5078
30°	5572	5604	5572	4837
35°	4970	5355	4970	4572
40°	4143	5061	4143	4371
45°	3704	4718	3704	4141
50°	3939	4308	3939	3909
55°	3709	3868	3709	3776
60°	3828	3285	3828	3458
65°	3477	2716	3477	3035
70°	2414	2164	2414	2544
75°	2123	1600	2123	1915
80°	1725	1058	1725	1152
85°	1011	560	1011	476

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5674 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.0	2.3
10°-20°	528.1	6.5
20°-30°	816.4	10.0
30°-40°	974.6	11.9
40°-50°	980.4	12.0
50°-60°	853.0	10.5
60°-70°	604.8	7.4
70°-80°	320.0	3.9
80°-90°	81.3	1.0
90°-100°	211.5	2.6
100°-110°	556.0	6.8
110°-120°	576.5	7.1
120°-130°	462.4	5.7
130°-140°	362.8	4.4
140°-150°	278.5	3.4
150°-160°	200.6	2.5
160°-170°	122.7	1.5
170°-180°	41.5	0.5
0°-30°	1530.6	18.8
0°-40°	2505.2	30.7
0°-60°	4338.6	53.2
0°-90°	5344.7	65.5
90°-120°	1343.9	16.5
90°-150°	2447.6	30.0
90°-180°	2812.0	34.5
0°-180°	8157.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2061	2061	2061	2061	2061	
5°	2070	2135	2070	1679	2070	196
15°	1977	2115	1977	1766	1977	556
25°	1741	1973	1741	1727	1741	799
35°	1324	1760	1324	1503	1324	819
45°	854	1450	854	1273	854	684
55°	696	1070	696	1045	696	640
65°	484	645	484	721	484	462
75°	183	306	183	366	183	193
85°	31	78	31	66	31	42
90°	3	11	3	11	3	4
95°	28	128	28	128	28	31
105°	100	870	100	870	100	106
115°	178	1121	178	1121	178	176
125°	248	893	248	893	248	220
135°	295	693	295	693	295	228
145°	342	562	342	562	342	214
155°	387	484	387	484	387	178
165°	417	451	417	451	417	118
175°	434	437	434	437	434	41
180°	434	434	434	434	434	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2078.2	2078.2	2089.9	2093.8	2093.8	2088.0	2082.2	2088.0	2105.5	2111.4	2109.4
5°	2070.5	2086.1	2107.5	2111.4	2115.3	2113.4	2109.4	2113.4	2132.9	2136.7	2138.7
7.5°	2054.9	2084.1	2111.4	2117.3	2123.1	2117.3	2115.3	2119.2	2138.7	2142.6	2142.6
10°	2035.4	2076.3	2107.5	2111.4	2117.3	2111.4	2111.4	2119.2	2138.7	2142.6	2144.6
12.5°	2008.1	2064.6	2093.8	2097.8	2105.5	2103.6	2101.7	2109.4	2129.0	2132.9	2132.9
15°	1976.9	2043.1	2070.5	2074.3	2088.0	2084.1	2084.1	2091.9	2113.4	2119.2	2117.3
17.5°	1934.0	2015.9	2047.1	2052.9	2062.7	2060.7	2062.7	2070.5	2089.9	2093.8	2095.9
20°	1885.3	1978.8	2015.9	2021.7	2031.5	2031.5	2031.5	2041.2	2060.7	2068.5	2068.5
22.5°	1819.0	1939.8	1978.8	1982.8	1994.4	1994.4	1998.4	2011.9	2029.5	2031.5	2031.5
25°	1741.0	1896.9	1930.1	1941.8	1953.5	1959.3	1965.2	1973.0	1978.8	1976.9	1978.8
27.5°	1659.1	1842.4	1885.3	1893.0	1908.6	1914.5	1922.3	1924.2	1926.2	1932.0	1928.1
30°	1567.5	1766.3	1830.6	1838.5	1863.8	1867.7	1859.9	1863.8	1873.6	1877.4	1881.3
32.5°	1464.2	1653.2	1774.1	1791.7	1815.0	1803.4	1801.4	1807.3	1822.9	1822.9	1826.8
35°	1323.8	1565.5	1721.5	1737.1	1754.7	1741.0	1748.8	1750.7	1760.5	1766.3	1764.4
37.5°	1169.8	1489.4	1666.9	1678.6	1692.3	1674.7	1686.4	1692.3	1700.0	1696.1	1696.1
40°	1033.2	1370.6	1602.5	1610.4	1622.0	1608.4	1620.1	1624.0	1627.9	1624.0	1622.0
42.5°	931.9	1239.9	1534.3	1544.1	1536.3	1546.0	1549.9	1557.8	1551.9	1544.1	1544.1
45°	853.9	1204.9	1460.3	1471.9	1460.3	1475.9	1481.7	1481.7	1464.2	1460.3	1458.2
47.5°	828.6	1134.7	1386.2	1386.2	1380.3	1399.8	1409.5	1395.9	1378.4	1372.5	1372.5
50°	826.7	1056.7	1284.8	1276.9	1304.3	1327.6	1317.9	1304.3	1290.6	1269.2	1269.2
52.5°	750.6	961.2	1154.2	1183.4	1226.3	1239.9	1224.3	1210.7	1187.3	1177.5	1169.8
55°	696.0	861.7	1035.2	1093.7	1138.6	1156.1	1126.9	1113.2	1078.1	1072.3	1068.4
57.5°	684.3	717.4	926.1	1000.1	1054.8	1052.8	1035.2	1009.9	980.6	974.8	972.9
60°	627.8	518.6	809.1	896.8	953.3	947.5	931.9	908.5	881.2	877.3	873.5
62.5°	569.3	376.3	676.5	776.0	855.8	853.9	840.3	805.1	785.7	776.0	768.1
65°	483.5	315.8	481.6	645.4	760.4	764.3	735.0	709.7	688.2	676.5	674.5
67.5°	368.5	257.4	325.6	538.1	668.7	664.8	627.8	616.1	588.8	583.0	571.2
70°	273.0	171.6	226.2	436.7	579.1	569.3	540.0	526.4	501.1	487.4	479.6
72.5°	226.2	138.4	165.7	339.2	487.4	475.7	450.4	434.8	413.3	401.7	393.8
75°	183.2	146.2	126.7	251.5	395.7	388.0	364.5	348.9	331.4	315.8	317.7
77.5°	134.5	136.4	101.4	185.2	313.9	302.2	288.6	269.1	261.2	245.6	245.6
80°	101.4	107.3	76.1	126.7	226.2	226.2	214.4	200.8	187.1	179.4	179.4
82.5°	68.2	68.2	56.5	79.9	154.0	148.2	140.4	136.4	128.7	124.8	124.8
85°	31.2	39.0	35.1	48.7	83.8	87.7	87.7	83.8	81.9	78.0	79.9
87.5°	9.8	17.5	21.4	27.3	42.9	44.9	46.8	46.8	46.8	48.7	48.7
90°	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7	11.0	11.0
92.5°	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4	55.3	53.1
95°	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6	187.8	181.1
97.5°	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7	433.5	420.8
100°	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1	608.8	593.7
102.5°	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1	758.4	745.5
105°	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9	933.1	926.2
107.5°	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9	1024.0	1025.7
110°	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7	1047.3	1054.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0	1032.5	1043.6
115°	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8	982.1	997.5
117.5°	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2	912.5	929.7
120°	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0	865.6	882.3
122.5°	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5	818.7	835.1
125°	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7	756.7	771.8
127.5°	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5	706.9	719.7
130°	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8	675.5	687.3
132.5°	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3	648.7	659.3
135°	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8	610.9	620.0
137.5°	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9	582.9	590.3
140°	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3	560.5	567.4
142.5°	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9	544.8	550.8
145°	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2	521.1	525.7
147.5°	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0	501.4	505.1
150°	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5	490.0	493.0
152.5°	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5	481.0	483.3
155°	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3	470.3	471.8
157.5°	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0	460.9	461.9
160°	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9	456.2	456.8
162.5°	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0	451.8	452.4
165°	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5	445.2	445.7
167.5°	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6	442.3	442.5
170°	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6	442.3	442.3
172.5°	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0	439.9	439.7
175°	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9	436.7	436.7
177.5°	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7	436.1	435.9
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2113.4	2107.5	2113.4	2109.4	2111.4	2105.5	2088.0	2082.2	2088.0	2093.8	2093.8
5°	2138.7	2134.8	2138.7	2138.7	2136.7	2132.9	2113.4	2109.4	2113.4	2115.3	2111.4
7.5°	2146.5	2140.6	2146.5	2142.6	2142.6	2138.7	2119.2	2115.3	2117.3	2123.1	2117.3
10°	2146.5	2140.6	2146.5	2144.6	2142.6	2138.7	2119.2	2111.4	2111.4	2117.3	2111.4
12.5°	2136.7	2132.9	2136.7	2132.9	2132.9	2129.0	2109.4	2101.7	2103.6	2105.5	2097.8
15°	2121.1	2115.3	2121.1	2117.3	2119.2	2113.4	2091.9	2084.1	2084.1	2088.0	2074.3
17.5°	2097.8	2089.9	2097.8	2095.9	2093.8	2089.9	2070.5	2062.7	2060.7	2062.7	2052.9
20°	2070.5	2064.6	2070.5	2068.5	2068.5	2060.7	2041.2	2031.5	2031.5	2031.5	2021.7
22.5°	2027.5	2021.7	2027.5	2031.5	2031.5	2029.5	2011.9	1998.4	1994.4	1994.4	1982.8
25°	1978.8	1973.0	1978.8	1978.8	1976.9	1978.8	1973.0	1965.2	1959.3	1953.5	1941.8
27.5°	1932.0	1928.1	1932.0	1928.1	1932.0	1926.2	1924.2	1922.3	1914.5	1908.6	1893.0
30°	1885.3	1881.3	1885.3	1881.3	1877.4	1873.6	1863.8	1859.9	1867.7	1863.8	1838.5
32.5°	1826.8	1822.9	1826.8	1826.8	1822.9	1822.9	1807.3	1801.4	1803.4	1815.0	1791.7
35°	1766.3	1760.5	1766.3	1764.4	1766.3	1760.5	1750.7	1748.8	1741.0	1754.7	1737.1
37.5°	1696.1	1690.3	1696.1	1696.1	1696.1	1700.0	1692.3	1686.4	1674.7	1692.3	1678.6
40°	1624.0	1616.2	1624.0	1622.0	1624.0	1627.9	1624.0	1620.1	1608.4	1622.0	1610.4
42.5°	1542.2	1540.1	1542.2	1544.1	1544.1	1551.9	1557.8	1549.9	1546.0	1536.3	1544.1
45°	1454.4	1450.5	1454.4	1458.2	1460.3	1464.2	1481.7	1481.7	1475.9	1460.3	1471.9
47.5°	1360.8	1351.1	1360.8	1372.5	1372.5	1378.4	1395.9	1409.5	1399.8	1380.3	1386.2
50°	1261.3	1263.3	1261.3	1269.2	1269.2	1290.6	1304.3	1317.9	1327.6	1304.3	1276.9
52.5°	1163.9	1161.9	1163.9	1169.8	1177.5	1187.3	1210.7	1224.3	1239.9	1226.3	1183.4
55°	1066.4	1070.4	1066.4	1068.4	1072.3	1078.1	1113.2	1126.9	1156.1	1138.6	1093.7
57.5°	968.9	963.1	968.9	972.9	974.8	980.6	1009.9	1035.2	1052.8	1054.8	1000.1
60°	855.8	848.1	855.8	873.5	877.3	881.2	908.5	931.9	947.5	953.3	896.8
62.5°	756.4	742.8	756.4	768.1	776.0	785.7	805.1	840.3	853.9	855.8	776.0
65°	651.2	645.4	651.2	674.5	676.5	688.2	709.7	735.0	764.3	760.4	645.4
67.5°	555.6	555.6	555.6	571.2	583.0	588.8	616.1	627.8	664.8	668.7	538.1
70°	467.9	466.0	467.9	479.6	487.4	501.1	526.4	540.0	569.3	579.1	436.7
72.5°	384.1	382.1	384.1	393.8	401.7	413.3	434.8	450.4	475.7	487.4	339.2
75°	310.0	306.1	310.0	317.7	315.8	331.4	348.9	364.5	388.0	395.7	251.5
77.5°	237.9	237.9	237.9	245.6	245.6	261.2	269.1	288.6	302.2	313.9	185.2
80°	177.4	175.5	177.4	179.4	179.4	187.1	200.8	214.4	226.2	226.2	126.7
82.5°	124.8	120.8	124.8	124.8	124.8	128.7	136.4	140.4	148.2	154.0	79.9
85°	78.0	78.0	78.0	79.9	78.0	81.9	83.8	87.7	87.7	83.8	48.7
87.5°	50.7	48.7	50.7	48.7	48.7	46.8	46.8	46.8	44.9	42.9	27.3
90°	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0	12.8	8.1
92.5°	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4	79.0	56.2
95°	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7	194.4	109.5
97.5°	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7	261.8	120.3
100°	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9	286.4	129.3
102.5°	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2	297.7	138.3
105°	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7	306.0	151.6
107.5°	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0	307.6	171.5
110°	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8	305.2	182.6





TEST NUMBER: P933879

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2	305.3	195.9
115°	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9	308.1	216.1
117.5°	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3	313.9	235.6
120°	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0	318.5	246.9
122.5°	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7	325.2	260.3
125°	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0	334.3	277.5
127.5°	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9	343.3	294.1
130°	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5	349.9	305.1
132.5°	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0	355.2	314.1
135°	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6	361.0	324.6
137.5°	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1	369.8	338.0
140°	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5	375.1	347.1
142.5°	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0	379.6	353.8
145°	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0	385.4	364.0
147.5°	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9	393.9	376.7
150°	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3	398.4	383.4
152.5°	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3	401.3	387.8
155°	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4	407.7	397.4
157.5°	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5	414.2	407.1
160°	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5	417.1	411.4
162.5°	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6	420.2	416.1
165°	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0	424.6	422.8
167.5°	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1	428.1	426.6
170°	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1	431.0	430.9
172.5°	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8	432.9	433.8
177.5°	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3	433.1	433.8
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8



TEST NUMBER: P933879

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2089.9	2078.2	2078.2	2058.7	2051.0	2045.1	2035.4	2006.1	1998.4	1990.5	2002.2
5°	2107.5	2086.1	2070.5	2035.4	2006.1	1994.4	1957.4	1887.2	1840.4	1805.3	1785.9
7.5°	2111.4	2084.1	2054.9	2000.3	1930.1	1898.9	1785.9	1657.2	1622.0	1590.9	1571.3
10°	2107.5	2076.3	2035.4	1953.5	1787.8	1733.2	1620.1	1536.3	1514.8	1509.0	1514.8
12.5°	2093.8	2064.6	2008.1	1871.6	1639.6	1602.5	1536.3	1487.5	1483.6	1493.4	1546.0
15°	2070.5	2043.1	1976.9	1762.4	1557.8	1530.4	1483.6	1466.1	1487.5	1555.7	1713.7
17.5°	2047.1	2015.9	1934.0	1655.2	1495.4	1475.9	1442.6	1477.8	1598.7	1690.3	1742.9
20°	2015.9	1978.8	1885.3	1577.2	1450.5	1433.0	1417.4	1575.3	1666.9	1700.0	1729.3
22.5°	1978.8	1939.8	1819.0	1522.6	1403.7	1390.0	1399.8	1629.9	1666.9	1690.3	1715.6
25°	1930.1	1896.9	1741.0	1479.8	1366.7	1351.1	1388.1	1624.0	1645.5	1651.3	1702.0
27.5°	1885.3	1842.4	1659.1	1440.7	1321.8	1316.0	1397.9	1598.7	1614.3	1620.1	1674.7
30°	1830.6	1766.3	1567.5	1399.8	1275.0	1273.1	1399.8	1567.5	1563.6	1579.2	1633.7
32.5°	1774.1	1653.2	1464.2	1349.1	1230.1	1228.2	1386.2	1520.7	1516.8	1538.2	1579.2
35°	1721.5	1565.5	1323.8	1290.6	1173.7	1175.6	1353.0	1466.1	1468.0	1487.5	1512.9
37.5°	1666.9	1489.4	1169.8	1226.3	1119.1	1119.1	1308.1	1415.4	1411.5	1417.4	1452.4
40°	1602.5	1370.6	1033.2	1142.5	1068.4	1062.5	1253.6	1360.8	1347.2	1345.3	1393.9
42.5°	1534.3	1239.9	931.9	1031.3	1009.9	1002.0	1187.3	1294.5	1269.2	1275.0	1337.4
45°	1460.3	1204.9	853.9	871.4	949.4	943.6	1115.1	1218.5	1201.0	1216.6	1280.9
47.5°	1386.2	1134.7	828.6	723.3	885.1	883.1	1035.2	1144.4	1134.7	1150.3	1218.5
50°	1284.8	1056.7	826.7	620.0	813.0	820.7	939.7	1072.3	1072.3	1086.0	1158.1
52.5°	1154.2	961.2	750.6	561.4	729.2	752.5	855.8	1009.9	1013.8	1027.4	1091.8
55°	1035.2	861.7	696.0	516.7	629.8	680.4	773.9	945.6	953.3	967.0	1025.5
57.5°	926.1	717.4	684.3	464.0	538.1	586.8	701.8	883.1	887.0	898.7	955.3
60°	809.1	518.6	627.8	407.5	458.1	495.2	635.6	809.1	822.7	830.5	879.3
62.5°	676.5	376.3	569.3	368.5	419.2	426.9	581.0	738.9	756.4	762.3	791.6
65°	481.6	315.8	483.5	335.4	378.2	380.1	522.5	666.8	682.4	692.1	713.6
67.5°	325.6	257.4	368.5	304.2	347.0	348.9	466.0	583.0	604.4	612.2	625.8
70°	226.2	171.6	273.0	271.0	311.9	315.8	405.5	506.9	526.4	532.3	540.0
72.5°	165.7	138.4	226.2	243.7	274.9	278.8	343.1	421.1	440.6	446.4	450.4
75°	126.7	146.2	183.2	212.5	233.9	235.9	280.7	343.1	356.8	360.7	362.6
77.5°	101.4	136.4	134.5	171.6	191.1	187.1	220.4	265.1	276.8	276.8	276.8
80°	76.1	107.3	101.4	122.9	140.4	136.4	157.9	189.1	193.0	196.9	195.0
82.5°	56.5	68.2	68.2	78.0	93.6	89.7	105.2	122.9	122.9	122.9	126.7
85°	35.1	39.0	31.2	41.0	52.6	50.7	58.5	66.3	68.2	68.2	64.3
87.5°	21.4	17.5	9.8	15.6	23.4	23.4	27.3	29.3	27.3	27.3	27.3
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.1	19.7	14.7
92.5°	51.3	31.4	11.6	31.4	51.3	56.2	79.0	109.4	124.6	109.2	78.4
95°	100.4	64.1	27.9	64.1	100.4	109.5	194.4	307.7	364.2	325.0	246.6
97.5°	112.3	80.3	48.4	80.3	112.3	120.3	261.8	450.7	545.1	520.3	470.7
100°	122.0	93.0	64.1	93.0	122.0	129.3	286.4	495.9	600.7	602.5	606.1
102.5°	131.5	104.5	77.4	104.5	131.5	138.3	297.7	510.2	616.4	648.0	711.1
105°	145.9	123.1	100.2	123.1	145.9	151.6	306.0	511.7	614.6	685.4	826.9
107.5°	166.2	144.8	123.5	144.8	166.2	171.5	307.6	489.0	579.7	678.4	875.9
110°	177.7	158.4	139.1	158.4	177.7	182.6	305.2	468.8	550.6	661.0	881.7



TEST NUMBER: P933879

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	191.4	173.0	154.7	173.0	191.4	195.9	305.3	451.2	524.1	637.1	863.0
115°	211.8	194.9	177.9	194.9	211.8	216.1	308.1	430.9	492.3	601.2	818.8
117.5°	231.7	216.3	200.9	216.3	231.7	235.6	313.9	418.3	470.5	568.8	765.2
120°	243.3	228.8	214.2	228.8	243.3	246.9	318.5	414.0	461.7	551.5	731.0
122.5°	256.6	242.1	227.4	242.1	256.6	260.3	325.2	411.7	455.0	535.9	697.5
125°	274.2	260.9	247.5	260.9	274.2	277.5	334.3	410.0	447.8	516.4	653.7
127.5°	290.7	277.2	263.8	277.2	290.7	294.1	343.3	408.9	441.7	500.6	618.5
130°	301.6	287.0	272.5	287.0	301.6	305.1	349.9	409.5	439.3	491.9	596.8
132.5°	310.6	296.0	281.6	296.0	310.6	314.1	355.2	410.0	437.3	484.3	578.3
135°	321.3	308.1	295.0	308.1	321.3	324.6	361.0	409.6	433.8	473.2	551.8
137.5°	334.7	321.7	308.6	321.7	334.7	338.0	369.8	412.1	433.2	466.5	532.9
140°	344.1	332.0	320.0	332.0	344.1	347.1	375.1	412.5	431.2	459.9	517.3
142.5°	351.0	339.8	328.7	339.8	351.0	353.8	379.6	414.0	431.2	456.4	506.9
145°	361.5	351.8	342.2	351.8	361.5	364.0	385.4	414.0	428.3	448.9	490.2
147.5°	374.4	364.9	355.5	364.9	374.4	376.7	393.9	416.9	428.3	444.6	477.0
150°	381.3	372.8	364.2	372.8	381.3	383.4	398.4	418.3	428.3	442.1	469.5
152.5°	386.1	379.8	373.3	379.8	386.1	387.8	401.3	419.3	428.3	440.0	463.5
155°	396.2	391.4	386.6	391.4	396.2	397.4	407.7	421.4	428.3	437.6	456.3
157.5°	405.9	401.2	396.5	401.2	405.9	407.1	414.2	423.5	428.3	435.6	450.0
160°	410.6	406.9	403.3	406.9	410.6	411.4	417.1	424.5	428.3	434.5	446.9
162.5°	415.4	412.7	410.0	412.7	415.4	416.1	420.2	425.6	428.3	433.5	444.0
165°	422.2	419.7	417.3	419.7	422.2	422.8	424.6	427.0	428.3	432.1	439.5
167.5°	426.3	425.1	423.9	425.1	426.3	426.6	428.1	430.1	431.2	433.6	438.6
170°	430.6	429.5	428.3	429.5	430.6	430.9	431.0	431.1	431.2	433.6	438.6
172.5°	431.1	430.9	430.6	430.9	431.1	431.2	431.2	431.2	431.2	433.1	437.0
175°	433.8	433.8	433.8	433.8	433.8	433.8	432.9	431.8	431.2	432.5	434.9
177.5°	433.8	433.8	433.8	433.8	433.8	433.8	433.1	432.3	431.8	432.8	434.7
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8



TEST NUMBER: P933879  
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	1988.6	1982.8	1990.5	1969.1	1990.5	1982.8	1988.6	2002.2	1990.5	1998.4	2006.1
5°	1744.9	1735.1	1704.0	1678.6	1704.0	1735.1	1744.9	1785.9	1805.3	1840.4	1887.2
7.5°	1559.7	1551.9	1544.1	1528.5	1544.1	1551.9	1559.7	1571.3	1590.9	1622.0	1657.2
10°	1518.7	1520.7	1532.4	1530.4	1532.4	1520.7	1518.7	1514.8	1509.0	1514.8	1536.3
12.5°	1624.0	1641.6	1705.9	1702.0	1705.9	1641.6	1624.0	1546.0	1493.4	1483.6	1487.5
15°	1744.9	1750.7	1764.4	1766.3	1764.4	1750.7	1744.9	1713.7	1555.7	1487.5	1466.1
17.5°	1756.6	1758.5	1768.2	1768.2	1768.2	1758.5	1756.6	1742.9	1690.3	1598.7	1477.8
20°	1746.8	1750.7	1770.3	1774.1	1770.3	1750.7	1746.8	1729.3	1700.0	1666.9	1575.3
22.5°	1742.9	1750.7	1766.3	1764.4	1766.3	1750.7	1742.9	1715.6	1690.3	1666.9	1629.9
25°	1723.5	1723.5	1725.4	1727.3	1725.4	1723.5	1723.5	1702.0	1651.3	1645.5	1624.0
27.5°	1682.5	1686.4	1698.1	1696.1	1698.1	1686.4	1682.5	1674.7	1620.1	1614.3	1598.7
30°	1645.5	1641.6	1631.8	1624.0	1631.8	1641.6	1645.5	1633.7	1579.2	1563.6	1567.5
32.5°	1583.1	1573.3	1563.6	1557.8	1563.6	1573.3	1583.1	1579.2	1538.2	1516.8	1520.7
35°	1509.0	1511.0	1509.0	1503.1	1509.0	1511.0	1509.0	1512.9	1487.5	1468.0	1466.1
37.5°	1456.3	1460.3	1458.2	1450.5	1458.2	1460.3	1456.3	1452.4	1417.4	1411.5	1415.4
40°	1401.8	1403.7	1401.8	1395.9	1401.8	1403.7	1401.8	1393.9	1345.3	1347.2	1360.8
42.5°	1349.1	1347.2	1341.3	1337.4	1341.3	1347.2	1349.1	1337.4	1275.0	1269.2	1294.5
45°	1288.7	1290.6	1278.9	1273.1	1278.9	1290.6	1288.7	1280.9	1216.6	1201.0	1218.5
47.5°	1228.2	1228.2	1218.5	1212.6	1218.5	1228.2	1228.2	1218.5	1150.3	1134.7	1144.4
50°	1163.9	1161.9	1148.3	1146.3	1148.3	1161.9	1163.9	1158.1	1086.0	1072.3	1072.3
52.5°	1089.8	1089.8	1091.8	1095.6	1091.8	1089.8	1089.8	1091.8	1027.4	1013.8	1009.9
55°	1025.5	1027.4	1041.1	1045.0	1041.1	1027.4	1025.5	1025.5	967.0	953.3	945.6
57.5°	959.2	959.2	968.9	968.9	968.9	959.2	959.2	955.3	898.7	887.0	883.1
60°	883.1	887.0	894.9	892.9	894.9	887.0	883.1	879.3	830.5	822.7	809.1
62.5°	803.2	807.2	809.1	805.1	809.1	807.2	803.2	791.6	762.3	756.4	738.9
65°	719.4	723.3	725.2	721.3	725.2	723.3	719.4	713.6	692.1	682.4	666.8
67.5°	633.6	631.7	629.8	637.5	629.8	631.7	633.6	625.8	612.2	604.4	583.0
70°	545.8	545.8	543.9	547.9	543.9	545.8	545.8	540.0	532.3	526.4	506.9
72.5°	452.3	450.4	458.1	452.3	458.1	450.4	452.3	450.4	446.4	440.6	421.1
75°	360.7	364.5	360.7	366.5	360.7	364.5	360.7	362.6	360.7	356.8	343.1
77.5°	274.9	278.8	274.9	274.9	274.9	278.8	274.9	276.8	276.8	276.8	265.1
80°	195.0	193.0	193.0	191.1	193.0	193.0	195.0	195.0	196.9	193.0	189.1
82.5°	124.8	122.9	122.9	126.7	122.9	122.9	124.8	126.7	122.9	122.9	122.9
85°	68.2	70.2	66.3	66.3	66.3	70.2	68.2	64.3	68.2	68.2	66.3
87.5°	25.4	23.4	23.4	23.4	23.4	23.4	25.4	27.3	27.3	27.3	29.3
90°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.7	22.1	19.0
92.5°	55.3	53.1	44.4	35.6	44.4	53.1	55.3	78.4	109.2	124.6	109.4
95°	187.8	181.1	154.5	127.8	154.5	181.1	187.8	246.6	325.0	364.2	307.7
97.5°	433.5	420.8	370.2	319.4	370.2	420.8	433.5	470.7	520.3	545.1	450.7
100°	608.8	593.7	533.3	472.9	533.3	593.7	608.8	606.1	602.5	600.7	495.9
102.5°	758.4	745.5	693.7	642.0	693.7	745.5	758.4	711.1	648.0	616.4	510.2
105°	933.1	926.2	898.4	870.5	898.4	926.2	933.1	826.9	685.4	614.6	511.7
107.5°	1024.0	1025.7	1032.5	1039.2	1032.5	1025.7	1024.0	875.9	678.4	579.7	489.0
110°	1047.3	1054.6	1083.5	1112.5	1083.5	1054.6	1047.3	881.7	661.0	550.6	468.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1032.5	1043.6	1088.1	1132.6	1088.1	1043.6	1032.5	863.0	637.1	524.1	451.2
115°	982.1	997.5	1059.2	1120.9	1059.2	997.5	982.1	818.8	601.2	492.3	430.9
117.5°	912.5	929.7	998.1	1066.5	998.1	929.7	912.5	765.2	568.8	470.5	418.3
120°	865.6	882.3	948.7	1015.2	948.7	882.3	865.6	731.0	551.5	461.7	414.0
122.5°	818.7	835.1	900.8	966.4	900.8	835.1	818.7	697.5	535.9	455.0	411.7
125°	756.7	771.8	832.2	892.6	832.2	771.8	756.7	653.7	516.4	447.8	410.0
127.5°	706.9	719.7	770.6	821.6	770.6	719.7	706.9	618.5	500.6	441.7	408.9
130°	675.5	687.3	734.4	781.5	734.4	687.3	675.5	596.8	491.9	439.3	409.5
132.5°	648.7	659.3	701.5	743.6	701.5	659.3	648.7	578.3	484.3	437.3	410.0
135°	610.9	620.0	656.3	692.6	656.3	620.0	610.9	551.8	473.2	433.8	409.6
137.5°	582.9	590.3	620.1	649.9	620.1	590.3	582.9	532.9	466.5	433.2	412.1
140°	560.5	567.4	595.3	623.1	595.3	567.4	560.5	517.3	459.9	431.2	412.5
142.5°	544.8	550.8	574.7	598.6	574.7	550.8	544.8	506.9	456.4	431.2	414.0
145°	521.1	525.7	543.8	561.9	543.8	525.7	521.1	490.2	448.9	428.3	414.0
147.5°	501.4	505.1	520.2	535.2	520.2	505.1	501.4	477.0	444.6	428.3	416.9
150°	490.0	493.0	505.2	517.3	505.2	493.0	490.0	469.5	442.1	428.3	418.3
152.5°	481.0	483.3	492.4	501.7	492.4	483.3	481.0	463.5	440.0	428.3	419.3
155°	470.3	471.8	477.8	483.9	477.8	471.8	470.3	456.3	437.6	428.3	421.4
157.5°	460.9	461.9	466.3	470.5	466.3	461.9	460.9	450.0	435.6	428.3	423.5
160°	456.2	456.8	459.3	461.7	459.3	456.8	456.2	446.9	434.5	428.3	424.5
162.5°	451.8	452.4	454.8	457.1	454.8	452.4	451.8	444.0	433.5	428.3	425.6
165°	445.2	445.7	448.3	450.7	448.3	445.7	445.2	439.5	432.1	428.3	427.0
167.5°	442.3	442.5	443.5	444.6	443.5	442.5	442.3	438.6	433.6	431.2	430.1
170°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	438.6	433.6	431.2	431.1
172.5°	439.9	439.7	438.8	437.9	438.8	439.7	439.9	437.0	433.1	431.2	431.2
175°	436.7	436.7	436.7	436.7	436.7	436.7	436.7	434.9	432.5	431.2	431.8
177.5°	436.1	435.9	434.9	433.8	434.9	435.9	436.1	434.7	432.8	431.8	432.3
180°	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8	433.8



TEST NUMBER: P933879

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2060.7	2060.7	2060.7	2060.7	2060.7
2.5°	2035.4	2045.1	2051.0	2058.7	2078.2
5°	1957.4	1994.4	2006.1	2035.4	2070.5
7.5°	1785.9	1898.9	1930.1	2000.3	2054.9
10°	1620.1	1733.2	1787.8	1953.5	2035.4
12.5°	1536.3	1602.5	1639.6	1871.6	2008.1
15°	1483.6	1530.4	1557.8	1762.4	1976.9
17.5°	1442.6	1475.9	1495.4	1655.2	1934.0
20°	1417.4	1433.0	1450.5	1577.2	1885.3
22.5°	1399.8	1390.0	1403.7	1522.6	1819.0
25°	1388.1	1351.1	1366.7	1479.8	1741.0
27.5°	1397.9	1316.0	1321.8	1440.7	1659.1
30°	1399.8	1273.1	1275.0	1399.8	1567.5
32.5°	1386.2	1228.2	1230.1	1349.1	1464.2
35°	1353.0	1175.6	1173.7	1290.6	1323.8
37.5°	1308.1	1119.1	1119.1	1226.3	1169.8
40°	1253.6	1062.5	1068.4	1142.5	1033.2
42.5°	1187.3	1002.0	1009.9	1031.3	931.9
45°	1115.1	943.6	949.4	871.4	853.9
47.5°	1035.2	883.1	885.1	723.3	828.6
50°	939.7	820.7	813.0	620.0	826.7
52.5°	855.8	752.5	729.2	561.4	750.6
55°	773.9	680.4	629.8	516.7	696.0
57.5°	701.8	586.8	538.1	464.0	684.3
60°	635.6	495.2	458.1	407.5	627.8
62.5°	581.0	426.9	419.2	368.5	569.3
65°	522.5	380.1	378.2	335.4	483.5
67.5°	466.0	348.9	347.0	304.2	368.5
70°	405.5	315.8	311.9	271.0	273.0
72.5°	343.1	278.8	274.9	243.7	226.2
75°	280.7	235.9	233.9	212.5	183.2
77.5°	220.4	187.1	191.1	171.6	134.5
80°	157.9	136.4	140.4	122.9	101.4
82.5°	105.2	89.7	93.6	78.0	68.2
85°	58.5	50.7	52.6	41.0	31.2
87.5°	27.3	23.4	23.4	15.6	9.8
90°	12.8	8.1	7.6	5.2	2.9
92.5°	79.0	56.2	51.3	31.4	11.6
95°	194.4	109.5	100.4	64.1	27.9
97.5°	261.8	120.3	112.3	80.3	48.4
100°	286.4	129.3	122.0	93.0	64.1
102.5°	297.7	138.3	131.5	104.5	77.4
105°	306.0	151.6	145.9	123.1	100.2
107.5°	307.6	171.5	166.2	144.8	123.5
110°	305.2	182.6	177.7	158.4	139.1



TEST NUMBER: P933879

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	305.3	195.9	191.4	173.0	154.7
115°	308.1	216.1	211.8	194.9	177.9
117.5°	313.9	235.6	231.7	216.3	200.9
120°	318.5	246.9	243.3	228.8	214.2
122.5°	325.2	260.3	256.6	242.1	227.4
125°	334.3	277.5	274.2	260.9	247.5
127.5°	343.3	294.1	290.7	277.2	263.8
130°	349.9	305.1	301.6	287.0	272.5
132.5°	355.2	314.1	310.6	296.0	281.6
135°	361.0	324.6	321.3	308.1	295.0
137.5°	369.8	338.0	334.7	321.7	308.6
140°	375.1	347.1	344.1	332.0	320.0
142.5°	379.6	353.8	351.0	339.8	328.7
145°	385.4	364.0	361.5	351.8	342.2
147.5°	393.9	376.7	374.4	364.9	355.5
150°	398.4	383.4	381.3	372.8	364.2
152.5°	401.3	387.8	386.1	379.8	373.3
155°	407.7	397.4	396.2	391.4	386.6
157.5°	414.2	407.1	405.9	401.2	396.5
160°	417.1	411.4	410.6	406.9	403.3
162.5°	420.2	416.1	415.4	412.7	410.0
165°	424.6	422.8	422.2	419.7	417.3
167.5°	428.1	426.6	426.3	425.1	423.9
170°	431.0	430.9	430.6	429.5	428.3
172.5°	431.2	431.2	431.1	430.9	430.6
175°	432.9	433.8	433.8	433.8	433.8
177.5°	433.1	433.8	433.8	433.8	433.8
180°	433.8	433.8	433.8	433.8	433.8



TEST NUMBER: P933879  
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-12-3500K

**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	12.57	13.59	13.38	14.42	15.45	15.42	16.44	16.23	17.27	18.31
	3H	13.06	13.97	13.88	14.82	15.88	16.78	17.70	17.61	18.54	19.60
	4H	13.26	14.12	14.10	14.97	16.04	17.24	18.10	18.08	18.96	20.03
	6H	13.38	14.18	14.24	15.04	16.12	17.54	18.34	18.39	19.19	20.28
	8H	13.39	14.15	14.25	15.03	16.11	17.62	18.38	18.48	19.26	20.34
	12H	13.37	14.09	14.23	14.96	16.07	17.67	18.39	18.54	19.26	20.37
4H	2H	13.63	14.49	14.47	15.34	16.41	15.85	16.71	16.69	17.56	18.63
	3H	14.67	15.39	15.53	16.27	17.36	17.37	18.10	18.23	18.98	20.06
	4H	14.95	15.61	15.82	16.49	17.60	17.91	18.57	18.78	19.45	20.56
	6H	15.08	15.65	15.97	16.56	17.67	18.29	18.86	19.18	19.77	20.88
	8H	15.09	15.62	15.98	16.52	17.65	18.41	18.94	19.30	19.84	20.97
	12H	15.07	15.55	15.98	16.46	17.60	18.48	18.95	19.38	19.87	21.01
8H	4H	15.42	15.95	16.31	16.85	17.98	18.05	18.58	18.94	19.48	20.61
	6H	15.69	16.13	16.60	17.07	18.20	18.50	18.94	19.42	19.88	21.01
	8H	15.73	16.12	16.66	17.05	18.20	18.66	19.04	19.58	19.98	21.12
	12H	15.72	16.07	16.65	16.99	18.19	18.77	19.11	19.70	20.03	21.23
12H	4H	15.43	15.91	16.34	16.83	17.96	18.02	18.50	18.93	19.42	20.55
	6H	15.75	16.14	16.68	17.07	18.22	18.50	18.89	19.42	19.82	20.97
	8H	15.83	16.17	16.76	17.09	18.29	18.67	19.01	19.60	19.94	21.13