

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: P934163

Luminaire Tested: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934163
REPORT IS A COMBINATION OF REPORTS P933687 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

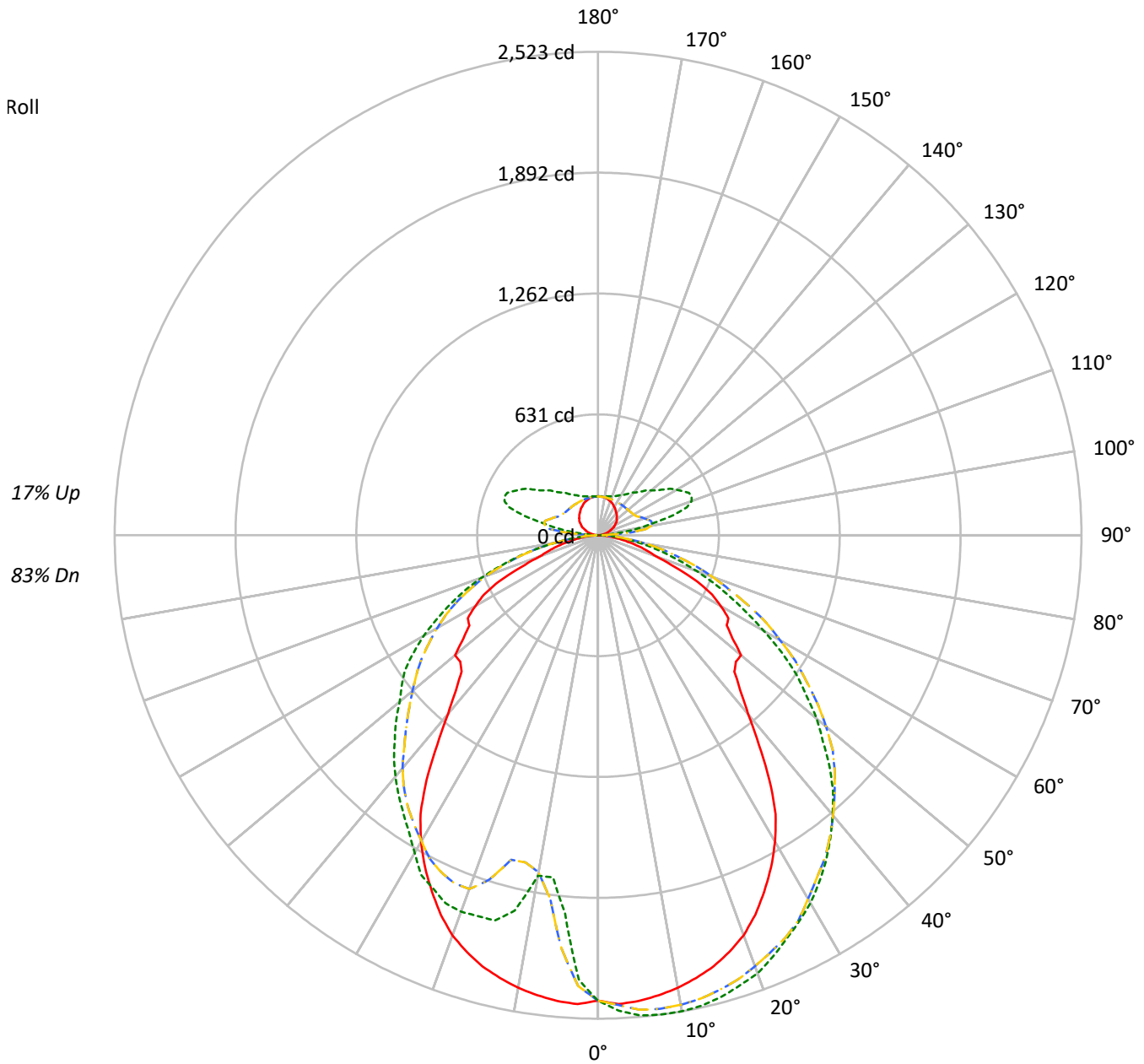
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7610.6 lumens
Efficiency: N/A
Efficacy: 102.3 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: Semi-Direct

Input Watts (W): 74.4
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



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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
RCR																				
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	86	83	
1	105	101	97	93	101	97	93	90	89	87	84	83	80	78	76	75	73	73	70	
2	96	88	82	76	92	85	79	74	78	74	70	73	69	66	67	64	62	62	59	
3	88	78	70	64	84	75	68	62	69	63	59	64	60	56	60	56	52	52	50	
4	80	69	60	54	77	66	59	53	62	55	50	57	52	48	53	49	45	45	43	
5	74	61	53	46	70	59	51	45	55	49	43	52	46	41	48	43	39	39	37	
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	35	32	
7	63	50	42	36	60	48	41	35	45	39	34	42	37	32	40	35	31	31	29	
8	59	46	37	32	56	44	36	31	41	35	30	39	33	29	37	31	28	28	26	
9	55	42	34	28	52	40	33	28	38	32	27	36	30	26	34	29	25	25	23	
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	23	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15022	15022	15022	15022
5°	15129	15164	15129	11923
10°	15022	14938	15022	10679
15°	14853	14614	14853	12203
20°	14537	14231	14537	12229
25°	13895	13671	13895	11969
30°	13068	13207	13068	11401
35°	11645	12619	11645	10775
40°	9697	11928	9697	10302
45°	8659	11120	8659	9759
50°	9192	10154	9192	9214
55°	8640	9115	8640	8899
60°	8896	7741	8896	8150
65°	8053	6399	8053	7153
70°	5562	5100	5562	5996
75°	4860	3770	4860	4514
80°	3890	2491	3890	2713
85°	2188	1320	2188	1122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13279 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	2.9
10°-20°	622.4	8.2
20°-30°	962.1	12.6
30°-40°	1148.5	15.1
40°-50°	1155.3	15.2
50°-60°	1005.2	13.2
60°-70°	712.7	9.4
70°-80°	377.1	5.0
80°-90°	94.7	1.2
90°-100°	98.7	1.3
100°-110°	259.7	3.4
110°-120°	269.2	3.5
120°-130°	216.0	2.8
130°-140°	169.5	2.2
140°-150°	130.1	1.7
150°-160°	93.7	1.2
160°-170°	57.3	0.8
170°-180°	19.4	0.3
0°-30°	1803.7	23.7
0°-40°	2952.2	38.8
0°-60°	5112.6	67.2
0°-90°	6297.1	82.7
90°-120°	627.7	8.2
90°-150°	1143.2	15.0
90°-180°	1313.0	17.3
0°-180°	7610.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2428	2428	2428	2428	2428	
5°	2440	2516	2440	1978	2440	231
15°	2330	2493	2330	2081	2330	655
25°	2052	2325	2052	2036	2052	942
35°	1560	2074	1560	1771	1560	965
45°	1006	1709	1006	1500	1006	806
55°	820	1261	820	1231	820	754
65°	570	760	570	850	570	545
75°	216	361	216	432	216	227
85°	37	92	37	78	37	50
90°	1	5	1	5	1	3
95°	13	60	13	60	13	14
105°	47	407	47	407	47	50
115°	83	524	83	524	83	82
125°	116	417	116	417	116	103
135°	138	324	138	324	138	107
145°	160	262	160	262	160	100
155°	181	226	181	226	181	83
165°	195	210	195	210	195	55
175°	203	204	203	204	203	19
180°	203	203	203	203	203	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2449.0	2449.0	2462.9	2467.4	2467.4	2460.5	2453.6	2460.5	2481.2	2488.1	2485.8
5°	2439.9	2458.2	2483.5	2488.1	2492.7	2490.4	2485.8	2490.4	2513.4	2518.0	2520.2
7.5°	2421.5	2455.9	2488.1	2495.0	2501.9	2495.0	2492.7	2497.2	2520.2	2524.9	2524.9
10°	2398.5	2446.7	2483.5	2488.1	2495.0	2488.1	2488.1	2497.2	2520.2	2524.9	2527.1
12.5°	2366.4	2433.0	2467.4	2472.0	2481.2	2478.9	2476.6	2485.8	2508.7	2513.4	2513.4
15°	2329.6	2407.6	2439.9	2444.5	2460.5	2455.9	2455.9	2465.1	2490.4	2497.2	2495.0
17.5°	2279.0	2375.5	2412.3	2419.1	2430.6	2428.4	2430.6	2439.9	2462.9	2467.4	2469.7
20°	2221.6	2331.9	2375.5	2382.4	2393.9	2393.9	2393.9	2405.4	2428.4	2437.5	2437.5
22.5°	2143.5	2285.9	2331.9	2336.5	2350.3	2350.3	2354.9	2370.9	2391.6	2393.9	2393.9
25°	2051.5	2235.4	2274.4	2288.2	2302.0	2308.9	2315.8	2325.0	2331.9	2329.6	2331.9
27.5°	1955.1	2171.0	2221.6	2230.8	2249.1	2256.0	2265.3	2267.5	2269.9	2276.8	2272.1
30°	1847.1	2081.4	2157.3	2166.4	2196.3	2200.9	2191.8	2196.3	2207.8	2212.4	2217.0
32.5°	1725.3	1948.2	2090.7	2111.3	2138.9	2125.1	2122.8	2129.7	2148.0	2148.0	2152.7
35°	1560.0	1844.8	2028.6	2047.0	2067.7	2051.5	2060.8	2063.0	2074.5	2081.4	2079.2
37.5°	1378.5	1755.2	1964.3	1978.0	1994.2	1973.4	1987.3	1994.2	2003.3	1998.8	1998.8
40°	1217.6	1615.1	1888.4	1897.7	1911.4	1895.3	1909.2	1913.8	1918.3	1913.8	1911.4
42.5°	1098.1	1461.1	1808.1	1819.6	1810.3	1821.8	1826.4	1835.7	1828.7	1819.6	1819.6
45°	1006.3	1419.8	1720.7	1734.6	1720.7	1739.2	1746.1	1746.1	1725.3	1720.7	1718.4
47.5°	976.4	1337.1	1633.5	1633.5	1626.6	1649.6	1661.1	1644.9	1624.2	1617.3	1617.3
50°	974.1	1245.2	1514.0	1504.8	1537.0	1564.6	1553.1	1537.0	1520.9	1495.6	1495.6
52.5°	884.5	1132.6	1360.1	1394.5	1445.1	1461.1	1442.7	1426.7	1399.1	1387.6	1378.5
55°	820.2	1015.4	1219.9	1288.9	1341.7	1362.4	1327.9	1311.8	1270.5	1263.6	1259.0
57.5°	806.4	845.4	1091.3	1178.6	1242.9	1240.6	1219.9	1190.0	1155.6	1148.7	1146.4
60°	739.8	611.1	953.4	1056.8	1123.4	1116.5	1098.1	1070.6	1038.4	1033.9	1029.3
62.5°	670.8	443.4	797.2	914.4	1008.5	1006.3	990.2	948.8	925.9	914.4	905.2
65°	569.8	372.2	567.4	760.4	896.0	900.5	866.1	836.3	811.0	797.2	794.9
67.5°	434.2	303.2	383.7	634.1	788.0	783.4	739.8	725.9	693.8	686.9	673.2
70°	321.6	202.2	266.5	514.6	682.3	670.8	636.4	620.3	590.4	574.3	565.2
72.5°	266.5	163.1	195.2	399.7	574.3	560.6	530.7	512.3	487.1	473.3	464.1
75°	216.0	172.3	149.4	296.3	466.3	457.2	429.6	411.2	390.6	372.2	374.5
77.5°	158.5	160.8	119.5	218.2	369.8	356.1	340.0	317.1	307.8	289.5	289.5
80°	119.5	126.4	89.6	149.4	266.5	266.5	252.7	236.6	220.6	211.4	211.4
82.5°	80.4	80.4	66.6	94.2	181.5	174.6	165.4	160.8	151.6	147.0	147.0
85°	36.7	46.0	41.4	57.5	98.8	103.4	103.4	98.8	96.5	91.9	94.2
87.5°	11.5	20.6	25.3	32.1	50.5	52.9	55.1	55.1	55.1	57.5	57.5
90°	1.4	2.4	3.5	3.8	6.0	8.9	10.3	9.1	6.9	5.2	5.2
92.5°	5.4	14.7	23.9	26.2	36.9	51.1	58.2	51.0	36.6	25.8	24.8
95°	13.0	30.0	46.9	51.1	90.8	143.6	170.1	151.8	115.1	87.7	84.6
97.5°	22.5	37.5	52.4	56.1	122.3	210.4	254.5	242.9	219.9	202.5	196.6
100°	30.0	43.4	57.0	60.4	133.8	231.6	280.5	281.3	283.0	284.3	277.3
102.5°	36.2	48.9	61.5	64.6	139.0	238.2	287.8	302.6	332.1	354.3	348.2
105°	46.8	57.5	68.2	70.9	142.9	239.0	287.0	320.1	386.2	435.8	432.6
107.5°	57.7	67.6	77.6	80.1	143.6	228.4	270.7	316.9	409.1	478.3	479.1
110°	65.0	74.0	83.0	85.3	142.6	219.0	257.2	308.8	411.8	489.1	492.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.2	80.8	89.3	91.5	142.6	210.7	244.8	297.5	403.1	482.2	487.3
115°	83.1	91.1	98.9	100.9	143.9	201.2	229.9	280.8	382.4	458.6	465.9
117.5°	93.9	101.0	108.2	110.0	146.5	195.3	219.8	265.7	357.4	426.1	434.1
120°	100.1	106.9	113.6	115.3	148.8	193.4	215.7	257.6	341.4	404.3	412.1
122.5°	106.2	113.1	119.8	121.6	151.9	192.3	212.5	250.3	325.8	382.4	390.1
125°	115.6	121.8	128.1	129.6	156.1	191.5	209.2	241.2	305.4	353.5	360.5
127.5°	123.2	129.4	135.8	137.3	160.3	191.0	206.3	233.8	288.9	330.2	336.2
130°	127.3	134.1	140.8	142.5	163.4	191.3	205.2	229.7	278.7	315.4	321.0
132.5°	131.5	138.3	145.0	146.7	165.9	191.5	204.3	226.2	270.1	303.0	307.8
135°	137.8	143.9	150.1	151.6	168.6	191.4	202.7	221.0	257.8	285.3	289.6
137.5°	144.2	150.3	156.3	157.9	172.7	192.5	202.4	218.0	249.0	272.3	275.7
140°	149.4	155.1	160.7	162.1	175.2	192.7	201.4	214.8	241.7	261.8	265.0
142.5°	153.5	158.7	163.9	165.2	177.2	193.3	201.4	213.2	236.8	254.4	257.2
145°	159.8	164.3	168.8	170.0	180.0	193.3	200.0	209.6	228.9	243.4	245.5
147.5°	166.0	170.4	174.9	176.0	184.0	194.7	200.0	207.6	222.8	234.2	235.9
150°	170.1	174.1	178.1	179.1	186.1	195.4	200.0	206.5	219.2	228.8	230.3
152.5°	174.3	177.3	180.4	181.1	187.5	195.9	200.0	205.5	216.4	224.7	225.7
155°	180.6	182.8	185.1	185.6	190.4	196.9	200.0	204.4	213.1	219.6	220.3
157.5°	185.2	187.4	189.5	190.1	193.4	197.9	200.0	203.4	210.2	215.2	215.8
160°	188.4	190.1	191.7	192.2	194.8	198.3	200.0	202.9	208.7	213.1	213.3
162.5°	191.4	192.7	194.0	194.3	196.2	198.8	200.0	202.5	207.4	211.1	211.4
165°	194.9	196.0	197.1	197.4	198.3	199.5	200.0	201.8	205.3	207.9	208.2
167.5°	198.0	198.5	199.0	199.2	200.0	200.9	201.4	202.6	204.8	206.6	206.6
170°	200.0	200.6	201.1	201.2	201.3	201.4	201.4	202.6	204.8	206.6	206.6
172.5°	201.1	201.2	201.4	201.4	201.4	201.4	201.4	202.3	204.1	205.5	205.4
175°	202.7	202.7	202.7	202.7	202.2	201.7	201.4	201.9	203.1	204.0	204.0
177.5°	202.7	202.7	202.7	202.7	202.3	201.9	201.7	202.1	203.0	203.8	203.7
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2490.4	2483.5	2490.4	2485.8	2488.1	2481.2	2460.5	2453.6	2460.5	2467.4	2467.4
5°	2520.2	2515.6	2520.2	2520.2	2518.0	2513.4	2490.4	2485.8	2490.4	2492.7	2488.1
7.5°	2529.5	2522.6	2529.5	2524.9	2524.9	2520.2	2497.2	2492.7	2495.0	2501.9	2495.0
10°	2529.5	2522.6	2529.5	2527.1	2524.9	2520.2	2497.2	2488.1	2488.1	2495.0	2488.1
12.5°	2518.0	2513.4	2518.0	2513.4	2513.4	2508.7	2485.8	2476.6	2478.9	2481.2	2472.0
15°	2499.6	2492.7	2499.6	2495.0	2497.2	2490.4	2465.1	2455.9	2455.9	2460.5	2444.5
17.5°	2472.0	2462.9	2472.0	2469.7	2467.4	2462.9	2439.9	2430.6	2428.4	2430.6	2419.1
20°	2439.9	2433.0	2439.9	2437.5	2437.5	2428.4	2405.4	2393.9	2393.9	2393.9	2382.4
22.5°	2389.3	2382.4	2389.3	2393.9	2393.9	2391.6	2370.9	2354.9	2350.3	2350.3	2336.5
25°	2331.9	2325.0	2331.9	2331.9	2329.6	2331.9	2325.0	2315.8	2308.9	2302.0	2288.2
27.5°	2276.8	2272.1	2276.8	2272.1	2276.8	2269.9	2267.5	2265.3	2256.0	2249.1	2230.8
30°	2221.6	2217.0	2221.6	2217.0	2212.4	2207.8	2196.3	2191.8	2200.9	2196.3	2166.4
32.5°	2152.7	2148.0	2152.7	2152.7	2148.0	2148.0	2129.7	2122.8	2125.1	2138.9	2111.3
35°	2081.4	2074.5	2081.4	2079.2	2081.4	2074.5	2063.0	2060.8	2051.5	2067.7	2047.0
37.5°	1998.8	1991.8	1998.8	1998.8	1998.8	2003.3	1994.2	1987.3	1973.4	1994.2	1978.0
40°	1913.8	1904.5	1913.8	1911.4	1913.8	1918.3	1913.8	1909.2	1895.3	1911.4	1897.7
42.5°	1817.3	1814.9	1817.3	1819.6	1819.6	1828.7	1835.7	1826.4	1821.8	1810.3	1819.6
45°	1713.8	1709.3	1713.8	1718.4	1720.7	1725.3	1746.1	1746.1	1739.2	1720.7	1734.6
47.5°	1603.6	1592.1	1603.6	1617.3	1617.3	1624.2	1644.9	1661.1	1649.6	1626.6	1633.5
50°	1486.5	1488.7	1486.5	1495.6	1495.6	1520.9	1537.0	1553.1	1564.6	1537.0	1504.8
52.5°	1371.6	1369.2	1371.6	1378.5	1387.6	1399.1	1426.7	1442.7	1461.1	1445.1	1394.5
55°	1256.6	1261.3	1256.6	1259.0	1263.6	1270.5	1311.8	1327.9	1362.4	1341.7	1288.9
57.5°	1141.8	1134.9	1141.8	1146.4	1148.7	1155.6	1190.0	1219.9	1240.6	1242.9	1178.6
60°	1008.5	999.4	1008.5	1029.3	1033.9	1038.4	1070.6	1098.1	1116.5	1123.4	1056.8
62.5°	891.4	875.3	891.4	905.2	914.4	925.9	948.8	990.2	1006.3	1008.5	914.4
65°	767.3	760.4	767.3	794.9	797.2	811.0	836.3	866.1	900.5	896.0	760.4
67.5°	654.8	654.8	654.8	673.2	686.9	693.8	725.9	739.8	783.4	788.0	634.1
70°	551.3	549.1	551.3	565.2	574.3	590.4	620.3	636.4	670.8	682.3	514.6
72.5°	452.6	450.3	452.6	464.1	473.3	487.1	512.3	530.7	560.6	574.3	399.7
75°	365.3	360.7	365.3	374.5	372.2	390.6	411.2	429.6	457.2	466.3	296.3
77.5°	280.3	280.3	280.3	289.5	289.5	307.8	317.1	340.0	356.1	369.8	218.2
80°	209.1	206.7	209.1	211.4	211.4	220.6	236.6	252.7	266.5	266.5	149.4
82.5°	147.0	142.5	147.0	147.0	147.0	151.6	160.8	165.4	174.6	181.5	94.2
85°	91.9	91.9	91.9	94.2	91.9	96.5	98.8	103.4	103.4	98.8	57.5
87.5°	59.7	57.5	59.7	57.5	57.5	55.1	55.1	55.1	52.9	50.5	32.1
90°	5.2	5.2	5.2	5.2	5.2	6.9	9.1	10.3	8.9	6.0	3.8
92.5°	20.6	16.6	20.6	24.8	25.8	36.6	51.0	58.2	51.1	36.9	26.2
95°	72.1	59.7	72.1	84.6	87.7	115.1	151.8	170.1	143.6	90.8	51.1
97.5°	172.9	149.2	172.9	196.6	202.5	219.9	242.9	254.5	210.4	122.3	56.1
100°	249.1	220.9	249.1	277.3	284.3	283.0	281.3	280.5	231.6	133.8	60.4
102.5°	324.0	299.9	324.0	348.2	354.3	332.1	302.6	287.8	238.2	139.0	64.6
105°	419.6	406.6	419.6	432.6	435.8	386.2	320.1	287.0	239.0	142.9	70.9
107.5°	482.2	485.3	482.2	479.1	478.3	409.1	316.9	270.7	228.4	143.6	80.1
110°	506.1	519.7	506.1	492.5	489.1	411.8	308.8	257.2	219.0	142.6	85.3



TEST NUMBER: P934163

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	508.2	529.0	508.2	487.3	482.2	403.1	297.5	244.8	210.7	142.6	91.5
115°	494.7	523.5	494.7	465.9	458.6	382.4	280.8	229.9	201.2	143.9	100.9
117.5°	466.2	498.1	466.2	434.1	426.1	357.4	265.7	219.8	195.3	146.5	110.0
120°	443.2	474.2	443.2	412.1	404.3	341.4	257.6	215.7	193.4	148.8	115.3
122.5°	420.7	451.3	420.7	390.1	382.4	325.8	250.3	212.5	192.3	151.9	121.6
125°	388.7	416.9	388.7	360.5	353.5	305.4	241.2	209.2	191.5	156.1	129.6
127.5°	360.0	383.8	360.0	336.2	330.2	288.9	233.8	206.3	191.0	160.3	137.3
130°	343.0	365.0	343.0	321.0	315.4	278.7	229.7	205.2	191.3	163.4	142.5
132.5°	327.6	347.3	327.6	307.8	303.0	270.1	226.2	204.3	191.5	165.9	146.7
135°	306.5	323.5	306.5	289.6	285.3	257.8	221.0	202.7	191.4	168.6	151.6
137.5°	289.7	303.5	289.7	275.7	272.3	249.0	218.0	202.4	192.5	172.7	157.9
140°	278.0	291.0	278.0	265.0	261.8	241.7	214.8	201.4	192.7	175.2	162.1
142.5°	268.4	279.6	268.4	257.2	254.4	236.8	213.2	201.4	193.3	177.2	165.2
145°	254.0	262.5	254.0	245.5	243.4	228.9	209.6	200.0	193.3	180.0	170.0
147.5°	242.9	249.9	242.9	235.9	234.2	222.8	207.6	200.0	194.7	184.0	176.0
150°	236.0	241.7	236.0	230.3	228.8	219.2	206.5	200.0	195.4	186.1	179.1
152.5°	230.0	234.3	230.0	225.7	224.7	216.4	205.5	200.0	195.9	187.5	181.1
155°	223.1	226.0	223.1	220.3	219.6	213.1	204.4	200.0	196.9	190.4	185.6
157.5°	217.8	219.8	217.8	215.8	215.2	210.2	203.4	200.0	197.9	193.4	190.1
160°	214.5	215.7	214.5	213.3	213.1	208.7	202.9	200.0	198.3	194.8	192.2
162.5°	212.4	213.5	212.4	211.4	211.1	207.4	202.5	200.0	198.8	196.2	194.3
165°	209.4	210.5	209.4	208.2	207.9	205.3	201.8	200.0	199.5	198.3	197.4
167.5°	207.2	207.6	207.2	206.6	206.6	204.8	202.6	201.4	200.9	200.0	199.2
170°	206.6	206.6	206.6	206.6	206.6	204.8	202.6	201.4	201.4	201.3	201.2
172.5°	204.9	204.6	204.9	205.4	205.5	204.1	202.3	201.4	201.4	201.4	201.4
175°	204.0	204.0	204.0	204.0	204.0	203.1	201.9	201.4	201.7	202.2	202.7
177.5°	203.1	202.7	203.1	203.7	203.8	203.0	202.1	201.7	201.9	202.3	202.7
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934163

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2462.9	2449.0	2449.0	2426.1	2416.9	2410.0	2398.5	2364.0	2354.9	2345.6	2359.4
5°	2483.5	2458.2	2439.9	2398.5	2364.0	2350.3	2306.6	2223.9	2168.8	2127.4	2104.4
7.5°	2488.1	2455.9	2421.5	2357.1	2274.4	2237.6	2104.4	1952.8	1911.4	1874.7	1851.7
10°	2483.5	2446.7	2398.5	2302.0	2106.8	2042.4	1909.2	1810.3	1785.1	1778.2	1785.1
12.5°	2467.4	2433.0	2366.4	2205.5	1932.2	1888.4	1810.3	1752.9	1748.3	1759.8	1821.8
15°	2439.9	2407.6	2329.6	2076.9	1835.7	1803.4	1748.3	1727.7	1752.9	1833.3	2019.4
17.5°	2412.3	2375.5	2279.0	1950.5	1762.1	1739.2	1700.1	1741.4	1883.9	1991.8	2053.9
20°	2375.5	2331.9	2221.6	1858.6	1709.3	1688.6	1670.2	1856.3	1964.3	2003.3	2037.8
22.5°	2331.9	2285.9	2143.5	1794.3	1654.1	1638.1	1649.6	1920.7	1964.3	1991.8	2021.7
25°	2274.4	2235.4	2051.5	1743.7	1610.5	1592.1	1635.7	1913.8	1939.0	1945.9	2005.7
27.5°	2221.6	2171.0	1955.1	1697.8	1557.6	1550.7	1647.2	1883.9	1902.3	1909.2	1973.4
30°	2157.3	2081.4	1847.1	1649.6	1502.5	1500.2	1649.6	1847.1	1842.5	1860.9	1925.2
32.5°	2090.7	1948.2	1725.3	1589.8	1449.7	1447.4	1633.5	1791.9	1787.4	1812.7	1860.9
35°	2028.6	1844.8	1560.0	1520.9	1383.0	1385.3	1594.4	1727.7	1729.9	1752.9	1782.8
37.5°	1964.3	1755.2	1378.5	1445.1	1318.7	1318.7	1541.6	1667.9	1663.3	1670.2	1711.6
40°	1888.4	1615.1	1217.6	1346.2	1259.0	1252.1	1477.2	1603.6	1587.5	1585.2	1642.7
42.5°	1808.1	1461.1	1098.1	1215.4	1190.0	1180.9	1399.1	1525.5	1495.6	1502.5	1576.0
45°	1720.7	1419.8	1006.3	1026.9	1118.9	1111.9	1314.1	1435.9	1415.2	1433.6	1509.4
47.5°	1633.5	1337.1	976.4	852.3	1043.0	1040.8	1219.9	1348.6	1337.1	1355.5	1435.9
50°	1514.0	1245.2	974.1	730.6	958.0	967.2	1107.4	1263.6	1263.6	1279.6	1364.6
52.5°	1360.1	1132.6	884.5	661.7	859.3	886.8	1008.5	1190.0	1194.6	1210.7	1286.5
55°	1219.9	1015.4	820.2	608.8	742.1	801.8	912.0	1114.3	1123.4	1139.5	1208.4
57.5°	1091.3	845.4	806.4	546.8	634.1	691.5	827.0	1040.8	1045.3	1059.1	1125.7
60°	953.4	611.1	739.8	480.2	539.9	583.6	748.9	953.4	969.5	978.7	1036.1
62.5°	797.2	443.4	670.8	434.2	493.9	503.1	684.7	870.7	891.4	898.3	932.8
65°	567.4	372.2	569.8	395.2	445.7	448.0	615.7	785.7	804.1	815.6	840.9
67.5°	383.7	303.2	434.2	358.4	409.0	411.2	549.1	686.9	712.2	721.4	737.4
70°	266.5	202.2	321.6	319.3	367.6	372.2	477.8	597.3	620.3	627.2	636.4
72.5°	195.2	163.1	266.5	287.2	324.0	328.6	404.3	496.2	519.2	526.1	530.7
75°	149.4	172.3	216.0	250.5	275.7	278.0	330.8	404.3	420.4	425.1	427.3
77.5°	119.5	160.8	158.5	202.2	225.1	220.6	259.6	312.5	326.2	326.2	326.2
80°	89.6	126.4	119.5	144.7	165.4	160.8	186.1	222.9	227.5	232.0	229.7
82.5°	66.6	80.4	80.4	91.9	110.2	105.7	124.1	144.7	144.7	144.7	149.4
85°	41.4	46.0	36.7	48.2	62.0	59.7	68.9	78.1	80.4	80.4	75.9
87.5°	25.3	20.6	11.5	18.4	27.6	27.6	32.1	34.5	32.1	32.1	32.1
90°	3.5	2.4	1.4	2.4	3.5	3.8	6.0	8.9	10.3	9.1	6.9
92.5°	23.9	14.7	5.4	14.7	23.9	26.2	36.9	51.1	58.2	51.0	36.6
95°	46.9	30.0	13.0	30.0	46.9	51.1	90.8	143.6	170.1	151.8	115.1
97.5°	52.4	37.5	22.5	37.5	52.4	56.1	122.3	210.4	254.5	242.9	219.9
100°	57.0	43.4	30.0	43.4	57.0	60.4	133.8	231.6	280.5	281.3	283.0
102.5°	61.5	48.9	36.2	48.9	61.5	64.6	139.0	238.2	287.8	302.6	332.1
105°	68.2	57.5	46.8	57.5	68.2	70.9	142.9	239.0	287.0	320.1	386.2
107.5°	77.6	67.6	57.7	67.6	77.6	80.1	143.6	228.4	270.7	316.9	409.1
110°	83.0	74.0	65.0	74.0	83.0	85.3	142.6	219.0	257.2	308.8	411.8



TEST NUMBER: P934163

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	89.3	80.8	72.2	80.8	89.3	91.5	142.6	210.7	244.8	297.5	403.1
115°	98.9	91.1	83.1	91.1	98.9	100.9	143.9	201.2	229.9	280.8	382.4
117.5°	108.2	101.0	93.9	101.0	108.2	110.0	146.5	195.3	219.8	265.7	357.4
120°	113.6	106.9	100.1	106.9	113.6	115.3	148.8	193.4	215.7	257.6	341.4
122.5°	119.8	113.1	106.2	113.1	119.8	121.6	151.9	192.3	212.5	250.3	325.8
125°	128.1	121.8	115.6	121.8	128.1	129.6	156.1	191.5	209.2	241.2	305.4
127.5°	135.8	129.4	123.2	129.4	135.8	137.3	160.3	191.0	206.3	233.8	288.9
130°	140.8	134.1	127.3	134.1	140.8	142.5	163.4	191.3	205.2	229.7	278.7
132.5°	145.0	138.3	131.5	138.3	145.0	146.7	165.9	191.5	204.3	226.2	270.1
135°	150.1	143.9	137.8	143.9	150.1	151.6	168.6	191.4	202.7	221.0	257.8
137.5°	156.3	150.3	144.2	150.3	156.3	157.9	172.7	192.5	202.4	218.0	249.0
140°	160.7	155.1	149.4	155.1	160.7	162.1	175.2	192.7	201.4	214.8	241.7
142.5°	163.9	158.7	153.5	158.7	163.9	165.2	177.2	193.3	201.4	213.2	236.8
145°	168.8	164.3	159.8	164.3	168.8	170.0	180.0	193.3	200.0	209.6	228.9
147.5°	174.9	170.4	166.0	170.4	174.9	176.0	184.0	194.7	200.0	207.6	222.8
150°	178.1	174.1	170.1	174.1	178.1	179.1	186.1	195.4	200.0	206.5	219.2
152.5°	180.4	177.3	174.3	177.3	180.4	181.1	187.5	195.9	200.0	205.5	216.4
155°	185.1	182.8	180.6	182.8	185.1	185.6	190.4	196.9	200.0	204.4	213.1
157.5°	189.5	187.4	185.2	187.4	189.5	190.1	193.4	197.9	200.0	203.4	210.2
160°	191.7	190.1	188.4	190.1	191.7	192.2	194.8	198.3	200.0	202.9	208.7
162.5°	194.0	192.7	191.4	192.7	194.0	194.3	196.2	198.8	200.0	202.5	207.4
165°	197.1	196.0	194.9	196.0	197.1	197.4	198.3	199.5	200.0	201.8	205.3
167.5°	199.0	198.5	198.0	198.5	199.0	199.2	200.0	200.9	201.4	202.6	204.8
170°	201.1	200.6	200.0	200.6	201.1	201.2	201.3	201.4	201.4	202.6	204.8
172.5°	201.4	201.2	201.1	201.2	201.4	201.4	201.4	201.4	201.4	202.3	204.1
175°	202.7	202.7	202.7	202.7	202.7	202.7	202.2	201.7	201.4	201.9	203.1
177.5°	202.7	202.7	202.7	202.7	202.7	202.7	202.3	201.9	201.7	202.1	203.0
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934163

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2343.4	2336.5	2345.6	2320.4	2345.6	2336.5	2343.4	2359.4	2345.6	2354.9	2364.0
5°	2056.2	2044.7	2007.9	1978.0	2007.9	2044.7	2056.2	2104.4	2127.4	2168.8	2223.9
7.5°	1837.9	1828.7	1819.6	1801.2	1819.6	1828.7	1837.9	1851.7	1874.7	1911.4	1952.8
10°	1789.7	1791.9	1805.8	1803.4	1805.8	1791.9	1789.7	1785.1	1778.2	1785.1	1810.3
12.5°	1913.8	1934.4	2010.3	2005.7	2010.3	1934.4	1913.8	1821.8	1759.8	1748.3	1752.9
15°	2056.2	2063.0	2079.2	2081.4	2079.2	2063.0	2056.2	2019.4	1833.3	1752.9	1727.7
17.5°	2069.9	2072.3	2083.8	2083.8	2083.8	2072.3	2069.9	2053.9	1991.8	1883.9	1741.4
20°	2058.5	2063.0	2086.0	2090.7	2086.0	2063.0	2058.5	2037.8	2003.3	1964.3	1856.3
22.5°	2053.9	2063.0	2081.4	2079.2	2081.4	2063.0	2053.9	2021.7	1991.8	1964.3	1920.7
25°	2030.9	2030.9	2033.2	2035.5	2033.2	2030.9	2030.9	2005.7	1945.9	1939.0	1913.8
27.5°	1982.7	1987.3	2001.0	1998.8	2001.0	1987.3	1982.7	1973.4	1909.2	1902.3	1883.9
30°	1939.0	1934.4	1922.9	1913.8	1922.9	1934.4	1939.0	1925.2	1860.9	1842.5	1847.1
32.5°	1865.5	1854.0	1842.5	1835.7	1842.5	1854.0	1865.5	1860.9	1812.7	1787.4	1791.9
35°	1778.2	1780.5	1778.2	1771.3	1778.2	1780.5	1778.2	1782.8	1752.9	1729.9	1727.7
37.5°	1716.2	1720.7	1718.4	1709.3	1718.4	1720.7	1716.2	1711.6	1670.2	1663.3	1667.9
40°	1651.8	1654.1	1651.8	1644.9	1651.8	1654.1	1651.8	1642.7	1585.2	1587.5	1603.6
42.5°	1589.8	1587.5	1580.6	1576.0	1580.6	1587.5	1589.8	1576.0	1502.5	1495.6	1525.5
45°	1518.6	1520.9	1507.1	1500.2	1507.1	1520.9	1518.6	1509.4	1433.6	1415.2	1435.9
47.5°	1447.4	1447.4	1435.9	1429.0	1435.9	1447.4	1447.4	1435.9	1355.5	1337.1	1348.6
50°	1371.6	1369.2	1353.2	1350.9	1353.2	1369.2	1371.6	1364.6	1279.6	1263.6	1263.6
52.5°	1284.2	1284.2	1286.5	1291.1	1286.5	1284.2	1284.2	1286.5	1210.7	1194.6	1190.0
55°	1208.4	1210.7	1226.9	1231.4	1226.9	1210.7	1208.4	1208.4	1139.5	1123.4	1114.3
57.5°	1130.4	1130.4	1141.8	1141.8	1141.8	1130.4	1130.4	1125.7	1059.1	1045.3	1040.8
60°	1040.8	1045.3	1054.5	1052.2	1054.5	1045.3	1040.8	1036.1	978.7	969.5	953.4
62.5°	946.5	951.1	953.4	948.8	953.4	951.1	946.5	932.8	898.3	891.4	870.7
65°	847.8	852.3	854.7	850.0	854.7	852.3	847.8	840.9	815.6	804.1	785.7
67.5°	746.7	744.3	742.1	751.3	742.1	744.3	746.7	737.4	721.4	712.2	686.9
70°	643.3	643.3	640.9	645.6	640.9	643.3	643.3	636.4	627.2	620.3	597.3
72.5°	533.0	530.7	539.9	533.0	539.9	530.7	533.0	530.7	526.1	519.2	496.2
75°	425.1	429.6	425.1	431.9	425.1	429.6	425.1	427.3	425.1	420.4	404.3
77.5°	324.0	328.6	324.0	324.0	324.0	328.6	324.0	326.2	326.2	326.2	312.5
80°	229.7	227.5	227.5	225.1	227.5	227.5	229.7	229.7	232.0	227.5	222.9
82.5°	147.0	144.7	144.7	149.4	144.7	144.7	147.0	149.4	144.7	144.7	144.7
85°	80.4	82.7	78.1	78.1	78.1	82.7	80.4	75.9	80.4	80.4	78.1
87.5°	29.9	27.6	27.6	27.6	27.6	27.6	29.9	32.1	32.1	32.1	34.5
90°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.9	9.1	10.3	8.9
92.5°	25.8	24.8	20.6	16.6	20.6	24.8	25.8	36.6	51.0	58.2	51.1
95°	87.7	84.6	72.1	59.7	72.1	84.6	87.7	115.1	151.8	170.1	143.6
97.5°	202.5	196.6	172.9	149.2	172.9	196.6	202.5	219.9	242.9	254.5	210.4
100°	284.3	277.3	249.1	220.9	249.1	277.3	284.3	283.0	281.3	280.5	231.6
102.5°	354.3	348.2	324.0	299.9	324.0	348.2	354.3	332.1	302.6	287.8	238.2
105°	435.8	432.6	419.6	406.6	419.6	432.6	435.8	386.2	320.1	287.0	239.0
107.5°	478.3	479.1	482.2	485.3	482.2	479.1	478.3	409.1	316.9	270.7	228.4
110°	489.1	492.5	506.1	519.7	506.1	492.5	489.1	411.8	308.8	257.2	219.0



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CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	482.2	487.3	508.2	529.0	508.2	487.3	482.2	403.1	297.5	244.8	210.7
115°	458.6	465.9	494.7	523.5	494.7	465.9	458.6	382.4	280.8	229.9	201.2
117.5°	426.1	434.1	466.2	498.1	466.2	434.1	426.1	357.4	265.7	219.8	195.3
120°	404.3	412.1	443.2	474.2	443.2	412.1	404.3	341.4	257.6	215.7	193.4
122.5°	382.4	390.1	420.7	451.3	420.7	390.1	382.4	325.8	250.3	212.5	192.3
125°	353.5	360.5	388.7	416.9	388.7	360.5	353.5	305.4	241.2	209.2	191.5
127.5°	330.2	336.2	360.0	383.8	360.0	336.2	330.2	288.9	233.8	206.3	191.0
130°	315.4	321.0	343.0	365.0	343.0	321.0	315.4	278.7	229.7	205.2	191.3
132.5°	303.0	307.8	327.6	347.3	327.6	307.8	303.0	270.1	226.2	204.3	191.5
135°	285.3	289.6	306.5	323.5	306.5	289.6	285.3	257.8	221.0	202.7	191.4
137.5°	272.3	275.7	289.7	303.5	289.7	275.7	272.3	249.0	218.0	202.4	192.5
140°	261.8	265.0	278.0	291.0	278.0	265.0	261.8	241.7	214.8	201.4	192.7
142.5°	254.4	257.2	268.4	279.6	268.4	257.2	254.4	236.8	213.2	201.4	193.3
145°	243.4	245.5	254.0	262.5	254.0	245.5	243.4	228.9	209.6	200.0	193.3
147.5°	234.2	235.9	242.9	249.9	242.9	235.9	234.2	222.8	207.6	200.0	194.7
150°	228.8	230.3	236.0	241.7	236.0	230.3	228.8	219.2	206.5	200.0	195.4
152.5°	224.7	225.7	230.0	234.3	230.0	225.7	224.7	216.4	205.5	200.0	195.9
155°	219.6	220.3	223.1	226.0	223.1	220.3	219.6	213.1	204.4	200.0	196.9
157.5°	215.2	215.8	217.8	219.8	217.8	215.8	215.2	210.2	203.4	200.0	197.9
160°	213.1	213.3	214.5	215.7	214.5	213.3	213.1	208.7	202.9	200.0	198.3
162.5°	211.1	211.4	212.4	213.5	212.4	211.4	211.1	207.4	202.5	200.0	198.8
165°	207.9	208.2	209.4	210.5	209.4	208.2	207.9	205.3	201.8	200.0	199.5
167.5°	206.6	206.6	207.2	207.6	207.2	206.6	206.6	204.8	202.6	201.4	200.9
170°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	204.8	202.6	201.4	201.4
172.5°	205.5	205.4	204.9	204.6	204.9	205.4	205.5	204.1	202.3	201.4	201.4
175°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	203.1	201.9	201.4	201.7
177.5°	203.8	203.7	203.1	202.7	203.1	203.7	203.8	203.0	202.1	201.7	201.9
180°	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7	202.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2398.5	2410.0	2416.9	2426.1	2449.0
5°	2306.6	2350.3	2364.0	2398.5	2439.9
7.5°	2104.4	2237.6	2274.4	2357.1	2421.5
10°	1909.2	2042.4	2106.8	2302.0	2398.5
12.5°	1810.3	1888.4	1932.2	2205.5	2366.4
15°	1748.3	1803.4	1835.7	2076.9	2329.6
17.5°	1700.1	1739.2	1762.1	1950.5	2279.0
20°	1670.2	1688.6	1709.3	1858.6	2221.6
22.5°	1649.6	1638.1	1654.1	1794.3	2143.5
25°	1635.7	1592.1	1610.5	1743.7	2051.5
27.5°	1647.2	1550.7	1557.6	1697.8	1955.1
30°	1649.6	1500.2	1502.5	1649.6	1847.1
32.5°	1633.5	1447.4	1449.7	1589.8	1725.3
35°	1594.4	1385.3	1383.0	1520.9	1560.0
37.5°	1541.6	1318.7	1318.7	1445.1	1378.5
40°	1477.2	1252.1	1259.0	1346.2	1217.6
42.5°	1399.1	1180.9	1190.0	1215.4	1098.1
45°	1314.1	1111.9	1118.9	1026.9	1006.3
47.5°	1219.9	1040.8	1043.0	852.3	976.4
50°	1107.4	967.2	958.0	730.6	974.1
52.5°	1008.5	886.8	859.3	661.7	884.5
55°	912.0	801.8	742.1	608.8	820.2
57.5°	827.0	691.5	634.1	546.8	806.4
60°	748.9	583.6	539.9	480.2	739.8
62.5°	684.7	503.1	493.9	434.2	670.8
65°	615.7	448.0	445.7	395.2	569.8
67.5°	549.1	411.2	409.0	358.4	434.2
70°	477.8	372.2	367.6	319.3	321.6
72.5°	404.3	328.6	324.0	287.2	266.5
75°	330.8	278.0	275.7	250.5	216.0
77.5°	259.6	220.6	225.1	202.2	158.5
80°	186.1	160.8	165.4	144.7	119.5
82.5°	124.1	105.7	110.2	91.9	80.4
85°	68.9	59.7	62.0	48.2	36.7
87.5°	32.1	27.6	27.6	18.4	11.5
90°	6.0	3.8	3.5	2.4	1.4
92.5°	36.9	26.2	23.9	14.7	5.4
95°	90.8	51.1	46.9	30.0	13.0
97.5°	122.3	56.1	52.4	37.5	22.5
100°	133.8	60.4	57.0	43.4	30.0
102.5°	139.0	64.6	61.5	48.9	36.2
105°	142.9	70.9	68.2	57.5	46.8
107.5°	143.6	80.1	77.6	67.6	57.7
110°	142.6	85.3	83.0	74.0	65.0



TEST NUMBER: P934163

CATALOG NUMBER: SQ4-FA-025U-125D-93050-1D-UNV-STD-W-6-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	142.6	91.5	89.3	80.8	72.2
115°	143.9	100.9	98.9	91.1	83.1
117.5°	146.5	110.0	108.2	101.0	93.9
120°	148.8	115.3	113.6	106.9	100.1
122.5°	151.9	121.6	119.8	113.1	106.2
125°	156.1	129.6	128.1	121.8	115.6
127.5°	160.3	137.3	135.8	129.4	123.2
130°	163.4	142.5	140.8	134.1	127.3
132.5°	165.9	146.7	145.0	138.3	131.5
135°	168.6	151.6	150.1	143.9	137.8
137.5°	172.7	157.9	156.3	150.3	144.2
140°	175.2	162.1	160.7	155.1	149.4
142.5°	177.2	165.2	163.9	158.7	153.5
145°	180.0	170.0	168.8	164.3	159.8
147.5°	184.0	176.0	174.9	170.4	166.0
150°	186.1	179.1	178.1	174.1	170.1
152.5°	187.5	181.1	180.4	177.3	174.3
155°	190.4	185.6	185.1	182.8	180.6
157.5°	193.4	190.1	189.5	187.4	185.2
160°	194.8	192.2	191.7	190.1	188.4
162.5°	196.2	194.3	194.0	192.7	191.4
165°	198.3	197.4	197.1	196.0	194.9
167.5°	200.0	199.2	199.0	198.5	198.0
170°	201.3	201.2	201.1	200.6	200.0
172.5°	201.4	201.4	201.4	201.2	201.1
175°	202.2	202.7	202.7	202.7	202.7
177.5°	202.3	202.7	202.7	202.7	202.7
180°	202.7	202.7	202.7	202.7	202.7



TEST NUMBER: P934163
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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	16.83	18.09	17.44	18.71	19.42	19.65	20.91	20.27	21.54	22.25
	3H	17.33	18.47	17.96	19.10	19.85	21.02	22.16	21.65	22.79	23.54
	4H	17.54	18.61	18.19	19.26	20.02	21.49	22.55	22.13	23.20	23.96
	6H	17.68	18.67	18.34	19.33	20.10	21.79	22.77	22.45	23.43	24.21
	8H	17.69	18.63	18.37	19.31	20.09	21.87	22.81	22.55	23.49	24.27
	12H	17.68	18.58	18.36	19.25	20.06	21.92	22.82	22.60	23.50	24.30
4H	2H	17.91	18.97	18.56	19.62	20.38	20.11	21.18	20.76	21.82	22.58
	3H	18.97	19.86	19.63	20.55	21.33	21.65	22.54	22.31	23.22	24.00
	4H	19.26	20.07	19.94	20.76	21.57	22.19	23.00	22.87	23.69	24.50
	6H	19.41	20.11	20.11	20.82	21.65	22.58	23.28	23.28	23.99	24.82
	8H	19.42	20.08	20.13	20.79	21.62	22.69	23.35	23.40	24.06	24.89
	12H	19.41	20.00	20.14	20.74	21.57	22.77	23.36	23.49	24.09	24.93
8H	4H	19.75	20.40	20.45	21.11	21.95	22.35	23.00	23.05	23.72	24.55
	6H	20.02	20.57	20.76	21.32	22.16	22.80	23.34	23.54	24.10	24.93
	8H	20.07	20.55	20.82	21.31	22.16	22.95	23.44	23.70	24.20	25.05
	12H	20.07	20.50	20.82	21.25	22.16	23.07	23.50	23.82	24.24	25.16
12H	4H	19.77	20.36	20.50	21.10	21.93	22.33	22.92	23.06	23.66	24.50
	6H	20.09	20.57	20.84	21.33	22.18	22.80	23.28	23.55	24.04	24.89
	8H	20.17	20.60	20.92	21.35	22.26	22.98	23.41	23.73	24.15	25.07