

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: P934561

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934561
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

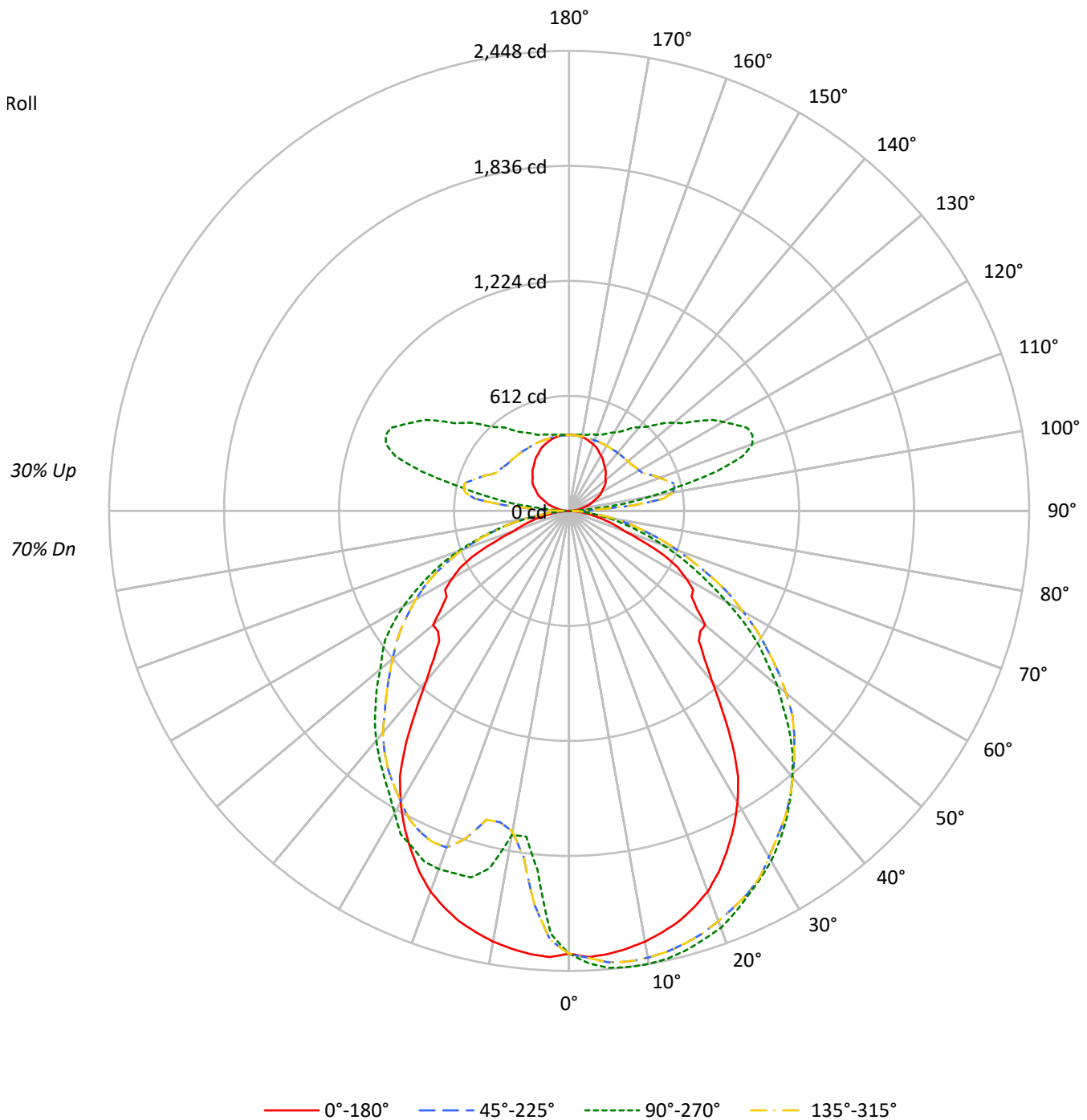
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8733.8 lumens
Efficiency: N/A
Efficacy: 104.0 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): 84
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14576	14576	14576	14576
5°	14680	14714	14680	11570
10°	14576	14494	14576	10362
15°	14413	14181	14413	11841
20°	14106	13808	14106	11865
25°	13483	13266	13483	11614
30°	12681	12815	12681	11062
35°	11299	12245	11299	10455
40°	9410	11574	9410	9997
45°	8402	10790	8402	9470
50°	8919	9853	8919	8941
55°	8383	8844	8383	8634
60°	8632	7511	8632	7909
65°	7814	6209	7814	6941
70°	5398	4949	5398	5818
75°	4716	3658	4716	4380
80°	3772	2418	3772	2632
85°	2128	1280	2128	1089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	2.4
10°-20°	603.9	6.9
20°-30°	933.5	10.7
30°-40°	1114.4	12.8
40°-50°	1121.0	12.8
50°-60°	975.4	11.2
60°-70°	691.6	7.9
70°-80°	365.9	4.2
80°-90°	92.7	1.1
90°-100°	197.2	2.3
100°-110°	518.5	5.9
110°-120°	537.6	6.2
120°-130°	431.2	4.9
130°-140°	338.4	3.9
140°-150°	259.7	3.0
150°-160°	187.0	2.1
160°-170°	114.4	1.3
170°-180°	38.7	0.4
0°-30°	1750.1	20.0
0°-40°	2864.6	32.8
0°-60°	4960.9	56.8
0°-90°	6111.0	70.0
90°-120°	1253.4	14.4
90°-150°	2282.7	26.1
90°-180°	2623.0	30.0
0°-180°	8733.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2356	2356	2356	2356	2356	
5°	2368	2441	2368	1919	2368	225
15°	2260	2419	2260	2020	2260	636
25°	1991	2256	1991	1975	1991	914
35°	1514	2013	1514	1719	1514	936
45°	976	1659	976	1456	976	782
55°	796	1224	796	1195	796	731
65°	553	738	553	825	553	528
75°	210	350	210	419	210	220
85°	36	89	36	76	36	48
90°	3	10	3	10	3	4
95°	26	119	26	119	26	29
105°	94	812	94	812	94	99
115°	166	1045	166	1045	166	164
125°	231	832	231	832	231	205
135°	275	646	275	646	275	213
145°	319	524	319	524	319	200
155°	361	451	361	451	361	166
165°	389	420	389	420	389	110
175°	405	407	405	407	405	38
180°	405	405	405	405	405	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2376.3	2376.3	2389.8	2394.2	2394.2	2387.5	2380.8	2387.5	2407.6	2414.3	2412.0
5°	2367.5	2385.3	2409.8	2414.3	2418.8	2416.5	2412.0	2416.5	2438.8	2443.3	2445.5
7.5°	2349.6	2383.0	2414.3	2420.9	2427.6	2420.9	2418.8	2423.1	2445.5	2449.9	2449.9
10°	2327.3	2374.1	2409.8	2414.3	2420.9	2414.3	2414.3	2423.1	2445.5	2449.9	2452.1
12.5°	2296.1	2360.8	2394.2	2398.6	2407.6	2405.3	2403.1	2412.0	2434.3	2438.8	2438.8
15°	2260.5	2336.2	2367.5	2371.9	2387.5	2383.0	2383.0	2392.0	2416.5	2423.1	2420.9
17.5°	2211.4	2305.0	2340.7	2347.3	2358.5	2356.3	2358.5	2367.5	2389.8	2394.2	2396.4
20°	2155.7	2262.7	2305.0	2311.7	2322.8	2322.8	2322.8	2334.0	2356.3	2365.2	2365.2
22.5°	2079.9	2218.1	2262.7	2267.2	2280.5	2280.5	2285.0	2300.5	2320.6	2322.8	2322.8
25°	1990.7	2169.1	2206.9	2220.3	2233.7	2240.4	2247.0	2256.0	2262.7	2260.5	2262.7
27.5°	1897.0	2106.6	2155.7	2164.6	2182.4	2189.1	2198.0	2200.2	2202.5	2209.2	2204.7
30°	1792.3	2019.7	2093.3	2102.1	2131.1	2135.6	2126.7	2131.1	2142.3	2146.7	2151.2
32.5°	1674.1	1890.4	2028.6	2048.6	2075.4	2062.1	2059.8	2066.5	2084.3	2084.3	2088.8
35°	1513.7	1790.1	1968.4	1986.3	2006.3	1990.7	1999.6	2001.8	2013.0	2019.7	2017.5
37.5°	1337.6	1703.1	1906.0	1919.4	1935.0	1914.9	1928.3	1935.0	1943.9	1939.5	1939.5
40°	1181.5	1567.2	1832.4	1841.4	1854.7	1839.1	1852.5	1857.0	1861.4	1857.0	1854.7
42.5°	1065.6	1417.8	1754.4	1765.6	1756.6	1767.8	1772.2	1781.2	1774.4	1765.6	1765.6
45°	976.4	1377.7	1669.7	1683.1	1669.7	1687.6	1694.2	1694.2	1674.1	1669.7	1667.5
47.5°	947.4	1297.4	1585.0	1585.0	1578.3	1600.6	1611.8	1596.1	1576.0	1569.3	1569.3
50°	945.2	1208.3	1469.0	1460.2	1491.4	1518.1	1507.0	1491.4	1475.7	1451.2	1451.2
52.5°	858.3	1099.0	1319.7	1353.1	1402.2	1417.8	1399.9	1384.4	1357.6	1346.4	1337.6
55°	795.8	985.3	1183.7	1250.6	1301.9	1321.9	1288.5	1272.9	1232.8	1226.1	1221.6
57.5°	782.5	820.3	1058.9	1143.6	1206.0	1203.8	1183.7	1154.7	1121.3	1114.7	1112.4
60°	717.8	592.9	925.1	1025.4	1090.1	1083.4	1065.6	1038.9	1007.6	1003.2	998.7
62.5°	650.9	430.3	773.5	887.3	978.6	976.4	960.8	920.6	898.4	887.3	878.3
65°	552.9	361.2	550.6	737.9	869.4	873.8	840.4	811.5	787.0	773.5	771.3
67.5°	421.3	294.2	372.3	615.2	764.6	760.2	717.8	704.4	673.2	666.5	653.2
70°	312.1	196.2	258.6	499.3	662.1	650.9	617.5	601.9	572.9	557.3	548.4
72.5°	258.6	158.3	189.4	387.9	557.3	543.9	514.9	497.1	472.6	459.3	450.3
75°	209.6	167.2	144.9	287.6	452.5	443.6	416.8	399.0	379.0	361.2	363.4
77.5°	153.8	156.1	115.9	211.8	358.9	345.5	329.9	307.7	298.7	280.9	280.9
80°	115.9	122.6	87.0	144.9	258.6	258.6	245.2	229.6	214.0	205.1	205.1
82.5°	78.0	78.0	64.6	91.4	176.1	169.4	160.5	156.1	147.1	142.6	142.6
85°	35.7	44.6	40.1	55.8	95.8	100.3	100.3	95.8	93.6	89.1	91.4
87.5°	11.2	20.0	24.5	31.2	49.0	51.3	53.5	53.5	53.5	55.8	55.8
90°	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7	10.3	10.3
92.5°	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1	51.6	49.5
95°	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0	175.1	168.9
97.5°	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0	404.3	392.4
100°	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3	567.8	553.8
102.5°	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2	707.4	695.4
105°	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2	870.3	863.8
107.5°	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8	955.0	956.6
110°	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4	976.8	983.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9	962.9	973.2
115°	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7	915.9	930.3
117.5°	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6	851.0	867.0
120°	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7	807.2	822.8
122.5°	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6	763.6	778.9
125°	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7	705.7	719.8
127.5°	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8	659.3	671.1
130°	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6	630.0	641.0
132.5°	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3	605.0	614.8
135°	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7	569.7	578.2
137.5°	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0	543.6	550.5
140°	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5	522.7	529.2
142.5°	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7	508.0	513.6
145°	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2	486.1	490.3
147.5°	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9	467.6	471.1
150°	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8	457.0	459.8
152.5°	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2	448.5	450.7
155°	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5	438.5	439.9
157.5°	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7	429.8	430.8
160°	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8	425.5	426.1
162.5°	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1	421.4	421.9
165°	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9	415.2	415.8
167.5°	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0	412.5	412.7
170°	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0	412.5	412.5
172.5°	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5	410.3	410.1
175°	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6	407.3	407.3
177.5°	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4	406.7	406.5
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2416.5	2409.8	2416.5	2412.0	2414.3	2407.6	2387.5	2380.8	2387.5	2394.2	2394.2
5°	2445.5	2441.0	2445.5	2445.5	2443.3	2438.8	2416.5	2412.0	2416.5	2418.8	2414.3
7.5°	2454.4	2447.7	2454.4	2449.9	2449.9	2445.5	2423.1	2418.8	2420.9	2427.6	2420.9
10°	2454.4	2447.7	2454.4	2452.1	2449.9	2445.5	2423.1	2414.3	2414.3	2420.9	2414.3
12.5°	2443.3	2438.8	2443.3	2438.8	2438.8	2434.3	2412.0	2403.1	2405.3	2407.6	2398.6
15°	2425.4	2418.8	2425.4	2420.9	2423.1	2416.5	2392.0	2383.0	2383.0	2387.5	2371.9
17.5°	2398.6	2389.8	2398.6	2396.4	2394.2	2389.8	2367.5	2358.5	2356.3	2358.5	2347.3
20°	2367.5	2360.8	2367.5	2365.2	2365.2	2356.3	2334.0	2322.8	2322.8	2322.8	2311.7
22.5°	2318.4	2311.7	2318.4	2322.8	2322.8	2320.6	2300.5	2285.0	2280.5	2280.5	2267.2
25°	2262.7	2256.0	2262.7	2262.7	2260.5	2262.7	2256.0	2247.0	2240.4	2233.7	2220.3
27.5°	2209.2	2204.7	2209.2	2204.7	2209.2	2202.5	2200.2	2198.0	2189.1	2182.4	2164.6
30°	2155.7	2151.2	2155.7	2151.2	2146.7	2142.3	2131.1	2126.7	2135.6	2131.1	2102.1
32.5°	2088.8	2084.3	2088.8	2088.8	2084.3	2084.3	2066.5	2059.8	2062.1	2075.4	2048.6
35°	2019.7	2013.0	2019.7	2017.5	2019.7	2013.0	2001.8	1999.6	1990.7	2006.3	1986.3
37.5°	1939.5	1932.7	1939.5	1939.5	1939.5	1943.9	1935.0	1928.3	1914.9	1935.0	1919.4
40°	1857.0	1848.0	1857.0	1854.7	1857.0	1861.4	1857.0	1852.5	1839.1	1854.7	1841.4
42.5°	1763.4	1761.1	1763.4	1765.6	1765.6	1774.4	1781.2	1772.2	1767.8	1756.6	1765.6
45°	1663.0	1658.6	1663.0	1667.5	1669.7	1674.1	1694.2	1694.2	1687.6	1669.7	1683.1
47.5°	1556.0	1544.8	1556.0	1569.3	1569.3	1576.0	1596.1	1611.8	1600.6	1578.3	1585.0
50°	1442.3	1444.5	1442.3	1451.2	1451.2	1475.7	1491.4	1507.0	1518.1	1491.4	1460.2
52.5°	1330.9	1328.6	1330.9	1337.6	1346.4	1357.6	1384.4	1399.9	1417.8	1402.2	1353.1
55°	1219.3	1223.8	1219.3	1221.6	1226.1	1232.8	1272.9	1288.5	1321.9	1301.9	1250.6
57.5°	1107.9	1101.2	1107.9	1112.4	1114.7	1121.3	1154.7	1183.7	1203.8	1206.0	1143.6
60°	978.6	969.7	978.6	998.7	1003.2	1007.6	1038.9	1065.6	1083.4	1090.1	1025.4
62.5°	865.0	849.3	865.0	878.3	887.3	898.4	920.6	960.8	976.4	978.6	887.3
65°	744.5	737.9	744.5	771.3	773.5	787.0	811.5	840.4	873.8	869.4	737.9
67.5°	635.4	635.4	635.4	653.2	666.5	673.2	704.4	717.8	760.2	764.6	615.2
70°	535.0	532.8	535.0	548.4	557.3	572.9	601.9	617.5	650.9	662.1	499.3
72.5°	439.2	437.0	439.2	450.3	459.3	472.6	497.1	514.9	543.9	557.3	387.9
75°	354.5	350.0	354.5	363.4	361.2	379.0	399.0	416.8	443.6	452.5	287.6
77.5°	272.0	272.0	272.0	280.9	280.9	298.7	307.7	329.9	345.5	358.9	211.8
80°	202.9	200.6	202.9	205.1	205.1	214.0	229.6	245.2	258.6	258.6	144.9
82.5°	142.6	138.2	142.6	142.6	142.6	147.1	156.1	160.5	169.4	176.1	91.4
85°	89.1	89.1	89.1	91.4	89.1	93.6	95.8	100.3	100.3	95.8	55.8
87.5°	58.0	55.8	58.0	55.8	55.8	53.5	53.5	53.5	51.3	49.0	31.2
90°	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7	11.9	7.6
92.5°	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1	73.7	52.4
95°	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9	181.3	102.1
97.5°	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4	244.3	112.2
100°	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5	267.1	120.6
102.5°	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8	277.6	129.0
105°	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3	285.4	141.5
107.5°	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0	286.9	159.9
110°	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2	284.7	170.2



TEST NUMBER: P934561

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8	284.7	182.8
115°	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9	287.4	201.5
117.5°	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1	292.7	219.7
120°	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1	297.0	230.3
122.5°	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0	303.3	242.8
125°	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3	311.7	258.7
127.5°	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4	320.1	274.3
130°	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9	326.3	284.6
132.5°	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3	331.3	293.0
135°	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0	336.7	302.8
137.5°	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3	344.8	315.2
140°	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7	349.8	323.7
142.5°	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1	354.0	329.9
145°	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1	359.5	339.5
147.5°	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7	367.4	351.4
150°	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1	371.6	357.6
152.5°	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0	374.2	361.7
155°	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0	380.2	370.6
157.5°	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1	386.2	379.6
160°	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9	388.9	383.6
162.5°	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9	391.8	388.0
165°	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3	396.0	394.3
167.5°	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2	399.3	397.8
170°	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1	402.0	401.9
172.5°	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7	403.8	404.6
177.5°	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1	404.0	404.6
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934561

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2389.8	2376.3	2376.3	2354.1	2345.2	2338.5	2327.3	2293.9	2285.0	2276.0	2289.4
5°	2409.8	2385.3	2367.5	2327.3	2293.9	2280.5	2238.2	2157.9	2104.4	2064.3	2042.0
7.5°	2414.3	2383.0	2349.6	2287.2	2206.9	2171.2	2042.0	1894.8	1854.7	1819.0	1796.7
10°	2409.8	2374.1	2327.3	2233.7	2044.2	1981.8	1852.5	1756.6	1732.1	1725.4	1732.1
12.5°	2394.2	2360.8	2296.1	2140.1	1874.8	1832.4	1756.6	1700.9	1696.4	1707.6	1767.8
15°	2367.5	2336.2	2260.5	2015.3	1781.2	1749.9	1696.4	1676.4	1700.9	1778.9	1959.5
17.5°	2340.7	2305.0	2211.4	1892.7	1709.8	1687.6	1649.6	1689.8	1828.0	1932.7	1993.0
20°	2305.0	2262.7	2155.7	1803.4	1658.6	1638.5	1620.6	1801.2	1906.0	1943.9	1977.3
22.5°	2262.7	2218.1	2079.9	1741.1	1605.0	1589.5	1600.6	1863.7	1906.0	1932.7	1961.7
25°	2206.9	2169.1	1990.7	1692.0	1562.7	1544.8	1587.2	1857.0	1881.5	1888.2	1946.1
27.5°	2155.7	2106.6	1897.0	1647.4	1511.4	1504.7	1598.3	1828.0	1845.8	1852.5	1914.9
30°	2093.3	2019.7	1792.3	1600.6	1457.9	1455.7	1600.6	1792.3	1787.9	1805.7	1868.1
32.5°	2028.6	1890.4	1674.1	1542.6	1406.7	1404.4	1585.0	1738.8	1734.4	1758.9	1805.7
35°	1968.4	1790.1	1513.7	1475.7	1342.0	1344.2	1547.1	1676.4	1678.6	1700.9	1729.9
37.5°	1906.0	1703.1	1337.6	1402.2	1279.6	1279.6	1495.8	1618.4	1614.0	1620.6	1660.8
40°	1832.4	1567.2	1181.5	1306.3	1221.6	1215.0	1433.4	1556.0	1540.4	1538.2	1593.9
42.5°	1754.4	1417.8	1065.6	1179.3	1154.7	1145.8	1357.6	1480.2	1451.2	1457.9	1529.2
45°	1669.7	1377.7	976.4	996.4	1085.7	1078.9	1275.1	1393.2	1373.2	1391.1	1464.6
47.5°	1585.0	1297.4	947.4	827.0	1012.1	1009.9	1183.7	1308.6	1297.4	1315.3	1393.2
50°	1469.0	1208.3	945.2	708.9	929.6	938.5	1074.5	1226.1	1226.1	1241.7	1324.1
52.5°	1319.7	1099.0	858.3	642.0	833.8	860.5	978.6	1154.7	1159.2	1174.8	1248.3
55°	1183.7	985.3	795.8	590.7	720.0	778.0	885.0	1081.2	1090.1	1105.7	1172.5
57.5°	1058.9	820.3	782.5	530.6	615.2	671.0	802.5	1009.9	1014.3	1027.7	1092.3
60°	925.1	592.9	717.8	465.9	523.9	566.2	726.7	925.1	940.7	949.6	1005.4
62.5°	773.5	430.3	650.9	421.3	479.3	488.2	664.3	844.8	865.0	871.6	905.1
65°	550.6	361.2	552.9	383.5	432.5	434.7	597.4	762.4	780.2	791.3	815.9
67.5°	372.3	294.2	421.3	347.7	396.8	399.0	532.8	666.5	691.0	700.0	715.6
70°	258.6	196.2	312.1	309.9	356.7	361.2	463.7	579.6	601.9	608.6	617.5
72.5°	189.4	158.3	258.6	278.7	314.3	318.8	392.3	481.5	503.8	510.5	514.9
75°	144.9	167.2	209.6	243.0	267.5	269.7	321.0	392.3	408.0	412.5	414.6
77.5°	115.9	156.1	153.8	196.2	218.4	214.0	251.9	303.2	316.5	316.5	316.5
80°	87.0	122.6	115.9	140.4	160.5	156.1	180.6	216.2	220.7	225.1	222.9
82.5°	64.6	78.0	78.0	89.1	107.0	102.6	120.4	140.4	140.4	140.4	144.9
85°	40.1	44.6	35.7	46.8	60.2	58.0	66.8	75.8	78.0	78.0	73.6
87.5°	24.5	20.0	11.2	17.8	26.8	26.8	31.2	33.5	31.2	31.2	31.2
90°	7.1	4.9	2.7	4.9	7.1	7.6	11.9	17.7	20.6	18.4	13.7
92.5°	47.8	29.3	10.9	29.3	47.8	52.4	73.7	102.1	116.2	101.8	73.1
95°	93.6	59.8	26.1	59.8	93.6	102.1	181.3	286.9	339.7	303.2	230.0
97.5°	104.7	74.9	45.1	74.9	104.7	112.2	244.3	420.4	508.4	485.3	439.0
100°	113.8	86.8	59.7	86.8	113.8	120.6	267.1	462.5	560.2	561.8	565.3
102.5°	122.7	97.5	72.2	97.5	122.7	129.0	277.6	475.8	574.8	604.3	663.2
105°	136.1	114.8	93.5	114.8	136.1	141.5	285.4	477.3	573.2	639.2	771.2
107.5°	154.9	135.1	115.1	135.1	154.9	159.9	286.9	456.0	540.6	632.6	816.8
110°	165.7	147.7	129.8	147.7	165.7	170.2	284.7	437.2	513.5	616.4	822.4



TEST NUMBER: P934561

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.5	161.3	144.2	161.3	178.5	182.8	284.7	420.8	488.8	594.2	804.9
115°	197.5	181.7	165.9	181.7	197.5	201.5	287.4	401.9	459.2	560.7	763.7
117.5°	216.1	201.7	187.3	201.7	216.1	219.7	292.7	390.1	438.8	530.4	713.6
120°	226.9	213.3	199.8	213.3	226.9	230.3	297.0	386.1	430.6	514.3	681.7
122.5°	239.3	225.7	212.1	225.7	239.3	242.8	303.3	384.0	424.4	499.8	650.6
125°	255.7	243.2	230.8	243.2	255.7	258.7	311.7	382.3	417.6	481.7	609.7
127.5°	271.1	258.6	246.0	258.6	271.1	274.3	320.1	381.4	411.9	466.9	576.8
130°	281.2	267.7	254.2	267.7	281.2	284.6	326.3	381.9	409.7	458.6	556.6
132.5°	289.7	276.1	262.6	276.1	289.7	293.0	331.3	382.3	407.9	451.7	539.3
135°	299.7	287.4	275.1	287.4	299.7	302.8	336.7	382.0	404.6	441.3	514.7
137.5°	312.1	300.0	287.8	300.0	312.1	315.2	344.8	384.3	404.0	435.0	497.0
140°	320.8	309.7	298.4	309.7	320.8	323.7	349.8	384.7	402.2	429.0	482.5
142.5°	327.3	316.9	306.5	316.9	327.3	329.9	354.0	386.1	402.2	425.7	472.7
145°	337.2	328.1	319.1	328.1	337.2	339.5	359.5	386.1	399.5	418.7	457.2
147.5°	349.2	340.3	331.6	340.3	349.2	351.4	367.4	388.7	399.5	414.6	444.9
150°	355.6	347.7	339.7	347.7	355.6	357.6	371.6	390.1	399.5	412.3	437.8
152.5°	360.2	354.1	348.1	354.1	360.2	361.7	374.2	391.0	399.5	410.3	432.2
155°	369.5	365.1	360.6	365.1	369.5	370.6	380.2	393.0	399.5	408.1	425.5
157.5°	378.5	374.2	369.9	374.2	378.5	379.6	386.2	395.1	399.5	406.2	419.7
160°	382.8	379.4	376.1	379.4	382.8	383.6	388.9	395.9	399.5	405.2	416.8
162.5°	387.4	384.9	382.3	384.9	387.4	388.0	391.8	396.9	399.5	404.4	414.1
165°	393.7	391.4	389.1	391.4	393.7	394.3	396.0	398.3	399.5	403.0	409.9
167.5°	397.5	396.4	395.3	396.4	397.5	397.8	399.3	401.2	402.2	404.5	409.0
170°	401.6	400.5	399.5	400.5	401.6	401.9	402.0	402.1	402.2	404.5	409.0
172.5°	402.1	401.9	401.6	401.9	402.1	402.2	402.2	402.2	402.2	403.9	407.5
175°	404.6	404.6	404.6	404.6	404.6	404.6	403.8	402.7	402.2	403.3	405.6
177.5°	404.6	404.6	404.6	404.6	404.6	404.6	404.0	403.1	402.7	403.6	405.4
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934561

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2273.8	2267.2	2276.0	2251.5	2276.0	2267.2	2273.8	2289.4	2276.0	2285.0	2293.9
5°	1995.1	1984.0	1948.3	1919.4	1948.3	1984.0	1995.1	2042.0	2064.3	2104.4	2157.9
7.5°	1783.4	1774.4	1765.6	1747.7	1765.6	1774.4	1783.4	1796.7	1819.0	1854.7	1894.8
10°	1736.6	1738.8	1752.2	1749.9	1752.2	1738.8	1736.6	1732.1	1725.4	1732.1	1756.6
12.5°	1857.0	1877.0	1950.6	1946.1	1950.6	1877.0	1857.0	1767.8	1707.6	1696.4	1700.9
15°	1995.1	2001.8	2017.5	2019.7	2017.5	2001.8	1995.1	1959.5	1778.9	1700.9	1676.4
17.5°	2008.5	2010.8	2021.9	2021.9	2021.9	2010.8	2008.5	1993.0	1932.7	1828.0	1689.8
20°	1997.4	2001.8	2024.1	2028.6	2024.1	2001.8	1997.4	1977.3	1943.9	1906.0	1801.2
22.5°	1993.0	2001.8	2019.7	2017.5	2019.7	2001.8	1993.0	1961.7	1932.7	1906.0	1863.7
25°	1970.6	1970.6	1972.8	1975.1	1972.8	1970.6	1970.6	1946.1	1888.2	1881.5	1857.0
27.5°	1923.8	1928.3	1941.7	1939.5	1941.7	1928.3	1923.8	1914.9	1852.5	1845.8	1828.0
30°	1881.5	1877.0	1865.9	1857.0	1865.9	1877.0	1881.5	1868.1	1805.7	1787.9	1792.3
32.5°	1810.2	1799.0	1787.9	1781.2	1787.9	1799.0	1810.2	1805.7	1758.9	1734.4	1738.8
35°	1725.4	1727.6	1725.4	1718.7	1725.4	1727.6	1725.4	1729.9	1700.9	1678.6	1676.4
37.5°	1665.3	1669.7	1667.5	1658.6	1667.5	1669.7	1665.3	1660.8	1620.6	1614.0	1618.4
40°	1602.8	1605.0	1602.8	1596.1	1602.8	1605.0	1602.8	1593.9	1538.2	1540.4	1556.0
42.5°	1542.6	1540.4	1533.7	1529.2	1533.7	1540.4	1542.6	1529.2	1457.9	1451.2	1480.2
45°	1473.5	1475.7	1462.4	1455.7	1462.4	1475.7	1473.5	1464.6	1391.1	1373.2	1393.2
47.5°	1404.4	1404.4	1393.2	1386.6	1393.2	1404.4	1404.4	1393.2	1315.3	1297.4	1308.6
50°	1330.9	1328.6	1313.1	1310.8	1313.1	1328.6	1330.9	1324.1	1241.7	1226.1	1226.1
52.5°	1246.1	1246.1	1248.3	1252.8	1248.3	1246.1	1246.1	1248.3	1174.8	1159.2	1154.7
55°	1172.5	1174.8	1190.4	1194.8	1190.4	1174.8	1172.5	1172.5	1105.7	1090.1	1081.2
57.5°	1096.8	1096.8	1107.9	1107.9	1107.9	1096.8	1096.8	1092.3	1027.7	1014.3	1009.9
60°	1009.9	1014.3	1023.2	1021.0	1023.2	1014.3	1009.9	1005.4	949.6	940.7	925.1
62.5°	918.4	922.9	925.1	920.6	925.1	922.9	918.4	905.1	871.6	865.0	844.8
65°	822.6	827.0	829.3	824.8	829.3	827.0	822.6	815.9	791.3	780.2	762.4
67.5°	724.5	722.2	720.0	729.0	720.0	722.2	724.5	715.6	700.0	691.0	666.5
70°	624.2	624.2	621.9	626.4	621.9	624.2	624.2	617.5	608.6	601.9	579.6
72.5°	517.1	514.9	523.9	517.1	523.9	514.9	517.1	514.9	510.5	503.8	481.5
75°	412.5	416.8	412.5	419.1	412.5	416.8	412.5	414.6	412.5	408.0	392.3
77.5°	314.3	318.8	314.3	314.3	314.3	318.8	314.3	316.5	316.5	316.5	303.2
80°	222.9	220.7	220.7	218.4	220.7	220.7	222.9	222.9	225.1	220.7	216.2
82.5°	142.6	140.4	140.4	144.9	140.4	140.4	142.6	144.9	140.4	140.4	140.4
85°	78.0	80.3	75.8	75.8	75.8	80.3	78.0	73.6	78.0	78.0	75.8
87.5°	29.0	26.8	26.8	26.8	26.8	26.8	29.0	31.2	31.2	31.2	33.5
90°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.7	18.4	20.6	17.7
92.5°	51.6	49.5	41.3	33.1	41.3	49.5	51.6	73.1	101.8	116.2	102.1
95°	175.1	168.9	144.0	119.2	144.0	168.9	175.1	230.0	303.2	339.7	286.9
97.5°	404.3	392.4	345.2	297.9	345.2	392.4	404.3	439.0	485.3	508.4	420.4
100°	567.8	553.8	497.4	441.0	497.4	553.8	567.8	565.3	561.8	560.2	462.5
102.5°	707.4	695.4	647.0	598.7	647.0	695.4	707.4	663.2	604.3	574.8	475.8
105°	870.3	863.8	837.9	811.9	837.9	863.8	870.3	771.2	639.2	573.2	477.3
107.5°	955.0	956.6	962.8	969.1	962.8	956.6	955.0	816.8	632.6	540.6	456.0
110°	976.8	983.5	1010.5	1037.5	1010.5	983.5	976.8	822.4	616.4	513.5	437.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	962.9	973.2	1014.8	1056.2	1014.8	973.2	962.9	804.9	594.2	488.8	420.8
115°	915.9	930.3	987.8	1045.4	987.8	930.3	915.9	763.7	560.7	459.2	401.9
117.5°	851.0	867.0	930.8	994.7	930.8	867.0	851.0	713.6	530.4	438.8	390.1
120°	807.2	822.8	884.8	946.9	884.8	822.8	807.2	681.7	514.3	430.6	386.1
122.5°	763.6	778.9	840.1	901.2	840.1	778.9	763.6	650.6	499.8	424.4	384.0
125°	705.7	719.8	776.2	832.5	776.2	719.8	705.7	609.7	481.7	417.6	382.3
127.5°	659.3	671.1	718.7	766.3	718.7	671.1	659.3	576.8	466.9	411.9	381.4
130°	630.0	641.0	684.9	728.8	684.9	641.0	630.0	556.6	458.6	409.7	381.9
132.5°	605.0	614.8	654.2	693.5	654.2	614.8	605.0	539.3	451.7	407.9	382.3
135°	569.7	578.2	612.1	646.0	612.1	578.2	569.7	514.7	441.3	404.6	382.0
137.5°	543.6	550.5	578.4	606.1	578.4	550.5	543.6	497.0	435.0	404.0	384.3
140°	522.7	529.2	555.1	581.1	555.1	529.2	522.7	482.5	429.0	402.2	384.7
142.5°	508.0	513.6	535.9	558.2	535.9	513.6	508.0	472.7	425.7	402.2	386.1
145°	486.1	490.3	507.2	524.1	507.2	490.3	486.1	457.2	418.7	399.5	386.1
147.5°	467.6	471.1	485.1	499.1	485.1	471.1	467.6	444.9	414.6	399.5	388.7
150°	457.0	459.8	471.2	482.5	471.2	459.8	457.0	437.8	412.3	399.5	390.1
152.5°	448.5	450.7	459.3	467.9	459.3	450.7	448.5	432.2	410.3	399.5	391.0
155°	438.5	439.9	445.6	451.3	445.6	439.9	438.5	425.5	408.1	399.5	393.0
157.5°	429.8	430.8	434.8	438.8	434.8	430.8	429.8	419.7	406.2	399.5	395.1
160°	425.5	426.1	428.3	430.6	428.3	426.1	425.5	416.8	405.2	399.5	395.9
162.5°	421.4	421.9	424.1	426.3	424.1	421.9	421.4	414.1	404.4	399.5	396.9
165°	415.2	415.8	418.1	420.4	418.1	415.8	415.2	409.9	403.0	399.5	398.3
167.5°	412.5	412.7	413.7	414.6	413.7	412.7	412.5	409.0	404.5	402.2	401.2
170°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	409.0	404.5	402.2	402.1
172.5°	410.3	410.1	409.2	408.4	409.2	410.1	410.3	407.5	403.9	402.2	402.2
175°	407.3	407.3	407.3	407.3	407.3	407.3	407.3	405.6	403.3	402.2	402.7
177.5°	406.7	406.5	405.6	404.6	405.6	406.5	406.7	405.4	403.6	402.7	403.1
180°	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6	404.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2327.3	2338.5	2345.2	2354.1	2376.3
5°	2238.2	2280.5	2293.9	2327.3	2367.5
7.5°	2042.0	2171.2	2206.9	2287.2	2349.6
10°	1852.5	1981.8	2044.2	2233.7	2327.3
12.5°	1756.6	1832.4	1874.8	2140.1	2296.1
15°	1696.4	1749.9	1781.2	2015.3	2260.5
17.5°	1649.6	1687.6	1709.8	1892.7	2211.4
20°	1620.6	1638.5	1658.6	1803.4	2155.7
22.5°	1600.6	1589.5	1605.0	1741.1	2079.9
25°	1587.2	1544.8	1562.7	1692.0	1990.7
27.5°	1598.3	1504.7	1511.4	1647.4	1897.0
30°	1600.6	1455.7	1457.9	1600.6	1792.3
32.5°	1585.0	1404.4	1406.7	1542.6	1674.1
35°	1547.1	1344.2	1342.0	1475.7	1513.7
37.5°	1495.8	1279.6	1279.6	1402.2	1337.6
40°	1433.4	1215.0	1221.6	1306.3	1181.5
42.5°	1357.6	1145.8	1154.7	1179.3	1065.6
45°	1275.1	1078.9	1085.7	996.4	976.4
47.5°	1183.7	1009.9	1012.1	827.0	947.4
50°	1074.5	938.5	929.6	708.9	945.2
52.5°	978.6	860.5	833.8	642.0	858.3
55°	885.0	778.0	720.0	590.7	795.8
57.5°	802.5	671.0	615.2	530.6	782.5
60°	726.7	566.2	523.9	465.9	717.8
62.5°	664.3	488.2	479.3	421.3	650.9
65°	597.4	434.7	432.5	383.5	552.9
67.5°	532.8	399.0	396.8	347.7	421.3
70°	463.7	361.2	356.7	309.9	312.1
72.5°	392.3	318.8	314.3	278.7	258.6
75°	321.0	269.7	267.5	243.0	209.6
77.5°	251.9	214.0	218.4	196.2	153.8
80°	180.6	156.1	160.5	140.4	115.9
82.5°	120.4	102.6	107.0	89.1	78.0
85°	66.8	58.0	60.2	46.8	35.7
87.5°	31.2	26.8	26.8	17.8	11.2
90°	11.9	7.6	7.1	4.9	2.7
92.5°	73.7	52.4	47.8	29.3	10.9
95°	181.3	102.1	93.6	59.8	26.1
97.5°	244.3	112.2	104.7	74.9	45.1
100°	267.1	120.6	113.8	86.8	59.7
102.5°	277.6	129.0	122.7	97.5	72.2
105°	285.4	141.5	136.1	114.8	93.5
107.5°	286.9	159.9	154.9	135.1	115.1
110°	284.7	170.2	165.7	147.7	129.8



TEST NUMBER: P934561

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	284.7	182.8	178.5	161.3	144.2
115°	287.4	201.5	197.5	181.7	165.9
117.5°	292.7	219.7	216.1	201.7	187.3
120°	297.0	230.3	226.9	213.3	199.8
122.5°	303.3	242.8	239.3	225.7	212.1
125°	311.7	258.7	255.7	243.2	230.8
127.5°	320.1	274.3	271.1	258.6	246.0
130°	326.3	284.6	281.2	267.7	254.2
132.5°	331.3	293.0	289.7	276.1	262.6
135°	336.7	302.8	299.7	287.4	275.1
137.5°	344.8	315.2	312.1	300.0	287.8
140°	349.8	323.7	320.8	309.7	298.4
142.5°	354.0	329.9	327.3	316.9	306.5
145°	359.5	339.5	337.2	328.1	319.1
147.5°	367.4	351.4	349.2	340.3	331.6
150°	371.6	357.6	355.6	347.7	339.7
152.5°	374.2	361.7	360.2	354.1	348.1
155°	380.2	370.6	369.5	365.1	360.6
157.5°	386.2	379.6	378.5	374.2	369.9
160°	388.9	383.6	382.8	379.4	376.1
162.5°	391.8	388.0	387.4	384.9	382.3
165°	396.0	394.3	393.7	391.4	389.1
167.5°	399.3	397.8	397.5	396.4	395.3
170°	402.0	401.9	401.6	400.5	399.5
172.5°	402.2	402.2	402.1	401.9	401.6
175°	403.8	404.6	404.6	404.6	404.6
177.5°	404.0	404.6	404.6	404.6	404.6
180°	404.6	404.6	404.6	404.6	404.6



TEST NUMBER: P934561
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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	15.78	16.85	16.54	17.64	18.59	18.60	19.68	19.37	20.46	21.42
	3H	16.27	17.24	17.05	18.03	19.02	19.96	20.93	20.74	21.72	22.71
	4H	16.47	17.38	17.27	18.19	19.18	20.42	21.33	21.21	22.13	23.13
	6H	16.60	17.44	17.41	18.26	19.27	20.71	21.55	21.52	22.36	23.37
	8H	16.61	17.41	17.43	18.24	19.25	20.79	21.59	21.61	22.42	23.43
	12H	16.59	17.35	17.41	18.18	19.21	20.84	21.60	21.66	22.42	23.46
4H	2H	16.84	17.75	17.64	18.55	19.55	19.04	19.95	19.84	20.75	21.75
	3H	17.88	18.64	18.69	19.48	20.49	20.56	21.32	21.37	22.16	23.17
	4H	18.17	18.86	18.99	19.70	20.74	21.10	21.79	21.92	22.63	23.67
	6H	18.30	18.90	19.15	19.76	20.81	21.47	22.07	22.32	22.93	23.98
	8H	18.32	18.87	19.16	19.73	20.79	21.58	22.14	22.43	23.00	24.06
	12H	18.29	18.79	19.16	19.67	20.74	21.65	22.15	22.52	23.03	24.09
8H	4H	18.64	19.19	19.48	20.05	21.11	21.24	21.80	22.09	22.65	23.71
	6H	18.91	19.37	19.78	20.27	21.33	21.68	22.15	22.56	23.04	24.10
	8H	18.95	19.36	19.84	20.26	21.33	21.84	22.25	22.72	23.14	24.22
	12H	18.95	19.31	19.83	20.19	21.32	21.94	22.30	22.83	23.19	24.32
12H	4H	18.65	19.16	19.52	20.03	21.10	21.21	21.72	22.08	22.59	23.66
	6H	18.97	19.38	19.85	20.27	21.35	21.68	22.09	22.57	22.99	24.06
	8H	19.05	19.41	19.93	20.29	21.42	21.85	22.21	22.74	23.10	24.23