

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: P934328

Luminaire Tested: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934328
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

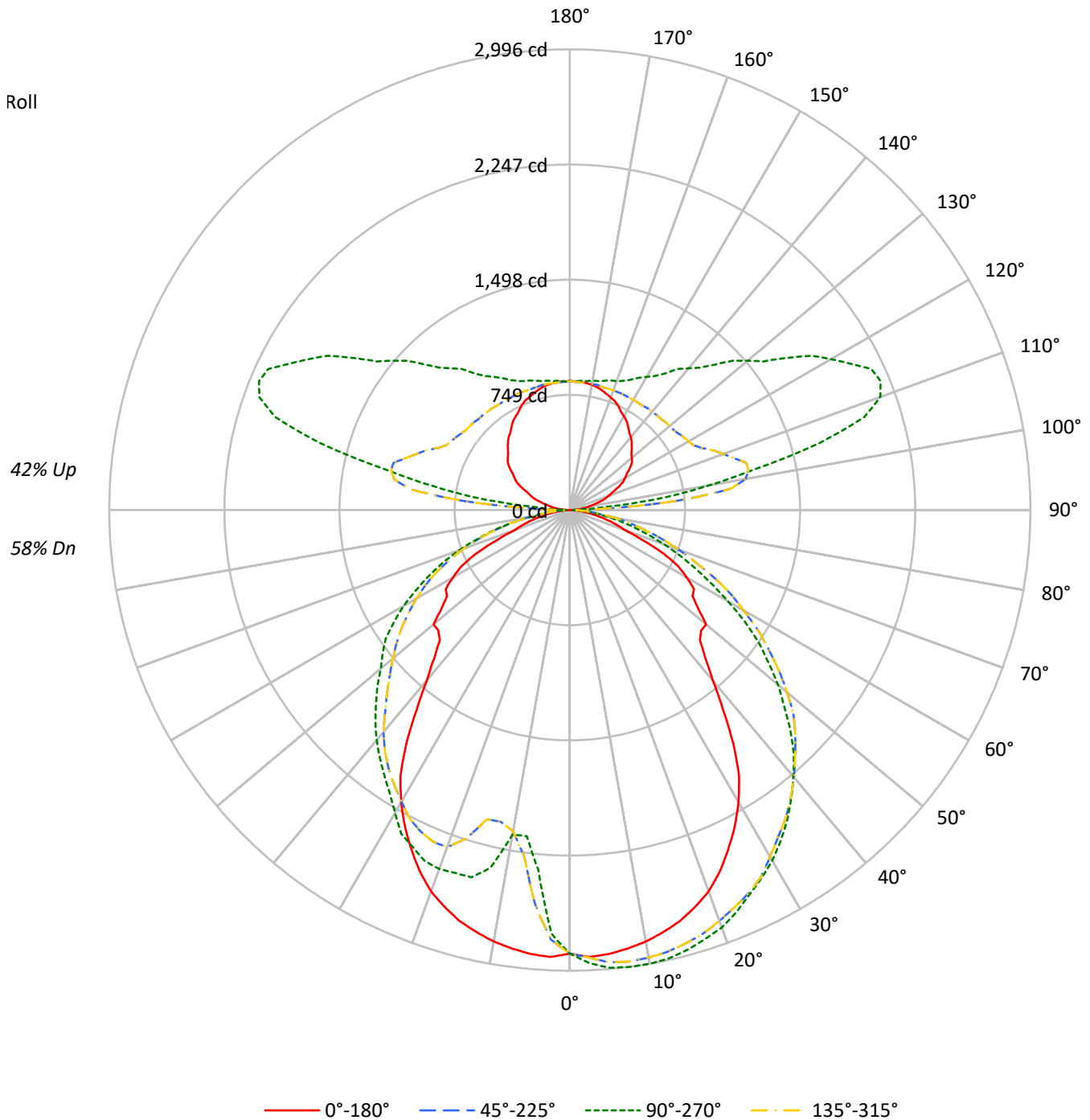
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12914.9 lumens
Efficiency: N/A
Efficacy: 118.3 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: General Diffuse

Input Watts (W): 109.2
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
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58		
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49		
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41		
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35		
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30		
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26		
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23		
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20		
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18		
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16		
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8922	8922	8922	8922
5°	8992	9006	8992	7082
10°	8935	8872	8935	6343
15°	8841	8680	8841	7248
20°	8660	8452	8660	7263
25°	8285	8120	8285	7109
30°	7799	7844	7799	6771
35°	6956	7495	6956	6399
40°	5799	7085	5799	6119
45°	5185	6604	5185	5796
50°	5513	6031	5513	5472
55°	5192	5413	5192	5285
60°	5358	4598	5358	4840
65°	4866	3801	4866	4248
70°	3377	3029	3377	3561
75°	2973	2239	2973	2681
80°	2414	1480	2414	1612
85°	1416	784	1416	666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7942 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	2.0
10°-20°	739.3	5.7
20°-30°	1142.8	8.8
30°-40°	1364.2	10.6
40°-50°	1372.2	10.6
50°-60°	1194.0	9.2
60°-70°	846.6	6.6
70°-80°	447.9	3.5
80°-90°	114.7	0.9
90°-100°	408.5	3.2
100°-110°	1074.0	8.3
110°-120°	1113.6	8.6
120°-130°	893.3	6.9
130°-140°	700.9	5.4
140°-150°	538.0	4.2
150°-160°	387.4	3.0
160°-170°	237.0	1.8
170°-180°	80.1	0.6
0°-30°	2142.5	16.6
0°-40°	3506.7	27.2
0°-60°	6073.0	47.0
0°-90°	7482.2	57.9
90°-120°	2596.1	20.1
90°-150°	4728.2	36.6
90°-180°	5433.0	42.1
0°-180°	12914.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2884	2884	2884	2884	2884	
5°	2898	2988	2898	2350	2898	275
15°	2767	2961	2767	2472	2767	779
25°	2437	2762	2437	2418	2437	1119
35°	1853	2464	1853	2104	1853	1146
45°	1195	2030	1195	1782	1195	957
55°	974	1498	974	1463	974	895
65°	677	903	677	1010	677	647
75°	256	428	256	513	256	270
85°	44	109	44	93	44	59
90°	6	21	6	21	6	6
95°	54	247	54	247	54	60
105°	194	1682	194	1682	194	205
115°	344	2166	344	2166	344	339
125°	478	1724	478	1724	478	424
135°	570	1338	570	1338	570	441
145°	661	1086	661	1086	661	414
155°	747	935	747	935	747	343
165°	806	871	806	871	806	227
175°	838	844	838	844	838	80
180°	838	838	838	838	838	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2909.1	2909.1	2925.5	2930.9	2930.9	2922.8	2914.6	2922.8	2947.3	2955.5	2952.8
5°	2898.2	2920.0	2950.0	2955.5	2961.0	2958.2	2952.8	2958.2	2985.5	2991.0	2993.7
7.5°	2876.4	2917.3	2955.5	2963.7	2971.9	2963.7	2961.0	2966.4	2993.7	2999.2	2999.2
10°	2849.1	2906.4	2950.0	2955.5	2963.7	2955.5	2955.5	2966.4	2993.7	2999.2	3001.9
12.5°	2810.9	2890.0	2930.9	2936.4	2947.3	2944.6	2941.9	2952.8	2980.1	2985.5	2985.5
15°	2767.2	2860.0	2898.2	2903.7	2922.8	2917.3	2917.3	2928.2	2958.2	2966.4	2963.7
17.5°	2707.2	2821.8	2865.4	2873.6	2887.3	2884.5	2887.3	2898.2	2925.5	2930.9	2933.7
20°	2638.9	2769.9	2821.8	2830.0	2843.6	2843.6	2843.6	2857.3	2884.5	2895.5	2895.5
22.5°	2546.2	2715.4	2769.9	2775.4	2791.8	2791.8	2797.2	2816.3	2840.9	2843.6	2843.6
25°	2437.0	2655.3	2701.7	2718.1	2734.5	2742.6	2750.8	2761.7	2769.9	2767.2	2769.9
27.5°	2322.3	2578.9	2638.9	2649.9	2671.7	2679.9	2690.8	2693.5	2696.3	2704.4	2699.0
30°	2194.0	2472.5	2562.5	2573.5	2608.9	2614.4	2603.5	2608.9	2622.6	2628.0	2633.5
32.5°	2049.4	2314.1	2483.4	2508.0	2540.7	2524.3	2521.6	2529.8	2551.6	2551.6	2557.1
35°	1852.9	2191.3	2409.7	2431.6	2456.1	2437.0	2447.9	2450.7	2464.3	2472.5	2469.8
37.5°	1637.3	2084.9	2333.2	2349.6	2368.7	2344.1	2360.5	2368.7	2379.6	2374.2	2374.2
40°	1446.3	1918.4	2243.2	2254.1	2270.5	2251.4	2267.7	2273.2	2278.6	2273.2	2270.5
42.5°	1304.4	1735.6	2147.7	2161.3	2150.4	2164.0	2169.5	2180.4	2172.2	2161.3	2161.3
45°	1195.3	1686.5	2044.0	2060.3	2044.0	2065.8	2074.0	2074.0	2049.4	2044.0	2041.2
47.5°	1159.8	1588.2	1940.3	1940.3	1932.1	1959.4	1973.0	1953.9	1929.3	1921.2	1921.2
50°	1157.1	1479.1	1798.4	1787.4	1825.6	1858.4	1844.7	1825.6	1806.5	1776.5	1776.5
52.5°	1050.6	1345.4	1615.5	1656.4	1716.5	1735.6	1713.8	1694.7	1661.9	1648.3	1637.3
55°	974.2	1206.2	1449.1	1530.9	1593.7	1618.2	1577.3	1558.2	1509.1	1500.9	1495.4
57.5°	957.8	1004.2	1296.2	1399.9	1476.3	1473.6	1449.1	1413.6	1372.6	1364.5	1361.7
60°	878.7	725.9	1132.5	1255.3	1334.4	1326.3	1304.4	1271.7	1233.5	1228.0	1222.6
62.5°	796.8	526.7	946.9	1086.1	1198.0	1195.3	1176.2	1127.0	1099.8	1086.1	1075.2
65°	676.8	442.1	674.0	903.3	1064.3	1069.7	1028.8	993.3	963.3	946.9	944.2
67.5°	515.8	360.2	455.7	753.2	936.0	930.6	878.7	862.3	824.1	815.9	799.6
70°	382.0	240.1	316.6	611.3	810.5	796.8	755.9	736.8	701.3	682.2	671.3
72.5°	316.6	193.8	232.0	474.8	682.2	665.9	630.4	608.5	578.5	562.2	551.2
75°	256.5	204.7	177.4	352.0	554.0	543.1	510.3	488.5	463.9	442.1	444.8
77.5°	188.3	191.0	141.9	259.2	439.4	423.0	403.9	376.6	365.7	343.8	343.8
80°	141.9	150.1	106.4	177.4	316.6	316.6	300.2	281.1	262.0	251.1	251.1
82.5°	95.5	95.5	79.1	111.9	215.6	207.4	196.5	191.0	180.1	174.7	174.7
85°	43.7	54.6	49.1	68.2	117.3	122.8	122.8	117.3	114.6	109.2	111.9
87.5°	13.6	24.6	30.0	38.2	60.0	62.8	65.5	65.5	65.5	68.2	68.2
90°	5.6	10.1	14.6	15.7	24.7	36.7	42.8	38.0	28.5	21.4	21.4
92.5°	22.5	60.7	99.0	108.5	152.5	211.3	240.7	210.9	151.5	106.9	102.6
95°	54.0	124.0	194.0	211.5	375.5	594.3	703.6	627.8	476.4	362.8	349.8
97.5°	93.3	155.1	216.9	232.3	505.8	870.5	1052.9	1005.1	909.3	837.5	813.0
100°	123.7	179.7	235.7	249.7	553.2	957.9	1160.3	1163.8	1170.8	1176.1	1146.9
102.5°	149.6	201.8	254.1	267.2	575.0	985.5	1190.7	1251.7	1373.6	1465.2	1440.1
105°	193.5	237.7	281.9	293.0	591.1	988.6	1187.3	1324.1	1597.5	1802.6	1789.2
107.5°	238.5	279.7	321.0	331.3	594.2	944.7	1119.9	1310.6	1692.1	1978.2	1981.5
110°	268.9	306.1	343.4	352.7	589.6	905.6	1063.6	1276.9	1703.3	2023.1	2037.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	298.6	334.1	369.6	378.5	589.8	871.5	1012.4	1230.6	1667.1	1994.5	2015.9
115°	343.7	376.4	409.2	417.3	595.3	832.5	951.1	1161.3	1581.8	1897.1	1927.0
117.5°	388.1	417.8	447.5	455.0	606.3	808.0	908.9	1098.7	1478.1	1762.7	1795.7
120°	414.0	442.0	469.9	476.9	615.3	799.8	892.1	1065.5	1412.1	1672.2	1704.3
122.5°	439.3	467.6	495.8	502.8	628.3	795.5	879.1	1035.2	1347.4	1581.6	1613.2
125°	478.1	503.8	529.6	536.0	645.8	791.9	865.1	997.7	1262.8	1461.8	1491.0
127.5°	509.6	535.6	561.6	568.1	663.1	789.8	853.2	967.1	1194.8	1365.6	1390.3
130°	526.5	554.5	582.4	589.4	675.9	791.1	848.8	950.1	1152.9	1304.9	1327.6
132.5°	543.9	571.9	599.9	606.9	686.2	791.9	844.8	935.6	1117.0	1253.1	1273.5
135°	569.8	595.3	620.7	627.1	697.4	791.2	838.0	914.1	1066.1	1180.1	1197.6
137.5°	596.2	621.5	646.8	653.0	714.3	796.1	837.0	901.2	1029.7	1126.0	1140.4
140°	618.1	641.4	664.6	670.4	724.6	796.8	833.0	888.4	999.5	1082.7	1096.2
142.5°	635.0	656.5	678.0	683.4	733.3	799.8	833.0	881.7	979.2	1052.4	1063.9
145°	660.9	679.6	698.3	703.1	744.5	799.8	827.4	867.2	947.0	1006.8	1015.5
147.5°	686.8	705.0	723.3	727.8	761.0	805.3	827.4	858.8	921.6	968.6	975.9
150°	703.6	720.1	736.6	740.7	769.6	808.1	827.4	853.9	906.8	946.6	952.5
152.5°	721.1	733.5	746.1	749.2	775.3	810.0	827.4	850.1	895.3	929.2	933.7
155°	746.9	756.2	765.5	767.7	787.7	814.1	827.4	845.4	881.3	908.4	911.3
157.5°	766.1	775.1	784.0	786.3	800.0	818.3	827.4	841.4	869.3	890.4	892.4
160°	779.0	786.0	793.0	794.7	805.7	820.1	827.4	839.4	863.3	881.3	882.5
162.5°	791.9	797.2	802.5	803.8	811.7	822.1	827.4	837.5	857.7	872.9	874.0
165°	806.0	810.8	815.5	816.7	820.2	825.0	827.4	834.7	849.1	860.0	861.2
167.5°	818.9	821.1	823.4	823.9	827.0	831.0	833.0	837.7	847.2	854.3	854.9
170°	827.4	829.6	831.9	832.4	832.6	832.9	833.0	837.7	847.2	854.3	854.3
172.5°	831.9	832.3	832.9	833.0	833.0	833.0	833.0	836.7	844.2	849.9	849.4
175°	838.0	838.0	838.0	838.0	836.3	834.0	833.0	835.3	840.1	843.7	843.7
177.5°	838.0	838.0	838.0	838.0	836.8	835.0	834.1	836.0	839.8	842.6	842.1
180°	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2958.2	2950.0	2958.2	2952.8	2955.5	2947.3	2922.8	2914.6	2922.8	2930.9	2930.9
5°	2993.7	2988.2	2993.7	2993.7	2991.0	2985.5	2958.2	2952.8	2958.2	2961.0	2955.5
7.5°	3004.6	2996.4	3004.6	2999.2	2999.2	2993.7	2966.4	2961.0	2963.7	2971.9	2963.7
10°	3004.6	2996.4	3004.6	3001.9	2999.2	2993.7	2966.4	2955.5	2955.5	2963.7	2955.5
12.5°	2991.0	2985.5	2991.0	2985.5	2985.5	2980.1	2952.8	2941.9	2944.6	2947.3	2936.4
15°	2969.1	2961.0	2969.1	2963.7	2966.4	2958.2	2928.2	2917.3	2917.3	2922.8	2903.7
17.5°	2936.4	2925.5	2936.4	2933.7	2930.9	2925.5	2898.2	2887.3	2884.5	2887.3	2873.6
20°	2898.2	2890.0	2898.2	2895.5	2895.5	2884.5	2857.3	2843.6	2843.6	2843.6	2830.0
22.5°	2838.2	2830.0	2838.2	2843.6	2843.6	2840.9	2816.3	2797.2	2791.8	2791.8	2775.4
25°	2769.9	2761.7	2769.9	2769.9	2767.2	2769.9	2761.7	2750.8	2742.6	2734.5	2718.1
27.5°	2704.4	2699.0	2704.4	2699.0	2704.4	2696.3	2693.5	2690.8	2679.9	2671.7	2649.9
30°	2638.9	2633.5	2638.9	2633.5	2628.0	2622.6	2608.9	2603.5	2614.4	2608.9	2573.5
32.5°	2557.1	2551.6	2557.1	2557.1	2551.6	2551.6	2529.8	2521.6	2524.3	2540.7	2508.0
35°	2472.5	2464.3	2472.5	2469.8	2472.5	2464.3	2450.7	2447.9	2437.0	2456.1	2431.6
37.5°	2374.2	2366.0	2374.2	2374.2	2374.2	2379.6	2368.7	2360.5	2344.1	2368.7	2349.6
40°	2273.2	2262.3	2273.2	2270.5	2273.2	2278.6	2273.2	2267.7	2251.4	2270.5	2254.1
42.5°	2158.6	2155.8	2158.6	2161.3	2161.3	2172.2	2180.4	2169.5	2164.0	2150.4	2161.3
45°	2035.8	2030.3	2035.8	2041.2	2044.0	2049.4	2074.0	2074.0	2065.8	2044.0	2060.3
47.5°	1904.8	1891.1	1904.8	1921.2	1921.2	1929.3	1953.9	1973.0	1959.4	1932.1	1940.3
50°	1765.6	1768.3	1765.6	1776.5	1776.5	1806.5	1825.6	1844.7	1858.4	1825.6	1787.4
52.5°	1629.2	1626.4	1629.2	1637.3	1648.3	1661.9	1694.7	1713.8	1735.6	1716.5	1656.4
55°	1492.7	1498.2	1492.7	1495.4	1500.9	1509.1	1558.2	1577.3	1618.2	1593.7	1530.9
57.5°	1356.3	1348.1	1356.3	1361.7	1364.5	1372.6	1413.6	1449.1	1473.6	1476.3	1399.9
60°	1198.0	1187.1	1198.0	1222.6	1228.0	1233.5	1271.7	1304.4	1326.3	1334.4	1255.3
62.5°	1058.8	1039.7	1058.8	1075.2	1086.1	1099.8	1127.0	1176.2	1195.3	1198.0	1086.1
65°	911.5	903.3	911.5	944.2	946.9	963.3	993.3	1028.8	1069.7	1064.3	903.3
67.5°	777.7	777.7	777.7	799.6	815.9	824.1	862.3	878.7	930.6	936.0	753.2
70°	654.9	652.2	654.9	671.3	682.2	701.3	736.8	755.9	796.8	810.5	611.3
72.5°	537.6	534.9	537.6	551.2	562.2	578.5	608.5	630.4	665.9	682.2	474.8
75°	433.9	428.4	433.9	444.8	442.1	463.9	488.5	510.3	543.1	554.0	352.0
77.5°	332.9	332.9	332.9	343.8	343.8	365.7	376.6	403.9	423.0	439.4	259.2
80°	248.3	245.6	248.3	251.1	251.1	262.0	281.1	300.2	316.6	316.6	177.4
82.5°	174.7	169.2	174.7	174.7	174.7	180.1	191.0	196.5	207.4	215.6	111.9
85°	109.2	109.2	109.2	111.9	109.2	114.6	117.3	122.8	122.8	117.3	68.2
87.5°	71.0	68.2	71.0	68.2	68.2	65.5	65.5	65.5	62.8	60.0	38.2
90°	21.4	21.4	21.4	21.4	21.4	28.5	38.0	42.8	36.7	24.7	15.7
92.5°	85.6	68.6	85.6	102.6	106.9	151.5	210.9	240.7	211.3	152.5	108.5
95°	298.4	246.9	298.4	349.8	362.8	476.4	627.8	703.6	594.3	375.5	211.5
97.5°	715.0	617.0	715.0	813.0	837.5	909.3	1005.1	1052.9	870.5	505.8	232.3
100°	1030.2	913.5	1030.2	1146.9	1176.1	1170.8	1163.8	1160.3	957.9	553.2	249.7
102.5°	1340.2	1240.2	1340.2	1440.1	1465.2	1373.6	1251.7	1190.7	985.5	575.0	267.2
105°	1735.5	1681.7	1735.5	1789.2	1802.6	1597.5	1324.1	1187.3	988.6	591.1	293.0
107.5°	1994.4	2007.4	1994.4	1981.5	1978.2	1692.1	1310.6	1119.9	944.7	594.2	331.3
110°	2093.1	2149.1	2093.1	2037.1	2023.1	1703.3	1276.9	1063.6	905.6	589.6	352.7



TEST NUMBER: P934328

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2102.0	2187.9	2102.0	2015.9	1994.5	1667.1	1230.6	1012.4	871.5	589.8	378.5
115°	2046.2	2165.5	2046.2	1927.0	1897.1	1581.8	1161.3	951.1	832.5	595.3	417.3
117.5°	1928.0	2060.2	1928.0	1795.7	1762.7	1478.1	1098.7	908.9	808.0	606.3	455.0
120°	1832.8	1961.3	1832.8	1704.3	1672.2	1412.1	1065.5	892.1	799.8	615.3	476.9
122.5°	1740.0	1866.8	1740.0	1613.2	1581.6	1347.4	1035.2	879.1	795.5	628.3	502.8
125°	1607.7	1724.5	1607.7	1491.0	1461.8	1262.8	997.7	865.1	791.9	645.8	536.0
127.5°	1488.7	1587.2	1488.7	1390.3	1365.6	1194.8	967.1	853.2	789.8	663.1	568.1
130°	1418.7	1509.6	1418.7	1327.6	1304.9	1152.9	950.1	848.8	791.1	675.9	589.4
132.5°	1355.0	1436.5	1355.0	1273.5	1253.1	1117.0	935.6	844.8	791.9	686.2	606.9
135°	1267.9	1338.1	1267.9	1197.6	1180.1	1066.1	914.1	838.0	791.2	697.4	627.1
137.5°	1197.9	1255.4	1197.9	1140.4	1126.0	1029.7	901.2	837.0	796.1	714.3	653.0
140°	1149.9	1203.6	1149.9	1096.2	1082.7	999.5	888.4	833.0	796.8	724.6	670.4
142.5°	1110.2	1156.4	1110.2	1063.9	1052.4	979.2	881.7	833.0	799.8	733.3	683.4
145°	1050.5	1085.6	1050.5	1015.5	1006.8	947.0	867.2	827.4	799.8	744.5	703.1
147.5°	1004.8	1033.8	1004.8	975.9	968.6	921.6	858.8	827.4	805.3	761.0	727.8
150°	975.9	999.5	975.9	952.5	946.6	906.8	853.9	827.4	808.1	769.6	740.7
152.5°	951.4	969.1	951.4	933.7	929.2	895.3	850.1	827.4	810.0	775.3	749.2
155°	923.1	934.8	923.1	911.3	908.4	881.3	845.4	827.4	814.1	787.7	767.7
157.5°	900.6	908.9	900.6	892.4	890.4	869.3	841.4	827.4	818.3	800.0	786.3
160°	887.4	892.1	887.4	882.5	881.3	863.3	839.4	827.4	820.1	805.7	794.7
162.5°	878.5	883.1	878.5	874.0	872.9	857.7	837.5	827.4	822.1	811.7	803.8
165°	866.0	870.7	866.0	861.2	860.0	849.1	834.7	827.4	825.0	820.2	816.7
167.5°	856.9	858.9	856.9	854.9	854.3	847.2	837.7	833.0	831.0	827.0	823.9
170°	854.3	854.3	854.3	854.3	854.3	847.2	837.7	833.0	832.9	832.6	832.4
172.5°	847.7	846.0	847.7	849.4	849.9	844.2	836.7	833.0	833.0	833.0	833.0
175°	843.7	843.7	843.7	843.7	843.7	840.1	835.3	833.0	834.0	836.3	838.0
177.5°	840.0	838.0	840.0	842.1	842.6	839.8	836.0	834.1	835.0	836.8	838.0
180°	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0



TEST NUMBER: P934328

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2925.5	2909.1	2909.1	2881.8	2870.9	2862.7	2849.1	2808.1	2797.2	2786.3	2802.7
5°	2950.0	2920.0	2898.2	2849.1	2808.1	2791.8	2739.9	2641.7	2576.2	2527.1	2499.8
7.5°	2955.5	2917.3	2876.4	2800.0	2701.7	2658.1	2499.8	2319.6	2270.5	2226.8	2199.5
10°	2950.0	2906.4	2849.1	2734.5	2502.5	2426.1	2267.7	2150.4	2120.4	2112.2	2120.4
12.5°	2930.9	2890.0	2810.9	2619.8	2295.0	2243.2	2150.4	2082.2	2076.7	2090.3	2164.0
15°	2898.2	2860.0	2767.2	2467.0	2180.4	2142.2	2076.7	2052.1	2082.2	2177.7	2398.7
17.5°	2865.4	2821.8	2707.2	2316.8	2093.1	2065.8	2019.4	2068.5	2237.7	2366.0	2439.7
20°	2821.8	2769.9	2638.9	2207.7	2030.3	2005.7	1983.9	2205.0	2333.2	2379.6	2420.6
22.5°	2769.9	2715.4	2546.2	2131.3	1964.8	1945.7	1959.4	2281.4	2333.2	2366.0	2401.4
25°	2701.7	2655.3	2437.0	2071.2	1913.0	1891.1	1943.0	2273.2	2303.2	2311.4	2382.3
27.5°	2638.9	2578.9	2322.3	2016.7	1850.2	1842.0	1956.6	2237.7	2259.5	2267.7	2344.1
30°	2562.5	2472.5	2194.0	1959.4	1784.7	1782.0	1959.4	2194.0	2188.6	2210.4	2286.8
32.5°	2483.4	2314.1	2049.4	1888.4	1721.9	1719.2	1940.3	2128.6	2123.1	2153.1	2210.4
35°	2409.7	2191.3	1852.9	1806.5	1642.8	1645.5	1893.9	2052.1	2054.9	2082.2	2117.6
37.5°	2333.2	2084.9	1637.3	1716.5	1566.4	1566.4	1831.1	1981.2	1975.7	1983.9	2033.0
40°	2243.2	1918.4	1446.3	1599.1	1495.4	1487.3	1754.7	1904.8	1885.7	1882.9	1951.2
42.5°	2147.7	1735.6	1304.4	1443.6	1413.6	1402.7	1661.9	1812.0	1776.5	1784.7	1872.0
45°	2044.0	1686.5	1195.3	1219.8	1329.0	1320.8	1560.9	1705.6	1681.0	1702.8	1792.9
47.5°	1940.3	1588.2	1159.8	1012.4	1238.9	1236.2	1449.1	1601.9	1588.2	1610.1	1705.6
50°	1798.4	1479.1	1157.1	867.8	1138.0	1148.9	1315.3	1500.9	1500.9	1520.0	1621.0
52.5°	1615.5	1345.4	1050.6	785.9	1020.6	1053.4	1198.0	1413.6	1419.0	1438.1	1528.2
55°	1449.1	1206.2	974.2	723.2	881.4	952.4	1083.4	1323.5	1334.4	1353.5	1435.4
57.5°	1296.2	1004.2	957.8	649.5	753.2	821.4	982.4	1236.2	1241.7	1258.0	1337.2
60°	1132.5	725.9	878.7	570.3	641.3	693.1	889.6	1132.5	1151.6	1162.5	1230.7
62.5°	946.9	526.7	796.8	515.8	586.7	597.6	813.2	1034.3	1058.8	1067.0	1107.9
65°	674.0	442.1	676.8	469.4	529.4	532.1	731.3	933.3	955.1	968.8	998.8
67.5°	455.7	360.2	515.8	425.7	485.7	488.5	652.2	815.9	846.0	856.9	876.0
70°	316.6	240.1	382.0	379.3	436.6	442.1	567.6	709.5	736.8	745.0	755.9
72.5°	232.0	193.8	316.6	341.1	384.8	390.2	480.3	589.4	616.7	624.9	630.4
75°	177.4	204.7	256.5	297.5	327.5	330.2	393.0	480.3	499.4	504.8	507.6
77.5°	141.9	191.0	188.3	240.1	267.4	262.0	308.4	371.1	387.5	387.5	387.5
80°	106.4	150.1	141.9	171.9	196.5	191.0	221.0	264.7	270.2	275.6	272.9
82.5°	79.1	95.5	95.5	109.2	131.0	125.5	147.4	171.9	171.9	171.9	177.4
85°	49.1	54.6	43.7	57.3	73.7	71.0	81.9	92.8	95.5	95.5	90.1
87.5°	30.0	24.6	13.6	21.8	32.7	32.7	38.2	40.9	38.2	38.2	38.2
90°	14.6	10.1	5.6	10.1	14.6	15.7	24.7	36.7	42.8	38.0	28.5
92.5°	99.0	60.7	22.5	60.7	99.0	108.5	152.5	211.3	240.7	210.9	151.5
95°	194.0	124.0	54.0	124.0	194.0	211.5	375.5	594.3	703.6	627.8	476.4
97.5°	216.9	155.1	93.3	155.1	216.9	232.3	505.8	870.5	1052.9	1005.1	909.3
100°	235.7	179.7	123.7	179.7	235.7	249.7	553.2	957.9	1160.3	1163.8	1170.8
102.5°	254.1	201.8	149.6	201.8	254.1	267.2	575.0	985.5	1190.7	1251.7	1373.6
105°	281.9	237.7	193.5	237.7	281.9	293.0	591.1	988.6	1187.3	1324.1	1597.5
107.5°	321.0	279.7	238.5	279.7	321.0	331.3	594.2	944.7	1119.9	1310.6	1692.1
110°	343.4	306.1	268.9	306.1	343.4	352.7	589.6	905.6	1063.6	1276.9	1703.3



TEST NUMBER: P934328

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	369.6	334.1	298.6	334.1	369.6	378.5	589.8	871.5	1012.4	1230.6	1667.1
115°	409.2	376.4	343.7	376.4	409.2	417.3	595.3	832.5	951.1	1161.3	1581.8
117.5°	447.5	417.8	388.1	417.8	447.5	455.0	606.3	808.0	908.9	1098.7	1478.1
120°	469.9	442.0	414.0	442.0	469.9	476.9	615.3	799.8	892.1	1065.5	1412.1
122.5°	495.8	467.6	439.3	467.6	495.8	502.8	628.3	795.5	879.1	1035.2	1347.4
125°	529.6	503.8	478.1	503.8	529.6	536.0	645.8	791.9	865.1	997.7	1262.8
127.5°	561.6	535.6	509.6	535.6	561.6	568.1	663.1	789.8	853.2	967.1	1194.8
130°	582.4	554.5	526.5	554.5	582.4	589.4	675.9	791.1	848.8	950.1	1152.9
132.5°	599.9	571.9	543.9	571.9	599.9	606.9	686.2	791.9	844.8	935.6	1117.0
135°	620.7	595.3	569.8	595.3	620.7	627.1	697.4	791.2	838.0	914.1	1066.1
137.5°	646.8	621.5	596.2	621.5	646.8	653.0	714.3	796.1	837.0	901.2	1029.7
140°	664.6	641.4	618.1	641.4	664.6	670.4	724.6	796.8	833.0	888.4	999.5
142.5°	678.0	656.5	635.0	656.5	678.0	683.4	733.3	799.8	833.0	881.7	979.2
145°	698.3	679.6	660.9	679.6	698.3	703.1	744.5	799.8	827.4	867.2	947.0
147.5°	723.3	705.0	686.8	705.0	723.3	727.8	761.0	805.3	827.4	858.8	921.6
150°	736.6	720.1	703.6	720.1	736.6	740.7	769.6	808.1	827.4	853.9	906.8
152.5°	746.1	733.5	721.1	733.5	746.1	749.2	775.3	810.0	827.4	850.1	895.3
155°	765.5	756.2	746.9	756.2	765.5	767.7	787.7	814.1	827.4	845.4	881.3
157.5°	784.0	775.1	766.1	775.1	784.0	786.3	800.0	818.3	827.4	841.4	869.3
160°	793.0	786.0	779.0	786.0	793.0	794.7	805.7	820.1	827.4	839.4	863.3
162.5°	802.5	797.2	791.9	797.2	802.5	803.8	811.7	822.1	827.4	837.5	857.7
165°	815.5	810.8	806.0	810.8	815.5	816.7	820.2	825.0	827.4	834.7	849.1
167.5°	823.4	821.1	818.9	821.1	823.4	823.9	827.0	831.0	833.0	837.7	847.2
170°	831.9	829.6	827.4	829.6	831.9	832.4	832.6	832.9	833.0	837.7	847.2
172.5°	832.9	832.3	831.9	832.3	832.9	833.0	833.0	833.0	833.0	836.7	844.2
175°	838.0	838.0	838.0	838.0	838.0	838.0	836.3	834.0	833.0	835.3	840.1
177.5°	838.0	838.0	838.0	838.0	838.0	838.0	836.8	835.0	834.1	836.0	839.8
180°	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0



TEST NUMBER: P934328

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2783.6	2775.4	2786.3	2756.3	2786.3	2775.4	2783.6	2802.7	2786.3	2797.2	2808.1
5°	2442.5	2428.8	2385.1	2349.6	2385.1	2428.8	2442.5	2499.8	2527.1	2576.2	2641.7
7.5°	2183.1	2172.2	2161.3	2139.5	2161.3	2172.2	2183.1	2199.5	2226.8	2270.5	2319.6
10°	2125.8	2128.6	2144.9	2142.2	2144.9	2128.6	2125.8	2120.4	2112.2	2120.4	2150.4
12.5°	2273.2	2297.7	2387.8	2382.3	2387.8	2297.7	2273.2	2164.0	2090.3	2076.7	2082.2
15°	2442.5	2450.7	2469.8	2472.5	2469.8	2450.7	2442.5	2398.7	2177.7	2082.2	2052.1
17.5°	2458.8	2461.6	2475.2	2475.2	2475.2	2461.6	2458.8	2439.7	2366.0	2237.7	2068.5
20°	2445.2	2450.7	2477.9	2483.4	2477.9	2450.7	2445.2	2420.6	2379.6	2333.2	2205.0
22.5°	2439.7	2450.7	2472.5	2469.8	2472.5	2450.7	2439.7	2401.4	2366.0	2333.2	2281.4
25°	2412.4	2412.4	2415.2	2417.9	2415.2	2412.4	2412.4	2382.3	2311.4	2303.2	2273.2
27.5°	2355.1	2360.5	2376.9	2374.2	2376.9	2360.5	2355.1	2344.1	2267.7	2259.5	2237.7
30°	2303.2	2297.7	2284.1	2273.2	2284.1	2297.7	2303.2	2286.8	2210.4	2188.6	2194.0
32.5°	2215.9	2202.2	2188.6	2180.4	2188.6	2202.2	2215.9	2210.4	2153.1	2123.1	2128.6
35°	2112.2	2114.9	2112.2	2104.0	2112.2	2114.9	2112.2	2117.6	2082.2	2054.9	2052.1
37.5°	2038.5	2044.0	2041.2	2030.3	2041.2	2044.0	2038.5	2033.0	1983.9	1975.7	1981.2
40°	1962.1	1964.8	1962.1	1953.9	1962.1	1964.8	1962.1	1951.2	1882.9	1885.7	1904.8
42.5°	1888.4	1885.7	1877.5	1872.0	1877.5	1885.7	1888.4	1872.0	1784.7	1776.5	1812.0
45°	1803.8	1806.5	1790.2	1782.0	1790.2	1806.5	1803.8	1792.9	1702.8	1681.0	1705.6
47.5°	1719.2	1719.2	1705.6	1697.4	1705.6	1719.2	1719.2	1705.6	1610.1	1588.2	1601.9
50°	1629.2	1626.4	1607.3	1604.6	1607.3	1626.4	1629.2	1621.0	1520.0	1500.9	1500.9
52.5°	1525.5	1525.5	1528.2	1533.6	1528.2	1525.5	1525.5	1528.2	1438.1	1419.0	1413.6
55°	1435.4	1438.1	1457.2	1462.7	1457.2	1438.1	1435.4	1435.4	1353.5	1334.4	1323.5
57.5°	1342.6	1342.6	1356.3	1356.3	1356.3	1342.6	1342.6	1337.2	1258.0	1241.7	1236.2
60°	1236.2	1241.7	1252.6	1249.8	1252.6	1241.7	1236.2	1230.7	1162.5	1151.6	1132.5
62.5°	1124.3	1129.8	1132.5	1127.0	1132.5	1129.8	1124.3	1107.9	1067.0	1058.8	1034.3
65°	1007.0	1012.4	1015.2	1009.7	1015.2	1012.4	1007.0	998.8	968.8	955.1	933.3
67.5°	886.9	884.2	881.4	892.4	881.4	884.2	886.9	876.0	856.9	846.0	815.9
70°	764.1	764.1	761.4	766.8	761.4	764.1	764.1	755.9	745.0	736.8	709.5
72.5°	633.1	630.4	641.3	633.1	641.3	630.4	633.1	630.4	624.9	616.7	589.4
75°	504.8	510.3	504.8	513.0	504.8	510.3	504.8	507.6	504.8	499.4	480.3
77.5°	384.8	390.2	384.8	384.8	384.8	390.2	384.8	387.5	387.5	387.5	371.1
80°	272.9	270.2	270.2	267.4	270.2	270.2	272.9	272.9	275.6	270.2	264.7
82.5°	174.7	171.9	171.9	177.4	171.9	171.9	174.7	177.4	171.9	171.9	171.9
85°	95.5	98.2	92.8	92.8	92.8	98.2	95.5	90.1	95.5	95.5	92.8
87.5°	35.5	32.7	32.7	32.7	32.7	32.7	35.5	38.2	38.2	38.2	40.9
90°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	28.5	38.0	42.8	36.7
92.5°	106.9	102.6	85.6	68.6	85.6	102.6	106.9	151.5	210.9	240.7	211.3
95°	362.8	349.8	298.4	246.9	298.4	349.8	362.8	476.4	627.8	703.6	594.3
97.5°	837.5	813.0	715.0	617.0	715.0	813.0	837.5	909.3	1005.1	1052.9	870.5
100°	1176.1	1146.9	1030.2	913.5	1030.2	1146.9	1176.1	1170.8	1163.8	1160.3	957.9
102.5°	1465.2	1440.1	1340.2	1240.2	1340.2	1440.1	1465.2	1373.6	1251.7	1190.7	985.5
105°	1802.6	1789.2	1735.5	1681.7	1735.5	1789.2	1802.6	1597.5	1324.1	1187.3	988.6
107.5°	1978.2	1981.5	1994.4	2007.4	1994.4	1981.5	1978.2	1692.1	1310.6	1119.9	944.7
110°	2023.1	2037.1	2093.1	2149.1	2093.1	2037.1	2023.1	1703.3	1276.9	1063.6	905.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1994.5	2015.9	2102.0	2187.9	2102.0	2015.9	1994.5	1667.1	1230.6	1012.4	871.5
115°	1897.1	1927.0	2046.2	2165.5	2046.2	1927.0	1897.1	1581.8	1161.3	951.1	832.5
117.5°	1762.7	1795.7	1928.0	2060.2	1928.0	1795.7	1762.7	1478.1	1098.7	908.9	808.0
120°	1672.2	1704.3	1832.8	1961.3	1832.8	1704.3	1672.2	1412.1	1065.5	892.1	799.8
122.5°	1581.6	1613.2	1740.0	1866.8	1740.0	1613.2	1581.6	1347.4	1035.2	879.1	795.5
125°	1461.8	1491.0	1607.7	1724.5	1607.7	1491.0	1461.8	1262.8	997.7	865.1	791.9
127.5°	1365.6	1390.3	1488.7	1587.2	1488.7	1390.3	1365.6	1194.8	967.1	853.2	789.8
130°	1304.9	1327.6	1418.7	1509.6	1418.7	1327.6	1304.9	1152.9	950.1	848.8	791.1
132.5°	1253.1	1273.5	1355.0	1436.5	1355.0	1273.5	1253.1	1117.0	935.6	844.8	791.9
135°	1180.1	1197.6	1267.9	1338.1	1267.9	1197.6	1180.1	1066.1	914.1	838.0	791.2
137.5°	1126.0	1140.4	1197.9	1255.4	1197.9	1140.4	1126.0	1029.7	901.2	837.0	796.1
140°	1082.7	1096.2	1149.9	1203.6	1149.9	1096.2	1082.7	999.5	888.4	833.0	796.8
142.5°	1052.4	1063.9	1110.2	1156.4	1110.2	1063.9	1052.4	979.2	881.7	833.0	799.8
145°	1006.8	1015.5	1050.5	1085.6	1050.5	1015.5	1006.8	947.0	867.2	827.4	799.8
147.5°	968.6	975.9	1004.8	1033.8	1004.8	975.9	968.6	921.6	858.8	827.4	805.3
150°	946.6	952.5	975.9	999.5	975.9	952.5	946.6	906.8	853.9	827.4	808.1
152.5°	929.2	933.7	951.4	969.1	951.4	933.7	929.2	895.3	850.1	827.4	810.0
155°	908.4	911.3	923.1	934.8	923.1	911.3	908.4	881.3	845.4	827.4	814.1
157.5°	890.4	892.4	900.6	908.9	900.6	892.4	890.4	869.3	841.4	827.4	818.3
160°	881.3	882.5	887.4	892.1	887.4	882.5	881.3	863.3	839.4	827.4	820.1
162.5°	872.9	874.0	878.5	883.1	878.5	874.0	872.9	857.7	837.5	827.4	822.1
165°	860.0	861.2	866.0	870.7	866.0	861.2	860.0	849.1	834.7	827.4	825.0
167.5°	854.3	854.9	856.9	858.9	856.9	854.9	854.3	847.2	837.7	833.0	831.0
170°	854.3	854.3	854.3	854.3	854.3	854.3	854.3	847.2	837.7	833.0	832.9
172.5°	849.9	849.4	847.7	846.0	847.7	849.4	849.9	844.2	836.7	833.0	833.0
175°	843.7	843.7	843.7	843.7	843.7	843.7	843.7	840.1	835.3	833.0	834.0
177.5°	842.6	842.1	840.0	838.0	840.0	842.1	842.6	839.8	836.0	834.1	835.0
180°	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2884.5	2884.5	2884.5	2884.5	2884.5
2.5°	2849.1	2862.7	2870.9	2881.8	2909.1
5°	2739.9	2791.8	2808.1	2849.1	2898.2
7.5°	2499.8	2658.1	2701.7	2800.0	2876.4
10°	2267.7	2426.1	2502.5	2734.5	2849.1
12.5°	2150.4	2243.2	2295.0	2619.8	2810.9
15°	2076.7	2142.2	2180.4	2467.0	2767.2
17.5°	2019.4	2065.8	2093.1	2316.8	2707.2
20°	1983.9	2005.7	2030.3	2207.7	2638.9
22.5°	1959.4	1945.7	1964.8	2131.3	2546.2
25°	1943.0	1891.1	1913.0	2071.2	2437.0
27.5°	1956.6	1842.0	1850.2	2016.7	2322.3
30°	1959.4	1782.0	1784.7	1959.4	2194.0
32.5°	1940.3	1719.2	1721.9	1888.4	2049.4
35°	1893.9	1645.5	1642.8	1806.5	1852.9
37.5°	1831.1	1566.4	1566.4	1716.5	1637.3
40°	1754.7	1487.3	1495.4	1599.1	1446.3
42.5°	1661.9	1402.7	1413.6	1443.6	1304.4
45°	1560.9	1320.8	1329.0	1219.8	1195.3
47.5°	1449.1	1236.2	1238.9	1012.4	1159.8
50°	1315.3	1148.9	1138.0	867.8	1157.1
52.5°	1198.0	1053.4	1020.6	785.9	1050.6
55°	1083.4	952.4	881.4	723.2	974.2
57.5°	982.4	821.4	753.2	649.5	957.8
60°	889.6	693.1	641.3	570.3	878.7
62.5°	813.2	597.6	586.7	515.8	796.8
65°	731.3	532.1	529.4	469.4	676.8
67.5°	652.2	488.5	485.7	425.7	515.8
70°	567.6	442.1	436.6	379.3	382.0
72.5°	480.3	390.2	384.8	341.1	316.6
75°	393.0	330.2	327.5	297.5	256.5
77.5°	308.4	262.0	267.4	240.1	188.3
80°	221.0	191.0	196.5	171.9	141.9
82.5°	147.4	125.5	131.0	109.2	95.5
85°	81.9	71.0	73.7	57.3	43.7
87.5°	38.2	32.7	32.7	21.8	13.6
90°	24.7	15.7	14.6	10.1	5.6
92.5°	152.5	108.5	99.0	60.7	22.5
95°	375.5	211.5	194.0	124.0	54.0
97.5°	505.8	232.3	216.9	155.1	93.3
100°	553.2	249.7	235.7	179.7	123.7
102.5°	575.0	267.2	254.1	201.8	149.6
105°	591.1	293.0	281.9	237.7	193.5
107.5°	594.2	331.3	321.0	279.7	238.5
110°	589.6	352.7	343.4	306.1	268.9



TEST NUMBER: P934328

CATALOG NUMBER: SQ4-FA-050U-075D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	589.8	378.5	369.6	334.1	298.6
115°	595.3	417.3	409.2	376.4	343.7
117.5°	606.3	455.0	447.5	417.8	388.1
120°	615.3	476.9	469.9	442.0	414.0
122.5°	628.3	502.8	495.8	467.6	439.3
125°	645.8	536.0	529.6	503.8	478.1
127.5°	663.1	568.1	561.6	535.6	509.6
130°	675.9	589.4	582.4	554.5	526.5
132.5°	686.2	606.9	599.9	571.9	543.9
135°	697.4	627.1	620.7	595.3	569.8
137.5°	714.3	653.0	646.8	621.5	596.2
140°	724.6	670.4	664.6	641.4	618.1
142.5°	733.3	683.4	678.0	656.5	635.0
145°	744.5	703.1	698.3	679.6	660.9
147.5°	761.0	727.8	723.3	705.0	686.8
150°	769.6	740.7	736.6	720.1	703.6
152.5°	775.3	749.2	746.1	733.5	721.1
155°	787.7	767.7	765.5	756.2	746.9
157.5°	800.0	786.3	784.0	775.1	766.1
160°	805.7	794.7	793.0	786.0	779.0
162.5°	811.7	803.8	802.5	797.2	791.9
165°	820.2	816.7	815.5	810.8	806.0
167.5°	827.0	823.9	823.4	821.1	818.9
170°	832.6	832.4	831.9	829.6	827.4
172.5°	833.0	833.0	832.9	832.3	831.9
175°	836.3	838.0	838.0	838.0	838.0
177.5°	836.8	838.0	838.0	838.0	838.0
180°	838.0	838.0	838.0	838.0	838.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.12	14.05	14.00	14.96	16.11	15.97	16.91	16.85	17.81	18.97
	3H	13.60	14.44	14.50	15.36	16.54	17.33	18.17	18.22	19.08	20.26
	4H	13.79	14.59	14.71	15.51	16.70	17.78	18.57	18.69	19.49	20.68
	6H	13.92	14.65	14.84	15.58	16.78	18.07	18.81	19.00	19.73	20.93
	8H	13.92	14.62	14.85	15.56	16.76	18.15	18.85	19.09	19.80	20.99
	12H	13.89	14.56	14.83	15.50	16.72	18.20	18.86	19.14	19.80	21.03
4H	2H	14.16	14.96	15.08	15.88	17.07	16.39	17.18	17.31	18.10	19.29
	3H	15.20	15.86	16.13	16.81	18.02	17.91	18.57	18.84	19.52	20.72
	4H	15.48	16.08	16.42	17.03	18.26	18.44	19.05	19.38	19.99	21.22
	6H	15.61	16.13	16.56	17.10	18.33	18.82	19.34	19.77	20.31	21.54
	8H	15.61	16.10	16.57	17.07	18.31	18.93	19.41	19.88	20.38	21.62
	12H	15.59	16.02	16.56	17.01	18.25	18.99	19.43	19.97	20.41	21.66
8H	4H	15.94	16.43	16.90	17.39	18.63	18.57	19.06	19.53	20.02	21.26
	6H	16.21	16.61	17.19	17.61	18.86	19.02	19.42	20.00	20.43	21.67
	8H	16.25	16.60	17.24	17.60	18.86	19.17	19.53	20.16	20.52	21.78
	12H	16.24	16.55	17.23	17.54	18.84	19.28	19.59	20.27	20.58	21.89
12H	4H	15.95	16.39	16.93	17.37	18.62	18.54	18.98	19.51	19.96	21.21
	6H	16.27	16.62	17.26	17.62	18.88	19.01	19.37	20.00	20.37	21.62
	8H	16.34	16.65	17.33	17.64	18.95	19.18	19.50	20.18	20.48	21.79