

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: P934428

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

**Test Information**

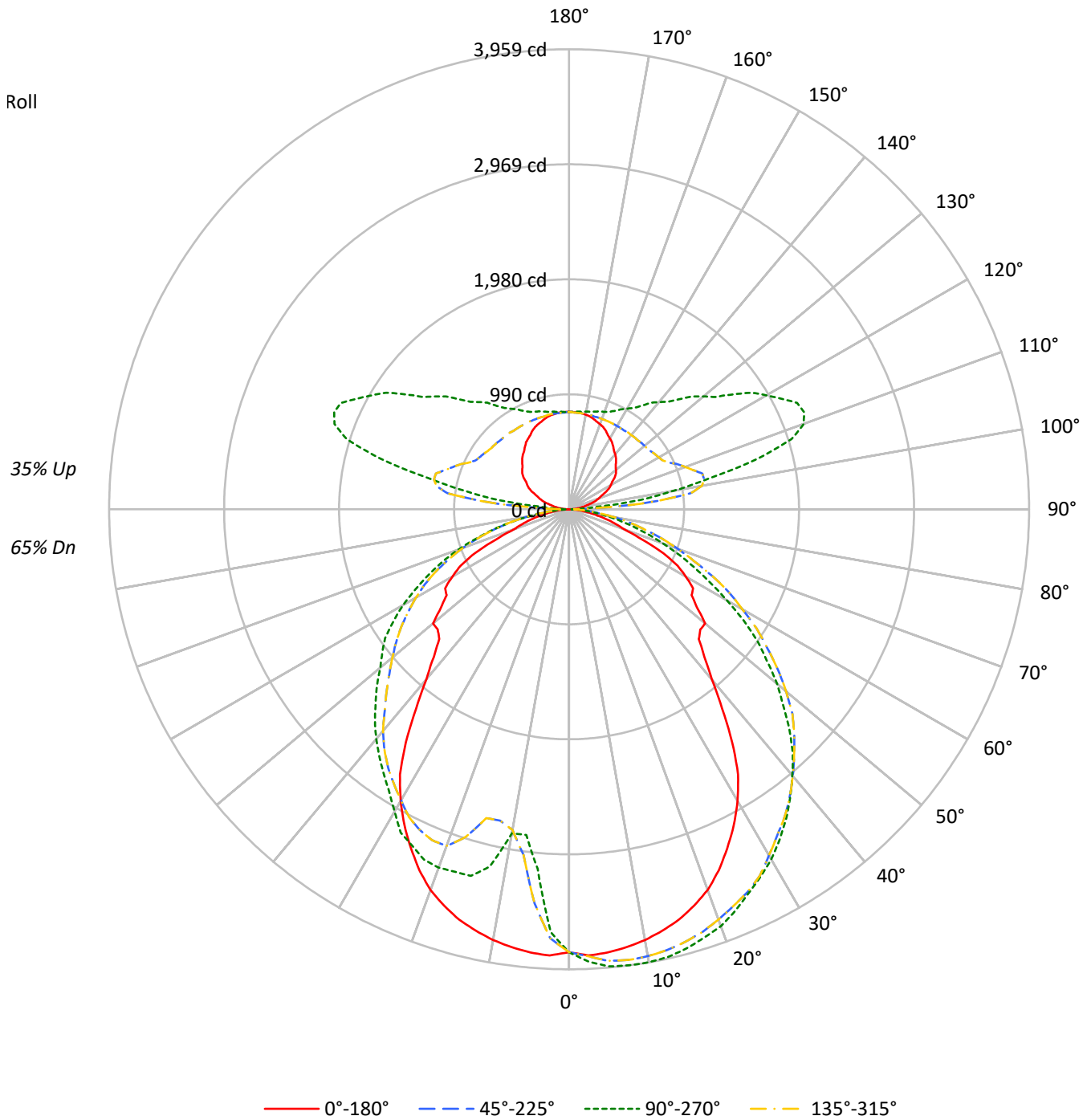
Test Method: LM-79-2019  
Report Number: P934428  
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15317.3 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 135.6  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

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

	0°	90°	180°	270°
0°	11788	11788	11788	11788
5°	11880	11899	11880	9357
10°	11805	11721	11805	8380
15°	11681	11467	11681	9576
20°	11441	11167	11441	9596
25°	10946	10728	10946	9392
30°	10304	10364	10304	8946
35°	9191	9903	9191	8455
40°	7663	9360	7663	8084
45°	6851	8725	6851	7658
50°	7284	7968	7284	7231
55°	6859	7152	6859	6983
60°	7080	6074	7080	6396
65°	6430	5021	6430	5613
70°	4463	4002	4463	4705
75°	3928	2958	3928	3543
80°	3189	1956	3189	2129
85°	1870	1036	1870	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10493 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.0	2.2
10°-20°	976.8	6.4
20°-30°	1509.9	9.9
30°-40°	1802.5	11.8
40°-50°	1813.0	11.8
50°-60°	1577.6	10.3
60°-70°	1118.5	7.3
70°-80°	591.8	3.9
80°-90°	150.6	1.0
90°-100°	408.5	2.7
100°-110°	1074.0	7.0
110°-120°	1113.6	7.3
120°-130°	893.3	5.8
130°-140°	700.9	4.6
140°-150°	538.0	3.5
150°-160°	387.4	2.5
160°-170°	237.0	1.5
170°-180°	80.1	0.5
0°-30°	2830.7	18.5
0°-40°	4633.1	30.2
0°-60°	8023.7	52.4
0°-90°	9884.6	64.5
90°-120°	2596.1	16.9
90°-150°	4728.2	30.9
90°-180°	5433.0	35.5
0°-180°	15317.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3811	3811	3811	3811	3811	
5°	3829	3948	3829	3104	3829	363
15°	3656	3912	3656	3267	3656	1029
25°	3220	3649	3220	3194	3220	1478
35°	2448	3256	2448	2780	2448	1515
45°	1579	2682	1579	2354	1579	1265
55°	1287	1980	1287	1932	1287	1183
65°	894	1193	894	1334	894	855
75°	339	566	339	678	339	356
85°	58	144	58	123	58	78
90°	6	21	6	21	6	7
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°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3843.5	3843.5	3865.1	3872.3	3872.3	3861.5	3850.7	3861.5	3894.0	3904.8	3901.2
5°	3829.1	3858.0	3897.6	3904.8	3912.0	3908.4	3901.2	3908.4	3944.5	3951.6	3955.3
7.5°	3800.2	3854.3	3904.8	3915.6	3926.4	3915.6	3912.0	3919.3	3955.3	3962.5	3962.5
10°	3764.2	3839.9	3897.6	3904.8	3915.6	3904.8	3904.8	3919.3	3955.3	3962.5	3966.1
12.5°	3713.7	3818.3	3872.3	3879.6	3894.0	3890.3	3886.8	3901.2	3937.3	3944.5	3944.5
15°	3656.0	3778.6	3829.1	3836.3	3861.5	3854.3	3854.3	3868.8	3908.4	3919.3	3915.6
17.5°	3576.7	3728.1	3785.8	3796.6	3814.7	3811.0	3814.7	3829.1	3865.1	3872.3	3876.0
20°	3486.5	3659.7	3728.1	3739.0	3757.0	3757.0	3757.0	3775.0	3811.0	3825.5	3825.5
22.5°	3363.9	3587.5	3659.7	3666.8	3688.5	3688.5	3695.7	3720.9	3753.3	3757.0	3757.0
25°	3219.8	3508.2	3569.5	3591.2	3612.7	3623.5	3634.4	3648.8	3659.7	3656.0	3659.7
27.5°	3068.3	3407.2	3486.5	3501.0	3529.8	3540.7	3555.0	3558.7	3562.2	3573.1	3565.9
30°	2898.8	3266.6	3385.6	3400.0	3446.9	3454.1	3439.7	3446.9	3464.9	3472.2	3479.4
32.5°	2707.7	3057.5	3281.1	3313.4	3356.7	3335.1	3331.5	3342.4	3371.2	3371.2	3378.4
35°	2448.2	2895.3	3183.7	3212.6	3244.9	3219.8	3234.1	3237.8	3255.8	3266.6	3263.0
37.5°	2163.3	2754.7	3082.8	3104.4	3129.6	3097.1	3118.8	3129.6	3144.1	3136.8	3136.8
40°	1911.0	2534.7	2963.8	2978.2	2999.8	2974.6	2996.2	3003.4	3010.6	3003.4	2999.8
42.5°	1723.5	2293.1	2837.5	2855.6	2841.2	2859.2	2866.4	2880.8	2870.0	2855.6	2855.6
45°	1579.2	2228.2	2700.5	2722.2	2700.5	2729.4	2740.2	2740.2	2707.7	2700.5	2697.0
47.5°	1532.4	2098.4	2563.5	2563.5	2552.7	2588.7	2606.8	2581.5	2549.1	2538.3	2538.3
50°	1528.7	1954.2	2376.1	2361.6	2412.1	2455.4	2437.4	2412.1	2386.9	2347.2	2347.2
52.5°	1388.1	1777.5	2134.5	2188.6	2267.9	2293.1	2264.3	2239.1	2195.8	2177.8	2163.3
55°	1287.1	1593.7	1914.5	2022.7	2105.6	2138.1	2084.0	2058.8	1993.8	1983.0	1975.8
57.5°	1265.6	1326.8	1712.7	1849.7	1950.6	1947.0	1914.5	1867.7	1813.5	1802.8	1799.2
60°	1161.0	959.0	1496.3	1658.5	1763.1	1752.3	1723.5	1680.2	1629.7	1622.5	1615.2
62.5°	1052.8	695.9	1251.1	1435.0	1582.9	1579.2	1554.0	1489.1	1453.1	1435.0	1420.6
65°	894.2	584.1	890.5	1193.4	1406.1	1413.4	1359.3	1312.4	1272.8	1251.1	1247.5
67.5°	681.4	475.9	602.1	995.1	1236.7	1229.5	1161.0	1139.3	1088.8	1078.0	1056.5
70°	504.8	317.3	418.3	807.7	1070.8	1052.8	998.7	973.5	926.6	901.4	887.0
72.5°	418.3	256.0	306.5	627.4	901.4	879.7	832.9	804.0	764.4	742.7	728.3
75°	338.9	270.4	234.3	465.1	731.9	717.5	674.2	645.4	612.9	584.1	587.7
77.5°	248.8	252.4	187.5	342.6	580.5	558.9	533.6	497.6	483.1	454.3	454.3
80°	187.5	198.3	140.6	234.3	418.3	418.3	396.6	371.4	346.1	331.7	331.7
82.5°	126.2	126.2	104.5	147.8	284.8	274.0	259.6	252.4	238.0	230.8	230.8
85°	57.7	72.1	64.9	90.1	155.0	162.3	162.3	155.0	151.5	144.2	147.8
87.5°	18.0	32.5	39.7	50.5	79.3	83.0	86.5	86.5	86.5	90.1	90.1
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°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3908.4	3897.6	3908.4	3901.2	3904.8	3894.0	3861.5	3850.7	3861.5	3872.3	3872.3
5°	3955.3	3948.1	3955.3	3955.3	3951.6	3944.5	3908.4	3901.2	3908.4	3912.0	3904.8
7.5°	3969.7	3958.9	3969.7	3962.5	3962.5	3955.3	3919.3	3912.0	3915.6	3926.4	3915.6
10°	3969.7	3958.9	3969.7	3966.1	3962.5	3955.3	3919.3	3904.8	3904.8	3915.6	3904.8
12.5°	3951.6	3944.5	3951.6	3944.5	3944.5	3937.3	3901.2	3886.8	3890.3	3894.0	3879.6
15°	3922.8	3912.0	3922.8	3915.6	3919.3	3908.4	3868.8	3854.3	3854.3	3861.5	3836.3
17.5°	3879.6	3865.1	3879.6	3876.0	3872.3	3865.1	3829.1	3814.7	3811.0	3814.7	3796.6
20°	3829.1	3818.3	3829.1	3825.5	3825.5	3811.0	3775.0	3757.0	3757.0	3757.0	3739.0
22.5°	3749.8	3739.0	3749.8	3757.0	3757.0	3753.3	3720.9	3695.7	3688.5	3688.5	3666.8
25°	3659.7	3648.8	3659.7	3659.7	3656.0	3659.7	3648.8	3634.4	3623.5	3612.7	3591.2
27.5°	3573.1	3565.9	3573.1	3565.9	3573.1	3562.2	3558.7	3555.0	3540.7	3529.8	3501.0
30°	3486.5	3479.4	3486.5	3479.4	3472.2	3464.9	3446.9	3439.7	3454.1	3446.9	3400.0
32.5°	3378.4	3371.2	3378.4	3378.4	3371.2	3371.2	3342.4	3331.5	3335.1	3356.7	3313.4
35°	3266.6	3255.8	3266.6	3263.0	3266.6	3255.8	3237.8	3234.1	3219.8	3244.9	3212.6
37.5°	3136.8	3126.0	3136.8	3136.8	3136.8	3144.1	3129.6	3118.8	3097.1	3129.6	3104.4
40°	3003.4	2989.0	3003.4	2999.8	3003.4	3010.6	3003.4	2996.2	2974.6	2999.8	2978.2
42.5°	2852.0	2848.3	2852.0	2855.6	2855.6	2870.0	2880.8	2866.4	2859.2	2841.2	2855.6
45°	2689.7	2682.5	2689.7	2697.0	2700.5	2707.7	2740.2	2740.2	2729.4	2700.5	2722.2
47.5°	2516.7	2498.7	2516.7	2538.3	2538.3	2549.1	2581.5	2606.8	2588.7	2552.7	2563.5
50°	2332.8	2336.4	2332.8	2347.2	2347.2	2386.9	2412.1	2437.4	2455.4	2412.1	2361.6
52.5°	2152.5	2148.9	2152.5	2163.3	2177.8	2195.8	2239.1	2264.3	2293.1	2267.9	2188.6
55°	1972.2	1979.5	1972.2	1975.8	1983.0	1993.8	2058.8	2084.0	2138.1	2105.6	2022.7
57.5°	1792.0	1781.2	1792.0	1799.2	1802.8	1813.5	1867.7	1914.5	1947.0	1950.6	1849.7
60°	1582.9	1568.4	1582.9	1615.2	1622.5	1629.7	1680.2	1723.5	1752.3	1763.1	1658.5
62.5°	1398.9	1373.7	1398.9	1420.6	1435.0	1453.1	1489.1	1554.0	1579.2	1582.9	1435.0
65°	1204.3	1193.4	1204.3	1247.5	1251.1	1272.8	1312.4	1359.3	1413.4	1406.1	1193.4
67.5°	1027.6	1027.6	1027.6	1056.5	1078.0	1088.8	1139.3	1161.0	1229.5	1236.7	995.1
70°	865.3	861.7	865.3	887.0	901.4	926.6	973.5	998.7	1052.8	1070.8	807.7
72.5°	710.3	706.7	710.3	728.3	742.7	764.4	804.0	832.9	879.7	901.4	627.4
75°	573.3	566.1	573.3	587.7	584.1	612.9	645.4	674.2	717.5	731.9	465.1
77.5°	439.9	439.9	439.9	454.3	454.3	483.1	497.6	533.6	558.9	580.5	342.6
80°	328.1	324.5	328.1	331.7	331.7	346.1	371.4	396.6	418.3	418.3	234.3
82.5°	230.8	223.5	230.8	230.8	230.8	238.0	252.4	259.6	274.0	284.8	147.8
85°	144.2	144.2	144.2	147.8	144.2	151.5	155.0	162.3	162.3	155.0	90.1
87.5°	93.8	90.1	93.8	90.1	90.1	86.5	86.5	86.5	83.0	79.3	50.5
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: P934428

CATALOG NUMBER: SQ4-FA-050U-100D-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: P934428

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3865.1	3843.5	3843.5	3807.5	3793.0	3782.2	3764.2	3710.1	3695.7	3681.2	3702.9
5°	3897.6	3858.0	3829.1	3764.2	3710.1	3688.5	3620.0	3490.2	3403.6	3338.7	3302.7
7.5°	3904.8	3854.3	3800.2	3699.3	3569.5	3511.8	3302.7	3064.7	2999.8	2942.1	2906.0
10°	3897.6	3839.9	3764.2	3612.7	3306.3	3205.3	2996.2	2841.2	2801.5	2790.7	2801.5
12.5°	3872.3	3818.3	3713.7	3461.4	3032.3	2963.8	2841.2	2751.0	2743.8	2761.8	2859.2
15°	3829.1	3778.6	3656.0	3259.4	2880.8	2830.3	2743.8	2711.4	2751.0	2877.2	3169.3
17.5°	3785.8	3728.1	3576.7	3061.1	2765.5	2729.4	2668.1	2733.0	2956.5	3126.0	3223.4
20°	3728.1	3659.7	3486.5	2916.8	2682.5	2650.0	2621.2	2913.3	3082.8	3144.1	3198.1
22.5°	3659.7	3587.5	3363.9	2816.0	2596.0	2570.7	2588.7	3014.3	3082.8	3126.0	3172.9
25°	3569.5	3508.2	3219.8	2736.6	2527.5	2498.7	2567.2	3003.4	3043.1	3053.9	3147.6
27.5°	3486.5	3407.2	3068.3	2664.5	2444.6	2433.7	2585.2	2956.5	2985.4	2996.2	3097.1
30°	3385.6	3266.6	2898.8	2588.7	2358.1	2354.4	2588.7	2898.8	2891.6	2920.5	3021.5
32.5°	3281.1	3057.5	2707.7	2495.0	2275.1	2271.5	2563.5	2812.3	2805.1	2844.8	2920.5
35°	3183.7	2895.3	2448.2	2386.9	2170.6	2174.1	2502.2	2711.4	2715.0	2751.0	2797.9
37.5°	3082.8	2754.7	2163.3	2267.9	2069.6	2069.6	2419.3	2617.7	2610.4	2621.2	2686.2
40°	2963.8	2534.7	1911.0	2112.8	1975.8	1965.0	2318.4	2516.7	2491.4	2487.9	2578.0
42.5°	2837.5	2293.1	1723.5	1907.3	1867.7	1853.2	2195.8	2394.1	2347.2	2358.1	2473.4
45°	2700.5	2228.2	1579.2	1611.7	1755.9	1745.0	2062.3	2253.4	2221.0	2249.9	2368.9
47.5°	2563.5	2098.4	1532.4	1337.6	1636.9	1633.3	1914.5	2116.5	2098.4	2127.3	2253.4
50°	2376.1	1954.2	1528.7	1146.6	1503.5	1517.9	1737.9	1983.0	1983.0	2008.3	2141.6
52.5°	2134.5	1777.5	1388.1	1038.4	1348.4	1391.7	1582.9	1867.7	1874.9	1900.1	2019.1
55°	1914.5	1593.7	1287.1	955.5	1164.6	1258.3	1431.4	1748.7	1763.1	1788.3	1896.5
57.5°	1712.7	1326.8	1265.6	858.2	995.1	1085.3	1298.0	1633.3	1640.5	1662.2	1766.7
60°	1496.3	959.0	1161.0	753.5	847.3	915.8	1175.4	1496.3	1521.5	1535.9	1626.1
62.5°	1251.1	695.9	1052.8	681.4	775.2	789.7	1074.5	1366.5	1398.9	1409.8	1463.9
65°	890.5	584.1	894.2	620.2	699.5	703.1	966.3	1233.1	1261.9	1280.0	1319.6
67.5°	602.1	475.9	681.4	562.4	641.7	645.4	861.7	1078.0	1117.7	1132.1	1157.4
70°	418.3	317.3	504.8	501.2	576.9	584.1	750.0	937.5	973.5	984.3	998.7
72.5°	306.5	256.0	418.3	450.7	508.4	515.6	634.6	778.8	814.9	825.7	832.9
75°	234.3	270.4	338.9	393.0	432.6	436.3	519.2	634.6	659.9	667.0	670.6
77.5°	187.5	252.4	248.8	317.3	353.3	346.1	407.4	490.4	511.9	511.9	511.9
80°	140.6	198.3	187.5	227.1	259.6	252.4	292.1	349.8	356.9	364.1	360.6
82.5°	104.5	126.2	126.2	144.2	173.1	165.8	194.7	227.1	227.1	227.1	234.3
85°	64.9	72.1	57.7	75.7	97.3	93.8	108.2	122.6	126.2	126.2	119.0
87.5°	39.7	32.5	18.0	28.8	43.3	43.3	50.5	54.1	50.5	50.5	50.5
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: P934428

CATALOG NUMBER: SQ4-FA-050U-100D-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: P934428  
 CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-12-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3677.7	3666.8	3681.2	3641.5	3681.2	3666.8	3677.7	3702.9	3681.2	3695.7	3710.1
5°	3226.9	3208.9	3151.3	3104.4	3151.3	3208.9	3226.9	3302.7	3338.7	3403.6	3490.2
7.5°	2884.5	2870.0	2855.6	2826.7	2855.6	2870.0	2884.5	2906.0	2942.1	2999.8	3064.7
10°	2808.7	2812.3	2834.0	2830.3	2834.0	2812.3	2808.7	2801.5	2790.7	2801.5	2841.2
12.5°	3003.4	3035.8	3154.8	3147.6	3154.8	3035.8	3003.4	2859.2	2761.8	2743.8	2751.0
15°	3226.9	3237.8	3263.0	3266.6	3263.0	3237.8	3226.9	3169.3	2877.2	2751.0	2711.4
17.5°	3248.6	3252.2	3270.2	3270.2	3270.2	3252.2	3248.6	3223.4	3126.0	2956.5	2733.0
20°	3230.6	3237.8	3273.8	3281.1	3273.8	3237.8	3230.6	3198.1	3144.1	3082.8	2913.3
22.5°	3223.4	3237.8	3266.6	3263.0	3266.6	3237.8	3223.4	3172.9	3126.0	3082.8	3014.3
25°	3187.3	3187.3	3190.9	3194.5	3190.9	3187.3	3187.3	3147.6	3053.9	3043.1	3003.4
27.5°	3111.6	3118.8	3140.4	3136.8	3140.4	3118.8	3111.6	3097.1	2996.2	2985.4	2956.5
30°	3043.1	3035.8	3017.8	3003.4	3017.8	3035.8	3043.1	3021.5	2920.5	2891.6	2898.8
32.5°	2927.7	2909.7	2891.6	2880.8	2891.6	2909.7	2927.7	2920.5	2844.8	2805.1	2812.3
35°	2790.7	2794.3	2790.7	2779.9	2790.7	2794.3	2790.7	2797.9	2751.0	2715.0	2711.4
37.5°	2693.3	2700.5	2697.0	2682.5	2697.0	2700.5	2693.3	2686.2	2621.2	2610.4	2617.7
40°	2592.4	2596.0	2592.4	2581.5	2592.4	2596.0	2592.4	2578.0	2487.9	2491.4	2516.7
42.5°	2495.0	2491.4	2480.6	2473.4	2480.6	2491.4	2495.0	2473.4	2358.1	2347.2	2394.1
45°	2383.2	2386.9	2365.2	2354.4	2365.2	2386.9	2383.2	2368.9	2249.9	2221.0	2253.4
47.5°	2271.5	2271.5	2253.4	2242.6	2253.4	2271.5	2271.5	2253.4	2127.3	2098.4	2116.5
50°	2152.5	2148.9	2123.6	2120.1	2123.6	2148.9	2152.5	2141.6	2008.3	1983.0	1983.0
52.5°	2015.5	2015.5	2019.1	2026.3	2019.1	2015.5	2015.5	2019.1	1900.1	1874.9	1867.7
55°	1896.5	1900.1	1925.3	1932.5	1925.3	1900.1	1896.5	1896.5	1788.3	1763.1	1748.7
57.5°	1773.9	1773.9	1792.0	1792.0	1792.0	1773.9	1773.9	1766.7	1662.2	1640.5	1633.3
60°	1633.3	1640.5	1654.9	1651.4	1654.9	1640.5	1633.3	1626.1	1535.9	1521.5	1496.3
62.5°	1485.4	1492.7	1496.3	1489.1	1496.3	1492.7	1485.4	1463.9	1409.8	1398.9	1366.5
65°	1330.4	1337.6	1341.3	1334.1	1341.3	1337.6	1330.4	1319.6	1280.0	1261.9	1233.1
67.5°	1171.8	1168.2	1164.6	1179.0	1164.6	1168.2	1171.8	1157.4	1132.1	1117.7	1078.0
70°	1009.5	1009.5	1006.0	1013.2	1006.0	1009.5	1009.5	998.7	984.3	973.5	937.5
72.5°	836.5	832.9	847.3	836.5	847.3	832.9	836.5	832.9	825.7	814.9	778.8
75°	667.0	674.2	667.0	677.9	667.0	674.2	667.0	670.6	667.0	659.9	634.6
77.5°	508.4	515.6	508.4	508.4	508.4	515.6	508.4	511.9	511.9	511.9	490.4
80°	360.6	356.9	356.9	353.3	356.9	356.9	360.6	360.6	364.1	356.9	349.8
82.5°	230.8	227.1	227.1	234.3	227.1	227.1	230.8	234.3	227.1	227.1	227.1
85°	126.2	129.8	122.6	122.6	122.6	129.8	126.2	119.0	126.2	126.2	122.6
87.5°	46.8	43.3	43.3	43.3	43.3	43.3	46.8	50.5	50.5	50.5	54.1
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



TEST NUMBER: P934428

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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°	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3764.2	3782.2	3793.0	3807.5	3843.5
5°	3620.0	3688.5	3710.1	3764.2	3829.1
7.5°	3302.7	3511.8	3569.5	3699.3	3800.2
10°	2996.2	3205.3	3306.3	3612.7	3764.2
12.5°	2841.2	2963.8	3032.3	3461.4	3713.7
15°	2743.8	2830.3	2880.8	3259.4	3656.0
17.5°	2668.1	2729.4	2765.5	3061.1	3576.7
20°	2621.2	2650.0	2682.5	2916.8	3486.5
22.5°	2588.7	2570.7	2596.0	2816.0	3363.9
25°	2567.2	2498.7	2527.5	2736.6	3219.8
27.5°	2585.2	2433.7	2444.6	2664.5	3068.3
30°	2588.7	2354.4	2358.1	2588.7	2898.8
32.5°	2563.5	2271.5	2275.1	2495.0	2707.7
35°	2502.2	2174.1	2170.6	2386.9	2448.2
37.5°	2419.3	2069.6	2069.6	2267.9	2163.3
40°	2318.4	1965.0	1975.8	2112.8	1911.0
42.5°	2195.8	1853.2	1867.7	1907.3	1723.5
45°	2062.3	1745.0	1755.9	1611.7	1579.2
47.5°	1914.5	1633.3	1636.9	1337.6	1532.4
50°	1737.9	1517.9	1503.5	1146.6	1528.7
52.5°	1582.9	1391.7	1348.4	1038.4	1388.1
55°	1431.4	1258.3	1164.6	955.5	1287.1
57.5°	1298.0	1085.3	995.1	858.2	1265.6
60°	1175.4	915.8	847.3	753.5	1161.0
62.5°	1074.5	789.7	775.2	681.4	1052.8
65°	966.3	703.1	699.5	620.2	894.2
67.5°	861.7	645.4	641.7	562.4	681.4
70°	750.0	584.1	576.9	501.2	504.8
72.5°	634.6	515.6	508.4	450.7	418.3
75°	519.2	436.3	432.6	393.0	338.9
77.5°	407.4	346.1	353.3	317.3	248.8
80°	292.1	252.4	259.6	227.1	187.5
82.5°	194.7	165.8	173.1	144.2	126.2
85°	108.2	93.8	97.3	75.7	57.7
87.5°	50.5	43.3	43.3	28.8	18.0
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



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**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



TEST NUMBER: P934428  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.63	15.64	15.45	16.48	17.53	17.48	18.49	18.30	19.33	20.38
	3H	15.11	16.02	15.95	16.87	17.95	18.84	19.75	19.68	20.60	21.68
	4H	15.31	16.17	16.16	17.03	18.11	19.30	20.15	20.15	21.01	22.10
	6H	15.44	16.23	16.30	17.10	18.19	19.59	20.38	20.46	21.25	22.35
	8H	15.44	16.19	16.32	17.08	18.18	19.68	20.43	20.55	21.31	22.41
	12H	15.42	16.14	16.30	17.02	18.14	19.72	20.44	20.60	21.32	22.44
4H	2H	15.68	16.54	16.54	17.40	18.48	17.90	18.76	18.76	19.62	20.71
	3H	16.72	17.44	17.59	18.33	19.43	19.43	20.14	20.30	21.04	22.14
	4H	17.01	17.65	17.89	18.54	19.67	19.97	20.62	20.85	21.51	22.64
	6H	17.14	17.70	18.03	18.61	19.74	20.35	20.91	21.24	21.82	22.95
	8H	17.15	17.67	18.05	18.58	19.72	20.46	20.98	21.36	21.89	23.04
	12H	17.12	17.59	18.04	18.52	19.67	20.53	21.00	21.45	21.93	23.08
8H	4H	17.47	18.00	18.37	18.91	20.05	20.10	20.63	21.00	21.54	22.68
	6H	17.74	18.17	18.67	19.13	20.27	20.55	20.99	21.48	21.94	23.08
	8H	17.79	18.17	18.72	19.11	20.27	20.71	21.09	21.64	22.04	23.20
	12H	17.78	18.11	18.71	19.05	20.26	20.82	21.16	21.76	22.09	23.30
12H	4H	17.49	17.96	18.41	18.89	20.04	20.08	20.55	20.99	21.47	22.62
	6H	17.80	18.19	18.74	19.13	20.29	20.55	20.93	21.49	21.88	23.04
	8H	17.88	18.22	18.82	19.15	20.36	20.72	21.06	21.66	22.00	23.21