

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: P934826

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

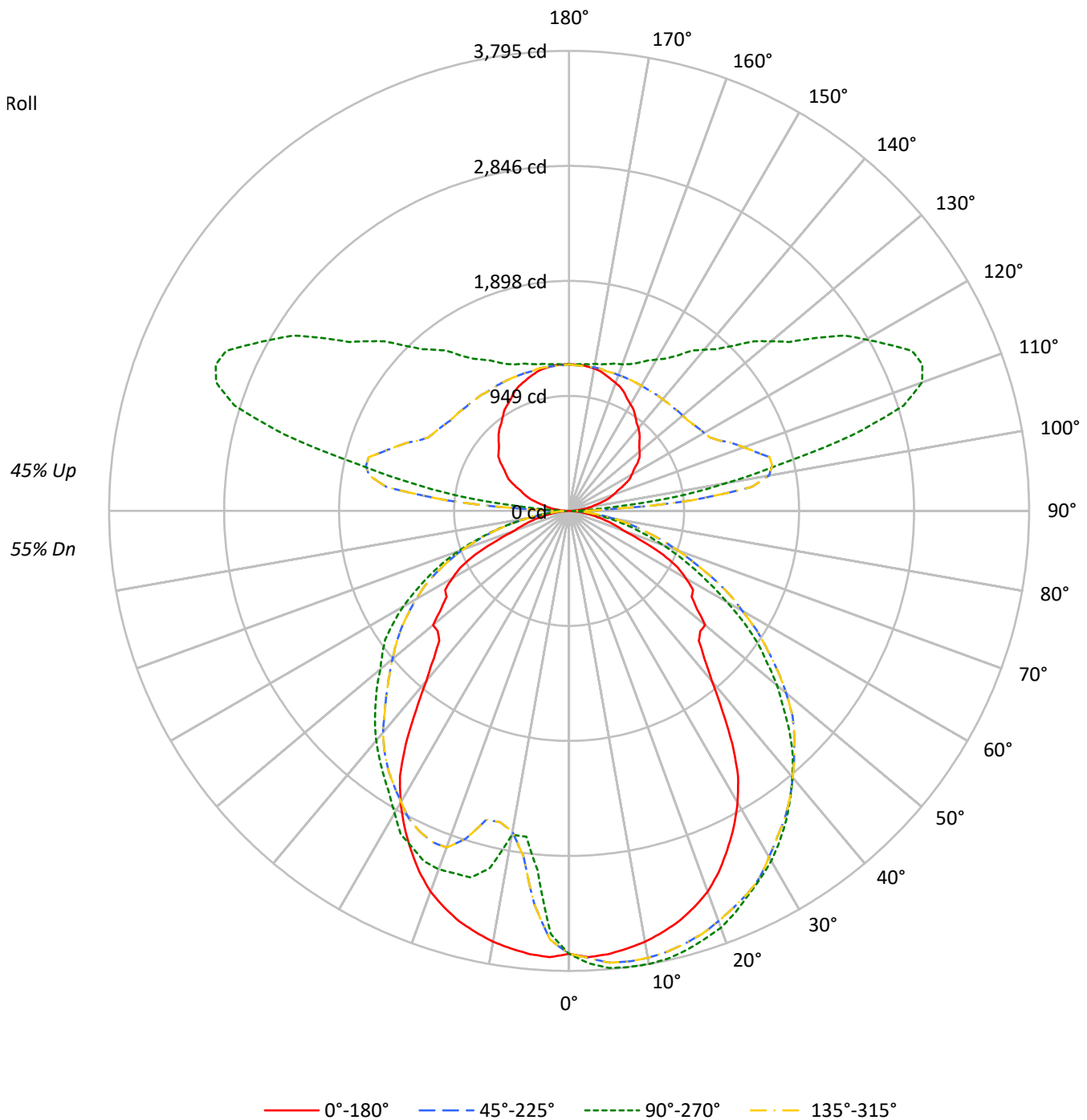
Test Method: LM-79-2019  
Report Number: P934826  
REPORT IS A COMBINATION OF REPORTS P933713 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17310.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 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): 153.6  
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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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

	0°	90°	180°	270°
0°	11301	11301	11301	11301
5°	11389	11408	11389	8970
10°	11317	11237	11317	8033
15°	11198	10993	11198	9180
20°	10969	10705	10969	9199
25°	10494	10284	10494	9004
30°	9878	9935	9878	8576
35°	8811	9493	8811	8105
40°	7346	8973	7346	7750
45°	6567	8365	6567	7342
50°	6983	7639	6983	6931
55°	6576	6856	6576	6694
60°	6787	5823	6787	6131
65°	6164	4814	6164	5381
70°	4278	3836	4278	4511
75°	3766	2836	3766	3396
80°	3056	1875	3056	2041
85°	1792	993	1792	845

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10059 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.8	1.9
10°-20°	936.4	5.4
20°-30°	1447.5	8.4
30°-40°	1728.0	10.0
40°-50°	1738.1	10.0
50°-60°	1512.3	8.7
60°-70°	1072.3	6.2
70°-80°	567.3	3.3
80°-90°	145.9	0.8
90°-100°	589.0	3.4
100°-110°	1548.5	8.9
110°-120°	1605.7	9.3
120°-130°	1287.9	7.4
130°-140°	1010.6	5.8
140°-150°	775.7	4.5
150°-160°	558.6	3.2
160°-170°	341.8	2.0
170°-180°	115.5	0.7
0°-30°	2713.6	15.7
0°-40°	4441.6	25.7
0°-60°	7692.0	44.4
0°-90°	9477.5	54.7
90°-120°	3743.2	21.6
90°-150°	6817.4	39.4
90°-180°	7833.0	45.2
0°-180°	17310.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3654	3654	3654	3654	3654	
5°	3671	3785	3671	2976	3671	348
15°	3505	3750	3505	3132	3505	986
25°	3087	3498	3087	3062	3087	1417
35°	2347	3121	2347	2665	2347	1452
45°	1514	2572	1514	2257	1514	1213
55°	1234	1898	1234	1853	1234	1134
65°	857	1144	857	1279	857	819
75°	325	543	325	650	325	342
85°	55	138	55	118	55	75
90°	8	31	8	31	8	9
95°	78	356	78	356	78	86
105°	279	2425	279	2425	279	296
115°	496	3122	496	3122	496	489
125°	689	2486	689	2486	689	612
135°	822	1929	822	1929	822	636
145°	953	1565	953	1565	953	597
155°	1077	1348	1077	1348	1077	495
165°	1162	1255	1162	1255	1162	328
175°	1208	1216	1208	1216	1208	115
180°	1208	1208	1208	1208	1208	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5
2.5°	3684.6	3684.6	3705.4	3712.2	3712.2	3701.9	3691.5	3701.9	3733.0	3743.4	3739.9
5°	3670.8	3698.5	3736.5	3743.4	3750.3	3746.9	3739.9	3746.9	3781.4	3788.3	3791.8
7.5°	3643.1	3695.0	3743.4	3753.8	3764.1	3753.8	3750.3	3757.2	3791.8	3798.7	3798.7
10°	3608.6	3681.2	3736.5	3743.4	3753.8	3743.4	3743.4	3757.2	3791.8	3798.7	3802.2
12.5°	3560.2	3660.4	3712.2	3719.2	3733.0	3729.5	3726.1	3739.9	3774.5	3781.4	3781.4
15°	3504.9	3622.4	3670.8	3677.7	3701.9	3695.0	3695.0	3708.8	3746.9	3757.2	3753.8
17.5°	3428.8	3574.0	3629.3	3639.7	3657.0	3653.5	3657.0	3670.8	3705.4	3712.2	3715.7
20°	3342.4	3508.4	3574.0	3584.4	3601.7	3601.7	3601.7	3618.9	3653.5	3667.3	3667.3
22.5°	3224.9	3439.2	3508.4	3515.3	3536.0	3536.0	3542.9	3567.1	3598.2	3601.7	3601.7
25°	3086.7	3363.2	3421.9	3442.7	3463.4	3473.7	3484.1	3498.0	3508.4	3504.9	3508.4
27.5°	2941.5	3266.4	3342.4	3356.3	3383.9	3394.3	3408.1	3411.6	3415.0	3425.3	3418.5
30°	2779.0	3131.6	3245.6	3259.5	3304.4	3311.3	3297.5	3304.4	3321.7	3328.6	3335.5
32.5°	2595.8	2931.1	3145.4	3176.5	3218.0	3197.2	3193.8	3204.2	3231.8	3231.8	3238.7
35°	2347.0	2775.6	3052.1	3079.8	3110.8	3086.7	3100.4	3103.9	3121.2	3131.6	3128.2
37.5°	2073.9	2640.8	2955.3	2976.1	3000.2	2969.1	2989.9	3000.2	3014.1	3007.1	3007.1
40°	1832.0	2429.9	2841.3	2855.0	2875.8	2851.6	2872.3	2879.3	2886.2	2879.3	2875.8
42.5°	1652.2	2198.3	2720.2	2737.6	2723.7	2741.0	2747.9	2761.7	2751.4	2737.6	2737.6
45°	1513.9	2136.1	2588.9	2609.6	2588.9	2616.5	2626.9	2626.9	2595.8	2588.9	2585.5
47.5°	1469.0	2011.7	2457.6	2457.6	2447.2	2481.7	2499.1	2474.8	2443.7	2433.4	2433.4
50°	1465.5	1873.4	2277.8	2264.0	2312.4	2353.9	2336.6	2312.4	2288.2	2250.2	2250.2
52.5°	1330.7	1704.0	2046.2	2098.1	2174.2	2198.3	2170.7	2146.5	2105.0	2087.7	2073.9
55°	1233.9	1527.8	1835.4	1939.1	2018.6	2049.7	1997.8	1973.7	1911.4	1901.0	1894.1
57.5°	1213.3	1271.9	1641.9	1773.2	1870.0	1866.5	1835.4	1790.5	1738.6	1728.3	1724.8
60°	1113.0	919.4	1434.4	1590.0	1690.3	1679.9	1652.2	1610.7	1562.3	1555.4	1548.5
62.5°	1009.3	667.1	1199.4	1375.7	1517.4	1513.9	1489.8	1427.5	1393.0	1375.7	1361.9
65°	857.2	559.9	853.7	1144.1	1348.0	1355.0	1303.1	1258.2	1220.1	1199.4	1195.9
67.5°	653.2	456.2	577.2	954.0	1185.6	1178.6	1113.0	1092.2	1043.8	1033.4	1012.8
70°	483.9	304.2	401.0	774.3	1026.6	1009.3	957.4	933.3	888.3	864.1	850.3
72.5°	401.0	245.4	293.8	601.4	864.1	843.3	798.4	770.8	732.8	712.0	698.2
75°	324.9	259.3	224.6	445.9	701.6	687.9	646.4	618.7	587.6	559.9	563.4
77.5°	238.5	242.0	179.7	328.4	556.5	535.8	511.5	477.0	463.1	435.5	435.5
80°	179.7	190.1	134.8	224.6	401.0	401.0	380.2	356.1	331.8	318.0	318.0
82.5°	121.0	121.0	100.2	141.7	273.0	262.7	248.9	242.0	228.1	221.2	221.2
85°	55.3	69.2	62.2	86.4	148.6	155.6	155.6	148.6	145.2	138.2	141.7
87.5°	17.3	31.1	38.0	48.4	76.0	79.5	82.9	82.9	82.9	86.4	86.4
90°	8.1	14.6	21.0	22.7	35.7	53.0	61.7	54.8	41.1	30.8	30.8
92.5°	32.4	87.6	142.8	156.5	220.0	304.7	347.1	304.2	218.4	154.1	148.0
95°	77.9	178.8	279.7	305.0	541.4	856.9	1014.5	905.3	686.9	523.0	504.5
97.5°	134.6	223.7	312.7	334.9	729.4	1255.2	1518.1	1449.1	1311.0	1207.5	1172.2
100°	178.4	259.2	339.9	360.1	797.7	1381.2	1673.0	1678.1	1688.2	1695.8	1653.6
102.5°	215.7	291.1	366.3	385.2	829.0	1420.9	1716.9	1804.8	1980.7	2112.6	2076.6
105°	279.0	342.8	406.5	422.5	852.3	1425.4	1712.0	1909.1	2303.5	2599.2	2579.8
107.5°	343.8	403.3	462.8	477.7	856.7	1362.0	1614.7	1889.7	2439.7	2852.2	2856.9
110°	387.6	441.3	495.1	508.5	850.1	1305.8	1533.6	1841.0	2455.9	2917.0	2937.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	430.6	481.8	533.0	545.8	850.5	1256.7	1459.8	1774.4	2403.8	2875.7	2906.7
115°	495.5	542.7	589.9	601.7	858.3	1200.4	1371.4	1674.5	2280.7	2735.4	2778.4
117.5°	559.6	602.5	645.3	656.0	874.2	1165.0	1310.5	1584.0	2131.2	2541.5	2589.2
120°	596.9	637.3	677.6	687.7	887.2	1153.2	1286.2	1536.1	2036.0	2411.0	2457.3
122.5°	633.4	674.1	714.8	725.0	905.9	1147.0	1267.5	1492.6	1942.8	2280.5	2326.2
125°	689.3	726.5	763.6	772.9	931.0	1141.8	1247.3	1438.5	1820.9	2107.7	2149.8
127.5°	734.8	772.3	809.8	819.1	956.2	1138.9	1230.3	1394.5	1722.8	1969.1	2004.5
130°	759.1	799.5	839.8	849.9	974.5	1140.6	1223.7	1369.9	1662.2	1881.4	1914.2
132.5°	784.2	824.6	864.9	875.0	989.3	1141.8	1218.1	1348.9	1610.6	1806.9	1836.2
135°	821.5	858.3	895.1	904.2	1005.6	1140.8	1208.4	1317.9	1537.0	1701.4	1726.7
137.5°	859.7	896.0	932.5	941.5	1030.0	1147.8	1206.7	1299.3	1484.6	1623.6	1644.3
140°	891.2	924.7	958.3	966.6	1044.8	1149.0	1201.1	1281.1	1441.1	1561.1	1580.5
142.5°	915.5	946.6	977.6	985.3	1057.3	1153.1	1201.1	1271.3	1411.9	1517.3	1534.0
145°	952.9	979.9	1006.9	1013.7	1073.5	1153.1	1192.9	1250.4	1365.4	1451.7	1464.3
147.5°	990.2	1016.5	1042.9	1049.4	1097.3	1161.0	1192.9	1238.2	1328.6	1396.5	1406.9
150°	1014.5	1038.3	1062.1	1068.1	1109.7	1165.2	1192.9	1231.1	1307.5	1364.8	1373.3
152.5°	1039.6	1057.7	1075.7	1080.2	1117.8	1167.9	1192.9	1225.6	1290.8	1339.7	1346.1
155°	1077.0	1090.3	1103.6	1107.0	1135.6	1173.8	1192.9	1218.9	1270.8	1309.7	1314.0
157.5°	1104.5	1117.5	1130.5	1133.7	1153.4	1179.8	1192.9	1213.1	1253.5	1283.7	1286.7
160°	1123.2	1133.3	1143.4	1145.9	1161.6	1182.5	1192.9	1210.2	1244.8	1270.8	1272.6
162.5°	1141.8	1149.4	1156.9	1158.8	1170.2	1185.4	1192.9	1207.5	1236.7	1258.6	1260.3
165°	1162.2	1169.0	1175.8	1177.5	1182.7	1189.5	1192.9	1203.4	1224.2	1239.9	1241.7
167.5°	1180.7	1184.0	1187.3	1188.1	1192.4	1198.2	1201.1	1207.9	1221.5	1231.8	1232.5
170°	1192.9	1196.2	1199.5	1200.3	1200.5	1200.9	1201.1	1207.9	1221.5	1231.8	1231.8
172.5°	1199.4	1200.1	1200.9	1201.1	1201.1	1201.1	1201.1	1206.5	1217.3	1225.4	1224.8
175°	1208.4	1208.4	1208.4	1208.4	1205.9	1202.7	1201.1	1204.5	1211.3	1216.5	1216.5
177.5°	1208.4	1208.4	1208.4	1208.4	1206.5	1203.9	1202.7	1205.4	1210.8	1214.8	1214.1
180°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5
2.5°	3746.9	3736.5	3746.9	3739.9	3743.4	3733.0	3701.9	3691.5	3701.9	3712.2	3712.2
5°	3791.8	3784.9	3791.8	3791.8	3788.3	3781.4	3746.9	3739.9	3746.9	3750.3	3743.4
7.5°	3805.6	3795.3	3805.6	3798.7	3798.7	3791.8	3757.2	3750.3	3753.8	3764.1	3753.8
10°	3805.6	3795.3	3805.6	3802.2	3798.7	3791.8	3757.2	3743.4	3743.4	3753.8	3743.4
12.5°	3788.3	3781.4	3788.3	3781.4	3781.4	3774.5	3739.9	3726.1	3729.5	3733.0	3719.2
15°	3760.6	3750.3	3760.6	3753.8	3757.2	3746.9	3708.8	3695.0	3695.0	3701.9	3677.7
17.5°	3719.2	3705.4	3719.2	3715.7	3712.2	3705.4	3670.8	3657.0	3653.5	3657.0	3639.7
20°	3670.8	3660.4	3670.8	3667.3	3667.3	3653.5	3618.9	3601.7	3601.7	3601.7	3584.4
22.5°	3594.8	3584.4	3594.8	3601.7	3601.7	3598.2	3567.1	3542.9	3536.0	3536.0	3515.3
25°	3508.4	3498.0	3508.4	3508.4	3504.9	3508.4	3498.0	3484.1	3473.7	3463.4	3442.7
27.5°	3425.3	3418.5	3425.3	3418.5	3425.3	3415.0	3411.6	3408.1	3394.3	3383.9	3356.3
30°	3342.4	3335.5	3342.4	3335.5	3328.6	3321.7	3304.4	3297.5	3311.3	3304.4	3259.5
32.5°	3238.7	3231.8	3238.7	3238.7	3231.8	3231.8	3204.2	3193.8	3197.2	3218.0	3176.5
35°	3131.6	3121.2	3131.6	3128.2	3131.6	3121.2	3103.9	3100.4	3086.7	3110.8	3079.8
37.5°	3007.1	2996.7	3007.1	3007.1	3007.1	3014.1	3000.2	2989.9	2969.1	3000.2	2976.1
40°	2879.3	2865.4	2879.3	2875.8	2879.3	2886.2	2879.3	2872.3	2851.6	2875.8	2855.0
42.5°	2734.1	2730.6	2734.1	2737.6	2737.6	2751.4	2761.7	2747.9	2741.0	2723.7	2737.6
45°	2578.5	2571.6	2578.5	2585.5	2588.9	2595.8	2626.9	2626.9	2616.5	2588.9	2609.6
47.5°	2412.7	2395.4	2412.7	2433.4	2433.4	2443.7	2474.8	2499.1	2481.7	2447.2	2457.6
50°	2236.3	2239.8	2236.3	2250.2	2250.2	2288.2	2312.4	2336.6	2353.9	2312.4	2264.0
52.5°	2063.5	2060.1	2063.5	2073.9	2087.7	2105.0	2146.5	2170.7	2198.3	2174.2	2098.1
55°	1890.7	1897.6	1890.7	1894.1	1901.0	1911.4	1973.7	1997.8	2049.7	2018.6	1939.1
57.5°	1717.9	1707.5	1717.9	1724.8	1728.3	1738.6	1790.5	1835.4	1866.5	1870.0	1773.2
60°	1517.4	1503.6	1517.4	1548.5	1555.4	1562.3	1610.7	1652.2	1679.9	1690.3	1590.0
62.5°	1341.1	1316.9	1341.1	1361.9	1375.7	1393.0	1427.5	1489.8	1513.9	1517.4	1375.7
65°	1154.5	1144.1	1154.5	1195.9	1199.4	1220.1	1258.2	1303.1	1355.0	1348.0	1144.1
67.5°	985.1	985.1	985.1	1012.8	1033.4	1043.8	1092.2	1113.0	1178.6	1185.6	954.0
70°	829.6	826.1	829.6	850.3	864.1	888.3	933.3	957.4	1009.3	1026.6	774.3
72.5°	681.0	677.5	681.0	698.2	712.0	732.8	770.8	798.4	843.3	864.1	601.4
75°	549.6	542.7	549.6	563.4	559.9	587.6	618.7	646.4	687.9	701.6	445.9
77.5°	421.7	421.7	421.7	435.5	435.5	463.1	477.0	511.5	535.8	556.5	328.4
80°	314.5	311.1	314.5	318.0	318.0	331.8	356.1	380.2	401.0	401.0	224.6
82.5°	221.2	214.3	221.2	221.2	221.2	228.1	242.0	248.9	262.7	273.0	141.7
85°	138.2	138.2	138.2	141.7	138.2	145.2	148.6	155.6	155.6	148.6	86.4
87.5°	89.9	86.4	89.9	86.4	86.4	82.9	82.9	82.9	79.5	76.0	48.4
90°	30.8	30.8	30.8	30.8	30.8	41.1	54.8	61.7	53.0	35.7	22.7
92.5°	123.5	99.0	123.5	148.0	154.1	218.4	304.2	347.1	304.7	220.0	156.5
95°	430.3	356.1	430.3	504.5	523.0	686.9	905.3	1014.5	856.9	541.4	305.0
97.5°	1030.9	889.6	1030.9	1172.2	1207.5	1311.0	1449.1	1518.1	1255.2	729.4	334.9
100°	1485.3	1317.0	1485.3	1653.6	1695.8	1688.2	1678.1	1673.0	1381.2	797.7	360.1
102.5°	1932.3	1788.2	1932.3	2076.6	2112.6	1980.7	1804.8	1716.9	1420.9	829.0	385.2
105°	2502.3	2424.8	2502.3	2579.8	2599.2	2303.5	1909.1	1712.0	1425.4	852.3	422.5
107.5°	2875.6	2894.4	2875.6	2856.9	2852.2	2439.7	1889.7	1614.7	1362.0	856.7	477.7
110°	3017.9	3098.7	3017.9	2937.2	2917.0	2455.9	1841.0	1533.6	1305.8	850.1	508.5





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3030.7	3154.7	3030.7	2906.7	2875.7	2403.8	1774.4	1459.8	1256.7	850.5	545.8
115°	2950.3	3122.2	2950.3	2778.4	2735.4	2280.7	1674.5	1371.4	1200.4	858.3	601.7
117.5°	2779.9	2970.6	2779.9	2589.2	2541.5	2131.2	1584.0	1310.5	1165.0	874.2	656.0
120°	2642.6	2827.8	2642.6	2457.3	2411.0	2036.0	1536.1	1286.2	1153.2	887.2	687.7
122.5°	2508.8	2691.6	2508.8	2326.2	2280.5	1942.8	1492.6	1267.5	1147.0	905.9	725.0
125°	2318.1	2486.4	2318.1	2149.8	2107.7	1820.9	1438.5	1247.3	1141.8	931.0	772.9
127.5°	2146.6	2288.6	2146.6	2004.5	1969.1	1722.8	1394.5	1230.3	1138.9	956.2	819.1
130°	2045.4	2176.7	2045.4	1914.2	1881.4	1662.2	1369.9	1223.7	1140.6	974.5	849.9
132.5°	1953.7	2071.3	1953.7	1836.2	1806.9	1610.6	1348.9	1218.1	1141.8	989.3	875.0
135°	1828.0	1929.3	1828.0	1726.7	1701.4	1537.0	1317.9	1208.4	1140.8	1005.6	904.2
137.5°	1727.2	1810.1	1727.2	1644.3	1623.6	1484.6	1299.3	1206.7	1147.8	1030.0	941.5
140°	1658.0	1735.4	1658.0	1580.5	1561.1	1441.1	1281.1	1201.1	1149.0	1044.8	966.6
142.5°	1600.7	1667.3	1600.7	1534.0	1517.3	1411.9	1271.3	1201.1	1153.1	1057.3	985.3
145°	1514.7	1565.1	1514.7	1464.3	1451.7	1365.4	1250.4	1192.9	1153.1	1073.5	1013.7
147.5°	1448.7	1490.6	1448.7	1406.9	1396.5	1328.6	1238.2	1192.9	1161.0	1097.3	1049.4
150°	1407.2	1441.1	1407.2	1373.3	1364.8	1307.5	1231.1	1192.9	1165.2	1109.7	1068.1
152.5°	1371.7	1397.3	1371.7	1346.1	1339.7	1290.8	1225.6	1192.9	1167.9	1117.8	1080.2
155°	1330.9	1347.8	1330.9	1314.0	1309.7	1270.8	1218.9	1192.9	1173.8	1135.6	1107.0
157.5°	1298.6	1310.5	1298.6	1286.7	1283.7	1253.5	1213.1	1192.9	1179.8	1153.4	1133.7
160°	1279.4	1286.2	1279.4	1272.6	1270.8	1244.8	1210.2	1192.9	1182.5	1161.6	1145.9
162.5°	1266.7	1273.3	1266.7	1260.3	1258.6	1236.7	1207.5	1192.9	1185.4	1170.2	1158.8
165°	1248.5	1255.4	1248.5	1241.7	1239.9	1224.2	1203.4	1192.9	1189.5	1182.7	1177.5
167.5°	1235.5	1238.4	1235.5	1232.5	1231.8	1221.5	1207.9	1201.1	1198.2	1192.4	1188.1
170°	1231.8	1231.8	1231.8	1231.8	1231.8	1221.5	1207.9	1201.1	1200.9	1200.5	1200.3
172.5°	1222.2	1219.7	1222.2	1224.8	1225.4	1217.3	1206.5	1201.1	1201.1	1201.1	1201.1
175°	1216.5	1216.5	1216.5	1216.5	1216.5	1211.3	1204.5	1201.1	1202.7	1205.9	1208.4
177.5°	1211.3	1208.4	1211.3	1214.1	1214.8	1210.8	1205.4	1202.7	1203.9	1206.5	1208.4
180°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5
2.5°	3705.4	3684.6	3684.6	3650.1	3636.2	3625.8	3608.6	3556.8	3542.9	3529.0	3549.8
5°	3736.5	3698.5	3670.8	3608.6	3556.8	3536.0	3470.3	3345.9	3262.9	3200.7	3166.2
7.5°	3743.4	3695.0	3643.1	3546.4	3421.9	3366.7	3166.2	2938.1	2875.8	2820.5	2785.9
10°	3736.5	3681.2	3608.6	3463.4	3169.6	3072.8	2872.3	2723.7	2685.7	2675.3	2685.7
12.5°	3712.2	3660.4	3560.2	3318.3	2906.9	2841.3	2723.7	2637.3	2630.4	2647.7	2741.0
15°	3670.8	3622.4	3504.9	3124.7	2761.7	2713.3	2630.4	2599.3	2637.3	2758.2	3038.3
17.5°	3629.3	3574.0	3428.8	2934.6	2651.2	2616.5	2557.8	2620.0	2834.3	2996.7	3090.1
20°	3574.0	3508.4	3342.4	2796.3	2571.6	2540.5	2512.9	2792.9	2955.3	3014.1	3065.9
22.5°	3508.4	3439.2	3224.9	2699.6	2488.7	2464.5	2481.7	2889.7	2955.3	2996.7	3041.7
25°	3421.9	3363.2	3086.7	2623.5	2423.0	2395.4	2461.1	2879.3	2917.3	2927.7	3017.5
27.5°	3342.4	3266.4	2941.5	2554.4	2343.5	2333.1	2478.3	2834.3	2862.0	2872.3	2969.1
30°	3245.6	3131.6	2779.0	2481.7	2260.6	2257.1	2481.7	2779.0	2772.1	2799.8	2896.5
32.5°	3145.4	2931.1	2595.8	2391.9	2181.0	2177.6	2457.6	2696.1	2689.2	2727.2	2799.8
35°	3052.1	2775.6	2347.0	2288.2	2080.8	2084.2	2398.8	2599.3	2602.8	2637.3	2682.2
37.5°	2955.3	2640.8	2073.9	2174.2	1984.1	1984.1	2319.3	2509.5	2502.5	2512.9	2575.1
40°	2841.3	2429.9	1832.0	2025.5	1894.1	1883.8	2222.6	2412.7	2388.4	2385.0	2471.4
42.5°	2720.2	2198.3	1652.2	1828.5	1790.5	1776.6	2105.0	2295.1	2250.2	2260.6	2371.1
45°	2588.9	2136.1	1513.9	1545.1	1683.3	1672.9	1977.1	2160.3	2129.2	2156.9	2271.0
47.5°	2457.6	2011.7	1469.0	1282.3	1569.2	1565.8	1835.4	2029.0	2011.7	2039.3	2160.3
50°	2277.8	1873.4	1465.5	1099.2	1441.4	1455.2	1666.0	1901.0	1901.0	1925.3	2053.1
52.5°	2046.2	1704.0	1330.7	995.4	1292.7	1334.2	1517.4	1790.5	1797.3	1821.6	1935.7
55°	1835.4	1527.8	1233.9	916.0	1116.5	1206.3	1372.2	1676.4	1690.3	1714.4	1818.1
57.5°	1641.9	1271.9	1213.3	822.7	954.0	1040.4	1244.3	1565.8	1572.7	1593.5	1693.7
60°	1434.4	919.4	1113.0	722.4	812.3	878.0	1126.8	1434.4	1458.7	1472.4	1558.8
62.5°	1199.4	667.1	1009.3	653.2	743.1	757.0	1030.0	1310.0	1341.1	1351.5	1403.4
65°	853.7	559.9	857.2	594.6	670.6	674.0	926.4	1182.1	1209.8	1227.0	1265.1
67.5°	577.2	456.2	653.2	539.2	615.2	618.7	826.1	1033.4	1071.5	1085.3	1109.6
70°	401.0	304.2	483.9	480.5	553.0	559.9	719.0	898.7	933.3	943.6	957.4
72.5°	293.8	245.4	401.0	432.1	487.4	494.3	608.3	746.6	781.2	791.5	798.4
75°	224.6	259.3	324.9	376.7	414.7	418.2	497.8	608.3	632.6	639.5	642.9
77.5°	179.7	242.0	238.5	304.2	338.7	331.8	390.6	470.1	490.8	490.8	490.8
80°	134.8	190.1	179.7	217.7	248.9	242.0	280.0	335.3	342.2	349.1	345.7
82.5°	100.2	121.0	121.0	138.2	165.9	159.0	186.6	217.7	217.7	217.7	224.6
85°	62.2	69.2	55.3	72.6	93.3	89.9	103.7	117.6	121.0	121.0	114.1
87.5°	38.0	31.1	17.3	27.6	41.5	41.5	48.4	51.9	48.4	48.4	48.4
90°	21.0	14.6	8.1	14.6	21.0	22.7	35.7	53.0	61.7	54.8	41.1
92.5°	142.8	87.6	32.4	87.6	142.8	156.5	220.0	304.7	347.1	304.2	218.4
95°	279.7	178.8	77.9	178.8	279.7	305.0	541.4	856.9	1014.5	905.3	686.9
97.5°	312.7	223.7	134.6	223.7	312.7	334.9	729.4	1255.2	1518.1	1449.1	1311.0
100°	339.9	259.2	178.4	259.2	339.9	360.1	797.7	1381.2	1673.0	1678.1	1688.2
102.5°	366.3	291.1	215.7	291.1	366.3	385.2	829.0	1420.9	1716.9	1804.8	1980.7
105°	406.5	342.8	279.0	342.8	406.5	422.5	852.3	1425.4	1712.0	1909.1	2303.5
107.5°	462.8	403.3	343.8	403.3	462.8	477.7	856.7	1362.0	1614.7	1889.7	2439.7
110°	495.1	441.3	387.6	441.3	495.1	508.5	850.1	1305.8	1533.6	1841.0	2455.9



TEST NUMBER: P934826

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	533.0	481.8	430.6	481.8	533.0	545.8	850.5	1256.7	1459.8	1774.4	2403.8
115°	589.9	542.7	495.5	542.7	589.9	601.7	858.3	1200.4	1371.4	1674.5	2280.7
117.5°	645.3	602.5	559.6	602.5	645.3	656.0	874.2	1165.0	1310.5	1584.0	2131.2
120°	677.6	637.3	596.9	637.3	677.6	687.7	887.2	1153.2	1286.2	1536.1	2036.0
122.5°	714.8	674.1	633.4	674.1	714.8	725.0	905.9	1147.0	1267.5	1492.6	1942.8
125°	763.6	726.5	689.3	726.5	763.6	772.9	931.0	1141.8	1247.3	1438.5	1820.9
127.5°	809.8	772.3	734.8	772.3	809.8	819.1	956.2	1138.9	1230.3	1394.5	1722.8
130°	839.8	799.5	759.1	799.5	839.8	849.9	974.5	1140.6	1223.7	1369.9	1662.2
132.5°	864.9	824.6	784.2	824.6	864.9	875.0	989.3	1141.8	1218.1	1348.9	1610.6
135°	895.1	858.3	821.5	858.3	895.1	904.2	1005.6	1140.8	1208.4	1317.9	1537.0
137.5°	932.5	896.0	859.7	896.0	932.5	941.5	1030.0	1147.8	1206.7	1299.3	1484.6
140°	958.3	924.7	891.2	924.7	958.3	966.6	1044.8	1149.0	1201.1	1281.1	1441.1
142.5°	977.6	946.6	915.5	946.6	977.6	985.3	1057.3	1153.1	1201.1	1271.3	1411.9
145°	1006.9	979.9	952.9	979.9	1006.9	1013.7	1073.5	1153.1	1192.9	1250.4	1365.4
147.5°	1042.9	1016.5	990.2	1016.5	1042.9	1049.4	1097.3	1161.0	1192.9	1238.2	1328.6
150°	1062.1	1038.3	1014.5	1038.3	1062.1	1068.1	1109.7	1165.2	1192.9	1231.1	1307.5
152.5°	1075.7	1057.7	1039.6	1057.7	1075.7	1080.2	1117.8	1167.9	1192.9	1225.6	1290.8
155°	1103.6	1090.3	1077.0	1090.3	1103.6	1107.0	1135.6	1173.8	1192.9	1218.9	1270.8
157.5°	1130.5	1117.5	1104.5	1117.5	1130.5	1133.7	1153.4	1179.8	1192.9	1213.1	1253.5
160°	1143.4	1133.3	1123.2	1133.3	1143.4	1145.9	1161.6	1182.5	1192.9	1210.2	1244.8
162.5°	1156.9	1149.4	1141.8	1149.4	1156.9	1158.8	1170.2	1185.4	1192.9	1207.5	1236.7
165°	1175.8	1169.0	1162.2	1169.0	1175.8	1177.5	1182.7	1189.5	1192.9	1203.4	1224.2
167.5°	1187.3	1184.0	1180.7	1184.0	1187.3	1188.1	1192.4	1198.2	1201.1	1207.9	1221.5
170°	1199.5	1196.2	1192.9	1196.2	1199.5	1200.3	1200.5	1200.9	1201.1	1207.9	1221.5
172.5°	1200.9	1200.1	1199.4	1200.1	1200.9	1201.1	1201.1	1201.1	1201.1	1206.5	1217.3
175°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1205.9	1202.7	1201.1	1204.5	1211.3
177.5°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1206.5	1203.9	1202.7	1205.4	1210.8
180°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4



TEST NUMBER: P934826  
 CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5	3653.5
2.5°	3525.6	3515.3	3529.0	3491.0	3529.0	3515.3	3525.6	3549.8	3529.0	3542.9	3556.8
5°	3093.5	3076.3	3021.0	2976.1	3021.0	3076.3	3093.5	3166.2	3200.7	3262.9	3345.9
7.5°	2765.2	2751.4	2737.6	2709.8	2737.6	2751.4	2765.2	2785.9	2820.5	2875.8	2938.1
10°	2692.6	2696.1	2716.8	2713.3	2716.8	2696.1	2692.6	2685.7	2675.3	2685.7	2723.7
12.5°	2879.3	2910.3	3024.4	3017.5	3024.4	2910.3	2879.3	2741.0	2647.7	2630.4	2637.3
15°	3093.5	3103.9	3128.2	3131.6	3128.2	3103.9	3093.5	3038.3	2758.2	2637.3	2599.3
17.5°	3114.3	3117.8	3135.0	3135.0	3135.0	3117.8	3114.3	3090.1	2996.7	2834.3	2620.0
20°	3097.0	3103.9	3138.5	3145.4	3138.5	3103.9	3097.0	3065.9	3014.1	2955.3	2792.9
22.5°	3090.1	3103.9	3131.6	3128.2	3131.6	3103.9	3090.1	3041.7	2996.7	2955.3	2889.7
25°	3055.5	3055.5	3059.0	3062.4	3059.0	3055.5	3055.5	3017.5	2927.7	2917.3	2879.3
27.5°	2983.0	2989.9	3010.6	3007.1	3010.6	2989.9	2983.0	2969.1	2872.3	2862.0	2834.3
30°	2917.3	2910.3	2893.1	2879.3	2893.1	2910.3	2917.3	2896.5	2799.8	2772.1	2779.0
32.5°	2806.6	2789.4	2772.1	2761.7	2772.1	2789.4	2806.6	2799.8	2727.2	2689.2	2696.1
35°	2675.3	2678.8	2675.3	2664.9	2675.3	2678.8	2675.3	2682.2	2637.3	2602.8	2599.3
37.5°	2582.0	2588.9	2585.5	2571.6	2585.5	2588.9	2582.0	2575.1	2512.9	2502.5	2509.5
40°	2485.2	2488.7	2485.2	2474.8	2485.2	2488.7	2485.2	2471.4	2385.0	2388.4	2412.7
42.5°	2391.9	2388.4	2378.0	2371.1	2378.0	2388.4	2391.9	2371.1	2260.6	2250.2	2295.1
45°	2284.7	2288.2	2267.5	2257.1	2267.5	2288.2	2284.7	2271.0	2156.9	2129.2	2160.3
47.5°	2177.6	2177.6	2160.3	2149.9	2160.3	2177.6	2177.6	2160.3	2039.3	2011.7	2029.0
50°	2063.5	2060.1	2035.9	2032.4	2035.9	2060.1	2063.5	2053.1	1925.3	1901.0	1901.0
52.5°	1932.2	1932.2	1935.7	1942.5	1935.7	1932.2	1932.2	1935.7	1821.6	1797.3	1790.5
55°	1818.1	1821.6	1845.7	1852.6	1845.7	1821.6	1818.1	1818.1	1714.4	1690.3	1676.4
57.5°	1700.6	1700.6	1717.9	1717.9	1717.9	1700.6	1700.6	1693.7	1593.5	1572.7	1565.8
60°	1565.8	1572.7	1586.5	1583.1	1586.5	1572.7	1565.8	1558.8	1472.4	1458.7	1434.4
62.5°	1424.0	1431.0	1434.4	1427.5	1434.4	1431.0	1424.0	1403.4	1351.5	1341.1	1310.0
65°	1275.4	1282.3	1285.8	1278.9	1285.8	1282.3	1275.4	1265.1	1227.0	1209.8	1182.1
67.5°	1123.4	1119.9	1116.5	1130.2	1116.5	1119.9	1123.4	1109.6	1085.3	1071.5	1033.4
70°	967.8	967.8	964.4	971.3	964.4	967.8	967.8	957.4	943.6	933.3	898.7
72.5°	801.9	798.4	812.3	801.9	812.3	798.4	801.9	798.4	791.5	781.2	746.6
75°	639.5	646.4	639.5	649.8	639.5	646.4	639.5	642.9	639.5	632.6	608.3
77.5°	487.4	494.3	487.4	487.4	487.4	494.3	487.4	490.8	490.8	490.8	470.1
80°	345.7	342.2	342.2	338.7	342.2	342.2	345.7	345.7	349.1	342.2	335.3
82.5°	221.2	217.7	217.7	224.6	217.7	217.7	221.2	224.6	217.7	217.7	217.7
85°	121.0	124.4	117.6	117.6	117.6	124.4	121.0	114.1	121.0	121.0	117.6
87.5°	44.9	41.5	41.5	41.5	41.5	41.5	44.9	48.4	48.4	48.4	51.9
90°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	41.1	54.8	61.7	53.0
92.5°	154.1	148.0	123.5	99.0	123.5	148.0	154.1	218.4	304.2	347.1	304.7
95°	523.0	504.5	430.3	356.1	430.3	504.5	523.0	686.9	905.3	1014.5	856.9
97.5°	1207.5	1172.2	1030.9	889.6	1030.9	1172.2	1207.5	1311.0	1449.1	1518.1	1255.2
100°	1695.8	1653.6	1485.3	1317.0	1485.3	1653.6	1695.8	1688.2	1678.1	1673.0	1381.2
102.5°	2112.6	2076.6	1932.3	1788.2	1932.3	2076.6	2112.6	1980.7	1804.8	1716.9	1420.9
105°	2599.2	2579.8	2502.3	2424.8	2502.3	2579.8	2599.2	2303.5	1909.1	1712.0	1425.4
107.5°	2852.2	2856.9	2875.6	2894.4	2875.6	2856.9	2852.2	2439.7	1889.7	1614.7	1362.0
110°	2917.0	2937.2	3017.9	3098.7	3017.9	2937.2	2917.0	2455.9	1841.0	1533.6	1305.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2875.7	2906.7	3030.7	3154.7	3030.7	2906.7	2875.7	2403.8	1774.4	1459.8	1256.7
115°	2735.4	2778.4	2950.3	3122.2	2950.3	2778.4	2735.4	2280.7	1674.5	1371.4	1200.4
117.5°	2541.5	2589.2	2779.9	2970.6	2779.9	2589.2	2541.5	2131.2	1584.0	1310.5	1165.0
120°	2411.0	2457.3	2642.6	2827.8	2642.6	2457.3	2411.0	2036.0	1536.1	1286.2	1153.2
122.5°	2280.5	2326.2	2508.8	2691.6	2508.8	2326.2	2280.5	1942.8	1492.6	1267.5	1147.0
125°	2107.7	2149.8	2318.1	2486.4	2318.1	2149.8	2107.7	1820.9	1438.5	1247.3	1141.8
127.5°	1969.1	2004.5	2146.6	2288.6	2146.6	2004.5	1969.1	1722.8	1394.5	1230.3	1138.9
130°	1881.4	1914.2	2045.4	2176.7	2045.4	1914.2	1881.4	1662.2	1369.9	1223.7	1140.6
132.5°	1806.9	1836.2	1953.7	2071.3	1953.7	1836.2	1806.9	1610.6	1348.9	1218.1	1141.8
135°	1701.4	1726.7	1828.0	1929.3	1828.0	1726.7	1701.4	1537.0	1317.9	1208.4	1140.8
137.5°	1623.6	1644.3	1727.2	1810.1	1727.2	1644.3	1623.6	1484.6	1299.3	1206.7	1147.8
140°	1561.1	1580.5	1658.0	1735.4	1658.0	1580.5	1561.1	1441.1	1281.1	1201.1	1149.0
142.5°	1517.3	1534.0	1600.7	1667.3	1600.7	1534.0	1517.3	1411.9	1271.3	1201.1	1153.1
145°	1451.7	1464.3	1514.7	1565.1	1514.7	1464.3	1451.7	1365.4	1250.4	1192.9	1153.1
147.5°	1396.5	1406.9	1448.7	1490.6	1448.7	1406.9	1396.5	1328.6	1238.2	1192.9	1161.0
150°	1364.8	1373.3	1407.2	1441.1	1407.2	1373.3	1364.8	1307.5	1231.1	1192.9	1165.2
152.5°	1339.7	1346.1	1371.7	1397.3	1371.7	1346.1	1339.7	1290.8	1225.6	1192.9	1167.9
155°	1309.7	1314.0	1330.9	1347.8	1330.9	1314.0	1309.7	1270.8	1218.9	1192.9	1173.8
157.5°	1283.7	1286.7	1298.6	1310.5	1298.6	1286.7	1283.7	1253.5	1213.1	1192.9	1179.8
160°	1270.8	1272.6	1279.4	1286.2	1279.4	1272.6	1270.8	1244.8	1210.2	1192.9	1182.5
162.5°	1258.6	1260.3	1266.7	1273.3	1266.7	1260.3	1258.6	1236.7	1207.5	1192.9	1185.4
165°	1239.9	1241.7	1248.5	1255.4	1248.5	1241.7	1239.9	1224.2	1203.4	1192.9	1189.5
167.5°	1231.8	1232.5	1235.5	1238.4	1235.5	1232.5	1231.8	1221.5	1207.9	1201.1	1198.2
170°	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1221.5	1207.9	1201.1	1200.9
172.5°	1225.4	1224.8	1222.2	1219.7	1222.2	1224.8	1225.4	1217.3	1206.5	1201.1	1201.1
175°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1211.3	1204.5	1201.1	1202.7
177.5°	1214.8	1214.1	1211.3	1208.4	1211.3	1214.1	1214.8	1210.8	1205.4	1202.7	1203.9
180°	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4	1208.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3653.5	3653.5	3653.5	3653.5	3653.5
2.5°	3608.6	3625.8	3636.2	3650.1	3684.6
5°	3470.3	3536.0	3556.8	3608.6	3670.8
7.5°	3166.2	3366.7	3421.9	3546.4	3643.1
10°	2872.3	3072.8	3169.6	3463.4	3608.6
12.5°	2723.7	2841.3	2906.9	3318.3	3560.2
15°	2630.4	2713.3	2761.7	3124.7	3504.9
17.5°	2557.8	2616.5	2651.2	2934.6	3428.8
20°	2512.9	2540.5	2571.6	2796.3	3342.4
22.5°	2481.7	2464.5	2488.7	2699.6	3224.9
25°	2461.1	2395.4	2423.0	2623.5	3086.7
27.5°	2478.3	2333.1	2343.5	2554.4	2941.5
30°	2481.7	2257.1	2260.6	2481.7	2779.0
32.5°	2457.6	2177.6	2181.0	2391.9	2595.8
35°	2398.8	2084.2	2080.8	2288.2	2347.0
37.5°	2319.3	1984.1	1984.1	2174.2	2073.9
40°	2222.6	1883.8	1894.1	2025.5	1832.0
42.5°	2105.0	1776.6	1790.5	1828.5	1652.2
45°	1977.1	1672.9	1683.3	1545.1	1513.9
47.5°	1835.4	1565.8	1569.2	1282.3	1469.0
50°	1666.0	1455.2	1441.4	1099.2	1465.5
52.5°	1517.4	1334.2	1292.7	995.4	1330.7
55°	1372.2	1206.3	1116.5	916.0	1233.9
57.5°	1244.3	1040.4	954.0	822.7	1213.3
60°	1126.8	878.0	812.3	722.4	1113.0
62.5°	1030.0	757.0	743.1	653.2	1009.3
65°	926.4	674.0	670.6	594.6	857.2
67.5°	826.1	618.7	615.2	539.2	653.2
70°	719.0	559.9	553.0	480.5	483.9
72.5°	608.3	494.3	487.4	432.1	401.0
75°	497.8	418.2	414.7	376.7	324.9
77.5°	390.6	331.8	338.7	304.2	238.5
80°	280.0	242.0	248.9	217.7	179.7
82.5°	186.6	159.0	165.9	138.2	121.0
85°	103.7	89.9	93.3	72.6	55.3
87.5°	48.4	41.5	41.5	27.6	17.3
90°	35.7	22.7	21.0	14.6	8.1
92.5°	220.0	156.5	142.8	87.6	32.4
95°	541.4	305.0	279.7	178.8	77.9
97.5°	729.4	334.9	312.7	223.7	134.6
100°	797.7	360.1	339.9	259.2	178.4
102.5°	829.0	385.2	366.3	291.1	215.7
105°	852.3	422.5	406.5	342.8	279.0
107.5°	856.7	477.7	462.8	403.3	343.8
110°	850.1	508.5	495.1	441.3	387.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	850.5	545.8	533.0	481.8	430.6
115°	858.3	601.7	589.9	542.7	495.5
117.5°	874.2	656.0	645.3	602.5	559.6
120°	887.2	687.7	677.6	637.3	596.9
122.5°	905.9	725.0	714.8	674.1	633.4
125°	931.0	772.9	763.6	726.5	689.3
127.5°	956.2	819.1	809.8	772.3	734.8
130°	974.5	849.9	839.8	799.5	759.1
132.5°	989.3	875.0	864.9	824.6	784.2
135°	1005.6	904.2	895.1	858.3	821.5
137.5°	1030.0	941.5	932.5	896.0	859.7
140°	1044.8	966.6	958.3	924.7	891.2
142.5°	1057.3	985.3	977.6	946.6	915.5
145°	1073.5	1013.7	1006.9	979.9	952.9
147.5°	1097.3	1049.4	1042.9	1016.5	990.2
150°	1109.7	1068.1	1062.1	1038.3	1014.5
152.5°	1117.8	1080.2	1075.7	1057.7	1039.6
155°	1135.6	1107.0	1103.6	1090.3	1077.0
157.5°	1153.4	1133.7	1130.5	1117.5	1104.5
160°	1161.6	1145.9	1143.4	1133.3	1123.2
162.5°	1170.2	1158.8	1156.9	1149.4	1141.8
165°	1182.7	1177.5	1175.8	1169.0	1162.2
167.5°	1192.4	1188.1	1187.3	1184.0	1180.7
170°	1200.5	1200.3	1199.5	1196.2	1192.9
172.5°	1201.1	1201.1	1200.9	1200.1	1199.4
175°	1205.9	1208.4	1208.4	1208.4	1208.4
177.5°	1206.5	1208.4	1208.4	1208.4	1208.4
180°	1208.4	1208.4	1208.4	1208.4	1208.4



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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	13.67	14.57	14.58	15.50	16.71	16.52	17.42	17.43	18.36	19.56
	3H	14.15	14.96	15.07	15.90	17.13	17.87	18.68	18.80	19.63	20.85
	4H	14.34	15.11	15.28	16.05	17.29	18.32	19.09	19.26	20.04	21.27
	6H	14.46	15.17	15.41	16.12	17.37	18.62	19.32	19.57	20.28	21.52
	8H	14.46	15.14	15.42	16.11	17.35	18.69	19.37	19.65	20.34	21.58
	12H	14.43	15.08	15.40	16.04	17.31	18.74	19.38	19.70	20.34	21.61
4H	2H	14.71	15.48	15.66	16.42	17.66	16.93	17.70	17.88	18.65	19.88
	3H	15.74	16.38	16.70	17.36	18.61	18.45	19.09	19.40	20.06	21.31
	4H	16.02	16.60	16.98	17.57	18.85	18.98	19.56	19.95	20.54	21.81
	6H	16.14	16.65	17.12	17.64	18.92	19.35	19.86	20.33	20.85	22.13
	8H	16.15	16.62	17.13	17.61	18.90	19.46	19.93	20.45	20.92	22.21
	12H	16.12	16.54	17.12	17.55	18.84	19.53	19.95	20.53	20.96	22.25
8H	4H	16.48	16.95	17.46	17.94	19.22	19.11	19.58	20.09	20.57	21.85
	6H	16.74	17.13	17.75	18.16	19.45	19.55	19.94	20.56	20.97	22.26
	8H	16.78	17.13	17.80	18.15	19.45	19.71	20.05	20.72	21.07	22.37
	12H	16.77	17.07	17.79	18.08	19.43	19.81	20.11	20.83	21.13	22.48
12H	4H	16.49	16.91	17.49	17.92	19.21	19.07	19.50	20.08	20.50	21.80
	6H	16.80	17.15	17.82	18.17	19.47	19.55	19.89	20.56	20.91	22.21
	8H	16.87	17.17	17.89	18.19	19.54	19.72	20.02	20.74	21.03	22.38