

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: P935646

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

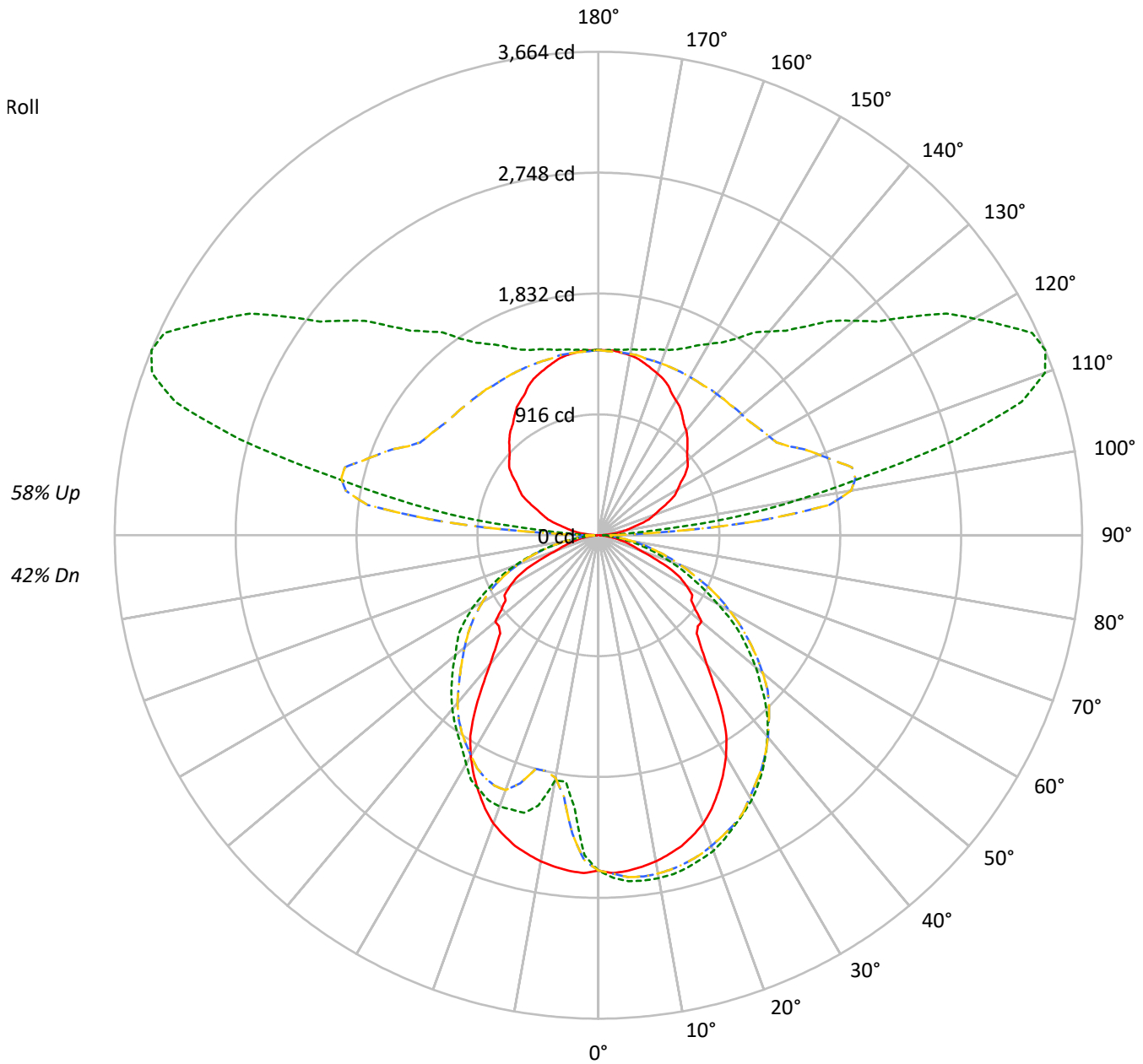
Test Method: LM-79-2019  
Report Number: P935646  
REPORT IS A COMBINATION OF REPORTS P933764 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15691.2 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 128.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

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

	0°	90°	180°	270°
0°	11788	11788	11788	11788
5°	11876	11899	11876	9357
10°	11796	11721	11796	8380
15°	11668	11467	11668	9576
20°	11424	11167	11424	9596
25°	10925	10728	10925	9392
30°	10279	10364	10279	8946
35°	9164	9903	9164	8455
40°	7635	9361	7635	8084
45°	6823	8725	6823	7658
50°	7249	7968	7249	7231
55°	6820	7152	6820	6983
60°	7030	6074	7030	6396
65°	6373	5022	6373	5613
70°	4413	4002	4413	4705
75°	3871	2958	3871	3542
80°	3119	1955	3119	2130
85°	1793	1035	1793	880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10457 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.3	1.5
10°-20°	651.2	4.1
20°-30°	1006.6	6.4
30°-40°	1201.6	7.7
40°-50°	1208.7	7.7
50°-60°	1051.7	6.7
60°-70°	745.7	4.8
70°-80°	394.5	2.5
80°-90°	103.6	0.7
90°-100°	684.1	4.4
100°-110°	1798.6	11.5
110°-120°	1865.0	11.9
120°-130°	1495.9	9.5
130°-140°	1173.8	7.5
140°-150°	900.9	5.7
150°-160°	648.8	4.1
160°-170°	397.0	2.5
170°-180°	134.1	0.9
0°-30°	1887.1	12.0
0°-40°	3088.7	19.7
0°-60°	5349.2	34.1
0°-90°	6592.9	42.0
90°-120°	4347.7	27.7
90°-150°	7918.4	50.5
90°-180°	9098.0	58.0
0°-180°	15691.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2541	2541	2541	2541	2541	
5°	2553	2632	2553	2070	2553	242
15°	2437	2608	2437	2178	2437	686
25°	2146	2433	2146	2130	2146	986
35°	1632	2171	1632	1853	1632	1010
45°	1053	1788	1053	1570	1053	843
55°	858	1320	858	1288	858	789
65°	596	796	596	889	596	570
75°	226	377	226	452	226	238
85°	38	96	38	82	38	52
90°	10	36	10	36	10	9
95°	90	414	90	414	90	100
105°	324	2816	324	2816	324	343
115°	576	3626	576	3626	576	568
125°	801	2888	801	2888	801	711
135°	954	2241	954	2241	954	738
145°	1107	1818	1107	1818	1107	693
155°	1251	1566	1251	1566	1251	575
165°	1350	1458	1350	1458	1350	381
175°	1404	1413	1404	1413	1404	133
180°	1404	1404	1404	1404	1404	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2562.4	2562.4	2576.7	2581.5	2581.5	2574.4	2567.2	2574.4	2596.0	2603.2	2600.8
5°	2552.7	2571.9	2598.4	2603.2	2608.0	2605.6	2600.8	2605.6	2629.7	2634.5	2636.9
7.5°	2533.5	2569.5	2603.2	2610.4	2617.7	2610.4	2608.0	2612.8	2636.9	2641.7	2641.7
10°	2509.4	2559.9	2598.4	2603.2	2610.4	2603.2	2603.2	2612.8	2636.9	2641.7	2644.0
12.5°	2475.8	2545.5	2581.5	2586.4	2596.0	2593.6	2591.2	2600.8	2624.8	2629.7	2629.7
15°	2437.4	2519.1	2552.7	2557.5	2574.4	2569.5	2569.5	2579.2	2605.6	2612.8	2610.4
17.5°	2384.4	2485.4	2523.9	2531.1	2543.1	2540.7	2543.1	2552.7	2576.7	2581.5	2584.0
20°	2324.4	2439.7	2485.4	2492.6	2504.7	2504.7	2504.7	2516.7	2540.7	2550.3	2550.3
22.5°	2242.6	2391.7	2439.7	2444.6	2458.9	2458.9	2463.8	2480.6	2502.2	2504.7	2504.7
25°	2146.5	2338.8	2379.6	2394.1	2408.5	2415.7	2422.9	2432.6	2439.7	2437.4	2439.7
27.5°	2045.5	2271.5	2324.4	2333.9	2353.2	2360.4	2370.1	2372.4	2374.9	2382.1	2377.2
30°	1932.5	2177.8	2257.1	2266.7	2297.9	2302.7	2293.1	2297.9	2309.9	2314.8	2319.6
32.5°	1805.2	2038.3	2187.4	2209.0	2237.8	2223.4	2221.0	2228.2	2247.4	2247.4	2252.3
35°	1632.1	1930.2	2122.5	2141.6	2163.3	2146.5	2156.1	2158.5	2170.6	2177.8	2175.3
37.5°	1442.2	1836.4	2055.1	2069.6	2086.4	2064.8	2079.2	2086.4	2096.0	2091.3	2091.3
40°	1273.9	1689.8	1975.8	1985.5	1999.8	1983.0	1997.5	2002.3	2007.1	2002.3	1999.8
42.5°	1149.0	1528.7	1891.7	1903.7	1894.1	1906.1	1911.0	1920.5	1913.3	1903.7	1903.7
45°	1052.8	1485.4	1800.4	1814.8	1800.4	1819.6	1826.8	1826.8	1805.2	1800.4	1798.0
47.5°	1021.6	1398.9	1709.0	1709.0	1701.8	1725.9	1737.9	1721.0	1699.4	1692.2	1692.2
50°	1019.2	1302.8	1584.0	1574.4	1608.1	1636.9	1624.9	1608.1	1591.2	1564.8	1564.8
52.5°	925.5	1185.0	1422.9	1459.1	1511.9	1528.7	1509.5	1492.7	1463.9	1451.9	1442.2
55°	858.2	1062.5	1276.4	1348.4	1403.8	1425.4	1389.3	1372.6	1329.3	1322.1	1317.2
57.5°	843.7	884.5	1141.8	1233.1	1300.4	1298.0	1276.4	1245.1	1209.1	1201.8	1199.4
60°	774.0	639.4	997.5	1105.7	1175.4	1168.2	1149.0	1120.1	1086.5	1081.6	1076.8
62.5°	701.9	463.9	834.0	956.7	1055.2	1052.8	1036.0	992.7	968.7	956.7	947.0
65°	596.1	389.4	593.7	795.7	937.5	942.2	906.2	875.0	848.5	834.0	831.7
67.5°	454.3	317.3	401.4	663.4	824.5	819.7	774.0	759.5	725.9	718.7	704.2
70°	336.5	211.5	278.8	538.4	713.9	701.9	665.9	649.0	617.7	600.9	591.3
72.5°	278.8	170.6	204.3	418.3	600.9	586.5	555.2	536.0	509.6	495.1	485.6
75°	226.0	180.3	156.3	310.1	487.9	478.4	449.5	430.3	408.6	389.4	391.8
77.5°	165.8	168.3	125.0	228.3	387.0	372.6	355.8	331.7	322.1	302.9	302.9
80°	125.0	132.2	93.8	156.3	278.8	278.8	264.4	247.6	230.8	221.1	221.1
82.5°	84.1	84.1	69.7	98.5	189.9	182.7	173.1	168.3	158.6	153.8	153.8
85°	38.5	48.0	43.3	60.1	103.3	108.2	108.2	103.3	101.0	96.1	98.5
87.5°	12.0	21.6	26.5	33.7	52.8	55.3	57.7	57.7	57.7	60.1	60.1
90°	9.5	17.0	24.5	26.4	41.5	61.6	71.6	63.6	47.7	35.7	35.7
92.5°	37.7	101.7	165.8	181.8	255.6	353.9	403.2	353.3	253.7	178.9	171.8
95°	90.4	207.7	324.9	354.2	628.9	995.2	1178.3	1051.5	797.8	607.5	586.0
97.5°	156.4	259.8	363.2	389.1	847.1	1458.0	1763.3	1683.2	1522.8	1402.6	1361.5
100°	207.2	301.0	394.8	418.3	926.6	1604.3	1943.3	1949.1	1960.8	1969.6	1920.8
102.5°	250.5	338.0	425.5	447.5	963.0	1650.4	1994.1	2096.3	2300.6	2453.7	2411.9
105°	324.0	398.1	472.2	490.7	990.0	1655.6	1988.5	2217.4	2675.4	3018.9	2996.4
107.5°	399.4	468.5	537.5	554.8	995.0	1581.9	1875.4	2194.9	2833.7	3312.8	3318.3
110°	450.3	512.7	575.1	590.6	987.5	1516.6	1781.3	2138.4	2852.5	3388.1	3411.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	500.2	559.6	619.1	633.9	987.8	1459.6	1695.5	2061.0	2791.9	3340.1	3376.1
115°	575.5	630.4	685.1	698.9	996.9	1394.2	1592.9	1944.9	2649.0	3177.2	3227.1
117.5°	649.9	699.8	749.5	762.0	1015.4	1353.3	1522.2	1839.9	2475.4	2952.0	3007.4
120°	693.2	740.2	787.0	798.8	1030.4	1339.4	1493.9	1784.3	2364.9	2800.4	2854.2
122.5°	735.6	782.9	830.2	842.1	1052.1	1332.2	1472.2	1733.7	2256.6	2648.8	2701.8
125°	800.7	843.8	886.9	897.6	1081.3	1326.3	1448.7	1670.8	2115.0	2448.1	2497.0
127.5°	853.4	897.0	940.5	951.4	1110.6	1322.8	1428.9	1619.6	2001.0	2287.0	2328.2
130°	881.6	928.6	975.4	987.1	1131.9	1324.9	1421.4	1591.1	1930.7	2185.3	2223.4
132.5°	910.8	957.8	1004.6	1016.3	1149.1	1326.3	1414.8	1566.8	1870.7	2098.6	2132.7
135°	954.2	996.9	1039.6	1050.3	1168.0	1325.0	1403.5	1530.7	1785.3	1976.2	2005.6
137.5°	998.4	1040.7	1083.0	1093.6	1196.3	1333.2	1401.6	1509.2	1724.4	1885.8	1909.9
140°	1035.2	1074.1	1113.0	1122.8	1213.5	1334.5	1395.0	1488.0	1673.8	1813.3	1835.7
142.5°	1063.5	1099.5	1135.4	1144.4	1227.9	1339.3	1395.0	1476.6	1639.9	1762.3	1781.7
145°	1106.8	1138.1	1169.6	1177.4	1246.8	1339.3	1385.6	1452.3	1586.0	1686.1	1700.7
147.5°	1150.1	1180.7	1211.3	1218.9	1274.5	1348.5	1385.6	1438.1	1543.2	1622.1	1634.2
150°	1178.3	1206.0	1233.6	1240.6	1288.9	1353.4	1385.6	1429.9	1518.7	1585.3	1595.1
152.5°	1207.5	1228.5	1249.4	1254.7	1298.3	1356.5	1385.6	1423.5	1499.3	1556.1	1563.6
155°	1250.9	1266.4	1281.9	1285.8	1319.1	1363.4	1385.6	1415.8	1476.1	1521.3	1526.2
157.5°	1283.0	1298.0	1313.1	1316.8	1339.7	1370.3	1385.6	1409.0	1455.9	1491.1	1494.5
160°	1304.6	1316.3	1328.1	1331.0	1349.2	1373.5	1385.6	1405.7	1445.9	1476.0	1478.0
162.5°	1326.3	1335.0	1343.8	1346.0	1359.2	1376.7	1385.6	1402.5	1436.4	1461.9	1463.8
165°	1349.8	1357.8	1365.7	1367.7	1373.6	1381.6	1385.6	1397.7	1422.0	1440.2	1442.2
167.5°	1371.5	1375.2	1379.0	1379.9	1384.9	1391.7	1395.0	1402.9	1418.9	1430.8	1431.6
170°	1385.6	1389.4	1393.2	1394.1	1394.4	1394.8	1395.0	1402.9	1418.9	1430.8	1430.8
172.5°	1393.1	1393.9	1394.8	1395.0	1395.0	1395.0	1395.0	1401.3	1413.8	1423.3	1422.6
175°	1403.5	1403.5	1403.5	1403.5	1400.7	1396.9	1395.0	1399.0	1406.9	1412.9	1412.9
177.5°	1403.5	1403.5	1403.5	1403.5	1401.3	1398.4	1396.9	1400.0	1406.3	1411.0	1410.2
180°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2605.6	2598.4	2605.6	2600.8	2603.2	2596.0	2574.4	2567.2	2574.4	2581.5	2581.5
5°	2636.9	2632.0	2636.9	2636.9	2634.5	2629.7	2605.6	2600.8	2605.6	2608.0	2603.2
7.5°	2646.5	2639.2	2646.5	2641.7	2641.7	2636.9	2612.8	2608.0	2610.4	2617.7	2610.4
10°	2646.5	2639.2	2646.5	2644.0	2641.7	2636.9	2612.8	2603.2	2603.2	2610.4	2603.2
12.5°	2634.5	2629.7	2634.5	2629.7	2629.7	2624.8	2600.8	2591.2	2593.6	2596.0	2586.4
15°	2615.2	2608.0	2615.2	2610.4	2612.8	2605.6	2579.2	2569.5	2569.5	2574.4	2557.5
17.5°	2586.4	2576.7	2586.4	2584.0	2581.5	2576.7	2552.7	2543.1	2540.7	2543.1	2531.1
20°	2552.7	2545.5	2552.7	2550.3	2550.3	2540.7	2516.7	2504.7	2504.7	2504.7	2492.6
22.5°	2499.9	2492.6	2499.9	2504.7	2504.7	2502.2	2480.6	2463.8	2458.9	2458.9	2444.6
25°	2439.7	2432.6	2439.7	2439.7	2437.4	2439.7	2432.6	2422.9	2415.7	2408.5	2394.1
27.5°	2382.1	2377.2	2382.1	2377.2	2382.1	2374.9	2372.4	2370.1	2360.4	2353.2	2333.9
30°	2324.4	2319.6	2324.4	2319.6	2314.8	2309.9	2297.9	2293.1	2302.7	2297.9	2266.7
32.5°	2252.3	2247.4	2252.3	2252.3	2247.4	2247.4	2228.2	2221.0	2223.4	2237.8	2209.0
35°	2177.8	2170.6	2177.8	2175.3	2177.8	2170.6	2158.5	2156.1	2146.5	2163.3	2141.6
37.5°	2091.3	2084.0	2091.3	2091.3	2091.3	2096.0	2086.4	2079.2	2064.8	2086.4	2069.6
40°	2002.3	1992.7	2002.3	1999.8	2002.3	2007.1	2002.3	1997.5	1983.0	1999.8	1985.5
42.5°	1901.3	1899.0	1901.3	1903.7	1903.7	1913.3	1920.5	1911.0	1906.1	1894.1	1903.7
45°	1793.2	1788.3	1793.2	1798.0	1800.4	1805.2	1826.8	1826.8	1819.6	1800.4	1814.8
47.5°	1677.7	1665.7	1677.7	1692.2	1692.2	1699.4	1721.0	1737.9	1725.9	1701.8	1709.0
50°	1555.2	1557.6	1555.2	1564.8	1564.8	1591.2	1608.1	1624.9	1636.9	1608.1	1574.4
52.5°	1435.0	1432.6	1435.0	1442.2	1451.9	1463.9	1492.7	1509.5	1528.7	1511.9	1459.1
55°	1314.8	1319.6	1314.8	1317.2	1322.1	1329.3	1372.6	1389.3	1425.4	1403.8	1348.4
57.5°	1194.6	1187.4	1194.6	1199.4	1201.8	1209.1	1245.1	1276.4	1298.0	1300.4	1233.1
60°	1055.2	1045.6	1055.2	1076.8	1081.6	1086.5	1120.1	1149.0	1168.2	1175.4	1105.7
62.5°	932.7	915.8	932.7	947.0	956.7	968.7	992.7	1036.0	1052.8	1055.2	956.7
65°	802.8	795.7	802.8	831.7	834.0	848.5	875.0	906.2	942.2	937.5	795.7
67.5°	685.0	685.0	685.0	704.2	718.7	725.9	759.5	774.0	819.7	824.5	663.4
70°	576.9	574.5	576.9	591.3	600.9	617.7	649.0	665.9	701.9	713.9	538.4
72.5°	473.6	471.1	473.6	485.6	495.1	509.6	536.0	555.2	586.5	600.9	418.3
75°	382.2	377.4	382.2	391.8	389.4	408.6	430.3	449.5	478.4	487.9	310.1
77.5°	293.3	293.3	293.3	302.9	302.9	322.1	331.7	355.8	372.6	387.0	228.3
80°	218.8	216.3	218.8	221.1	221.1	230.8	247.6	264.4	278.8	278.8	156.3
82.5°	153.8	149.0	153.8	153.8	153.8	158.6	168.3	173.1	182.7	189.9	98.5
85°	96.1	96.1	96.1	98.5	96.1	101.0	103.3	108.2	108.2	103.3	60.1
87.5°	62.5	60.1	62.5	60.1	60.1	57.7	57.7	57.7	55.3	52.8	33.7
90°	35.7	35.7	35.7	35.7	35.7	47.7	63.6	71.6	61.6	41.5	26.4
92.5°	143.4	114.9	143.4	171.8	178.9	253.7	353.3	403.2	353.9	255.6	181.8
95°	499.8	413.5	499.8	586.0	607.5	797.8	1051.5	1178.3	995.2	628.9	354.2
97.5°	1197.4	1033.3	1197.4	1361.5	1402.6	1522.8	1683.2	1763.3	1458.0	847.1	389.1
100°	1725.2	1529.7	1725.2	1920.8	1969.6	1960.8	1949.1	1943.3	1604.3	926.6	418.3
102.5°	2244.4	2077.0	2244.4	2411.9	2453.7	2300.6	2096.3	1994.1	1650.4	963.0	447.5
105°	2906.4	2816.4	2906.4	2996.4	3018.9	2675.4	2217.4	1988.5	1655.6	990.0	490.7
107.5°	3340.0	3361.7	3340.0	3318.3	3312.8	2833.7	2194.9	1875.4	1581.9	995.0	554.8
110°	3505.4	3599.2	3505.4	3411.6	3388.1	2852.5	2138.4	1781.3	1516.6	987.5	590.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3520.1	3664.1	3520.1	3376.1	3340.1	2791.9	2061.0	1695.5	1459.6	987.8	633.9
115°	3426.8	3626.4	3426.8	3227.1	3177.2	2649.0	1944.9	1592.9	1394.2	996.9	698.9
117.5°	3228.8	3450.3	3228.8	3007.4	2952.0	2475.4	1839.9	1522.2	1353.3	1015.4	762.0
120°	3069.4	3284.5	3069.4	2854.2	2800.4	2364.9	1784.3	1493.9	1339.4	1030.4	798.8
122.5°	2914.1	3126.3	2914.1	2701.8	2648.8	2256.6	1733.7	1472.2	1332.2	1052.1	842.1
125°	2692.5	2888.0	2692.5	2497.0	2448.1	2115.0	1670.8	1448.7	1326.3	1081.3	897.6
127.5°	2493.2	2658.1	2493.2	2328.2	2287.0	2001.0	1619.6	1428.9	1322.8	1110.6	951.4
130°	2375.8	2528.2	2375.8	2223.4	2185.3	1930.7	1591.1	1421.4	1324.9	1131.9	987.1
132.5°	2269.3	2405.7	2269.3	2132.7	2098.6	1870.7	1566.8	1414.8	1326.3	1149.1	1016.3
135°	2123.3	2240.9	2123.3	2005.6	1976.2	1785.3	1530.7	1403.5	1325.0	1168.0	1050.3
137.5°	2006.1	2102.4	2006.1	1909.9	1885.8	1724.4	1509.2	1401.6	1333.2	1196.3	1093.6
140°	1925.8	2015.8	1925.8	1835.7	1813.3	1673.8	1488.0	1395.0	1334.5	1213.5	1122.8
142.5°	1859.1	1936.6	1859.1	1781.7	1762.3	1639.9	1476.6	1395.0	1339.3	1227.9	1144.4
145°	1759.3	1817.9	1759.3	1700.7	1686.1	1586.0	1452.3	1385.6	1339.3	1246.8	1177.4
147.5°	1682.7	1731.3	1682.7	1634.2	1622.1	1543.2	1438.1	1385.6	1348.5	1274.5	1218.9
150°	1634.5	1673.8	1634.5	1595.1	1585.3	1518.7	1429.9	1385.6	1353.4	1288.9	1240.6
152.5°	1593.2	1623.0	1593.2	1563.6	1556.1	1499.3	1423.5	1385.6	1356.5	1298.3	1254.7
155°	1545.8	1565.5	1545.8	1526.2	1521.3	1476.1	1415.8	1385.6	1363.4	1319.1	1285.8
157.5°	1508.4	1522.2	1508.4	1494.5	1491.1	1455.9	1409.0	1385.6	1370.3	1339.7	1316.8
160°	1485.9	1493.9	1485.9	1478.0	1476.0	1445.9	1405.7	1385.6	1373.5	1349.2	1331.0
162.5°	1471.3	1478.9	1471.3	1463.8	1461.9	1436.4	1402.5	1385.6	1376.7	1359.2	1346.0
165°	1450.1	1458.1	1450.1	1442.2	1440.2	1422.0	1397.7	1385.6	1381.6	1373.6	1367.7
167.5°	1435.0	1438.3	1435.0	1431.6	1430.8	1418.9	1402.9	1395.0	1391.7	1384.9	1379.9
170°	1430.8	1430.8	1430.8	1430.8	1430.8	1418.9	1402.9	1395.0	1394.8	1394.4	1394.1
172.5°	1419.6	1416.7	1419.6	1422.6	1423.3	1413.8	1401.3	1395.0	1395.0	1395.0	1395.0
175°	1412.9	1412.9	1412.9	1412.9	1412.9	1406.9	1399.0	1395.0	1396.9	1400.7	1403.5
177.5°	1406.8	1403.5	1406.8	1410.2	1411.0	1406.3	1400.0	1396.9	1398.4	1401.3	1403.5
180°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5



TEST NUMBER: P935646

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2576.7	2562.4	2562.4	2538.3	2528.7	2521.5	2509.4	2473.4	2463.8	2454.2	2468.6
5°	2598.4	2571.9	2552.7	2509.4	2473.4	2458.9	2413.3	2326.8	2269.1	2225.8	2201.8
7.5°	2603.2	2569.5	2533.5	2466.2	2379.6	2341.2	2201.8	2043.1	1999.8	1961.5	1937.3
10°	2598.4	2559.9	2509.4	2408.5	2204.1	2136.9	1997.5	1894.1	1867.7	1860.5	1867.7
12.5°	2581.5	2545.5	2475.8	2307.6	2021.5	1975.8	1894.1	1834.0	1829.2	1841.2	1906.1
15°	2552.7	2519.1	2437.4	2172.9	1920.5	1886.9	1829.2	1807.5	1834.0	1918.2	2112.8
17.5°	2523.9	2485.4	2384.4	2040.8	1843.7	1819.6	1778.7	1822.0	1971.0	2084.0	2148.9
20°	2485.4	2439.7	2324.4	1944.6	1788.3	1766.7	1747.5	1942.2	2055.1	2096.0	2132.1
22.5°	2439.7	2391.7	2242.6	1877.3	1730.7	1713.8	1725.9	2009.5	2055.1	2084.0	2115.3
25°	2379.6	2338.8	2146.5	1824.4	1685.0	1665.7	1711.4	2002.3	2028.7	2035.9	2098.4
27.5°	2324.4	2271.5	2045.5	1776.3	1629.7	1622.5	1723.5	1971.0	1990.3	1997.5	2064.8
30°	2257.1	2177.8	1932.5	1725.9	1572.0	1569.6	1725.9	1932.5	1927.8	1947.0	2014.3
32.5°	2187.4	2038.3	1805.2	1663.4	1516.7	1514.4	1709.0	1874.9	1870.0	1896.5	1947.0
35°	2122.5	1930.2	1632.1	1591.2	1447.1	1449.4	1668.2	1807.5	1810.0	1834.0	1865.3
37.5°	2055.1	1836.4	1442.2	1511.9	1379.7	1379.7	1612.9	1745.0	1740.3	1747.5	1790.7
40°	1975.8	1689.8	1273.9	1408.6	1317.2	1310.0	1545.6	1677.7	1660.9	1658.5	1718.7
42.5°	1891.7	1528.7	1149.0	1271.6	1245.1	1235.5	1463.9	1596.0	1564.8	1572.0	1648.9
45°	1800.4	1485.4	1052.8	1074.5	1170.6	1163.4	1374.9	1502.3	1480.7	1499.9	1579.2
47.5°	1709.0	1398.9	1021.6	891.8	1091.3	1088.8	1276.4	1410.9	1398.9	1418.2	1502.3
50°	1584.0	1302.8	1019.2	764.4	1002.3	1012.0	1158.6	1322.1	1322.1	1338.9	1427.8
52.5°	1422.9	1185.0	925.5	692.2	899.0	927.8	1055.2	1245.1	1249.9	1266.8	1346.1
55°	1276.4	1062.5	858.2	637.0	776.4	838.9	954.3	1165.8	1175.4	1192.3	1264.3
57.5°	1141.8	884.5	843.7	572.1	663.4	723.5	865.3	1088.8	1093.7	1108.1	1177.8
60°	997.5	639.4	774.0	502.4	564.9	610.5	783.6	997.5	1014.3	1024.0	1084.1
62.5°	834.0	463.9	701.9	454.3	516.8	526.4	716.3	911.0	932.7	939.8	975.9
65°	593.7	389.4	596.1	413.4	466.3	468.7	644.2	822.0	841.3	853.3	879.7
67.5°	401.4	317.3	454.3	375.0	427.9	430.3	574.5	718.7	745.2	754.7	771.6
70°	278.8	211.5	336.5	334.1	384.6	389.4	499.9	624.9	649.0	656.2	665.9
72.5°	204.3	170.6	278.8	300.5	338.9	343.8	423.1	519.2	543.2	550.4	555.2
75°	156.3	180.3	226.0	262.0	288.4	290.8	346.1	423.1	439.9	444.7	447.1
77.5°	125.0	168.3	165.8	211.5	235.6	230.8	271.6	326.9	341.3	341.3	341.3
80°	93.8	132.2	125.0	151.5	173.1	168.3	194.7	233.1	238.0	242.8	240.3
82.5°	69.7	84.1	84.1	96.1	115.3	110.6	129.8	151.5	151.5	151.5	156.3
85°	43.3	48.0	38.5	50.5	64.9	62.5	72.1	81.7	84.1	84.1	79.3
87.5°	26.5	21.6	12.0	19.2	28.8	28.8	33.7	36.0	33.7	33.7	33.7
90°	24.5	17.0	9.5	17.0	24.5	26.4	41.5	61.6	71.6	63.6	47.7
92.5°	165.8	101.7	37.7	101.7	165.8	181.8	255.6	353.9	403.2	353.3	253.7
95°	324.9	207.7	90.4	207.7	324.9	354.2	628.9	995.2	1178.3	1051.5	797.8
97.5°	363.2	259.8	156.4	259.8	363.2	389.1	847.1	1458.0	1763.3	1683.2	1522.8
100°	394.8	301.0	207.2	301.0	394.8	418.3	926.6	1604.3	1943.3	1949.1	1960.8
102.5°	425.5	338.0	250.5	338.0	425.5	447.5	963.0	1650.4	1994.1	2096.3	2300.6
105°	472.2	398.1	324.0	398.1	472.2	490.7	990.0	1655.6	1988.5	2217.4	2675.4
107.5°	537.5	468.5	399.4	468.5	537.5	554.8	995.0	1581.9	1875.4	2194.9	2833.7
110°	575.1	512.7	450.3	512.7	575.1	590.6	987.5	1516.6	1781.3	2138.4	2852.5



TEST NUMBER: P935646

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	619.1	559.6	500.2	559.6	619.1	633.9	987.8	1459.6	1695.5	2061.0	2791.9
115°	685.1	630.4	575.5	630.4	685.1	698.9	996.9	1394.2	1592.9	1944.9	2649.0
117.5°	749.5	699.8	649.9	699.8	749.5	762.0	1015.4	1353.3	1522.2	1839.9	2475.4
120°	787.0	740.2	693.2	740.2	787.0	798.8	1030.4	1339.4	1493.9	1784.3	2364.9
122.5°	830.2	782.9	735.6	782.9	830.2	842.1	1052.1	1332.2	1472.2	1733.7	2256.6
125°	886.9	843.8	800.7	843.8	886.9	897.6	1081.3	1326.3	1448.7	1670.8	2115.0
127.5°	940.5	897.0	853.4	897.0	940.5	951.4	1110.6	1322.8	1428.9	1619.6	2001.0
130°	975.4	928.6	881.6	928.6	975.4	987.1	1131.9	1324.9	1421.4	1591.1	1930.7
132.5°	1004.6	957.8	910.8	957.8	1004.6	1016.3	1149.1	1326.3	1414.8	1566.8	1870.7
135°	1039.6	996.9	954.2	996.9	1039.6	1050.3	1168.0	1325.0	1403.5	1530.7	1785.3
137.5°	1083.0	1040.7	998.4	1040.7	1083.0	1093.6	1196.3	1333.2	1401.6	1509.2	1724.4
140°	1113.0	1074.1	1035.2	1074.1	1113.0	1122.8	1213.5	1334.5	1395.0	1488.0	1673.8
142.5°	1135.4	1099.5	1063.5	1099.5	1135.4	1144.4	1227.9	1339.3	1395.0	1476.6	1639.9
145°	1169.6	1138.1	1106.8	1138.1	1169.6	1177.4	1246.8	1339.3	1385.6	1452.3	1586.0
147.5°	1211.3	1180.7	1150.1	1180.7	1211.3	1218.9	1274.5	1348.5	1385.6	1438.1	1543.2
150°	1233.6	1206.0	1178.3	1206.0	1233.6	1240.6	1288.9	1353.4	1385.6	1429.9	1518.7
152.5°	1249.4	1228.5	1207.5	1228.5	1249.4	1254.7	1298.3	1356.5	1385.6	1423.5	1499.3
155°	1281.9	1266.4	1250.9	1266.4	1281.9	1285.8	1319.1	1363.4	1385.6	1415.8	1476.1
157.5°	1313.1	1298.0	1283.0	1298.0	1313.1	1316.8	1339.7	1370.3	1385.6	1409.0	1455.9
160°	1328.1	1316.3	1304.6	1316.3	1328.1	1331.0	1349.2	1373.5	1385.6	1405.7	1445.9
162.5°	1343.8	1335.0	1326.3	1335.0	1343.8	1346.0	1359.2	1376.7	1385.6	1402.5	1436.4
165°	1365.7	1357.8	1349.8	1357.8	1365.7	1367.7	1373.6	1381.6	1385.6	1397.7	1422.0
167.5°	1379.0	1375.2	1371.5	1375.2	1379.0	1379.9	1384.9	1391.7	1395.0	1402.9	1418.9
170°	1393.2	1389.4	1385.6	1389.4	1393.2	1394.1	1394.4	1394.8	1395.0	1402.9	1418.9
172.5°	1394.8	1393.9	1393.1	1393.9	1394.8	1395.0	1395.0	1395.0	1395.0	1401.3	1413.8
175°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1400.7	1396.9	1395.0	1399.0	1406.9
177.5°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1401.3	1398.4	1396.9	1400.0	1406.3
180°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5



TEST NUMBER: P935646

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2451.7	2444.6	2454.2	2427.7	2454.2	2444.6	2451.7	2468.6	2454.2	2463.8	2473.4
5°	2151.3	2139.3	2100.8	2069.6	2100.8	2139.3	2151.3	2201.8	2225.8	2269.1	2326.8
7.5°	1923.0	1913.3	1903.7	1884.5	1903.7	1913.3	1923.0	1937.3	1961.5	1999.8	2043.1
10°	1872.5	1874.9	1889.3	1886.9	1889.3	1874.9	1872.5	1867.7	1860.5	1867.7	1894.1
12.5°	2002.3	2023.9	2103.3	2098.4	2103.3	2023.9	2002.3	1906.1	1841.2	1829.2	1834.0
15°	2151.3	2158.5	2175.3	2177.8	2175.3	2158.5	2151.3	2112.8	1918.2	1834.0	1807.5
17.5°	2165.8	2168.1	2180.1	2180.1	2180.1	2168.1	2165.8	2148.9	2084.0	1971.0	1822.0
20°	2153.7	2158.5	2182.6	2187.4	2182.6	2158.5	2153.7	2132.1	2096.0	2055.1	1942.2
22.5°	2148.9	2158.5	2177.8	2175.3	2177.8	2158.5	2148.9	2115.3	2084.0	2055.1	2009.5
25°	2124.8	2124.8	2127.3	2129.6	2127.3	2124.8	2124.8	2098.4	2035.9	2028.7	2002.3
27.5°	2074.4	2079.2	2093.6	2091.3	2093.6	2079.2	2074.4	2064.8	1997.5	1990.3	1971.0
30°	2028.7	2023.9	2011.8	2002.3	2011.8	2023.9	2028.7	2014.3	1947.0	1927.8	1932.5
32.5°	1951.8	1939.8	1927.8	1920.5	1927.8	1939.8	1951.8	1947.0	1896.5	1870.0	1874.9
35°	1860.5	1862.8	1860.5	1853.2	1860.5	1862.8	1860.5	1865.3	1834.0	1810.0	1807.5
37.5°	1795.5	1800.4	1798.0	1788.3	1798.0	1800.4	1795.5	1790.7	1747.5	1740.3	1745.0
40°	1728.2	1730.7	1728.2	1721.0	1728.2	1730.7	1728.2	1718.7	1658.5	1660.9	1677.7
42.5°	1663.4	1660.9	1653.7	1648.9	1653.7	1660.9	1663.4	1648.9	1572.0	1564.8	1596.0
45°	1588.9	1591.2	1576.9	1569.6	1576.9	1591.2	1588.9	1579.2	1499.9	1480.7	1502.3
47.5°	1514.4	1514.4	1502.3	1495.1	1502.3	1514.4	1514.4	1502.3	1418.2	1398.9	1410.9
50°	1435.0	1432.6	1415.8	1413.4	1415.8	1432.6	1435.0	1427.8	1338.9	1322.1	1322.1
52.5°	1343.6	1343.6	1346.1	1350.9	1346.1	1343.6	1343.6	1346.1	1266.8	1249.9	1245.1
55°	1264.3	1266.8	1283.6	1288.4	1283.6	1266.8	1264.3	1264.3	1192.3	1175.4	1165.8
57.5°	1182.6	1182.6	1194.6	1194.6	1194.6	1182.6	1182.6	1177.8	1108.1	1093.7	1088.8
60°	1088.8	1093.7	1103.3	1100.9	1103.3	1093.7	1088.8	1084.1	1024.0	1014.3	997.5
62.5°	990.3	995.1	997.5	992.7	997.5	995.1	990.3	975.9	939.8	932.7	911.0
65°	887.0	891.8	894.2	889.4	894.2	891.8	887.0	879.7	853.3	841.3	822.0
67.5°	781.2	778.8	776.4	786.0	776.4	778.8	781.2	771.6	754.7	745.2	718.7
70°	673.0	673.0	670.6	675.4	670.6	673.0	673.0	665.9	656.2	649.0	624.9
72.5°	557.7	555.2	564.9	557.7	564.9	555.2	557.7	555.2	550.4	543.2	519.2
75°	444.7	449.5	444.7	451.9	444.7	449.5	444.7	447.1	444.7	439.9	423.1
77.5°	338.9	343.8	338.9	338.9	338.9	343.8	338.9	341.3	341.3	341.3	326.9
80°	240.3	238.0	238.0	235.6	238.0	238.0	240.3	240.3	242.8	238.0	233.1
82.5°	153.8	151.5	151.5	156.3	151.5	151.5	153.8	156.3	151.5	151.5	151.5
85°	84.1	86.5	81.7	81.7	81.7	86.5	84.1	79.3	84.1	84.1	81.7
87.5°	31.3	28.8	28.8	28.8	28.8	28.8	31.3	33.7	33.7	33.7	36.0
90°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	47.7	63.6	71.6	61.6
92.5°	178.9	171.8	143.4	114.9	143.4	171.8	178.9	253.7	353.3	403.2	353.9
95°	607.5	586.0	499.8	413.5	499.8	586.0	607.5	797.8	1051.5	1178.3	995.2
97.5°	1402.6	1361.5	1197.4	1033.3	1197.4	1361.5	1402.6	1522.8	1683.2	1763.3	1458.0
100°	1969.6	1920.8	1725.2	1529.7	1725.2	1920.8	1969.6	1960.8	1949.1	1943.3	1604.3
102.5°	2453.7	2411.9	2244.4	2077.0	2244.4	2411.9	2453.7	2300.6	2096.3	1994.1	1650.4
105°	3018.9	2996.4	2906.4	2816.4	2906.4	2996.4	3018.9	2675.4	2217.4	1988.5	1655.6
107.5°	3312.8	3318.3	3340.0	3361.7	3340.0	3318.3	3312.8	2833.7	2194.9	1875.4	1581.9
110°	3388.1	3411.6	3505.4	3599.2	3505.4	3411.6	3388.1	2852.5	2138.4	1781.3	1516.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3340.1	3376.1	3520.1	3664.1	3520.1	3376.1	3340.1	2791.9	2061.0	1695.5	1459.6
115°	3177.2	3227.1	3426.8	3626.4	3426.8	3227.1	3177.2	2649.0	1944.9	1592.9	1394.2
117.5°	2952.0	3007.4	3228.8	3450.3	3228.8	3007.4	2952.0	2475.4	1839.9	1522.2	1353.3
120°	2800.4	2854.2	3069.4	3284.5	3069.4	2854.2	2800.4	2364.9	1784.3	1493.9	1339.4
122.5°	2648.8	2701.8	2914.1	3126.3	2914.1	2701.8	2648.8	2256.6	1733.7	1472.2	1332.2
125°	2448.1	2497.0	2692.5	2888.0	2692.5	2497.0	2448.1	2115.0	1670.8	1448.7	1326.3
127.5°	2287.0	2328.2	2493.2	2658.1	2493.2	2328.2	2287.0	2001.0	1619.6	1428.9	1322.8
130°	2185.3	2223.4	2375.8	2528.2	2375.8	2223.4	2185.3	1930.7	1591.1	1421.4	1324.9
132.5°	2098.6	2132.7	2269.3	2405.7	2269.3	2132.7	2098.6	1870.7	1566.8	1414.8	1326.3
135°	1976.2	2005.6	2123.3	2240.9	2123.3	2005.6	1976.2	1785.3	1530.7	1403.5	1325.0
137.5°	1885.8	1909.9	2006.1	2102.4	2006.1	1909.9	1885.8	1724.4	1509.2	1401.6	1333.2
140°	1813.3	1835.7	1925.8	2015.8	1925.8	1835.7	1813.3	1673.8	1488.0	1395.0	1334.5
142.5°	1762.3	1781.7	1859.1	1936.6	1859.1	1781.7	1762.3	1639.9	1476.6	1395.0	1339.3
145°	1686.1	1700.7	1759.3	1817.9	1759.3	1700.7	1686.1	1586.0	1452.3	1385.6	1339.3
147.5°	1622.1	1634.2	1682.7	1731.3	1682.7	1634.2	1622.1	1543.2	1438.1	1385.6	1348.5
150°	1585.3	1595.1	1634.5	1673.8	1634.5	1595.1	1585.3	1518.7	1429.9	1385.6	1353.4
152.5°	1556.1	1563.6	1593.2	1623.0	1593.2	1563.6	1556.1	1499.3	1423.5	1385.6	1356.5
155°	1521.3	1526.2	1545.8	1565.5	1545.8	1526.2	1521.3	1476.1	1415.8	1385.6	1363.4
157.5°	1491.1	1494.5	1508.4	1522.2	1508.4	1494.5	1491.1	1455.9	1409.0	1385.6	1370.3
160°	1476.0	1478.0	1485.9	1493.9	1485.9	1478.0	1476.0	1445.9	1405.7	1385.6	1373.5
162.5°	1461.9	1463.8	1471.3	1478.9	1471.3	1463.8	1461.9	1436.4	1402.5	1385.6	1376.7
165°	1440.2	1442.2	1450.1	1458.1	1450.1	1442.2	1440.2	1422.0	1397.7	1385.6	1381.6
167.5°	1430.8	1431.6	1435.0	1438.3	1435.0	1431.6	1430.8	1418.9	1402.9	1395.0	1391.7
170°	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1430.8	1418.9	1402.9	1395.0	1394.8
172.5°	1423.3	1422.6	1419.6	1416.7	1419.6	1422.6	1423.3	1413.8	1401.3	1395.0	1395.0
175°	1412.9	1412.9	1412.9	1412.9	1412.9	1412.9	1412.9	1406.9	1399.0	1395.0	1396.9
177.5°	1411.0	1410.2	1406.8	1403.5	1406.8	1410.2	1411.0	1406.3	1400.0	1396.9	1398.4
180°	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5	1403.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2540.7	2540.7	2540.7	2540.7	2540.7
2.5°	2509.4	2521.5	2528.7	2538.3	2562.4
5°	2413.3	2458.9	2473.4	2509.4	2552.7
7.5°	2201.8	2341.2	2379.6	2466.2	2533.5
10°	1997.5	2136.9	2204.1	2408.5	2509.4
12.5°	1894.1	1975.8	2021.5	2307.6	2475.8
15°	1829.2	1886.9	1920.5	2172.9	2437.4
17.5°	1778.7	1819.6	1843.7	2040.8	2384.4
20°	1747.5	1766.7	1788.3	1944.6	2324.4
22.5°	1725.9	1713.8	1730.7	1877.3	2242.6
25°	1711.4	1665.7	1685.0	1824.4	2146.5
27.5°	1723.5	1622.5	1629.7	1776.3	2045.5
30°	1725.9	1569.6	1572.0	1725.9	1932.5
32.5°	1709.0	1514.4	1516.7	1663.4	1805.2
35°	1668.2	1449.4	1447.1	1591.2	1632.1
37.5°	1612.9	1379.7	1379.7	1511.9	1442.2
40°	1545.6	1310.0	1317.2	1408.6	1273.9
42.5°	1463.9	1235.5	1245.1	1271.6	1149.0
45°	1374.9	1163.4	1170.6	1074.5	1052.8
47.5°	1276.4	1088.8	1091.3	891.8	1021.6
50°	1158.6	1012.0	1002.3	764.4	1019.2
52.5°	1055.2	927.8	899.0	692.2	925.5
55°	954.3	838.9	776.4	637.0	858.2
57.5°	865.3	723.5	663.4	572.1	843.7
60°	783.6	610.5	564.9	502.4	774.0
62.5°	716.3	526.4	516.8	454.3	701.9
65°	644.2	468.7	466.3	413.4	596.1
67.5°	574.5	430.3	427.9	375.0	454.3
70°	499.9	389.4	384.6	334.1	336.5
72.5°	423.1	343.8	338.9	300.5	278.8
75°	346.1	290.8	288.4	262.0	226.0
77.5°	271.6	230.8	235.6	211.5	165.8
80°	194.7	168.3	173.1	151.5	125.0
82.5°	129.8	110.6	115.3	96.1	84.1
85°	72.1	62.5	64.9	50.5	38.5
87.5°	33.7	28.8	28.8	19.2	12.0
90°	41.5	26.4	24.5	17.0	9.5
92.5°	255.6	181.8	165.8	101.7	37.7
95°	628.9	354.2	324.9	207.7	90.4
97.5°	847.1	389.1	363.2	259.8	156.4
100°	926.6	418.3	394.8	301.0	207.2
102.5°	963.0	447.5	425.5	338.0	250.5
105°	990.0	490.7	472.2	398.1	324.0
107.5°	995.0	554.8	537.5	468.5	399.4
110°	987.5	590.6	575.1	512.7	450.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	987.8	633.9	619.1	559.6	500.2
115°	996.9	698.9	685.1	630.4	575.5
117.5°	1015.4	762.0	749.5	699.8	649.9
120°	1030.4	798.8	787.0	740.2	693.2
122.5°	1052.1	842.1	830.2	782.9	735.6
125°	1081.3	897.6	886.9	843.8	800.7
127.5°	1110.6	951.4	940.5	897.0	853.4
130°	1131.9	987.1	975.4	928.6	881.6
132.5°	1149.1	1016.3	1004.6	957.8	910.8
135°	1168.0	1050.3	1039.6	996.9	954.2
137.5°	1196.3	1093.6	1083.0	1040.7	998.4
140°	1213.5	1122.8	1113.0	1074.1	1035.2
142.5°	1227.9	1144.4	1135.4	1099.5	1063.5
145°	1246.8	1177.4	1169.6	1138.1	1106.8
147.5°	1274.5	1218.9	1211.3	1180.7	1150.1
150°	1288.9	1240.6	1233.6	1206.0	1178.3
152.5°	1298.3	1254.7	1249.4	1228.5	1207.5
155°	1319.1	1285.8	1281.9	1266.4	1250.9
157.5°	1339.7	1316.8	1313.1	1298.0	1283.0
160°	1349.2	1331.0	1328.1	1316.3	1304.6
162.5°	1359.2	1346.0	1343.8	1335.0	1326.3
165°	1373.6	1367.7	1365.7	1357.8	1349.8
167.5°	1384.9	1379.9	1379.0	1375.2	1371.5
170°	1394.4	1394.1	1393.2	1389.4	1385.6
172.5°	1395.0	1395.0	1394.8	1393.9	1393.1
175°	1400.7	1403.5	1403.5	1403.5	1403.5
177.5°	1401.3	1403.5	1403.5	1403.5	1403.5
180°	1403.5	1403.5	1403.5	1403.5	1403.5



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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	12.59	13.39	13.62	14.42	15.80	15.43	16.22	16.45	17.26	18.64
	3H	13.07	13.78	14.10	14.82	16.22	16.77	17.48	17.81	18.52	19.92
	4H	13.25	13.93	14.30	14.97	16.38	17.22	17.89	18.26	18.93	20.34
	6H	13.37	13.99	14.42	15.03	16.46	17.50	18.12	18.55	19.17	20.59
	8H	13.37	13.96	14.43	15.02	16.44	17.57	18.16	18.63	19.23	20.64
	12H	13.34	13.90	14.40	14.95	16.39	17.61	18.17	18.68	19.23	20.67
4H	2H	13.62	14.29	14.67	15.34	16.74	15.83	16.50	16.88	17.55	18.96
	3H	14.64	15.20	15.70	16.27	17.69	17.33	17.89	18.39	18.96	20.39
	4H	14.91	15.43	15.98	16.49	17.93	17.86	18.37	18.93	19.44	20.88
	6H	15.03	15.48	16.11	16.56	18.00	18.22	18.66	19.30	19.75	21.19
	8H	15.04	15.45	16.11	16.53	17.98	18.33	18.74	19.41	19.82	21.27
	12H	15.00	15.38	16.10	16.47	17.92	18.38	18.76	19.48	19.85	21.31
8H	4H	15.36	15.77	16.44	16.85	18.31	17.98	18.39	19.05	19.47	20.92
	6H	15.62	15.96	16.72	17.08	18.53	18.41	18.76	19.51	19.87	21.32
	8H	15.66	15.96	16.77	17.06	18.53	18.57	18.87	19.67	19.97	21.44
	12H	15.64	15.91	16.75	17.00	18.51	18.66	18.93	19.77	20.02	21.53
12H	4H	15.37	15.74	16.46	16.83	18.29	17.94	18.31	19.03	19.40	20.86
	6H	15.68	15.98	16.79	17.08	18.55	18.41	18.71	19.52	19.81	21.28
	8H	15.75	16.01	16.85	17.11	18.61	18.57	18.83	19.68	19.93	21.44