

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: P935188

Luminaire Tested: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

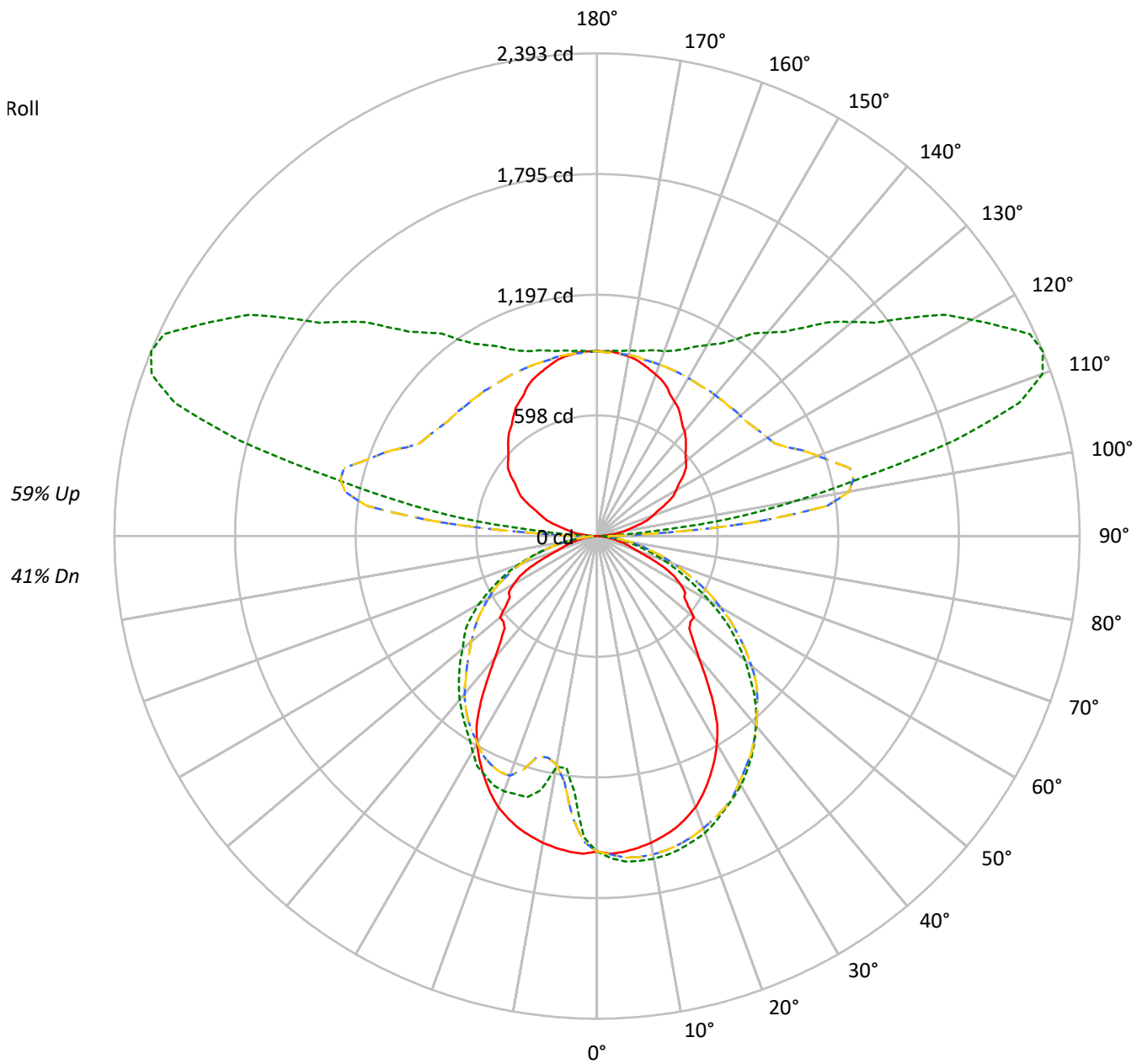
Test Method: LM-79-2019  
Report Number: P935188  
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9999.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 73.8  
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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CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-6-3000K

### 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	
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	9671	9671	9671	9671
5°	9740	9762	9740	7676
10°	9671	9616	9671	6875
15°	9562	9408	9562	7856
20°	9358	9161	9358	7872
25°	8945	8801	8945	7705
30°	8413	8502	8413	7339
35°	7496	8124	7496	6937
40°	6243	7679	6243	6633
45°	5574	7158	5574	6283
50°	5918	6537	5918	5932
55°	5562	5868	5562	5728
60°	5726	4984	5726	5247
65°	5184	4119	5184	4605
70°	3582	3283	3582	3860
75°	3128	2427	3128	2907
80°	2503	1604	2503	1747
85°	1413	850	1413	723

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8549 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	1.4
10°-20°	400.7	4.0
20°-30°	619.4	6.2
30°-40°	739.4	7.4
40°-50°	743.7	7.4
50°-60°	647.1	6.5
60°-70°	458.8	4.6
70°-80°	242.7	2.4
80°-90°	64.0	0.6
90°-100°	446.8	4.5
100°-110°	1174.7	11.7
110°-120°	1218.0	12.2
120°-130°	977.0	9.8
130°-140°	766.6	7.7
140°-150°	588.4	5.9
150°-160°	423.7	4.2
160°-170°	259.3	2.6
170°-180°	87.6	0.9
0°-30°	1161.1	11.6
0°-40°	1900.5	19.0
0°-60°	3291.4	32.9
0°-90°	4056.9	40.6
90°-120°	2839.5	28.4
90°-150°	5171.5	51.7
90°-180°	5942.0	59.4
0°-180°	9999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1563	1563	1563	1563	1563	
5°	1571	1620	1571	1273	1571	149
15°	1500	1605	1500	1340	1500	422
25°	1321	1497	1321	1310	1321	606
35°	1004	1336	1004	1140	1004	621
45°	648	1100	648	966	648	519
55°	528	812	528	793	528	485
65°	367	490	367	547	367	351
75°	139	232	139	278	139	146
85°	24	59	24	50	24	32
90°	6	23	6	23	6	6
95°	59	270	59	270	59	66
105°	212	1839	212	1839	212	224
115°	376	2368	376	2368	376	371
125°	523	1886	523	1886	523	464
135°	623	1464	623	1464	623	482
145°	723	1187	723	1187	723	453
155°	817	1022	817	1022	817	375
165°	882	952	882	952	882	249
175°	917	923	917	923	917	87
180°	917	917	917	917	917	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1576.6	1576.6	1585.5	1588.4	1588.4	1584.0	1579.6	1584.0	1597.3	1601.8	1600.3
5°	1570.7	1582.5	1598.8	1601.8	1604.7	1603.2	1600.3	1603.2	1618.0	1621.0	1622.5
7.5°	1558.9	1581.1	1601.8	1606.2	1610.6	1606.2	1604.7	1607.7	1622.5	1625.4	1625.4
10°	1544.1	1575.1	1598.8	1601.8	1606.2	1601.8	1601.8	1607.7	1622.5	1625.4	1626.9
12.5°	1523.4	1566.3	1588.4	1591.4	1597.3	1595.8	1594.4	1600.3	1615.1	1618.0	1618.0
15°	1499.7	1550.0	1570.7	1573.7	1584.0	1581.1	1581.1	1587.0	1603.2	1607.7	1606.2
17.5°	1467.2	1529.3	1553.0	1557.4	1564.8	1563.3	1564.8	1570.7	1585.5	1588.4	1589.9
20°	1430.2	1501.2	1529.3	1533.7	1541.1	1541.1	1541.1	1548.5	1563.3	1569.2	1569.2
22.5°	1379.9	1471.6	1501.2	1504.1	1513.0	1513.0	1516.0	1526.3	1539.6	1541.1	1541.1
25°	1320.7	1439.1	1464.2	1473.1	1482.0	1486.4	1490.8	1496.7	1501.2	1499.7	1501.2
27.5°	1258.6	1397.7	1430.2	1436.1	1447.9	1452.4	1458.3	1459.8	1461.3	1465.7	1462.7
30°	1189.1	1340.0	1388.8	1394.7	1413.9	1416.9	1411.0	1413.9	1421.3	1424.3	1427.2
32.5°	1110.7	1254.2	1345.9	1359.2	1376.9	1368.1	1366.6	1371.0	1382.9	1382.9	1385.8
35°	1004.2	1187.6	1306.0	1317.8	1331.1	1320.7	1326.7	1328.1	1335.5	1340.0	1338.5
37.5°	887.4	1130.0	1264.5	1273.4	1283.8	1270.5	1279.3	1283.8	1289.7	1286.7	1286.7
40°	783.9	1039.7	1215.7	1221.7	1230.5	1220.2	1229.0	1232.0	1235.0	1232.0	1230.5
42.5°	707.0	940.6	1164.0	1171.4	1165.5	1172.8	1175.8	1181.7	1177.3	1171.4	1171.4
45°	647.8	914.0	1107.8	1116.6	1107.8	1119.6	1124.0	1124.0	1110.7	1107.8	1106.3
47.5°	628.6	860.8	1051.6	1051.6	1047.1	1061.9	1069.3	1059.0	1045.7	1041.2	1041.2
50°	627.1	801.6	974.7	968.7	989.5	1007.2	999.8	989.5	979.1	962.8	962.8
52.5°	569.4	729.1	875.6	897.8	930.3	940.6	928.8	918.5	900.7	893.3	887.4
55°	528.0	653.7	785.3	829.7	863.7	877.0	854.9	844.5	817.9	813.4	810.5
57.5°	519.1	544.3	702.5	758.7	800.1	798.7	785.3	766.1	743.9	739.5	738.0
60°	476.2	393.4	613.8	680.3	723.2	718.8	707.0	689.2	668.5	665.6	662.6
62.5°	431.9	285.4	513.2	588.6	649.3	647.8	637.4	610.8	596.0	588.6	582.7
65°	366.8	239.6	365.3	489.5	576.8	579.8	557.6	538.4	522.1	513.2	511.7
67.5°	279.5	195.2	247.0	408.2	507.3	504.3	476.2	467.4	446.7	442.2	433.3
70°	207.1	130.2	171.6	331.3	439.3	431.9	409.7	399.3	380.1	369.8	363.8
72.5°	171.6	105.0	125.7	257.3	369.8	360.9	341.6	329.8	313.5	304.7	298.8
75°	139.0	110.9	96.1	190.8	300.2	294.3	276.6	264.7	251.4	239.6	241.1
77.5°	102.1	103.5	76.9	140.5	238.1	229.2	218.9	204.1	198.2	186.4	186.4
80°	76.9	81.3	57.7	96.1	171.6	171.6	162.7	152.3	142.0	136.1	136.1
82.5°	51.8	51.8	42.9	60.6	116.8	112.4	106.5	103.5	97.6	94.7	94.7
85°	23.7	29.6	26.6	37.0	63.6	66.6	66.6	63.6	62.1	59.2	60.6
87.5°	7.4	13.3	16.3	20.7	32.5	34.0	35.5	35.5	35.5	37.0	37.0
90°	6.1	11.0	16.0	17.3	27.1	40.2	46.7	41.5	31.2	23.4	23.4
92.5°	24.6	66.5	108.3	118.7	166.9	231.1	263.3	230.7	165.6	116.8	112.2
95°	59.1	135.6	212.2	231.3	410.8	650.0	769.6	686.7	521.0	396.8	382.7
97.5°	102.1	169.7	237.2	254.1	553.2	952.2	1151.6	1099.3	994.6	916.0	889.2
100°	135.4	196.6	257.8	273.1	605.1	1047.7	1269.1	1272.9	1280.6	1286.3	1254.4
102.5°	163.7	220.9	278.0	292.3	629.0	1077.9	1302.3	1369.1	1502.5	1602.5	1575.2
105°	211.6	260.0	308.4	320.5	646.6	1081.3	1298.7	1448.2	1747.3	1971.6	1956.9
107.5°	260.8	306.0	351.1	362.4	649.9	1033.1	1224.8	1433.4	1850.6	2163.6	2167.1
110°	294.0	334.7	375.6	385.7	644.9	990.5	1163.3	1396.5	1862.9	2212.8	2228.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	326.7	365.5	404.4	414.0	645.1	953.3	1107.3	1346.0	1823.4	2181.4	2204.9
115°	375.9	411.7	447.4	456.4	651.1	910.5	1040.2	1270.2	1730.1	2075.0	2107.7
117.5°	424.5	457.0	489.5	497.6	663.1	883.8	994.1	1201.6	1616.6	1927.9	1964.1
120°	452.8	483.4	514.0	521.7	673.0	874.8	975.6	1165.3	1544.5	1828.9	1864.0
122.5°	480.5	511.3	542.3	550.0	687.1	870.0	961.5	1132.3	1473.8	1729.8	1764.5
125°	522.9	551.1	579.3	586.3	706.3	866.2	946.2	1091.2	1381.3	1598.9	1630.8
127.5°	557.4	585.8	614.3	621.4	725.3	863.9	933.2	1057.8	1306.8	1493.7	1520.6
130°	575.8	606.5	637.1	644.7	739.3	865.3	928.3	1039.1	1260.9	1427.2	1452.1
132.5°	594.9	625.5	656.1	663.8	750.5	866.2	924.0	1023.3	1221.8	1370.6	1392.9
135°	623.2	651.1	679.0	686.0	762.9	865.3	916.6	999.7	1165.9	1290.7	1309.9
137.5°	652.0	679.6	707.4	714.3	781.3	870.7	915.4	985.7	1126.2	1231.6	1247.3
140°	676.1	701.5	727.0	733.3	792.5	871.5	911.1	971.8	1093.2	1184.2	1198.9
142.5°	694.5	718.1	741.6	747.5	802.0	874.7	911.1	964.4	1071.0	1151.0	1163.6
145°	722.8	743.3	763.9	769.0	814.3	874.8	905.0	948.5	1035.8	1101.2	1110.7
147.5°	751.1	771.1	791.0	796.0	832.3	880.7	905.0	939.3	1007.9	1059.4	1067.2
150°	769.6	787.6	805.7	810.2	841.7	883.9	905.0	933.9	991.8	1035.3	1041.7
152.5°	788.7	802.4	816.0	819.5	848.0	885.9	905.0	929.7	979.2	1016.3	1021.1
155°	817.0	827.1	837.1	839.7	861.5	890.5	905.0	924.7	964.0	993.5	996.7
157.5°	837.9	847.8	857.5	860.0	875.0	895.0	905.0	920.2	950.9	973.9	976.1
160°	852.0	859.7	867.4	869.3	881.2	897.1	905.0	918.1	944.3	964.0	965.3
162.5°	866.2	871.9	877.6	879.1	887.7	899.2	905.0	916.0	938.2	954.7	955.9
165°	881.6	886.7	891.9	893.2	897.2	902.4	905.0	912.8	928.7	940.6	941.9
167.5°	895.7	898.1	900.6	901.2	904.5	908.9	911.1	916.3	926.6	934.4	935.0
170°	905.0	907.4	909.9	910.5	910.7	911.0	911.1	916.3	926.6	934.4	934.4
172.5°	909.9	910.4	911.0	911.1	911.1	911.1	911.1	915.2	923.4	929.5	929.0
175°	916.6	916.6	916.6	916.6	914.7	912.2	911.1	913.6	918.9	922.8	922.8
177.5°	916.6	916.6	916.6	916.6	915.2	913.3	912.3	914.4	918.5	921.5	920.9
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1603.2	1598.8	1603.2	1600.3	1601.8	1597.3	1584.0	1579.6	1584.0	1588.4	1588.4
5°	1622.5	1619.5	1622.5	1622.5	1621.0	1618.0	1603.2	1600.3	1603.2	1604.7	1601.8
7.5°	1628.4	1623.9	1628.4	1625.4	1625.4	1622.5	1607.7	1604.7	1606.2	1610.6	1606.2
10°	1628.4	1623.9	1628.4	1626.9	1625.4	1622.5	1607.7	1601.8	1601.8	1606.2	1601.8
12.5°	1621.0	1618.0	1621.0	1618.0	1618.0	1615.1	1600.3	1594.4	1595.8	1597.3	1591.4
15°	1609.2	1604.7	1609.2	1606.2	1607.7	1603.2	1587.0	1581.1	1581.1	1584.0	1573.7
17.5°	1591.4	1585.5	1591.4	1589.9	1588.4	1585.5	1570.7	1564.8	1563.3	1564.8	1557.4
20°	1570.7	1566.3	1570.7	1569.2	1569.2	1563.3	1548.5	1541.1	1541.1	1541.1	1533.7
22.5°	1538.2	1533.7	1538.2	1541.1	1541.1	1539.6	1526.3	1516.0	1513.0	1513.0	1504.1
25°	1501.2	1496.7	1501.2	1501.2	1499.7	1501.2	1496.7	1490.8	1486.4	1482.0	1473.1
27.5°	1465.7	1462.7	1465.7	1462.7	1465.7	1461.3	1459.8	1458.3	1452.4	1447.9	1436.1
30°	1430.2	1427.2	1430.2	1427.2	1424.3	1421.3	1413.9	1411.0	1416.9	1413.9	1394.7
32.5°	1385.8	1382.9	1385.8	1385.8	1382.9	1382.9	1371.0	1366.6	1368.1	1376.9	1359.2
35°	1340.0	1335.5	1340.0	1338.5	1340.0	1335.5	1328.1	1326.7	1320.7	1331.1	1317.8
37.5°	1286.7	1282.3	1286.7	1286.7	1286.7	1289.7	1283.8	1279.3	1270.5	1283.8	1273.4
40°	1232.0	1226.1	1232.0	1230.5	1232.0	1235.0	1232.0	1229.0	1220.2	1230.5	1221.7
42.5°	1169.9	1168.4	1169.9	1171.4	1171.4	1177.3	1181.7	1175.8	1172.8	1165.5	1171.4
45°	1103.3	1100.4	1103.3	1106.3	1107.8	1110.7	1124.0	1124.0	1119.6	1107.8	1116.6
47.5°	1032.3	1024.9	1032.3	1041.2	1041.2	1045.7	1059.0	1069.3	1061.9	1047.1	1051.6
50°	956.9	958.4	956.9	962.8	962.8	979.1	989.5	999.8	1007.2	989.5	968.7
52.5°	883.0	881.5	883.0	887.4	893.3	900.7	918.5	928.8	940.6	930.3	897.8
55°	809.0	812.0	809.0	810.5	813.4	817.9	844.5	854.9	877.0	863.7	829.7
57.5°	735.1	730.6	735.1	738.0	739.5	743.9	766.1	785.3	798.7	800.1	758.7
60°	649.3	643.4	649.3	662.6	665.6	668.5	689.2	707.0	718.8	723.2	680.3
62.5°	573.9	563.5	573.9	582.7	588.6	596.0	610.8	637.4	647.8	649.3	588.6
65°	494.0	489.5	494.0	511.7	513.2	522.1	538.4	557.6	579.8	576.8	489.5
67.5°	421.5	421.5	421.5	433.3	442.2	446.7	467.4	476.2	504.3	507.3	408.2
70°	355.0	353.5	355.0	363.8	369.8	380.1	399.3	409.7	431.9	439.3	331.3
72.5°	291.4	289.9	291.4	298.8	304.7	313.5	329.8	341.6	360.9	369.8	257.3
75°	235.2	232.2	235.2	241.1	239.6	251.4	264.7	276.6	294.3	300.2	190.8
77.5°	180.4	180.4	180.4	186.4	186.4	198.2	204.1	218.9	229.2	238.1	140.5
80°	134.6	133.1	134.6	136.1	136.1	142.0	152.3	162.7	171.6	171.6	96.1
82.5°	94.7	91.7	94.7	94.7	94.7	97.6	103.5	106.5	112.4	116.8	60.6
85°	59.2	59.2	59.2	60.6	59.2	62.1	63.6	66.6	66.6	63.6	37.0
87.5°	38.5	37.0	38.5	37.0	37.0	35.5	35.5	35.5	34.0	32.5	20.7
90°	23.4	23.4	23.4	23.4	23.4	31.2	41.5	46.7	40.2	27.1	17.3
92.5°	93.6	75.0	93.6	112.2	116.8	165.6	230.7	263.3	231.1	166.9	118.7
95°	326.4	270.1	326.4	382.7	396.8	521.0	686.7	769.6	650.0	410.8	231.3
97.5°	782.0	674.8	782.0	889.2	916.0	994.6	1099.3	1151.6	952.2	553.2	254.1
100°	1126.7	999.0	1126.7	1254.4	1286.3	1280.6	1272.9	1269.1	1047.7	605.1	273.1
102.5°	1465.8	1356.4	1465.8	1575.2	1602.5	1502.5	1369.1	1302.3	1077.9	629.0	292.3
105°	1898.1	1839.4	1898.1	1956.9	1971.6	1747.3	1448.2	1298.7	1081.3	646.6	320.5
107.5°	2181.4	2195.6	2181.4	2167.1	2163.6	1850.6	1433.4	1224.8	1033.1	649.9	362.4
110°	2289.4	2350.6	2289.4	2228.1	2212.8	1862.9	1396.5	1163.3	990.5	644.9	385.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2299.0	2393.0	2299.0	2204.9	2181.4	1823.4	1346.0	1107.3	953.3	645.1	414.0
115°	2238.0	2368.5	2238.0	2107.7	2075.0	1730.1	1270.2	1040.2	910.5	651.1	456.4
117.5°	2108.8	2253.4	2108.8	1964.1	1927.9	1616.6	1201.6	994.1	883.8	663.1	497.6
120°	2004.6	2145.1	2004.6	1864.0	1828.9	1544.5	1165.3	975.6	874.8	673.0	521.7
122.5°	1903.2	2041.8	1903.2	1764.5	1729.8	1473.8	1132.3	961.5	870.0	687.1	550.0
125°	1758.4	1886.1	1758.4	1630.8	1598.9	1381.3	1091.2	946.2	866.2	706.3	586.3
127.5°	1628.4	1736.1	1628.4	1520.6	1493.7	1306.8	1057.8	933.2	863.9	725.3	621.4
130°	1551.7	1651.2	1551.7	1452.1	1427.2	1260.9	1039.1	928.3	865.3	739.3	644.7
132.5°	1482.1	1571.2	1482.1	1392.9	1370.6	1221.8	1023.3	924.0	866.2	750.5	663.8
135°	1386.7	1463.5	1386.7	1309.9	1290.7	1165.9	999.7	916.6	865.3	762.9	686.0
137.5°	1310.2	1373.1	1310.2	1247.3	1231.6	1126.2	985.7	915.4	870.7	781.3	714.3
140°	1257.7	1316.5	1257.7	1198.9	1184.2	1093.2	971.8	911.1	871.5	792.5	733.3
142.5°	1214.3	1264.8	1214.3	1163.6	1151.0	1071.0	964.4	911.1	874.7	802.0	747.5
145°	1149.1	1187.3	1149.1	1110.7	1101.2	1035.8	948.5	905.0	874.8	814.3	769.0
147.5°	1099.0	1130.7	1099.0	1067.2	1059.4	1007.9	939.3	905.0	880.7	832.3	796.0
150°	1067.4	1093.2	1067.4	1041.7	1035.3	991.8	933.9	905.0	883.9	841.7	810.2
152.5°	1040.5	1060.0	1040.5	1021.1	1016.3	979.2	929.7	905.0	885.9	848.0	819.5
155°	1009.6	1022.4	1009.6	996.7	993.5	964.0	924.7	905.0	890.5	861.5	839.7
157.5°	985.1	994.1	985.1	976.1	973.9	950.9	920.2	905.0	895.0	875.0	860.0
160°	970.5	975.6	970.5	965.3	964.0	944.3	918.1	905.0	897.1	881.2	869.3
162.5°	960.9	965.8	960.9	955.9	954.7	938.2	916.0	905.0	899.2	887.7	879.1
165°	947.2	952.3	947.2	941.9	940.6	928.7	912.8	905.0	902.4	897.2	893.2
167.5°	937.2	939.4	937.2	935.0	934.4	926.6	916.3	911.1	908.9	904.5	901.2
170°	934.4	934.4	934.4	934.4	934.4	926.6	916.3	911.1	911.0	910.7	910.5
172.5°	927.1	925.3	927.1	929.0	929.5	923.4	915.2	911.1	911.1	911.1	911.1
175°	922.8	922.8	922.8	922.8	922.8	918.9	913.6	911.1	912.2	914.7	916.6
177.5°	918.8	916.6	918.8	920.9	921.5	918.5	914.4	912.3	913.3	915.2	916.6
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1585.5	1576.6	1576.6	1561.8	1555.9	1551.5	1544.1	1521.9	1516.0	1510.1	1518.9
5°	1598.8	1582.5	1570.7	1544.1	1521.9	1513.0	1484.9	1431.7	1396.2	1369.6	1354.8
7.5°	1601.8	1581.1	1558.9	1517.5	1464.2	1440.5	1354.8	1257.2	1230.5	1206.9	1192.1
10°	1598.8	1575.1	1544.1	1482.0	1356.2	1314.8	1229.0	1165.5	1149.2	1144.7	1149.2
12.5°	1588.4	1566.3	1523.4	1419.8	1243.8	1215.7	1165.5	1128.5	1125.5	1132.9	1172.8
15°	1570.7	1550.0	1499.7	1337.0	1181.7	1161.0	1125.5	1112.2	1128.5	1180.2	1300.0
17.5°	1553.0	1529.3	1467.2	1255.7	1134.4	1119.6	1094.5	1121.1	1212.8	1282.3	1322.2
20°	1529.3	1501.2	1430.2	1196.5	1100.4	1087.1	1075.2	1195.0	1264.5	1289.7	1311.9
22.5°	1501.2	1471.6	1379.9	1155.1	1064.9	1054.5	1061.9	1236.4	1264.5	1282.3	1301.5
25°	1464.2	1439.1	1320.7	1122.6	1036.8	1024.9	1053.0	1232.0	1248.3	1252.7	1291.2
27.5°	1430.2	1397.7	1258.6	1093.0	1002.8	998.3	1060.4	1212.8	1224.6	1229.0	1270.5
30°	1388.8	1340.0	1189.1	1061.9	967.3	965.8	1061.9	1189.1	1186.2	1198.0	1239.4
32.5°	1345.9	1254.2	1110.7	1023.5	933.2	931.8	1051.6	1153.6	1150.7	1166.9	1198.0
35°	1306.0	1187.6	1004.2	979.1	890.4	891.8	1026.4	1112.2	1113.7	1128.5	1147.7
37.5°	1264.5	1130.0	887.4	930.3	848.9	848.9	992.4	1073.8	1070.8	1075.2	1101.9
40°	1215.7	1039.7	783.9	866.7	810.5	806.1	951.0	1032.3	1022.0	1020.5	1057.5
42.5°	1164.0	940.6	707.0	782.4	766.1	760.2	900.7	982.1	962.8	967.3	1014.6
45°	1107.8	914.0	647.8	661.1	720.3	715.8	846.0	924.4	911.1	922.9	971.7
47.5°	1051.6	860.8	628.6	548.7	671.5	670.0	785.3	868.2	860.8	872.6	924.4
50°	974.7	801.6	627.1	470.3	616.7	622.7	712.9	813.4	813.4	823.8	878.5
52.5°	875.6	729.1	569.4	426.0	553.1	570.9	649.3	766.1	769.1	779.4	828.2
55°	785.3	653.7	528.0	391.9	477.7	516.2	587.2	717.3	723.2	733.6	778.0
57.5°	702.5	544.3	519.1	352.0	408.2	445.2	532.4	670.0	672.9	681.8	724.7
60°	613.8	393.4	476.2	309.1	347.6	375.7	482.2	613.8	624.1	630.1	667.0
62.5°	513.2	285.4	431.9	279.5	318.0	323.9	440.7	560.5	573.9	578.3	600.5
65°	365.3	239.6	366.8	254.4	286.9	288.4	396.4	505.8	517.6	525.0	541.3
67.5°	247.0	195.2	279.5	230.7	263.3	264.7	353.5	442.2	458.5	464.4	474.8
70°	171.6	130.2	207.1	205.6	236.6	239.6	307.6	384.5	399.3	403.8	409.7
72.5°	125.7	105.0	171.6	184.9	208.5	211.5	260.3	319.5	334.3	338.7	341.6
75°	96.1	110.9	139.0	161.2	177.5	179.0	213.0	260.3	270.7	273.6	275.1
77.5°	76.9	103.5	102.1	130.2	144.9	142.0	167.1	201.1	210.0	210.0	210.0
80°	57.7	81.3	76.9	93.2	106.5	103.5	119.8	143.5	146.4	149.4	147.9
82.5°	42.9	51.8	51.8	59.2	71.0	68.0	79.9	93.2	93.2	93.2	96.1
85°	26.6	29.6	23.7	31.1	39.9	38.5	44.4	50.3	51.8	51.8	48.8
87.5°	16.3	13.3	7.4	11.8	17.7	17.7	20.7	22.2	20.7	20.7	20.7
90°	16.0	11.0	6.1	11.0	16.0	17.3	27.1	40.2	46.7	41.5	31.2
92.5°	108.3	66.5	24.6	66.5	108.3	118.7	166.9	231.1	263.3	230.7	165.6
95°	212.2	135.6	59.1	135.6	212.2	231.3	410.8	650.0	769.6	686.7	521.0
97.5°	237.2	169.7	102.1	169.7	237.2	254.1	553.2	952.2	1151.6	1099.3	994.6
100°	257.8	196.6	135.4	196.6	257.8	273.1	605.1	1047.7	1269.1	1272.9	1280.6
102.5°	278.0	220.9	163.7	220.9	278.0	292.3	629.0	1077.9	1302.3	1369.1	1502.5
105°	308.4	260.0	211.6	260.0	308.4	320.5	646.6	1081.3	1298.7	1448.2	1747.3
107.5°	351.1	306.0	260.8	306.0	351.1	362.4	649.9	1033.1	1224.8	1433.4	1850.6
110°	375.6	334.7	294.0	334.7	375.6	385.7	644.9	990.5	1163.3	1396.5	1862.9



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	404.4	365.5	326.7	365.5	404.4	414.0	645.1	953.3	1107.3	1346.0	1823.4
115°	447.4	411.7	375.9	411.7	447.4	456.4	651.1	910.5	1040.2	1270.2	1730.1
117.5°	489.5	457.0	424.5	457.0	489.5	497.6	663.1	883.8	994.1	1201.6	1616.6
120°	514.0	483.4	452.8	483.4	514.0	521.7	673.0	874.8	975.6	1165.3	1544.5
122.5°	542.3	511.3	480.5	511.3	542.3	550.0	687.1	870.0	961.5	1132.3	1473.8
125°	579.3	551.1	522.9	551.1	579.3	586.3	706.3	866.2	946.2	1091.2	1381.3
127.5°	614.3	585.8	557.4	585.8	614.3	621.4	725.3	863.9	933.2	1057.8	1306.8
130°	637.1	606.5	575.8	606.5	637.1	644.7	739.3	865.3	928.3	1039.1	1260.9
132.5°	656.1	625.5	594.9	625.5	656.1	663.8	750.5	866.2	924.0	1023.3	1221.8
135°	679.0	651.1	623.2	651.1	679.0	686.0	762.9	865.3	916.6	999.7	1165.9
137.5°	707.4	679.6	652.0	679.6	707.4	714.3	781.3	870.7	915.4	985.7	1126.2
140°	727.0	701.5	676.1	701.5	727.0	733.3	792.5	871.5	911.1	971.8	1093.2
142.5°	741.6	718.1	694.5	718.1	741.6	747.5	802.0	874.7	911.1	964.4	1071.0
145°	763.9	743.3	722.8	743.3	763.9	769.0	814.3	874.8	905.0	948.5	1035.8
147.5°	791.0	771.1	751.1	771.1	791.0	796.0	832.3	880.7	905.0	939.3	1007.9
150°	805.7	787.6	769.6	787.6	805.7	810.2	841.7	883.9	905.0	933.9	991.8
152.5°	816.0	802.4	788.7	802.4	816.0	819.5	848.0	885.9	905.0	929.7	979.2
155°	837.1	827.1	817.0	827.1	837.1	839.7	861.5	890.5	905.0	924.7	964.0
157.5°	857.5	847.8	837.9	847.8	857.5	860.0	875.0	895.0	905.0	920.2	950.9
160°	867.4	859.7	852.0	859.7	867.4	869.3	881.2	897.1	905.0	918.1	944.3
162.5°	877.6	871.9	866.2	871.9	877.6	879.1	887.7	899.2	905.0	916.0	938.2
165°	891.9	886.7	881.6	886.7	891.9	893.2	897.2	902.4	905.0	912.8	928.7
167.5°	900.6	898.1	895.7	898.1	900.6	901.2	904.5	908.9	911.1	916.3	926.6
170°	909.9	907.4	905.0	907.4	909.9	910.5	910.7	911.0	911.1	916.3	926.6
172.5°	911.0	910.4	909.9	910.4	911.0	911.1	911.1	911.1	911.1	915.2	923.4
175°	916.6	916.6	916.6	916.6	916.6	916.6	914.7	912.2	911.1	913.6	918.9
177.5°	916.6	916.6	916.6	916.6	916.6	916.6	915.2	913.3	912.3	914.4	918.5
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1508.6	1504.1	1510.1	1493.8	1510.1	1504.1	1508.6	1518.9	1510.1	1516.0	1521.9
5°	1323.7	1316.3	1292.6	1273.4	1292.6	1316.3	1323.7	1354.8	1369.6	1396.2	1431.7
7.5°	1183.2	1177.3	1171.4	1159.5	1171.4	1177.3	1183.2	1192.1	1206.9	1230.5	1257.2
10°	1152.1	1153.6	1162.5	1161.0	1162.5	1153.6	1152.1	1149.2	1144.7	1149.2	1165.5
12.5°	1232.0	1245.3	1294.1	1291.2	1294.1	1245.3	1232.0	1172.8	1132.9	1125.5	1128.5
15°	1323.7	1328.1	1338.5	1340.0	1338.5	1328.1	1323.7	1300.0	1180.2	1128.5	1112.2
17.5°	1332.6	1334.1	1341.5	1341.5	1341.5	1334.1	1332.6	1322.2	1282.3	1212.8	1121.1
20°	1325.2	1328.1	1342.9	1345.9	1342.9	1328.1	1325.2	1311.9	1289.7	1264.5	1195.0
22.5°	1322.2	1328.1	1340.0	1338.5	1340.0	1328.1	1322.2	1301.5	1282.3	1264.5	1236.4
25°	1307.4	1307.4	1308.9	1310.4	1308.9	1307.4	1307.4	1291.2	1252.7	1248.3	1232.0
27.5°	1276.4	1279.3	1288.2	1286.7	1288.2	1279.3	1276.4	1270.5	1229.0	1224.6	1212.8
30°	1248.3	1245.3	1237.9	1232.0	1237.9	1245.3	1248.3	1239.4	1198.0	1186.2	1189.1
32.5°	1200.9	1193.6	1186.2	1181.7	1186.2	1193.6	1200.9	1198.0	1166.9	1150.7	1153.6
35°	1144.7	1146.2	1144.7	1140.3	1144.7	1146.2	1144.7	1147.7	1128.5	1113.7	1112.2
37.5°	1104.8	1107.8	1106.3	1100.4	1106.3	1107.8	1104.8	1101.9	1075.2	1070.8	1073.8
40°	1063.4	1064.9	1063.4	1059.0	1063.4	1064.9	1063.4	1057.5	1020.5	1022.0	1032.3
42.5°	1023.5	1022.0	1017.6	1014.6	1017.6	1022.0	1023.5	1014.6	967.3	962.8	982.1
45°	977.6	979.1	970.2	965.8	970.2	979.1	977.6	971.7	922.9	911.1	924.4
47.5°	931.8	931.8	924.4	919.9	924.4	931.8	931.8	924.4	872.6	860.8	868.2
50°	883.0	881.5	871.1	869.7	871.1	881.5	883.0	878.5	823.8	813.4	813.4
52.5°	826.8	826.8	828.2	831.2	828.2	826.8	826.8	828.2	779.4	769.1	766.1
55°	778.0	779.4	789.8	792.7	789.8	779.4	778.0	778.0	733.6	723.2	717.3
57.5°	727.7	727.7	735.1	735.1	735.1	727.7	727.7	724.7	681.8	672.9	670.0
60°	670.0	672.9	678.9	677.4	678.9	672.9	670.0	667.0	630.1	624.1	613.8
62.5°	609.3	612.3	613.8	610.8	613.8	612.3	609.3	600.5	578.3	573.9	560.5
65°	545.8	548.7	550.2	547.2	550.2	548.7	545.8	541.3	525.0	517.6	505.8
67.5°	480.7	479.2	477.7	483.6	477.7	479.2	480.7	474.8	464.4	458.5	442.2
70°	414.1	414.1	412.6	415.6	412.6	414.1	414.1	409.7	403.8	399.3	384.5
72.5°	343.1	341.6	347.6	343.1	347.6	341.6	343.1	341.6	338.7	334.3	319.5
75°	273.6	276.6	273.6	278.1	273.6	276.6	273.6	275.1	273.6	270.7	260.3
77.5°	208.5	211.5	208.5	208.5	208.5	211.5	208.5	210.0	210.0	210.0	201.1
80°	147.9	146.4	146.4	144.9	146.4	146.4	147.9	147.9	149.4	146.4	143.5
82.5°	94.7	93.2	93.2	96.1	93.2	93.2	94.7	96.1	93.2	93.2	93.2
85°	51.8	53.2	50.3	50.3	50.3	53.2	51.8	48.8	51.8	51.8	50.3
87.5°	19.2	17.7	17.7	17.7	17.7	17.7	19.2	20.7	20.7	20.7	22.2
90°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	31.2	41.5	46.7	40.2
92.5°	116.8	112.2	93.6	75.0	93.6	112.2	116.8	165.6	230.7	263.3	231.1
95°	396.8	382.7	326.4	270.1	326.4	382.7	396.8	521.0	686.7	769.6	650.0
97.5°	916.0	889.2	782.0	674.8	782.0	889.2	916.0	994.6	1099.3	1151.6	952.2
100°	1286.3	1254.4	1126.7	999.0	1126.7	1254.4	1286.3	1280.6	1272.9	1269.1	1047.7
102.5°	1602.5	1575.2	1465.8	1356.4	1465.8	1575.2	1602.5	1502.5	1369.1	1302.3	1077.9
105°	1971.6	1956.9	1898.1	1839.4	1898.1	1956.9	1971.6	1747.3	1448.2	1298.7	1081.3
107.5°	2163.6	2167.1	2181.4	2195.6	2181.4	2167.1	2163.6	1850.6	1433.4	1224.8	1033.1
110°	2212.8	2228.1	2289.4	2350.6	2289.4	2228.1	2212.8	1862.9	1396.5	1163.3	990.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2181.4	2204.9	2299.0	2393.0	2299.0	2204.9	2181.4	1823.4	1346.0	1107.3	953.3
115°	2075.0	2107.7	2238.0	2368.5	2238.0	2107.7	2075.0	1730.1	1270.2	1040.2	910.5
117.5°	1927.9	1964.1	2108.8	2253.4	2108.8	1964.1	1927.9	1616.6	1201.6	994.1	883.8
120°	1828.9	1864.0	2004.6	2145.1	2004.6	1864.0	1828.9	1544.5	1165.3	975.6	874.8
122.5°	1729.8	1764.5	1903.2	2041.8	1903.2	1764.5	1729.8	1473.8	1132.3	961.5	870.0
125°	1598.9	1630.8	1758.4	1886.1	1758.4	1630.8	1598.9	1381.3	1091.2	946.2	866.2
127.5°	1493.7	1520.6	1628.4	1736.1	1628.4	1520.6	1493.7	1306.8	1057.8	933.2	863.9
130°	1427.2	1452.1	1551.7	1651.2	1551.7	1452.1	1427.2	1260.9	1039.1	928.3	865.3
132.5°	1370.6	1392.9	1482.1	1571.2	1482.1	1392.9	1370.6	1221.8	1023.3	924.0	866.2
135°	1290.7	1309.9	1386.7	1463.5	1386.7	1309.9	1290.7	1165.9	999.7	916.6	865.3
137.5°	1231.6	1247.3	1310.2	1373.1	1310.2	1247.3	1231.6	1126.2	985.7	915.4	870.7
140°	1184.2	1198.9	1257.7	1316.5	1257.7	1198.9	1184.2	1093.2	971.8	911.1	871.5
142.5°	1151.0	1163.6	1214.3	1264.8	1214.3	1163.6	1151.0	1071.0	964.4	911.1	874.7
145°	1101.2	1110.7	1149.1	1187.3	1149.1	1110.7	1101.2	1035.8	948.5	905.0	874.8
147.5°	1059.4	1067.2	1099.0	1130.7	1099.0	1067.2	1059.4	1007.9	939.3	905.0	880.7
150°	1035.3	1041.7	1067.4	1093.2	1067.4	1041.7	1035.3	991.8	933.9	905.0	883.9
152.5°	1016.3	1021.1	1040.5	1060.0	1040.5	1021.1	1016.3	979.2	929.7	905.0	885.9
155°	993.5	996.7	1009.6	1022.4	1009.6	996.7	993.5	964.0	924.7	905.0	890.5
157.5°	973.9	976.1	985.1	994.1	985.1	976.1	973.9	950.9	920.2	905.0	895.0
160°	964.0	965.3	970.5	975.6	970.5	965.3	964.0	944.3	918.1	905.0	897.1
162.5°	954.7	955.9	960.9	965.8	960.9	955.9	954.7	938.2	916.0	905.0	899.2
165°	940.6	941.9	947.2	952.3	947.2	941.9	940.6	928.7	912.8	905.0	902.4
167.5°	934.4	935.0	937.2	939.4	937.2	935.0	934.4	926.6	916.3	911.1	908.9
170°	934.4	934.4	934.4	934.4	934.4	934.4	934.4	926.6	916.3	911.1	911.0
172.5°	929.5	929.0	927.1	925.3	927.1	929.0	929.5	923.4	915.2	911.1	911.1
175°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	918.9	913.6	911.1	912.2
177.5°	921.5	920.9	918.8	916.6	918.8	920.9	921.5	918.5	914.4	912.3	913.3
180°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1563.3	1563.3	1563.3	1563.3	1563.3
2.5°	1544.1	1551.5	1555.9	1561.8	1576.6
5°	1484.9	1513.0	1521.9	1544.1	1570.7
7.5°	1354.8	1440.5	1464.2	1517.5	1558.9
10°	1229.0	1314.8	1356.2	1482.0	1544.1
12.5°	1165.5	1215.7	1243.8	1419.8	1523.4
15°	1125.5	1161.0	1181.7	1337.0	1499.7
17.5°	1094.5	1119.6	1134.4	1255.7	1467.2
20°	1075.2	1087.1	1100.4	1196.5	1430.2
22.5°	1061.9	1054.5	1064.9	1155.1	1379.9
25°	1053.0	1024.9	1036.8	1122.6	1320.7
27.5°	1060.4	998.3	1002.8	1093.0	1258.6
30°	1061.9	965.8	967.3	1061.9	1189.1
32.5°	1051.6	931.8	933.2	1023.5	1110.7
35°	1026.4	891.8	890.4	979.1	1004.2
37.5°	992.4	848.9	848.9	930.3	887.4
40°	951.0	806.1	810.5	866.7	783.9
42.5°	900.7	760.2	766.1	782.4	707.0
45°	846.0	715.8	720.3	661.1	647.8
47.5°	785.3	670.0	671.5	548.7	628.6
50°	712.9	622.7	616.7	470.3	627.1
52.5°	649.3	570.9	553.1	426.0	569.4
55°	587.2	516.2	477.7	391.9	528.0
57.5°	532.4	445.2	408.2	352.0	519.1
60°	482.2	375.7	347.6	309.1	476.2
62.5°	440.7	323.9	318.0	279.5	431.9
65°	396.4	288.4	286.9	254.4	366.8
67.5°	353.5	264.7	263.3	230.7	279.5
70°	307.6	239.6	236.6	205.6	207.1
72.5°	260.3	211.5	208.5	184.9	171.6
75°	213.0	179.0	177.5	161.2	139.0
77.5°	167.1	142.0	144.9	130.2	102.1
80°	119.8	103.5	106.5	93.2	76.9
82.5°	79.9	68.0	71.0	59.2	51.8
85°	44.4	38.5	39.9	31.1	23.7
87.5°	20.7	17.7	17.7	11.8	7.4
90°	27.1	17.3	16.0	11.0	6.1
92.5°	166.9	118.7	108.3	66.5	24.6
95°	410.8	231.3	212.2	135.6	59.1
97.5°	553.2	254.1	237.2	169.7	102.1
100°	605.1	273.1	257.8	196.6	135.4
102.5°	629.0	292.3	278.0	220.9	163.7
105°	646.6	320.5	308.4	260.0	211.6
107.5°	649.9	362.4	351.1	306.0	260.8
110°	644.9	385.7	375.6	334.7	294.0



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CATALOG NUMBER: SQ4-FA-100U-075D-B2750-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	645.1	414.0	404.4	365.5	326.7
115°	651.1	456.4	447.4	411.7	375.9
117.5°	663.1	497.6	489.5	457.0	424.5
120°	673.0	521.7	514.0	483.4	452.8
122.5°	687.1	550.0	542.3	511.3	480.5
125°	706.3	586.3	579.3	551.1	522.9
127.5°	725.3	621.4	614.3	585.8	557.4
130°	739.3	644.7	637.1	606.5	575.8
132.5°	750.5	663.8	656.1	625.5	594.9
135°	762.9	686.0	679.0	651.1	623.2
137.5°	781.3	714.3	707.4	679.6	652.0
140°	792.5	733.3	727.0	701.5	676.1
142.5°	802.0	747.5	741.6	718.1	694.5
145°	814.3	769.0	763.9	743.3	722.8
147.5°	832.3	796.0	791.0	771.1	751.1
150°	841.7	810.2	805.7	787.6	769.6
152.5°	848.0	819.5	816.0	802.4	788.7
155°	861.5	839.7	837.1	827.1	817.0
157.5°	875.0	860.0	857.5	847.8	837.9
160°	881.2	869.3	867.4	859.7	852.0
162.5°	887.7	879.1	877.6	871.9	866.2
165°	897.2	893.2	891.9	886.7	881.6
167.5°	904.5	901.2	900.6	898.1	895.7
170°	910.7	910.5	909.9	907.4	905.0
172.5°	911.1	911.1	911.0	910.4	909.9
175°	914.7	916.6	916.6	916.6	916.6
177.5°	915.2	916.6	916.6	916.6	916.6
180°	916.6	916.6	916.6	916.6	916.6



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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	11.75	12.53	12.78	13.57	14.97	14.57	15.35	15.61	16.39	17.79
	3H	12.22	12.92	13.26	13.97	15.39	15.91	16.61	16.95	17.66	19.08
	4H	12.41	13.07	13.46	14.12	15.55	16.35	17.01	17.40	18.06	19.49
	6H	12.52	13.13	13.59	14.19	15.63	16.63	17.24	17.69	18.29	19.73
	8H	12.52	13.10	13.59	14.17	15.61	16.70	17.28	17.77	18.35	19.79
	12H	12.49	13.04	13.56	14.11	15.56	16.73	17.29	17.81	18.35	19.81
4H	2H	12.77	13.43	13.83	14.48	15.91	14.97	15.64	16.03	16.69	18.11
	3H	13.79	14.34	14.86	15.42	16.86	16.47	17.02	17.54	18.10	19.54
	4H	14.06	14.57	15.14	15.64	17.10	16.99	17.50	18.07	18.57	20.03
	6H	14.18	14.62	15.27	15.71	17.17	17.35	17.79	18.44	18.88	20.33
	8H	14.19	14.59	15.27	15.68	17.15	17.45	17.86	18.54	18.95	20.42
	12H	14.15	14.52	15.25	15.62	17.09	17.51	17.87	18.61	18.97	20.45
8H	4H	14.51	14.91	15.59	16.00	17.47	17.11	17.52	18.20	18.60	20.07
	6H	14.77	15.10	15.87	16.23	17.70	17.54	17.88	18.65	19.01	20.47
	8H	14.81	15.10	15.92	16.21	17.70	17.69	17.99	18.81	19.10	20.58
	12H	14.79	15.05	15.91	16.15	17.68	17.79	18.04	18.90	19.15	20.68
12H	4H	14.51	14.88	15.61	15.98	17.45	17.07	17.44	18.17	18.54	20.01
	6H	14.83	15.12	15.94	16.23	17.72	17.54	17.83	18.65	18.94	20.43
	8H	14.89	15.15	16.01	16.25	17.78	17.69	17.95	18.81	19.06	20.59