

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P271863

Luminaire Tested: **ISW-AF-1000-LED-E1-SL3-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1000-LED-E1-SL3-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6686.2 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 71.3
Input Voltage (V): 120
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: 25 FT

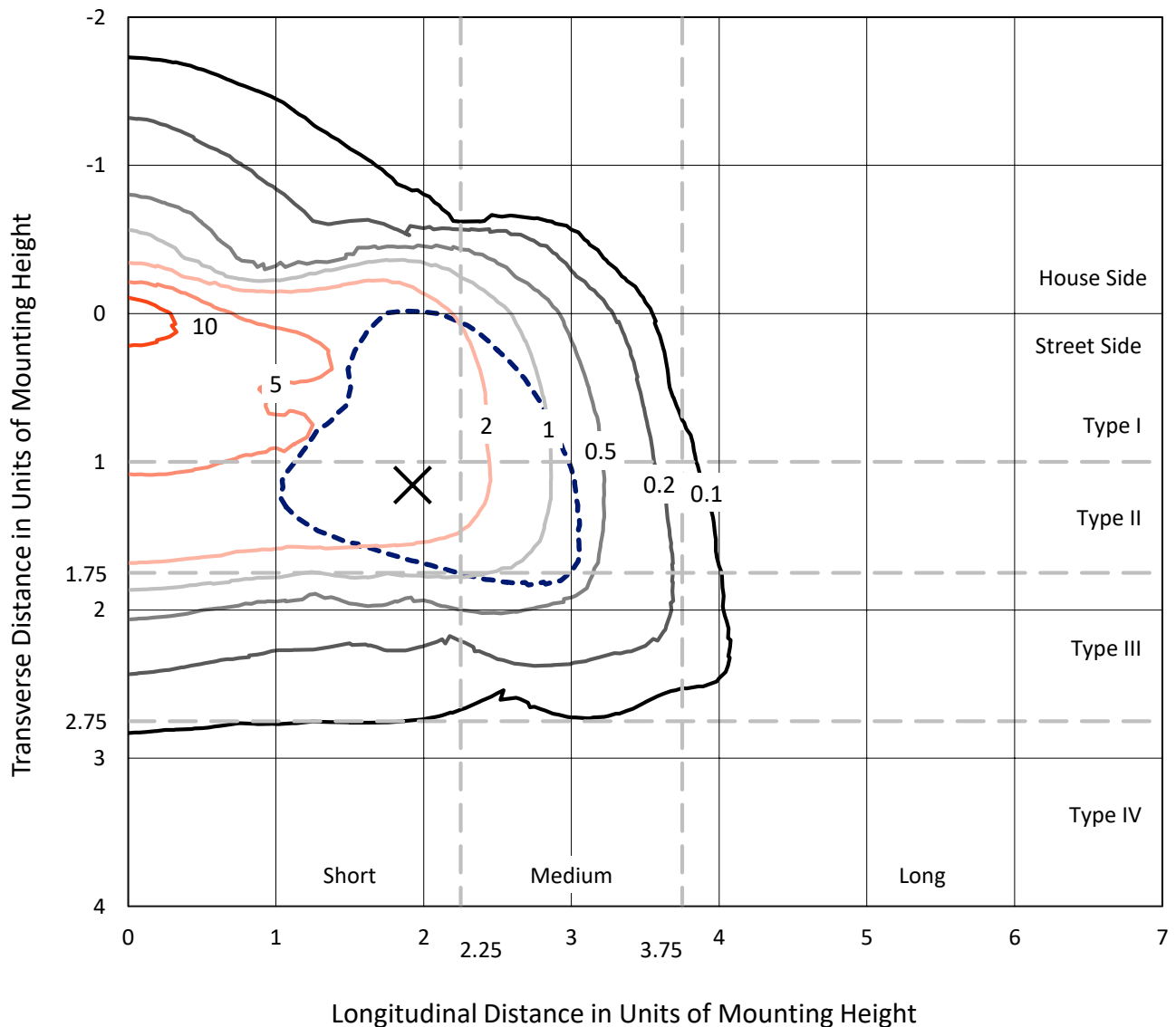


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Iso-Footcandle Lines of Horizontal Illumination

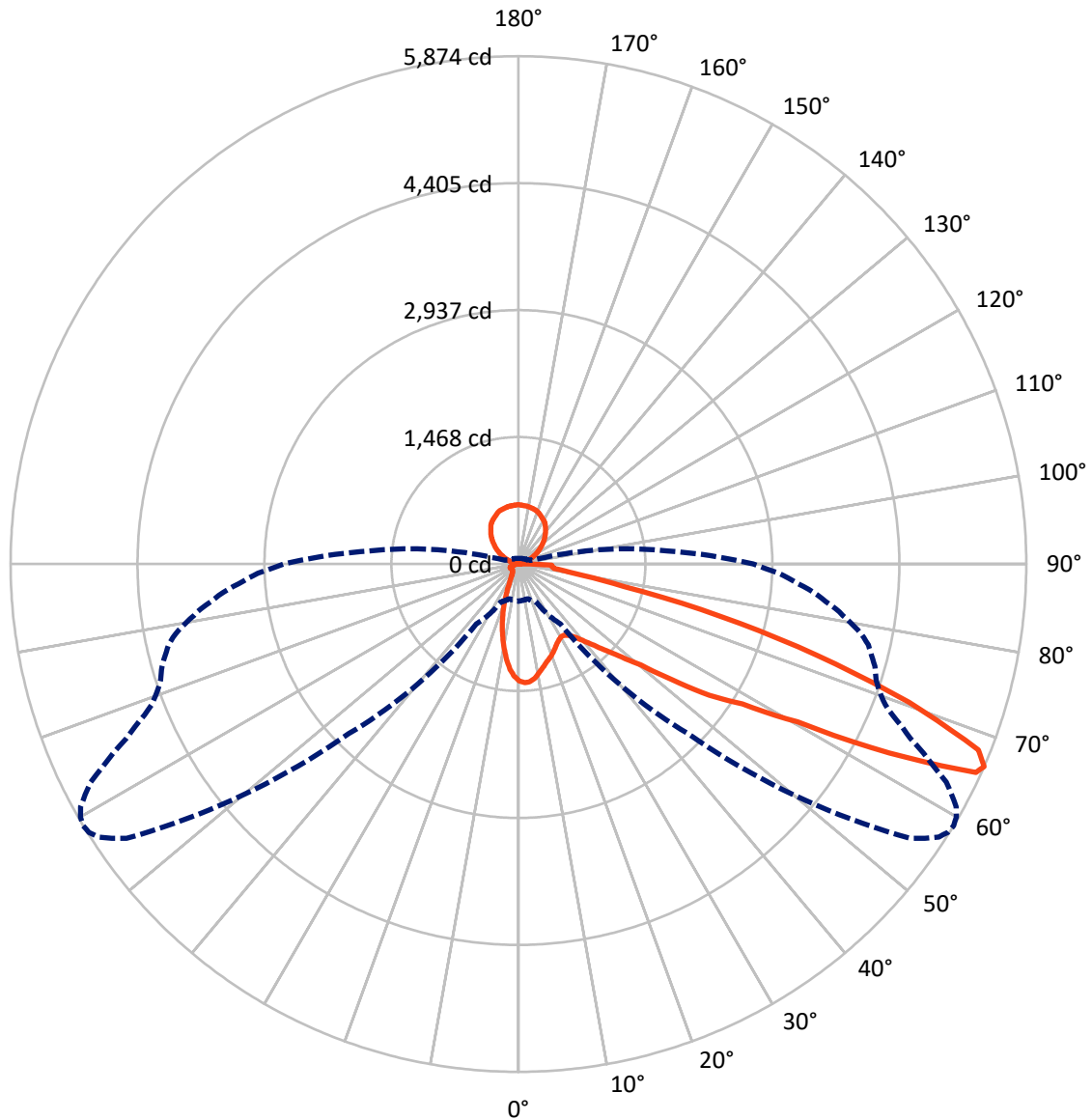
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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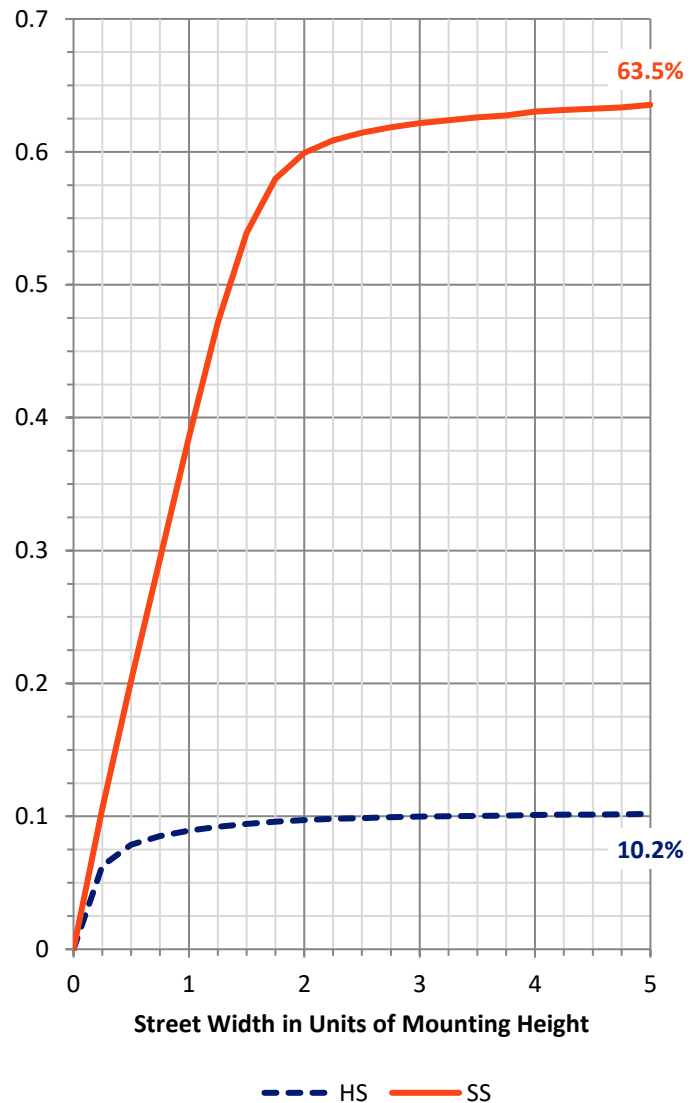
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.7	851.8	1543.5
	% Fixture	10.3	12.7	23.1
Street Side	Lumens	4289.3	853.3	5142.7
	% Fixture	64.2	12.8	76.9
Total	Lumens	4981.1	1705.1	6686.2
	% Fixture	74.5	25.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	1.7
10°-20°	243.7	3.6
20°-30°	305.7	4.6
30°-40°	418.3	6.3
40°-50°	672.9	10.1
50°-60°	1169.2	17.5
60°-70°	1420.6	21.2
70°-80°	530.0	7.9
80°-90°	105.2	1.6
90°-100°	11.2	0.2
100°-110°	56.3	0.8
110°-120°	163.0	2.4
120°-130°	268.1	4.0
130°-140°	330.6	4.9
140°-150°	338.2	5.1
150°-160°	284.9	4.3
160°-170°	187.6	2.8
170°-180°	65.0	1.0
0°-90°	4981.1	74.5
0°-180°	6686.2	100.0

Coefficient of Utilization



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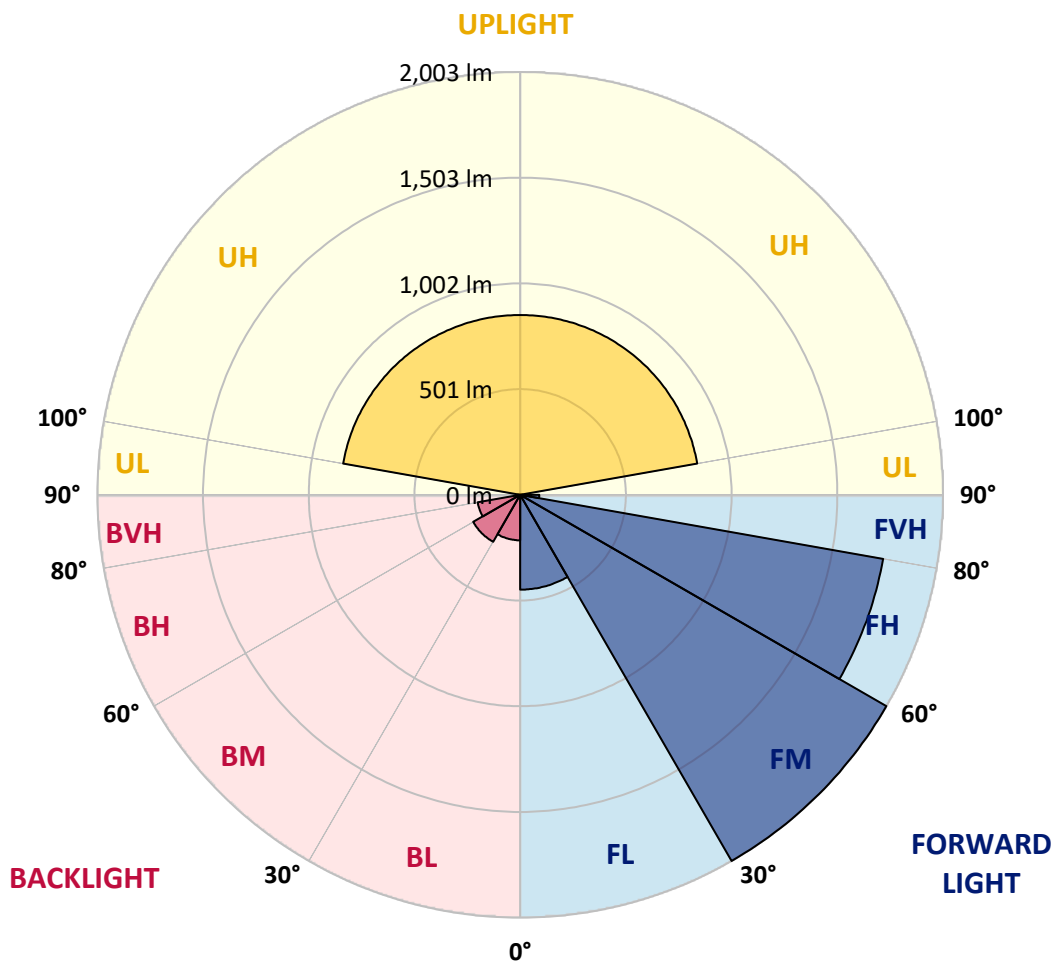
CATALOG NUMBER: ISW-AF-1000-LED-E1-SL3-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.3	6.7			
FM (30°-60°)	2003.4	30.0			
FH (60°-80°)	1746.2	26.1			G1/1800
FVH (80°-90°)	90.4	1.4			G1/100
BL (0°-30°)	215.5	3.2	B1/500		
BM (30°-60°)	257.0	3.8	B1/1000		
BH (60°-80°)	204.4	3.1	B1/500		G1/500
BVH (80°-90°)	14.8	0.2			G1/100
UL (90°-100°)	11.2	0.2		U2/50	
UH (100°-180°)	851.8	12.7		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°	
0°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1388.7	1384.1	1392.6	1389.4	1391.7	1380.2	1378.0	1375.7	1377.2	1374.9	1374.9	1374.9
5°	1355.8	1353.6	1363.4	1368.7	1373.4	1371.8	1371.2	1371.2	1371.8	1366.5	1367.3	1367.3
7.5°	1259.5	1258.1	1271.8	1281.7	1303.9	1316.8	1333.6	1334.4	1336.0	1333.6	1338.3	1338.3
10°	1157.3	1161.8	1174.1	1190.1	1223.0	1242.7	1274.9	1280.9	1283.3	1283.9	1284.8	1284.8
12.5°	1059.4	1054.9	1070.2	1100.7	1145.0	1177.0	1217.6	1220.5	1224.4	1229.8	1235.1	1235.1
15°	972.3	977.7	989.9	1022.0	1068.6	1113.7	1166.4	1169.4	1177.0	1181.7	1189.3	1189.3
17.5°	912.8	912.8	926.5	956.3	999.8	1057.1	1123.6	1129.0	1135.1	1141.2	1149.7	1149.7
20°	883.0	883.0	888.3	905.9	944.1	999.2	1079.3	1085.4	1096.1	1103.0	1114.4	1114.4
22.5°	880.7	879.9	879.2	883.0	905.9	948.7	1032.0	1040.3	1049.5	1060.2	1070.2	1070.2
25°	905.1	907.5	898.2	892.2	894.4	914.4	986.9	991.5	1009.1	1015.9	1028.1	1028.1
27.5°	940.3	944.1	936.4	927.3	913.6	900.6	948.7	956.3	967.7	979.2	994.5	994.5
30°	990.7	989.9	989.1	983.0	956.3	915.8	937.2	942.6	952.6	961.6	974.6	974.6
32.5°	1044.9	1051.1	1055.6	1052.5	1025.1	956.3	953.3	957.9	967.0	972.3	980.8	980.8
35°	1115.2	1118.3	1135.9	1135.9	1108.3	1028.9	998.4	1002.1	1006.7	1009.1	1015.2	1015.2
37.5°	1192.4	1203.0	1229.0	1244.3	1201.6	1119.0	1069.4	1069.4	1071.7	1073.1	1077.0	1077.0
40°	1281.7	1297.1	1332.8	1361.9	1334.4	1231.3	1162.6	1169.4	1167.2	1164.1	1172.5	1172.5
42.5°	1385.5	1402.4	1445.9	1473.4	1457.4	1366.5	1287.8	1283.3	1290.1	1280.9	1283.9	1283.9
45°	1506.3	1519.2	1563.6	1592.7	1605.6	1532.3	1452.1	1442.9	1442.9	1423.1	1431.4	1431.4
47.5°	1614.7	1618.6	1661.3	1712.5	1754.5	1756.1	1643.0	1636.9	1622.4	1609.4	1606.3	1606.3
50°	1715.7	1727.0	1754.5	1810.4	1898.2	1974.6	1905.8	1886.7	1870.6	1822.5	1837.0	1837.0
52.5°	1890.6	1912.6	1930.2	1963.9	2067.7	2222.8	2307.6	2277.7	2274.0	2230.4	2220.5	2220.5
55°	1923.3	1925.7	1983.6	2177.7	2422.1	2533.7	2696.4	2695.6	2707.9	2694.1	2681.1	2681.1
57.5°	1769.0	1750.8	1847.7	2103.7	2594.8	3167.6	3117.9	3123.4	3107.2	3065.3	3052.4	3052.4
60°	1378.0	1393.2	1497.9	1824.1	2470.2	3577.1	3904.8	3807.7	3877.3	3768.0	3709.2	3709.2
62.5°	775.2	757.7	828.8	1171.7	2026.5	3598.4	4976.4	4987.1	5020.6	4959.6	4816.0	4816.0
65°	500.4	492.7	485.8	592.7	1214.5	3147.8	5569.1	5700.6	5779.2	5811.2	5813.7	5813.7
66°	430.1	423.9	415.6	485.1	846.3	2773.4	5531.0	5671.4	5796.9	5856.4	5873.9	5873.9
67.5°	365.9	356.6	355.2	401.8	588.9	2151.7	5166.6	5387.3	5498.2	5652.5	5736.5	5736.5
70°	279.6	275.0	288.7	346.7	452.2	1012.9	4117.1	4405.1	4596.0	4716.7	4794.6	4794.6
72.5°	234.5	233.0	252.1	317.0	428.5	574.4	2881.9	3191.3	3390.7	3506.1	3612.9	3612.9
75°	183.3	184.8	210.0	302.5	426.2	500.4	1674.4	1969.2	2085.2	2267.1	2406.1	2406.1
77.5°	137.5	135.9	155.9	244.4	415.6	507.3	870.0	992.2	1119.7	1212.3	1245.8	1245.8
80°	96.3	97.7	111.5	168.1	323.9	521.6	542.4	570.6	597.4	627.1	633.2	633.2
82.5°	64.2	64.9	82.6	115.3	224.6	498.0	506.5	493.5	472.8	446.9	418.6	418.6
85°	39.0	40.4	58.7	78.0	174.1	450.7	524.0	489.7	458.3	423.9	389.5	389.5
87.5°	19.9	22.2	35.1	45.8	103.1	222.3	545.5	520.2	477.4	424.7	386.5	386.5
90°	10.2	10.2	14.6	19.3	28.5	51.9	144.4	130.8	69.1	125.1	65.7	65.7
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.0	7.1	7.2	7.3	7.3
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	11.6	11.4	11.2	11.0	11.0
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	28.2	27.8	27.6	27.3	27.3
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	48.8	48.5	48.1	47.9	47.9
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	70.4	70.2	70.1	69.9	69.9
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	93.2	93.1	93.0	92.9	92.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	117.9	117.9	118.0	118.1
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	145.4	145.6	145.9	146.1
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	176.0	176.2	176.6	176.9
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	207.5	207.9	208.2	208.7
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	241.8	242.3	242.6	243.0
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	274.3	274.6	275.0	275.4
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	307.4	307.6	307.8	308.0
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	338.8	338.8	338.9	339.0
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	370.4	370.8	371.2	371.6
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	403.9	404.3	404.9	405.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	435.3	435.8	436.3	436.8
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	464.4	464.6	464.9	465.1
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	490.9	491.1	491.4	491.6
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	517.9	518.4	519.0	519.6
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	546.3	546.9	547.4	548.1
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	569.7	570.2	570.7	571.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	586.2	586.5	586.9	587.1
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	600.0	600.2	600.6	600.9
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	614.9	615.4	615.9	616.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	632.5	632.9	633.2	633.7
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	646.4	647.0	647.6	648.1
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	655.0	655.4	655.9	656.2
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	660.1	660.5	661.1	661.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	666.0	666.6	667.2	667.8
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	673.5	673.9	674.2	674.4
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	676.5	676.9	677.1	677.4
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	677.7	678.2	678.7	679.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	681.6	682.2	682.6	683.1
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1374.1	1375.7	1374.1	1371.8	1374.1	1371.8	1371.2	1370.4	1371.2	1369.6	1368.7
5°	1367.3	1368.7	1368.7	1364.3	1363.4	1366.5	1361.9	1363.4	1361.9	1360.4	1357.4
7.5°	1334.4	1335.2	1336.0	1332.8	1335.2	1335.2	1333.6	1333.6	1332.2	1332.8	1329.9
10°	1288.6	1291.7	1294.6	1293.2	1292.4	1299.3	1296.3	1298.5	1298.5	1296.3	1297.1
12.5°	1238.9	1244.3	1248.1	1248.1	1251.2	1258.9	1258.1	1259.5	1265.7	1265.7	1263.4
15°	1193.1	1198.5	1204.5	1209.2	1215.2	1220.5	1224.4	1230.6	1233.6	1233.6	1237.4
17.5°	1157.3	1164.8	1171.7	1174.1	1182.3	1191.6	1193.8	1201.6	1206.2	1208.4	1213.0
20°	1122.2	1130.4	1138.9	1146.6	1154.1	1164.8	1170.2	1174.8	1182.3	1187.0	1193.8
22.5°	1080.8	1093.9	1104.6	1113.7	1126.7	1135.9	1146.6	1154.1	1163.3	1170.2	1175.5
25°	1041.9	1059.4	1073.9	1083.2	1100.7	1113.7	1126.7	1138.2	1149.7	1159.5	1167.2
27.5°	1006.0	1025.9	1043.4	1057.9	1077.0	1097.5	1110.7	1129.7	1145.0	1158.7	1167.9
30°	988.5	1005.2	1023.6	1040.3	1059.4	1085.4	1106.8	1131.2	1150.3	1167.9	1181.7
32.5°	992.2	1007.4	1023.6	1038.0	1057.9	1086.9	1109.0	1137.3	1165.6	1188.5	1206.2
35°	1022.8	1036.6	1047.2	1060.2	1077.8	1100.0	1123.6	1153.4	1188.5	1219.1	1242.0
37.5°	1086.9	1090.7	1101.4	1111.5	1120.5	1141.2	1163.3	1188.5	1229.0	1261.1	1293.2
40°	1166.4	1176.3	1186.2	1190.8	1201.6	1214.5	1224.4	1251.2	1287.1	1329.1	1364.3
42.5°	1284.8	1288.6	1290.1	1291.7	1295.4	1304.7	1319.1	1343.5	1378.7	1416.2	1455.2
45°	1417.6	1422.3	1426.9	1429.1	1423.8	1429.1	1444.5	1455.8	1490.3	1525.4	1575.1
47.5°	1601.8	1588.0	1581.2	1590.3	1585.8	1597.2	1604.0	1610.9	1652.3	1694.2	1736.2
50°	1837.8	1829.4	1818.7	1819.4	1827.9	1820.2	1824.7	1850.0	1863.7	1898.8	1954.6
52.5°	2215.1	2189.2	2148.7	2131.0	2141.0	2134.9	2137.2	2142.5	2133.5	2166.3	2213.6
55°	2681.1	2647.5	2620.7	2605.4	2548.9	2544.4	2506.9	2493.2	2463.4	2494.8	2484.0
57.5°	3013.4	2992.0	2978.2	2932.3	2906.4	2854.5	2839.3	2820.9	2779.6	2800.3	2818.5
60°	3654.9	3578.6	3552.5	3472.4	3445.7	3396.0	3332.6	3301.3	3279.9	3299.7	3287.5
62.5°	4725.8	4619.7	4599.1	4408.9	4362.3	4247.7	4128.6	4112.5	4045.2	4003.3	3993.3
65°	5771.6	5619.5	5505.7	5298.0	5157.5	4993.9	4812.2	4679.3	4542.5	4473.8	4382.9
66°	5849.5	5789.1	5674.5	5553.1	5348.4	5169.7	4963.5	4819.9	4666.2	4545.6	4467.7
67.5°	5716.5	5684.6	5644.1	5561.6	5433.2	5266.7	5071.1	4887.8	4703.0	4560.9	4436.4
70°	4832.1	4867.2	4913.0	4891.6	4818.3	4753.4	4580.7	4478.4	4339.4	4153.0	4076.6
72.5°	3647.4	3741.4	3709.2	3588.5	3532.0	3487.0	3424.2	3355.6	3156.1	3133.3	3043.2
75°	2346.6	2315.2	2335.9	2189.2	2089.1	2047.9	1898.8	1837.8	1688.1	1591.1	1517.0
77.5°	1236.7	1175.5	1128.2	999.2	906.7	852.4	779.9	694.3	563.0	555.3	435.4
80°	573.7	527.0	484.3	439.2	394.2	334.6	290.2	236.8	209.2	179.5	167.3
82.5°	389.5	359.8	333.8	304.0	269.6	228.3	197.1	167.3	142.8	128.3	116.9
85°	352.9	320.9	291.8	254.4	218.5	184.2	150.5	124.5	101.6	88.7	80.9
87.5°	343.0	303.3	272.6	232.2	197.1	162.0	129.9	100.8	78.7	64.2	55.0
90°	51.5	54.7	41.8	40.5	22.4	26.4	21.8	16.5	17.2	14.9	15.7
92.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.6	6.6	6.5	6.4
95°	7.4	7.5	7.5	7.6	7.7	7.8	7.7	7.6	7.5	7.5	7.4
97.5°	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3
100°	26.9	26.7	26.4	26.1	25.8	25.5	25.2	25.0	24.6	24.3	24.1
102.5°	47.6	47.3	47.0	46.7	46.4	46.2	45.6	45.2	44.6	44.2	43.7
105°	69.7	69.5	69.3	69.1	68.9	68.7	68.2	67.7	67.2	66.7	66.3
107.5°	92.7	92.6	92.5	92.4	92.3	92.3	91.9	91.4	91.1	90.7	90.3



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CATALOG NUMBER: ISW-AF-1000-LED-E1-SL3-7027-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	118.3	118.4	118.5	118.6	118.7	118.8	118.6	118.4	118.1	117.9	117.8
112.5°	146.2	146.4	146.6	146.9	147.1	147.2	147.1	147.1	147.0	146.9	146.7
115°	177.1	177.4	177.8	178.0	178.3	178.7	178.3	178.0	177.8	177.4	177.1
117.5°	209.0	209.5	209.8	210.2	210.7	211.0	210.6	210.0	209.6	209.0	208.6
120°	243.4	243.8	244.2	244.6	245.0	245.3	244.9	244.4	243.9	243.4	242.9
122.5°	275.8	276.2	276.6	276.9	277.4	277.8	277.3	276.8	276.3	275.8	275.3
125°	308.2	308.4	308.6	308.7	308.9	309.2	308.7	308.2	307.7	307.2	306.7
127.5°	339.1	339.2	339.3	339.4	339.5	339.6	339.6	339.6	339.6	339.6	339.6
130°	372.0	372.3	372.8	373.2	373.5	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	405.9	406.3	406.8	407.3	407.8	408.3	408.1	407.9	407.7	407.5	407.3
135°	437.3	437.7	438.2	438.7	439.2	439.7	439.6	439.5	439.5	439.3	439.2
137.5°	465.2	465.4	465.6	465.8	466.0	466.2	466.3	466.4	466.5	466.6	466.7
140°	491.7	491.9	492.1	492.3	492.5	492.7	492.9	493.1	493.3	493.5	493.7
142.5°	520.2	520.7	521.4	521.9	522.5	523.2	523.2	523.2	523.2	523.2	523.2
145°	548.7	549.2	549.9	550.4	551.0	551.6	551.5	551.4	551.3	551.2	551.1
147.5°	571.7	572.2	572.7	573.2	573.7	574.2	574.3	574.4	574.5	574.6	574.6
150°	587.4	587.7	588.0	588.3	588.6	588.9	589.2	589.5	589.7	590.1	590.4
152.5°	601.1	601.4	601.8	602.0	602.3	602.7	603.0	603.4	603.8	604.2	604.6
155°	616.9	617.3	617.9	618.3	618.8	619.3	619.8	620.3	620.8	621.3	621.8
157.5°	634.0	634.5	634.8	635.2	635.6	636.0	636.2	636.4	636.6	636.8	637.0
160°	648.8	649.4	649.9	650.6	651.1	651.7	651.5	651.1	650.8	650.6	650.2
162.5°	656.6	657.0	657.4	657.8	658.2	658.5	658.5	658.4	658.3	658.2	658.1
165°	662.1	662.5	662.9	663.5	663.9	664.5	664.7	665.0	665.4	665.6	665.9
167.5°	668.4	669.0	669.6	670.1	670.8	671.3	671.8	672.1	672.5	672.9	673.3
170°	674.8	675.1	675.3	675.6	676.0	676.2	676.7	677.2	677.7	678.2	678.7
172.5°	677.7	678.0	678.3	678.6	678.8	679.2	679.4	679.6	679.7	679.9	680.2
175°	679.7	680.2	680.6	681.2	681.6	682.2	682.3	682.4	682.4	682.5	682.6
177.5°	683.6	684.1	684.6	685.0	685.6	686.0	686.2	686.5	686.7	686.8	687.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1367.3	1365.0	1367.3	1366.5	1363.4	1364.3	1365.0	1361.9	1360.4	1360.4	1359.7
5°	1355.0	1353.6	1355.0	1354.3	1349.7	1349.0	1349.0	1346.6	1343.5	1341.3	1339.8
7.5°	1326.0	1327.5	1326.8	1324.6	1322.2	1322.2	1319.9	1314.6	1311.5	1308.4	1305.3
10°	1293.2	1293.2	1294.0	1293.2	1289.3	1287.8	1284.8	1281.7	1282.5	1274.9	1268.8
12.5°	1264.2	1264.2	1263.4	1261.8	1259.5	1258.9	1258.9	1249.6	1247.4	1245.1	1238.1
15°	1236.7	1238.1	1238.1	1238.1	1234.5	1234.5	1230.6	1224.4	1224.4	1217.6	1210.6
17.5°	1215.2	1217.6	1216.8	1217.6	1218.3	1213.7	1206.9	1203.0	1198.5	1194.7	1185.4
20°	1196.9	1198.5	1199.2	1199.2	1196.9	1193.8	1187.8	1181.7	1178.6	1171.0	1159.5
22.5°	1180.1	1183.2	1184.0	1184.0	1180.9	1178.6	1172.5	1163.3	1157.3	1148.0	1137.3
25°	1173.3	1177.0	1174.8	1176.3	1173.3	1167.9	1159.5	1151.9	1142.7	1131.2	1119.7
27.5°	1175.5	1180.9	1179.4	1178.6	1174.8	1171.0	1160.3	1151.1	1140.4	1126.7	1112.1
30°	1189.3	1198.5	1194.7	1191.6	1190.8	1181.7	1171.7	1158.7	1146.6	1130.4	1113.7
32.5°	1215.2	1219.9	1220.5	1218.3	1214.5	1206.9	1193.1	1176.3	1162.6	1143.5	1123.6
35°	1258.1	1262.7	1261.1	1261.1	1257.3	1245.1	1228.3	1211.5	1192.4	1171.0	1150.3
37.5°	1317.6	1326.0	1324.6	1321.5	1316.8	1302.4	1289.3	1268.8	1247.4	1219.1	1195.5
40°	1392.6	1405.5	1417.0	1414.7	1403.9	1390.9	1378.7	1355.0	1333.6	1302.4	1276.4
42.5°	1493.3	1510.9	1525.4	1536.1	1531.5	1514.7	1493.3	1483.4	1452.8	1420.7	1394.0
45°	1622.4	1659.1	1672.0	1685.0	1685.0	1674.4	1669.8	1649.8	1617.8	1575.1	1549.8
47.5°	1792.7	1841.6	1856.2	1878.3	1891.3	1879.8	1871.3	1837.8	1816.5	1757.6	1751.4
50°	1999.8	2048.7	2088.3	2114.3	2110.5	2120.4	2100.6	2081.5	2051.7	2003.6	1986.7
52.5°	2264.0	2303.0	2338.8	2354.2	2370.2	2367.9	2363.4	2350.3	2312.9	2286.9	2244.1
55°	2535.2	2567.3	2610.8	2636.0	2656.6	2652.9	2635.3	2604.0	2610.8	2556.6	2533.0
57.5°	2843.8	2878.9	2926.3	2949.9	2959.1	3005.7	2994.2	2990.5	2977.4	2958.4	2934.0
60°	3374.7	3384.5	3423.5	3483.1	3556.4	3541.9	3560.3	3572.5	3581.6	3538.9	3535.8
62.5°	4007.1	4019.4	4053.0	4065.2	4075.9	4077.4	4053.0	4053.0	4010.9	3956.0	3913.2
65°	4352.4	4327.1	4304.2	4291.2	4263.0	4237.8	4201.1	4151.4	4080.4	3995.6	3919.2
66°	4402.1	4350.9	4321.0	4288.1	4243.1	4196.5	4153.0	4085.0	4001.8	3900.9	3800.1
67.5°	4353.8	4283.6	4214.1	4166.0	4103.4	4019.4	3942.9	3863.5	3784.8	3646.6	3552.5
70°	3914.6	3830.6	3754.3	3648.8	3549.6	3467.1	3335.7	3197.4	3083.6	2938.4	2846.1
72.5°	2907.2	2807.9	2708.6	2560.3	2416.0	2394.6	2229.6	2066.9	1979.9	1863.1	1769.0
75°	1436.0	1310.8	1132.8	1053.4	938.0	881.5	850.2	732.5	704.2	588.9	587.4
77.5°	405.7	348.4	309.4	269.6	252.9	240.6	198.5	190.2	172.7	169.6	159.7
80°	153.5	145.2	141.3	137.5	133.7	131.4	129.9	123.8	120.7	116.2	113.8
82.5°	110.7	107.7	100.8	98.5	95.5	90.9	90.1	86.2	84.0	79.4	78.0
85°	74.9	71.1	67.2	63.4	61.8	61.2	58.7	57.3	55.8	53.4	52.7
87.5°	50.5	46.6	42.0	40.4	39.7	40.4	41.2	39.7	39.0	37.4	36.7
90°	14.9	17.2	16.5	16.5	18.0	16.3	16.1	16.7	15.7	15.5	14.6
92.5°	6.3	6.2	6.1	6.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	7.3	7.2	7.1	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.4	8.3
100°	23.7	23.4	23.2	22.9	22.5	22.2	21.8	21.4	21.0	20.6	20.2
102.5°	43.2	42.7	42.2	41.7	41.2	41.0	40.6	40.3	40.1	39.7	39.4
105°	65.8	65.3	64.8	64.3	63.8	63.4	63.0	62.6	62.3	61.8	61.4
107.5°	89.9	89.5	89.1	88.8	88.3	88.0	87.8	87.5	87.1	86.9	86.6



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	117.6	117.4	117.2	117.0	116.8	116.5	116.2	115.9	115.6	115.3	115.1	0°
112.5°	146.6	146.5	146.4	146.3	146.2	146.1	145.9	145.6	145.4	145.3	145.1	2.5°
115°	176.9	176.6	176.2	176.0	175.7	175.5	175.3	175.1	174.9	174.7	174.5	5°
117.5°	208.0	207.6	207.1	206.6	206.1	205.9	205.7	205.5	205.4	205.2	204.9	7.5°
120°	242.5	241.9	241.5	240.9	240.5	240.3	240.0	239.8	239.7	239.5	239.3	10°
122.5°	274.8	274.3	273.8	273.4	272.8	272.6	272.5	272.3	272.1	271.8	271.6	12.5°
125°	306.2	305.7	305.2	304.7	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.6	339.6	339.6	339.6	339.5	339.4	339.3	339.2	339.1	339.0	17.5°
130°	374.0	374.0	374.0	374.0	374.0	373.8	373.5	373.3	373.2	373.0	372.8	20°
132.5°	407.1	406.9	406.8	406.6	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	439.1	439.0	438.9	438.8	438.7	439.0	439.3	439.6	439.9	440.2	440.5	25°
137.5°	466.8	466.8	467.0	467.1	467.2	467.7	468.2	468.6	469.2	469.6	470.2	27.5°
140°	493.9	494.1	494.2	494.4	494.7	495.1	495.7	496.1	496.7	497.1	497.6	30°
142.5°	523.2	523.2	523.2	523.2	523.2	523.3	523.4	523.4	523.5	523.6	523.7	32.5°
145°	551.0	550.9	550.8	550.8	550.6	550.3	550.0	549.8	549.4	549.1	548.9	35°
147.5°	574.7	574.8	574.9	575.1	575.2	574.8	574.6	574.3	573.9	573.7	573.4	37.5°
150°	590.6	590.9	591.3	591.5	591.8	592.2	592.4	592.7	593.0	593.3	593.6	40°
152.5°	605.0	605.4	605.7	606.2	606.5	607.1	607.5	608.1	608.5	609.1	609.5	42.5°
155°	622.3	622.7	623.2	623.7	624.2	624.4	624.6	624.8	625.0	625.2	625.4	45°
157.5°	637.2	637.3	637.5	637.8	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	649.9	649.7	649.4	649.0	648.8	648.7	648.6	648.5	648.4	648.3	648.1	50°
162.5°	658.0	657.9	657.8	657.6	657.6	657.4	657.2	657.0	656.8	656.6	656.4	52.5°
165°	666.3	666.5	666.8	667.1	667.4	667.2	667.0	666.8	666.6	666.5	666.3	55°
167.5°	673.7	674.1	674.4	674.9	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	679.2	679.7	680.2	680.6	681.2	681.4	681.5	681.7	681.9	682.2	682.4	60°
172.5°	680.4	680.6	680.7	680.9	681.2	681.4	681.5	681.7	681.9	682.2	682.4	62.5°
175°	682.7	682.8	682.9	683.0	683.1	682.9	682.7	682.5	682.4	682.2	681.9	65°
177.5°	687.2	687.5	687.7	687.8	688.0	687.7	687.5	687.1	686.8	686.6	686.2	66°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	114.7
1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	110°	114.7
1358.1	1355.8	1356.6	1353.6	1352.8	1354.3	1355.0	1355.0	1352.8	1339.0	1322.9	112.5°	144.9
1338.3	1333.6	1332.8	1330.6	1326.8	1331.4	1329.1	1325.3	1320.7	1304.7	1273.3	115°	174.3
1301.6	1298.5	1294.6	1291.7	1289.3	1287.8	1287.1	1283.3	1274.9	1245.1	1192.4	117.5°	204.7
1266.4	1262.7	1258.1	1251.2	1248.1	1243.5	1243.5	1234.5	1228.3	1190.8	1112.9	120°	239.1
1232.0	1225.2	1223.0	1218.3	1209.9	1206.2	1200.8	1191.6	1182.3	1137.3	1034.9	122.5°	271.5
1206.2	1199.2	1189.3	1186.2	1177.0	1168.7	1161.8	1149.7	1139.7	1080.0	953.3	125°	304.3
1177.9	1172.5	1161.8	1155.0	1145.0	1135.1	1123.6	1108.3	1101.4	1025.9	875.4	127.5°	338.9
1155.0	1142.7	1130.4	1124.4	1112.1	1100.7	1089.3	1070.9	1057.1	972.3	792.8	130°	372.5
1128.2	1117.5	1104.6	1093.9	1077.0	1064.0	1051.1	1032.0	1015.2	918.2	709.6	132.5°	406.3
1109.9	1094.6	1080.8	1068.6	1049.5	1034.3	1015.9	995.3	978.4	866.1	617.9	135°	440.8
1099.2	1083.9	1066.3	1051.1	1028.9	1011.3	991.5	968.6	947.2	824.1	531.7	137.5°	470.6
1096.1	1077.8	1059.4	1040.3	1017.4	995.3	971.6	948.7	921.2	783.7	437.7	140°	498.1
1105.3	1083.2	1062.4	1039.6	1012.9	987.7	964.0	934.1	906.7	748.6	345.3	142.5°	523.8
1130.4	1103.7	1080.0	1054.9	1024.2	996.8	968.6	935.0	904.4	724.1	264.3	145°	548.5
1170.2	1145.0	1117.5	1092.2	1057.1	1026.7	995.3	959.4	922.6	714.2	199.3	147.5°	573.1
1250.4	1216.8	1188.5	1161.8	1121.4	1090.0	1054.1	1010.5	969.3	723.3	166.5	150°	593.9
1362.7	1320.7	1294.6	1271.0	1220.5	1186.2	1145.0	1095.3	1048.7	749.4	146.6	152.5°	609.9
1517.8	1485.7	1439.1	1402.4	1351.2	1313.1	1267.1	1207.6	1155.7	785.9	136.7	155°	625.6
1711.8	1669.8	1624.0	1586.5	1530.7	1464.2	1416.2	1344.3	1285.6	843.3	132.1	157.5°	638.0
1949.3	1898.8	1837.0	1805.8	1728.6	1676.7	1612.5	1535.3	1460.5	931.9	134.5	160°	648.0
2207.5	2153.2	2105.2	2045.6	1975.4	1917.3	1856.2	1774.4	1680.5	1100.0	143.5	162.5°	656.2
2480.2	2445.1	2399.2	2322.1	2283.9	2210.5	2132.7	2042.5	1974.6	1318.4	165.7	165°	666.0
2877.5	2839.3	2833.8	2758.2	2700.1	2633.7	2572.7	2497.7	2417.6	1706.4	217.7	167.5°	675.3
3488.5	3448.8	3403.7	3344.9	3276.1	3193.7	3117.9	3017.1	2927.8	2095.2	242.1	170°	682.5
3850.6	3777.2	3696.3	3606.9	3506.8	3404.5	3302.9	3173.7	3043.9	2118.9	218.5	172.5°	682.5
3820.0	3729.0	3626.0	3504.5	3399.1	3273.1	3163.8	2997.4	2878.9	1886.7	178.0	175°	681.7
3706.9	3582.4	3485.4	3373.9	3241.7	3128.7	3013.4	2849.2	2713.9	1730.0	162.8	177.5°	685.9
3417.4	3311.2	3176.8	3069.9	2972.1	2836.8	2728.4	2574.9	2481.7	1500.2	145.9	180°	687.0
2731.5	2584.9	2471.0	2387.8	2277.0	2154.8	2058.6	1929.5	1846.9	993.0	126.0		
1591.1	1554.3	1426.9	1355.0	1287.8	1188.5	1112.1	1050.3	941.9	481.2	111.5		
490.4	456.0	451.4	383.5	405.7	346.7	337.7	307.1	307.1	184.8	87.9		
156.6	153.5	147.4	139.0	135.9	135.9	132.1	131.4	125.2	99.4	65.7		
110.7	108.4	106.2	103.8	102.4	103.1	100.1	98.5	96.9	71.9	51.9		
76.4	74.1	69.5	69.5	68.0	67.2	68.0	64.9	64.2	50.5	43.6		
51.9	51.1	50.5	49.7	48.9	48.1	47.4	45.1	43.6	35.1	30.5		
34.3	29.0	28.3	24.4	23.6	22.9	21.4	22.9	25.2	25.2	19.9		
15.1	14.1	14.7	14.6	12.9	13.7	13.7	12.1	12.1	14.6	15.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8		
8.2	8.1	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8	8.8		
19.9	19.4	19.0	18.7	18.7	18.7	18.7	18.7	18.7	18.7	22.5		
39.2	38.9	38.5	38.3	38.1	37.9	37.7	37.5	37.3	38.3	41.2		
61.1	60.6	60.3	59.8	59.8	59.8	59.8	59.8	59.8	59.8	63.8		
86.2	86.0	85.7	85.4	85.2	85.0	84.8	84.6	84.4	85.4	88.3		

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
114.4	114.2	113.8	114.1	114.3	114.4	114.6	114.8	113.8	116.8	0°	1353.6	1353.6
144.6	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	146.2	2.5°	1309.2	1297.1
174.1	173.9	173.7	173.9	174.1	174.3	174.5	174.7	173.7	175.7	5°	1239.8	1212.3
204.5	204.4	204.2	204.4	204.5	204.7	204.9	205.2	204.2	206.1	7.5°	1145.8	1092.2
238.9	238.7	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.5	10°	1038.0	960.8
271.3	271.1	270.9	271.1	271.3	271.5	271.6	271.8	270.9	272.8	12.5°	926.5	828.0
304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°	822.7	692.1
338.8	338.8	338.6	339.0	339.4	339.8	340.2	340.5	338.6	339.6	17.5°	713.4	552.3
372.3	372.2	372.0	372.2	372.3	372.5	372.8	373.0	372.0	374.0	20°	608.8	417.0
406.3	406.3	406.3	406.6	406.8	406.9	407.1	407.3	406.3	406.3	22.5°	490.4	292.6
441.1	441.3	441.7	441.9	442.1	442.2	442.4	442.7	441.7	438.7	25°	359.8	212.4
471.1	471.6	472.1	472.3	472.5	472.7	472.9	473.0	472.1	467.2	27.5°	256.6	169.6
498.6	499.1	499.5	500.0	500.4	500.7	501.2	501.5	499.5	494.7	30°	191.7	142.8
523.9	524.0	524.1	524.5	524.9	525.3	525.7	526.0	524.1	523.2	32.5°	153.5	123.8
548.2	548.0	547.7	548.1	548.4	548.9	549.2	549.7	547.7	550.6	35°	130.6	112.3
572.8	572.5	572.2	572.6	573.0	573.4	573.7	574.2	572.2	575.2	37.5°	116.9	104.7
594.2	594.5	594.8	595.6	596.4	597.1	597.9	598.7	594.8	591.8	40°	109.2	100.8
610.5	610.9	611.5	612.5	613.5	614.4	615.4	616.3	611.5	606.5	42.5°	104.7	96.9
625.8	626.0	626.2	626.7	627.4	627.9	628.5	629.2	626.2	624.2	45°	102.4	94.7
638.0	638.0	638.0	639.0	640.0	640.9	641.9	642.8	638.0	638.0	47.5°	100.8	91.6
647.9	647.9	647.8	648.9	650.1	651.3	652.5	653.7	647.8	648.8	50°	99.4	91.6
656.0	655.9	655.7	656.8	658.0	659.2	660.3	661.5	655.7	657.6	52.5°	100.1	93.2
665.8	665.6	665.5	666.3	667.0	667.8	668.6	669.3	665.5	667.4	55°	103.8	93.2
675.3	675.3	675.3	676.4	677.6	678.8	679.9	681.2	675.3	675.3	57.5°	110.0	93.2
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	60°	114.5	94.7
682.7	682.9	683.1	684.1	685.0	686.0	687.0	688.0	683.1	681.2	62.5°	116.2	97.7
681.5	681.4	681.2	682.2	683.1	684.1	685.0	686.0	681.2	683.1	65°	114.5	99.4
685.7	685.4	685.0	685.9	686.7	687.5	688.2	689.0	685.0	688.0	66°	113.1	99.4
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	110.7	97.7
										70°	105.4	91.6
										72.5°	94.7	82.6
										75°	80.9	66.5
										77.5°	65.7	53.4
										80°	48.9	40.4
										82.5°	35.9	31.4
										85°	25.2	22.2
										87.5°	15.3	13.7
										90°	12.7	10.7
										92.5°	6.8	6.8
										95°	7.8	6.8
										97.5°	9.8	11.8
										100°	25.5	28.5
										102.5°	46.2	49.0
										105°	68.7	70.7
										107.5°	92.3	93.2



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tinued):

135°	145°	155°	165°	175°	180°
1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
1288.6	1287.8	1268.8	1264.9	1252.0	1258.9
1179.4	1166.4	1132.0	1125.1	1110.7	1106.8
1048.7	1012.9	985.4	954.8	925.7	940.3
896.0	835.6	775.2	735.6	719.5	714.2
750.8	642.4	566.8	488.9	461.4	471.3
575.2	451.4	350.6	305.5	279.6	275.0
405.7	289.5	242.9	231.4	226.1	226.1
275.0	220.7	203.2	197.9	197.9	198.5
209.2	185.6	178.0	178.8	181.7	182.5
173.5	164.2	160.3	165.7	171.8	172.7
149.7	147.4	148.2	155.0	161.2	162.0
131.4	133.7	136.7	142.8	148.2	149.7
118.4	122.2	124.5	128.3	131.4	132.1
109.2	113.8	113.1	115.3	117.7	118.4
103.8	106.2	103.8	105.4	105.4	107.0
99.4	100.1	96.3	96.9	98.5	98.5
94.7	94.0	90.1	91.6	94.0	94.7
90.1	88.7	85.6	88.7	92.4	93.2
86.2	84.8	83.3	87.0	91.6	92.4
84.8	83.3	81.7	87.0	91.6	92.4
84.8	83.3	81.7	85.6	90.1	90.9
85.6	84.0	80.9	84.8	87.9	88.7
86.2	84.8	79.4	81.7	83.3	84.0
86.2	83.3	78.0	78.7	78.7	79.4
84.8	80.9	74.9	74.9	74.1	74.1
84.8	78.0	71.9	70.2	68.7	68.7
84.0	77.2	71.1	68.7	66.5	66.5
82.6	75.5	69.5	66.5	64.2	64.2
77.2	72.5	65.7	62.6	60.4	59.6
68.7	66.5	61.2	58.7	56.5	55.8
58.0	58.7	55.8	54.3	51.9	51.1
48.9	50.5	48.9	48.1	46.6	45.8
39.0	42.0	40.4	40.4	41.2	39.7
29.8	33.6	32.1	33.6	35.1	32.9
20.6	24.4	24.4	25.2	26.1	24.4
12.9	16.0	15.3	16.0	16.0	15.3
9.9	13.1	10.9	11.5	8.7	7.9
5.9	5.9	5.9	4.9	4.0	4.0
6.8	6.8	6.8	5.9	4.9	4.9
8.8	8.8	7.8	7.8	6.8	6.8
20.6	11.8	9.8	8.8	7.8	7.8
39.3	26.5	17.7	12.8	10.8	10.8
61.8	47.1	35.3	26.5	21.6	20.6
86.3	71.7	57.0	48.1	41.2	40.2

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	118.8	117.8	111.9
112.5°	147.2	145.3	140.3
115°	178.7	175.7	170.8
117.5°	211.0	207.1	201.2
120°	245.3	241.5	238.5
122.5°	277.8	273.8	271.8
125°	309.2	307.2	304.3
127.5°	339.6	338.6	333.7
130°	374.0	370.0	365.1
132.5°	408.3	403.4	397.5
135°	439.7	434.8	428.9
137.5°	466.2	464.2	459.3
140°	492.7	490.7	487.8
142.5°	523.2	517.2	515.3
145°	551.6	545.7	540.8
147.5°	574.2	569.3	564.3
150°	588.9	586.0	582.0
152.5°	602.7	599.7	598.7
155°	619.3	614.4	616.3
157.5°	636.0	632.0	633.0
160°	651.7	645.8	642.8
162.5°	658.5	654.7	650.7
165°	664.5	659.5	660.5
167.5°	671.3	665.5	672.3
170°	676.2	673.3	678.2
172.5°	679.2	676.2	677.2
175°	682.2	677.2	677.2
177.5°	686.0	681.2	682.2
180°	687.0	687.0	687.0



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145°	155°	165°	175°	180°
100.1	85.4	72.7	66.7	64.8
131.5	118.8	104.0	97.2	97.2
164.9	156.0	144.3	136.5	137.4
198.3	193.3	185.5	180.6	180.6
232.6	228.7	221.8	218.8	220.8
266.0	262.0	256.2	255.2	258.2
299.3	293.5	290.5	288.5	292.5
332.7	326.8	322.9	322.9	323.9
363.2	359.2	355.3	354.3	356.3
396.5	393.5	385.7	386.7	388.7
427.0	424.0	418.1	418.1	421.0
455.4	451.5	450.5	448.5	451.5
481.9	480.0	478.0	476.0	479.0
511.3	508.4	507.5	505.5	508.4
539.8	536.8	534.0	535.9	539.8
563.3	563.3	560.5	561.4	564.3
582.0	582.0	582.0	581.0	584.0
598.7	597.7	596.7	596.7	599.7
618.3	615.4	613.5	613.5	617.3
634.0	632.0	631.1	631.1	634.0
642.8	643.8	646.8	647.8	650.7
648.8	652.7	656.6	656.6	660.5
660.5	663.5	663.5	665.5	668.4
675.3	673.3	671.3	674.3	677.2
680.2	679.2	679.2	682.2	685.0
677.2	680.2	682.2	684.1	686.0
678.2	682.2	684.1	685.0	687.0
684.1	686.0	687.0	692.0	693.9
687.0	687.0	687.0	687.0	687.0

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