

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: P450605

Luminaire Tested: **GALN-SA1B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

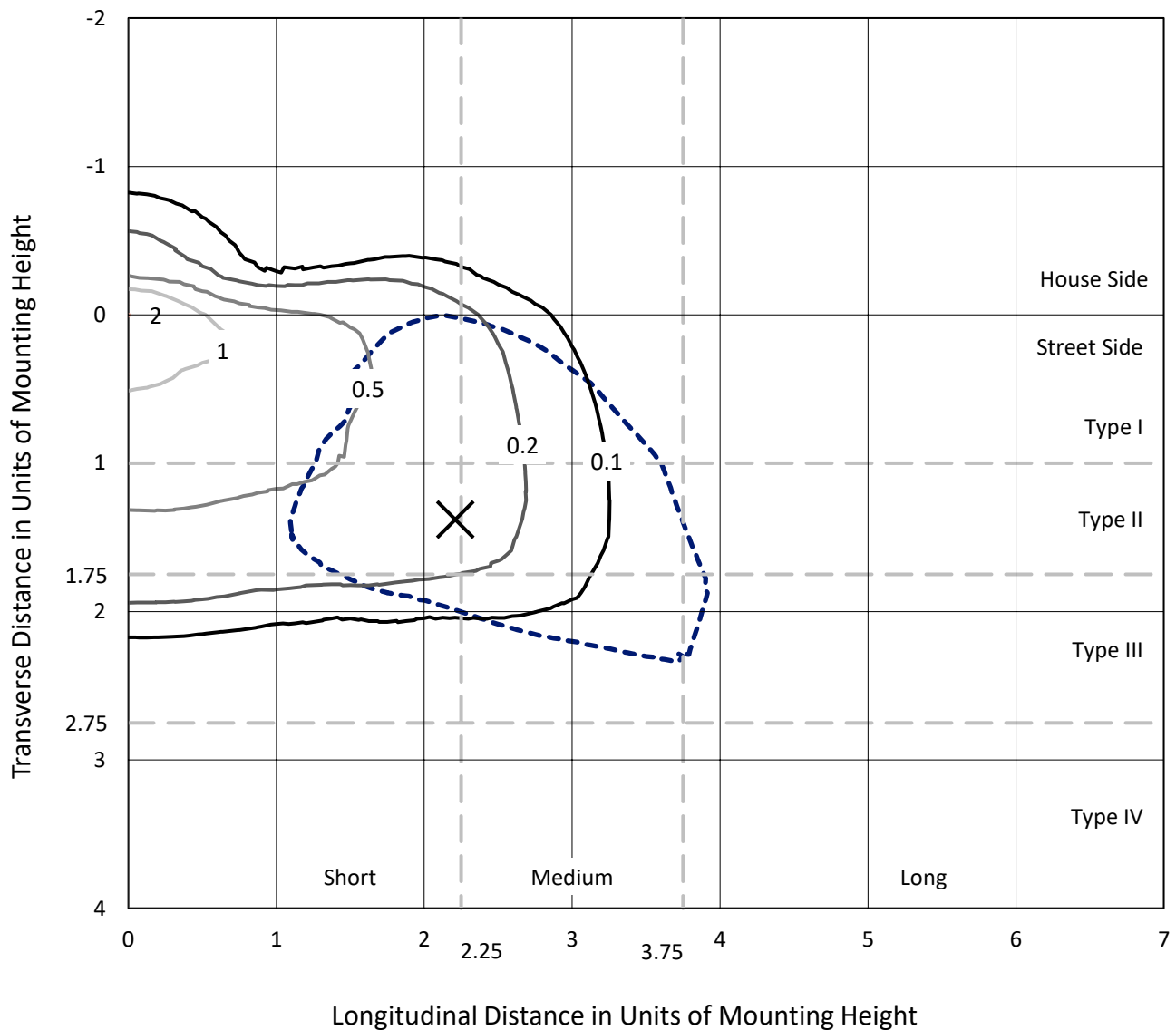


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Iso-Footcandle Lines of Horizontal Illumination

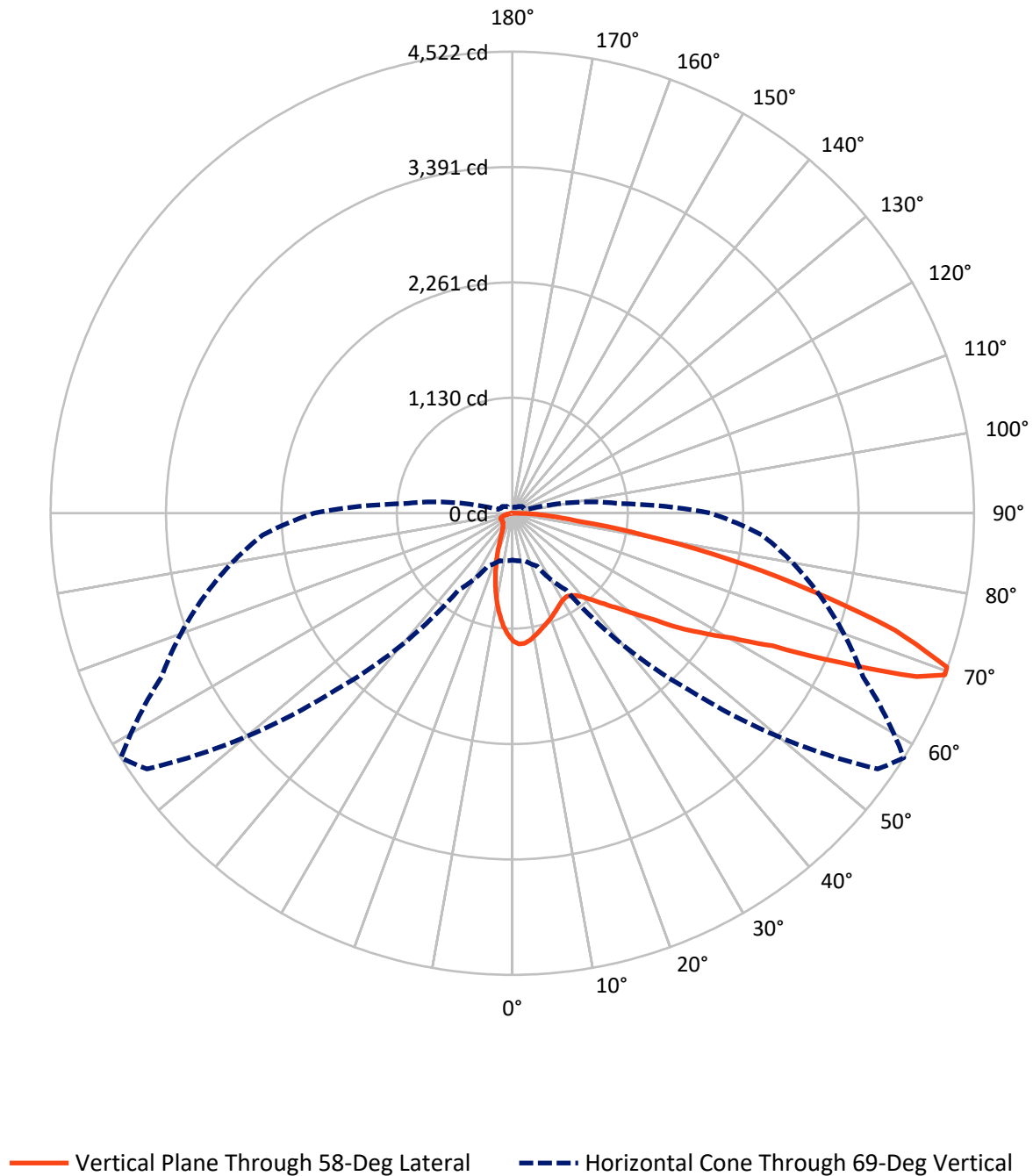
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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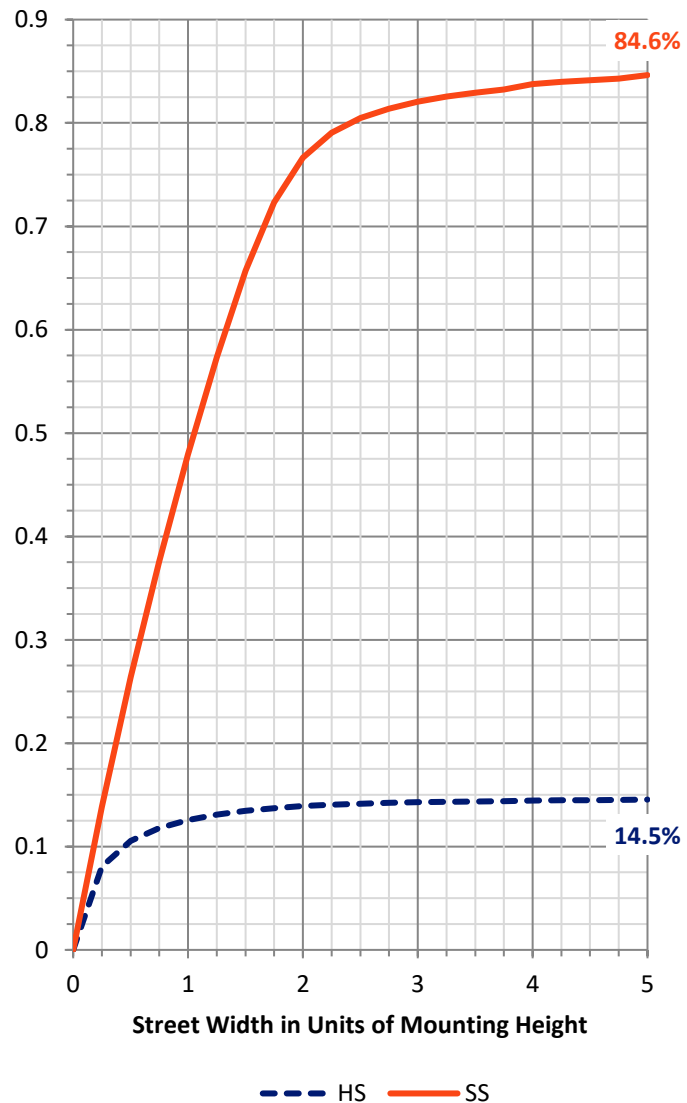
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.6	0.0	664.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3870.4	0.0	3870.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	4535.0	0.0	4535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	2.3
10°-20°	233.7	5.2
20°-30°	301.9	6.7
30°-40°	392.2	8.6
40°-50°	570.1	12.6
50°-60°	909.8	20.1
60°-70°	1215.3	26.8
70°-80°	700.6	15.4
80°-90°	104.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4535.0	100.0
0°-180°	4535.0	100.0

Coefficient of Utilization



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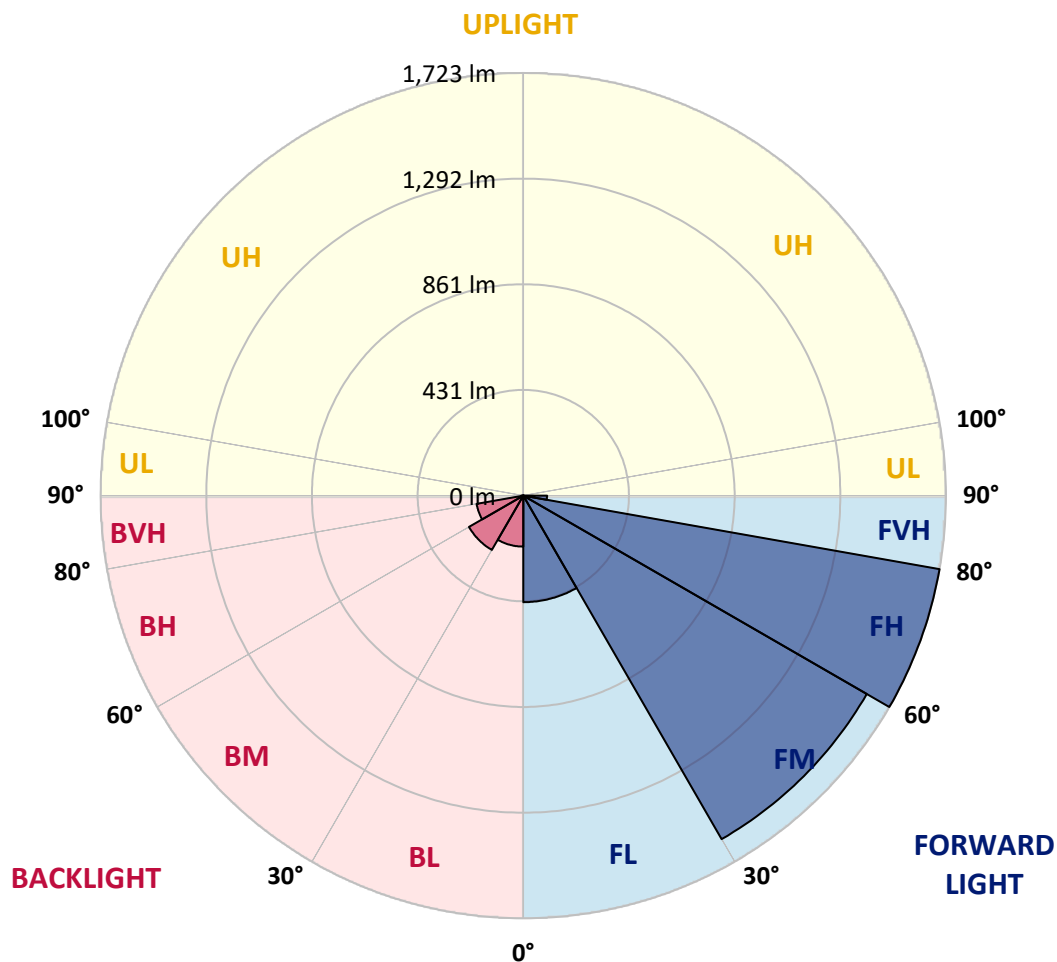
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.3	9.6			
FM	(30°-60°)	1616.5	35.6			
FH	(60°-80°)	1722.7	38.0			G1/1800
FVH	(80°-90°)	96.9	2.1			G1/100
BL	(0°-30°)	207.7	4.6	B1/500		
BM	(30°-60°)	255.6	5.6	B1/1000		
BH	(60°-80°)	193.3	4.3	B1/500		G1/500
BVH	(80°-90°)	8.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1299.7	1303.3	1302.3	1301.0	1299.0	1293.4	1284.3	1282.8	1277.0	1264.6	1249.2
5°	1279.8	1282.8	1283.1	1284.8	1287.4	1286.3	1279.8	1279.0	1270.4	1253.7	1227.9
7.5°	1211.2	1215.3	1224.1	1234.0	1242.8	1251.2	1253.2	1254.5	1249.2	1229.9	1195.5
10°	1134.1	1138.1	1142.2	1156.8	1178.6	1199.3	1216.5	1218.8	1220.1	1202.4	1160.4
12.5°	1048.6	1056.9	1065.5	1087.3	1116.4	1149.0	1179.4	1184.2	1192.8	1179.4	1130.0
15°	976.0	984.6	997.0	1016.5	1051.6	1098.7	1141.4	1149.3	1166.2	1159.4	1101.7
17.5°	925.7	928.7	937.3	959.6	997.5	1047.1	1104.2	1119.9	1147.0	1145.2	1077.4
20°	886.0	889.8	895.1	908.7	948.2	1000.5	1069.6	1089.8	1126.5	1132.6	1053.4
22.5°	869.3	872.1	871.3	878.6	905.4	958.1	1034.4	1058.5	1108.3	1124.0	1031.1
25°	870.3	872.8	869.0	867.3	883.2	920.6	997.8	1028.4	1093.6	1118.2	1010.9
27.5°	887.2	889.0	881.9	874.8	876.1	897.4	967.4	1001.3	1081.2	1120.7	994.0
30°	910.0	913.3	908.7	900.1	890.8	891.8	947.9	981.3	1075.4	1129.5	985.9
32.5°	939.3	942.4	940.3	933.5	921.4	908.0	943.1	974.0	1075.9	1147.5	984.1
35°	970.2	976.3	979.6	979.0	969.2	945.9	962.1	987.6	1088.1	1177.6	994.5
37.5°	1005.1	1010.2	1024.3	1033.4	1024.3	997.3	1004.8	1022.5	1114.9	1221.1	1017.2
40°	1039.0	1046.6	1067.3	1095.6	1092.1	1068.3	1070.1	1081.7	1162.2	1285.8	1061.7
42.5°	1074.4	1083.5	1119.7	1161.7	1170.0	1151.5	1156.3	1166.7	1229.4	1375.6	1138.1
45°	1119.9	1130.8	1175.3	1227.7	1260.5	1249.2	1262.8	1267.9	1319.5	1492.5	1238.8
47.5°	1178.6	1191.2	1246.1	1311.4	1357.9	1368.3	1392.1	1389.0	1431.0	1630.8	1369.3
50°	1277.5	1284.6	1336.4	1402.9	1466.9	1513.7	1539.5	1544.3	1569.4	1765.4	1515.2
52.5°	1395.1	1401.4	1438.9	1497.0	1577.2	1676.3	1740.1	1724.4	1730.5	1929.3	1686.0
55°	1527.4	1538.0	1561.8	1600.5	1704.4	1850.3	1978.3	1982.1	1914.8	2086.1	1849.6
57.5°	1629.8	1647.8	1688.5	1743.6	1875.4	2043.8	2215.8	2218.3	2132.4	2253.5	2030.2
60°	1578.2	1599.5	1692.5	1826.8	2099.7	2381.5	2499.6	2485.2	2344.0	2444.2	2250.5
62.5°	1355.6	1359.4	1494.7	1704.7	2168.8	2833.2	2922.0	2861.0	2626.6	2686.0	2474.3
65°	877.4	902.2	1009.4	1303.5	1941.9	3083.8	3662.0	3521.1	3022.6	2960.4	2661.7
67.5°	553.9	547.6	592.1	744.3	1335.7	2863.0	4293.5	4271.3	3540.6	3133.7	2616.9
69°	459.3	466.4	481.6	570.6	919.1	2444.5	4368.1	4521.9	3791.7	3120.0	2454.3
70°	416.6	419.8	435.8	505.8	709.2	2047.4	4245.7	4515.1	3890.4	3062.8	2336.5
72.5°	330.6	330.3	357.6	420.9	530.1	1168.7	3486.2	3920.0	3780.1	2796.8	1930.5
75°	251.1	255.2	285.3	356.1	488.4	638.6	2432.8	3018.8	3019.1	2209.0	1204.6
77.5°	181.1	183.6	218.8	298.9	460.1	517.7	1620.4	2165.2	2035.5	1012.2	378.6
80°	118.6	120.1	146.9	236.7	414.8	488.4	960.8	1325.3	960.1	268.6	125.2
82.5°	65.0	72.6	89.8	153.3	332.8	451.2	584.0	670.7	360.2	119.6	65.3
85°	32.6	34.6	50.6	89.5	217.5	373.3	406.7	384.7	185.9	59.4	33.9
87.5°	9.6	12.1	21.0	34.6	88.3	194.5	226.4	203.1	71.6	21.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2	1253.2
2.5°	1242.8	1238.3	1218.1	1199.8	1183.2	1165.4	1150.5	1137.4	1138.6	1138.9	1125.5
5°	1214.5	1204.1	1165.7	1129.8	1099.4	1061.0	1028.1	1006.9	996.2	982.1	987.1
7.5°	1176.1	1156.1	1102.7	1043.0	987.1	937.3	883.2	846.0	822.2	799.2	802.3
10°	1136.4	1104.2	1026.6	947.7	875.3	795.7	726.6	667.5	623.4	607.0	596.1
12.5°	1095.6	1053.4	954.8	849.8	749.9	654.6	556.7	493.2	444.6	418.8	422.1
15°	1058.5	1007.1	879.9	751.9	622.2	508.6	411.0	350.5	316.7	309.6	313.6
17.5°	1024.1	956.8	809.8	656.8	505.3	381.4	308.8	274.7	261.0	257.2	257.0
20°	988.7	914.0	731.2	555.2	393.8	295.7	253.4	237.5	235.0	236.5	236.7
22.5°	952.7	861.2	650.3	454.2	313.6	241.8	221.6	217.3	219.3	222.8	223.3
25°	919.6	814.6	572.4	365.7	250.4	212.5	202.6	202.6	207.1	212.5	212.7
27.5°	892.3	769.6	494.7	290.3	209.7	191.2	187.9	189.7	196.0	200.1	200.3
30°	869.8	727.6	421.4	232.7	184.4	174.3	173.5	176.5	181.1	184.9	185.1
32.5°	852.8	690.7	352.8	195.5	166.9	161.4	161.1	163.4	165.9	166.9	167.9
35°	846.3	660.1	290.1	172.0	155.3	151.8	151.8	151.5	152.5	153.0	153.5
37.5°	851.6	636.6	241.5	156.8	146.7	144.2	142.6	141.1	140.6	140.6	140.9
40°	874.1	624.2	205.4	146.9	140.6	136.8	134.0	132.3	130.5	131.0	131.5
42.5°	921.9	626.5	180.8	140.4	135.3	130.0	126.0	123.9	122.7	124.2	123.9
45°	998.0	649.2	165.2	135.8	130.0	123.2	119.4	117.4	117.4	119.6	120.4
47.5°	1104.5	692.7	156.8	132.3	126.0	117.9	114.1	112.5	113.1	116.8	117.1
50°	1234.5	768.4	155.3	130.5	123.9	114.1	109.8	108.2	109.5	113.6	114.1
52.5°	1377.9	865.7	162.6	130.8	122.2	111.8	106.2	103.9	105.2	108.5	109.5
55°	1547.9	987.6	181.6	131.8	119.6	110.5	103.7	98.6	100.2	102.4	102.7
57.5°	1721.4	1141.4	215.0	132.0	117.6	108.2	99.4	92.8	92.8	94.3	95.1
60°	1933.3	1308.9	259.0	132.3	117.9	105.0	93.6	86.2	85.2	86.0	86.2
62.5°	2143.7	1449.0	266.3	131.5	120.4	101.7	87.3	79.7	77.9	77.6	77.1
65°	2236.6	1422.9	218.3	128.0	123.2	99.6	82.2	73.3	70.3	69.3	69.3
67.5°	2085.3	1203.6	164.1	123.2	121.4	97.6	77.4	68.0	64.5	62.5	62.5
69°	1943.2	1070.6	147.5	119.9	116.8	94.3	74.4	65.3	61.0	58.7	57.9
70°	1833.4	979.0	140.4	117.1	112.5	90.5	72.1	63.2	58.4	55.9	55.4
72.5°	1463.1	768.1	122.9	106.5	95.9	76.1	64.0	56.9	52.4	49.6	48.8
75°	843.2	416.3	101.9	92.6	77.1	59.2	54.1	49.6	46.0	43.5	42.7
77.5°	259.5	160.9	73.9	73.1	56.7	45.8	43.2	41.5	38.9	36.2	35.7
80°	109.3	81.9	50.1	49.3	37.7	31.9	31.1	30.9	29.8	27.6	26.8
82.5°	59.9	46.3	34.9	30.4	22.8	18.5	19.2	19.5	18.7	16.4	14.9
85°	29.3	25.3	16.9	13.7	10.4	6.6	6.3	7.6	7.1	5.1	5.6
87.5°	5.8	7.1	4.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)