

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: P458577

Luminaire Tested: **GALN-SA1C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5424 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

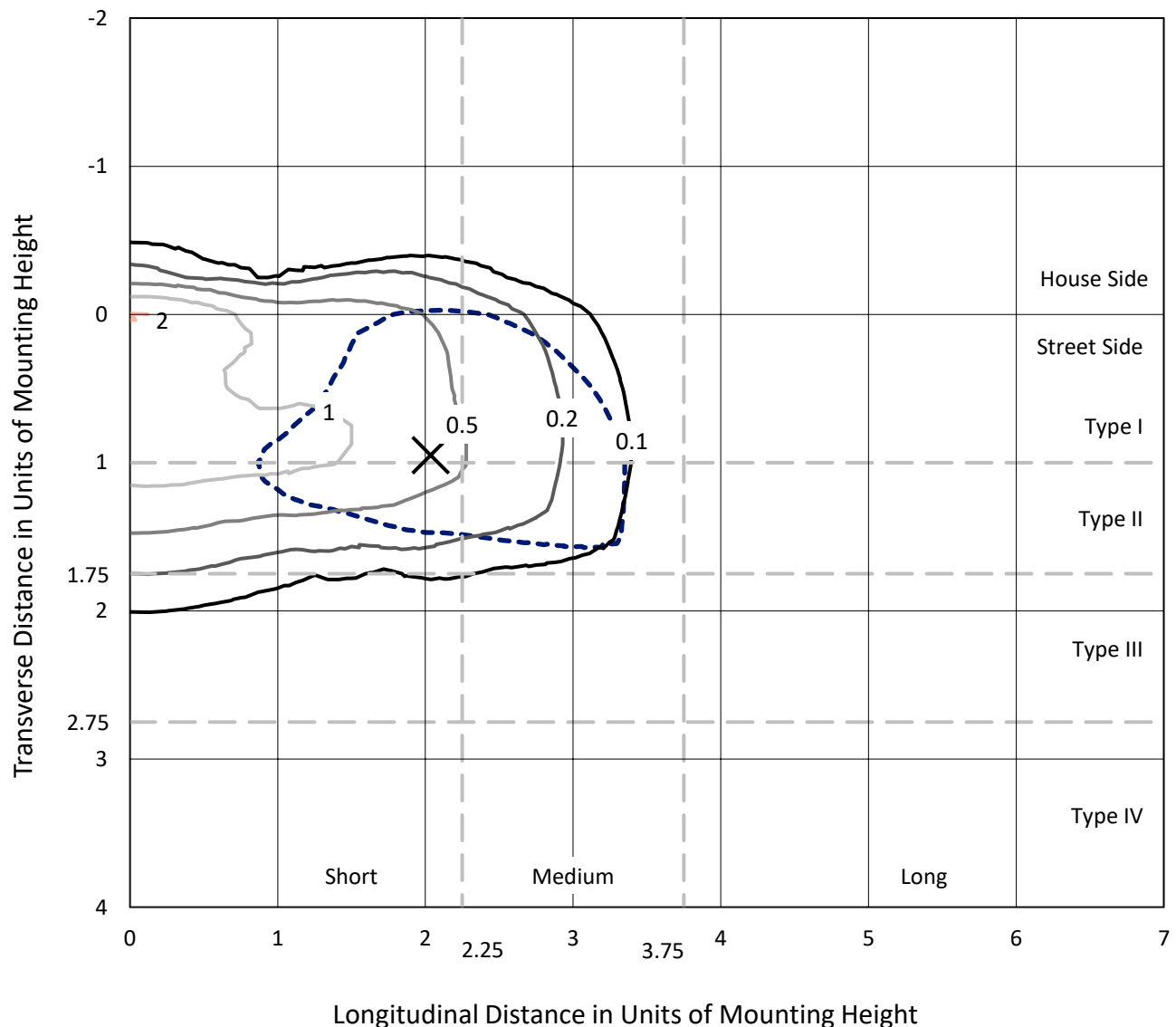


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Iso-Footcandle Lines of Horizontal Illumination

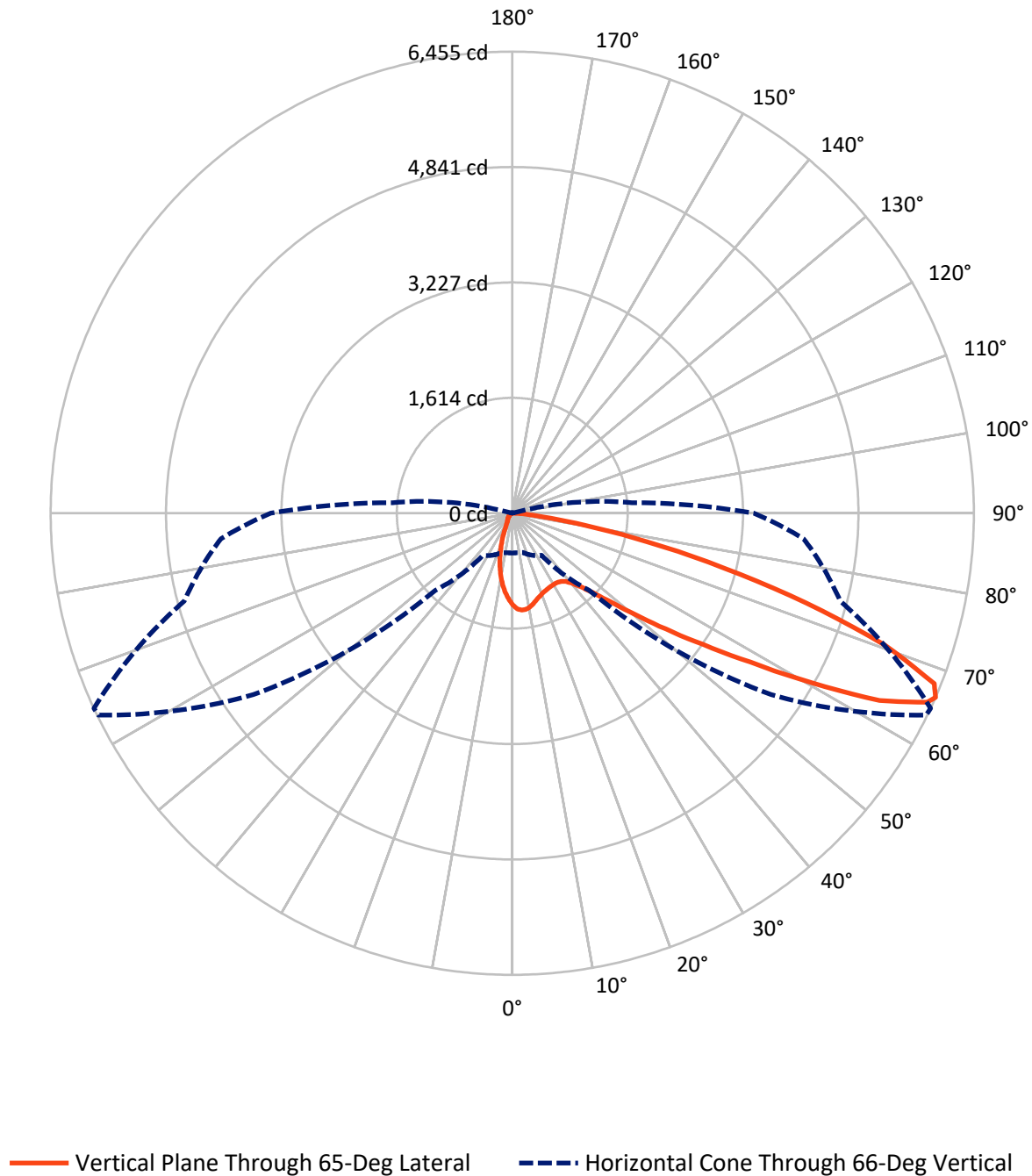
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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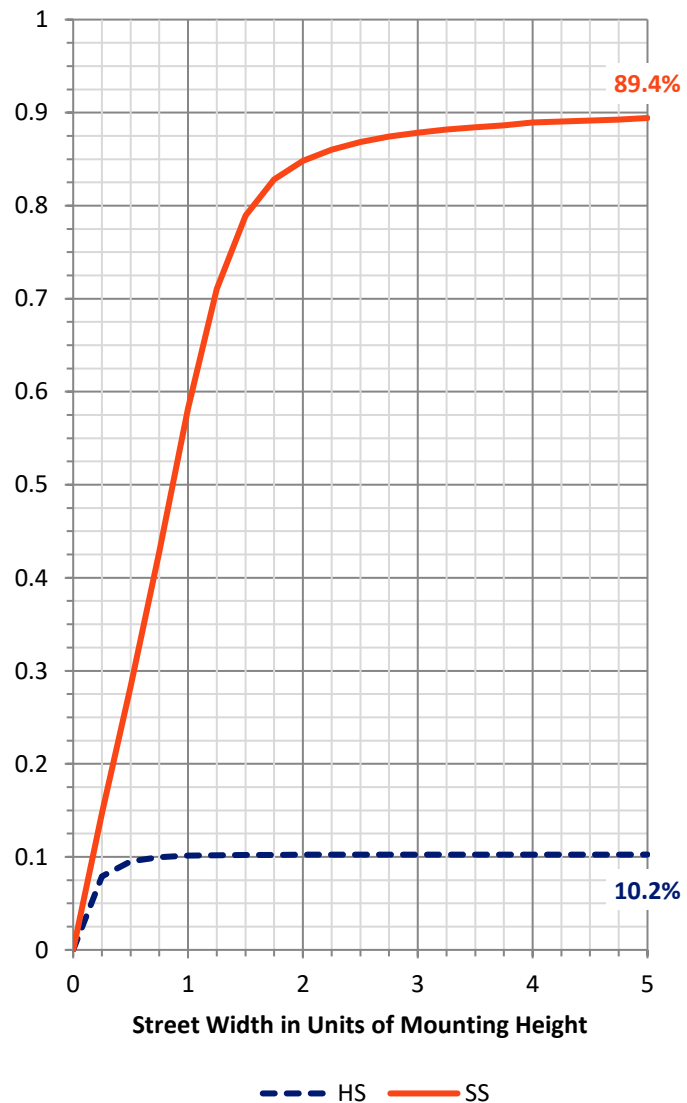
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.9	0.0	560.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4863.1	0.0	4863.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	5424.0	0.0	5424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.9
10°-20°	229.2	4.2
20°-30°	328.3	6.1
30°-40°	479.6	8.8
40°-50°	804.1	14.8
50°-60°	1342.0	24.7
60°-70°	1424.5	26.3
70°-80°	645.1	11.9
80°-90°	66.0	1.2
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°	5424.0	100.0
0°-180°	5424.0	100.0

Coefficient of Utilization



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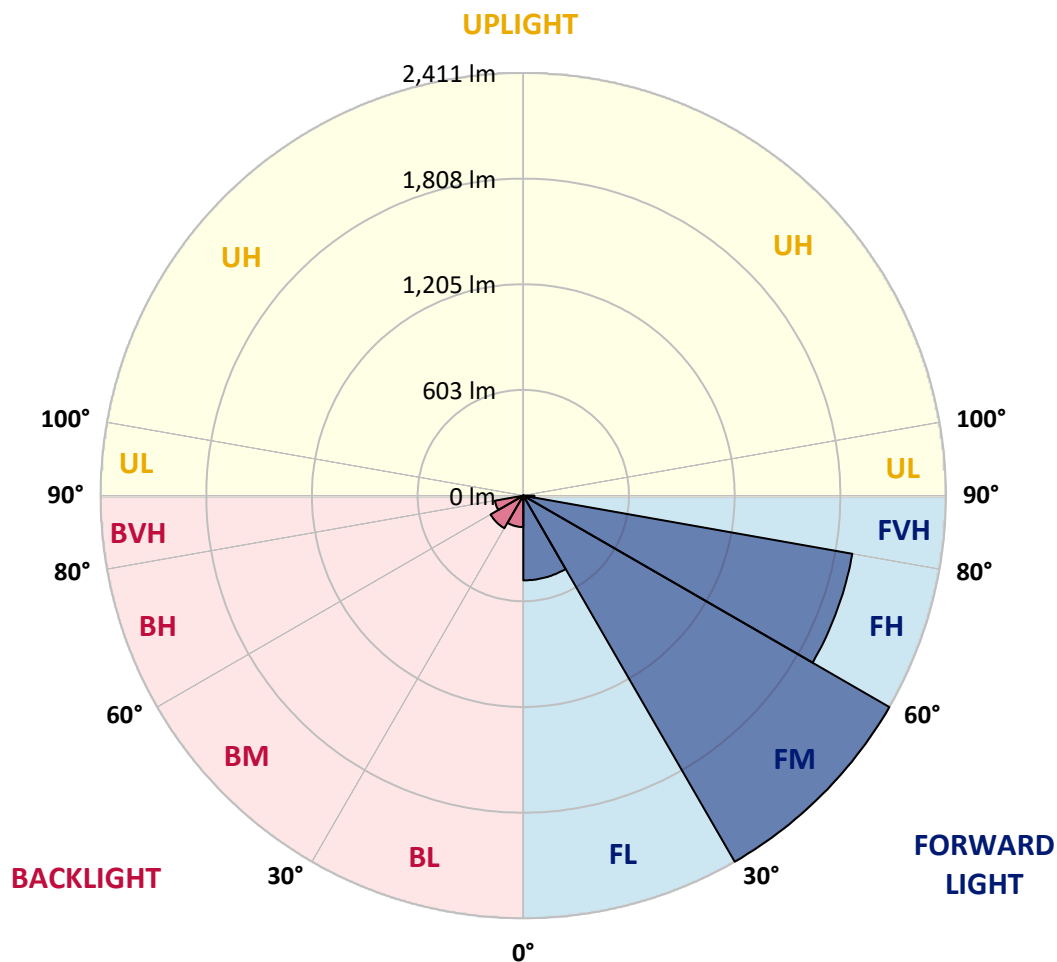
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.3	8.9			
FM	(30°-60°)	2410.6	44.4			
FH	(60°-80°)	1905.3	35.1			G2/5000
FVH	(80°-90°)	63.9	1.2			G1/100
BL	(0°-30°)	179.4	3.3	B1/500		
BM	(30°-60°)	215.1	4.0	B0/220		
BH	(60°-80°)	164.3	3.0	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1355.5	1356.9	1358.8	1361.3	1363.2	1357.7	1350.0	1341.2	1339.4	1320.7	1298.0
5°	1282.9	1285.1	1301.3	1310.0	1329.8	1347.8	1359.1	1360.6	1359.9	1342.3	1306.0
7.5°	1179.6	1185.9	1201.6	1217.0	1254.0	1288.1	1328.4	1356.6	1358.4	1353.6	1308.6
10°	1095.7	1099.8	1107.8	1138.2	1169.0	1221.0	1277.4	1330.6	1335.0	1354.0	1306.4
12.5°	1030.2	1036.0	1045.9	1069.4	1106.4	1155.4	1219.6	1291.0	1300.2	1347.0	1300.2
15°	984.4	987.3	997.2	1020.3	1056.2	1101.6	1166.4	1249.6	1257.7	1337.9	1299.1
17.5°	962.7	966.0	973.0	991.3	1021.0	1063.1	1126.5	1216.3	1226.5	1332.0	1303.1
20°	968.6	971.5	971.9	981.4	1001.6	1037.1	1097.2	1185.1	1198.3	1328.4	1309.7
22.5°	1001.9	1002.3	997.9	993.5	1000.5	1026.1	1079.2	1165.3	1178.9	1327.6	1317.4
25°	1051.8	1052.9	1045.5	1030.2	1016.2	1029.4	1075.2	1152.5	1164.6	1325.8	1322.1
27.5°	1120.6	1120.3	1118.1	1092.4	1052.9	1044.1	1078.5	1145.6	1155.8	1320.7	1324.0
30°	1217.0	1214.1	1209.3	1180.4	1119.9	1079.6	1092.4	1141.2	1150.7	1313.3	1319.2
32.5°	1311.9	1322.9	1322.1	1294.7	1219.2	1143.0	1121.4	1147.0	1154.0	1308.6	1312.2
35°	1422.5	1422.1	1450.4	1440.1	1351.8	1224.0	1170.8	1166.4	1171.9	1311.9	1308.9
37.5°	1525.1	1534.6	1578.6	1589.2	1508.6	1338.3	1240.8	1208.2	1210.0	1334.2	1317.0
40°	1652.9	1671.3	1736.8	1772.4	1701.3	1507.9	1344.1	1284.8	1285.1	1389.2	1347.4
42.5°	1817.8	1846.7	1907.9	1967.3	1929.2	1708.6	1499.1	1406.0	1405.3	1485.9	1417.0
45°	2018.2	2038.3	2107.9	2202.1	2177.9	1988.9	1724.7	1594.0	1584.4	1644.5	1540.5
47.5°	2191.1	2218.6	2289.3	2396.6	2506.5	2331.0	1994.4	1852.2	1846.0	1896.9	1752.2
50°	2266.6	2290.7	2365.1	2515.7	2782.0	2780.2	2395.9	2229.2	2218.6	2246.0	2079.7
52.5°	2183.8	2206.5	2281.6	2469.2	2911.7	3327.5	2977.6	2702.1	2689.3	2654.2	2471.0
55°	1900.2	1918.9	2029.9	2245.3	2861.9	3692.4	3779.2	3286.5	3236.6	3100.0	2913.9
57.5°	1513.0	1503.5	1572.3	1822.6	2569.5	3814.7	4602.0	4014.4	3925.4	3485.4	3288.7
60°	1048.5	1077.8	1105.6	1270.5	1932.1	3602.6	5113.8	4929.5	4812.3	3864.6	3647.7
62.5°	770.8	790.2	808.5	884.7	1214.8	2876.5	5204.3	5869.5	5765.5	4267.2	3990.2
65°	609.6	611.1	618.4	693.5	800.5	1870.5	4769.4	6399.6	6372.9	4654.8	4129.1
66°	555.4	555.7	567.1	647.7	718.4	1523.3	4421.0	6439.9	6454.6	4747.8	4088.4
67.5°	485.4	483.9	500.4	582.1	654.3	1098.3	3797.5	6276.6	6363.4	4819.2	3942.2
70°	376.2	374.4	394.6	488.3	602.6	732.7	2524.1	5389.3	5529.2	4673.1	3488.0
72.5°	250.6	252.0	286.5	385.4	575.2	645.1	1518.5	4099.7	4297.6	3859.1	2743.9
75°	146.2	148.7	187.9	286.5	499.3	615.1	859.4	2923.4	3049.8	2664.8	1709.4
77.5°	76.6	77.7	105.1	189.0	382.8	571.1	572.6	1867.6	1927.0	1295.0	676.6
80°	40.7	39.6	56.4	113.9	263.4	501.5	464.5	988.8	1028.0	384.7	171.1
82.5°	15.4	16.9	30.0	74.7	155.7	360.1	400.0	437.0	423.5	84.6	71.8
85°	2.9	3.7	12.8	44.3	78.4	150.6	294.9	214.3	198.6	31.9	41.4
87.5°	0.4	0.7	3.7	10.6	11.4	50.9	87.2	59.3	51.3	11.7	17.2
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°	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2	1286.2
2.5°	1287.0	1277.1	1244.1	1211.5	1178.2	1148.1	1127.6	1094.3	1085.8	1073.8	1066.8
5°	1284.4	1261.3	1197.9	1128.7	1064.2	994.6	941.5	890.2	862.7	848.8	843.7
7.5°	1277.1	1240.4	1141.5	1033.1	929.8	825.7	735.3	666.4	622.1	591.6	571.1
10°	1262.4	1211.9	1075.9	926.8	770.8	633.4	518.7	431.6	364.1	342.9	343.6
12.5°	1247.4	1180.0	1002.7	808.9	615.5	442.2	320.6	251.7	219.4	208.8	206.6
15°	1233.5	1149.6	930.9	694.6	458.3	286.5	206.6	182.4	173.6	171.8	171.4
17.5°	1226.2	1121.4	854.3	563.8	319.8	194.5	165.6	159.0	156.4	154.6	153.9
20°	1219.9	1096.8	781.0	441.4	218.7	159.4	148.4	142.1	137.7	135.9	134.8
22.5°	1215.5	1071.6	705.2	341.8	167.4	141.4	131.5	123.5	117.2	115.0	113.6
25°	1208.9	1043.7	628.6	249.8	141.0	125.7	114.3	104.8	96.7	92.7	92.0
27.5°	1199.4	1012.2	544.8	185.0	126.0	111.7	97.8	86.1	78.0	73.6	74.0
30°	1184.0	979.2	460.9	146.9	113.9	97.4	82.4	71.1	63.4	60.1	59.7
32.5°	1165.7	939.3	383.9	126.0	102.9	84.6	68.9	59.0	53.1	50.6	50.2
35°	1148.5	899.0	305.5	113.2	91.6	72.9	57.9	49.5	45.1	42.9	43.2
37.5°	1139.0	863.1	238.1	102.9	82.4	62.6	49.8	42.5	38.5	36.6	36.3
40°	1145.2	833.8	189.4	93.8	72.2	53.9	42.9	36.6	32.6	30.0	30.0
42.5°	1174.5	821.0	152.8	85.0	62.6	46.5	37.4	31.5	27.1	24.5	24.9
45°	1263.9	834.5	127.9	76.9	53.9	40.3	32.2	26.0	22.0	20.1	19.8
47.5°	1412.3	885.5	110.6	68.5	46.2	34.4	27.1	21.6	17.6	16.1	15.8
50°	1671.6	990.6	97.8	60.1	39.2	29.3	22.3	17.2	13.9	12.5	12.5
52.5°	2028.4	1219.9	88.7	50.6	33.0	24.9	18.3	13.9	11.0	9.9	9.5
55°	2401.4	1461.7	83.9	42.5	27.5	20.5	14.7	11.0	8.4	7.3	7.0
57.5°	2760.0	1651.5	78.4	34.4	22.0	15.8	11.4	8.4	5.9	5.1	4.8
60°	3104.0	1805.0	66.7	27.5	17.2	11.4	8.4	5.9	4.0	3.3	3.3
62.5°	3411.8	1894.4	52.4	22.0	13.2	8.1	5.5	4.4	2.9	2.2	2.2
65°	3447.7	1778.2	39.6	16.9	9.5	5.1	3.3	3.3	2.2	1.5	1.5
66°	3375.5	1679.7	34.8	15.4	8.4	4.4	2.9	2.6	1.8	1.1	1.1
67.5°	3214.3	1511.5	30.0	13.2	7.0	3.3	2.2	2.2	1.5	0.7	0.7
70°	2777.2	1234.6	23.8	9.9	5.1	2.6	1.5	1.5	1.1	0.7	0.7
72.5°	2116.7	921.7	19.4	7.3	3.7	1.8	1.1	1.1	1.1	0.7	0.7
75°	1276.7	496.4	15.0	5.5	3.3	1.5	0.7	1.1	1.5	1.1	0.7
77.5°	470.4	168.9	11.7	4.4	2.6	1.5	0.7	0.7	1.5	1.1	1.1
80°	115.4	44.0	8.4	3.7	2.6	1.5	0.7	0.7	1.5	1.5	1.5
82.5°	53.5	18.7	5.9	3.3	2.6	1.5	0.7	0.7	1.1	1.5	1.5
85°	30.8	8.8	4.8	3.7	2.6	1.5	0.7	0.7	1.1	1.5	1.5
87.5°	12.5	4.4	4.4	3.7	2.9	1.8	0.7	0.7	0.7	1.1	1.1
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)