

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: P192829

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5904.4 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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: 25 FT

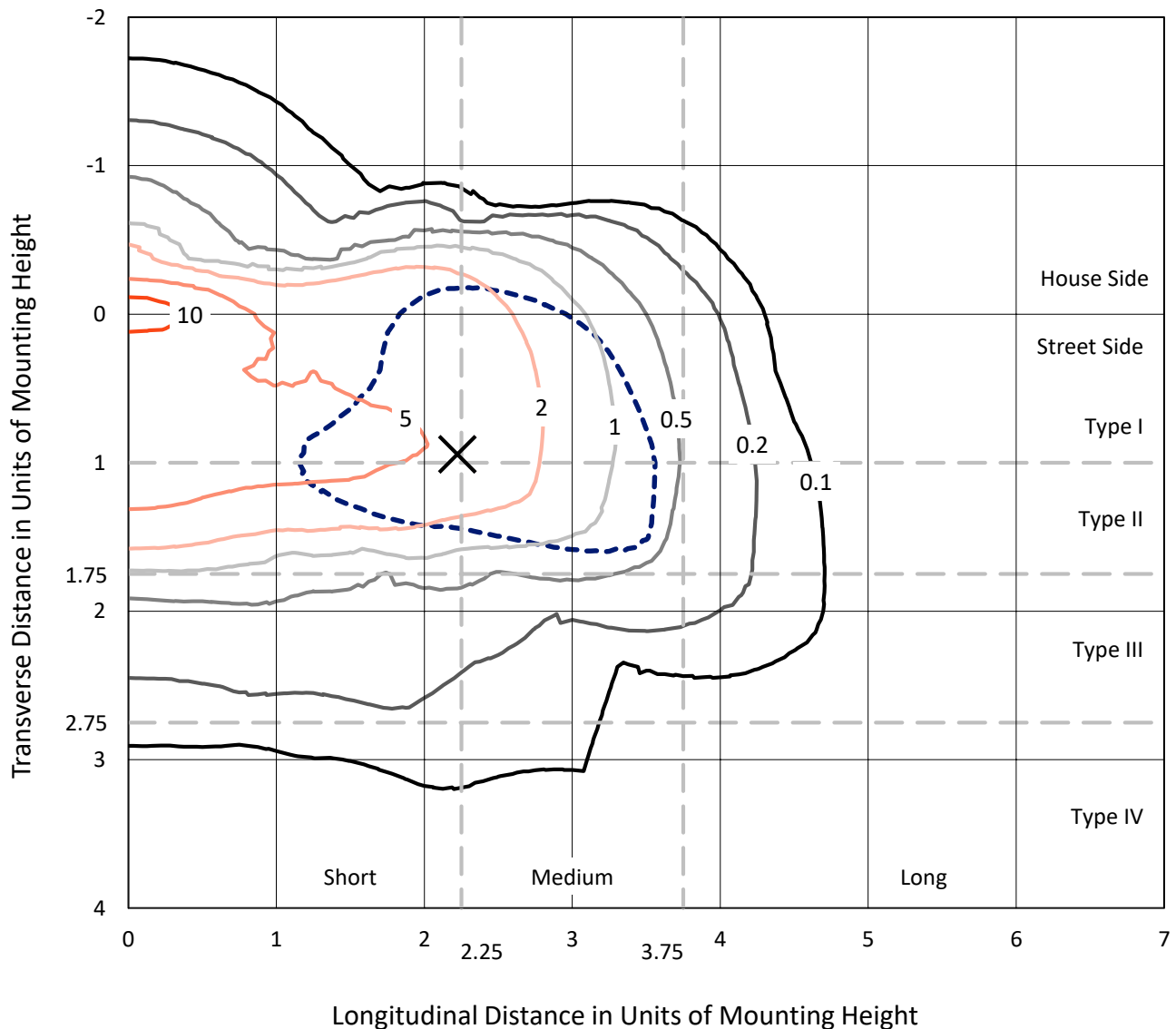


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

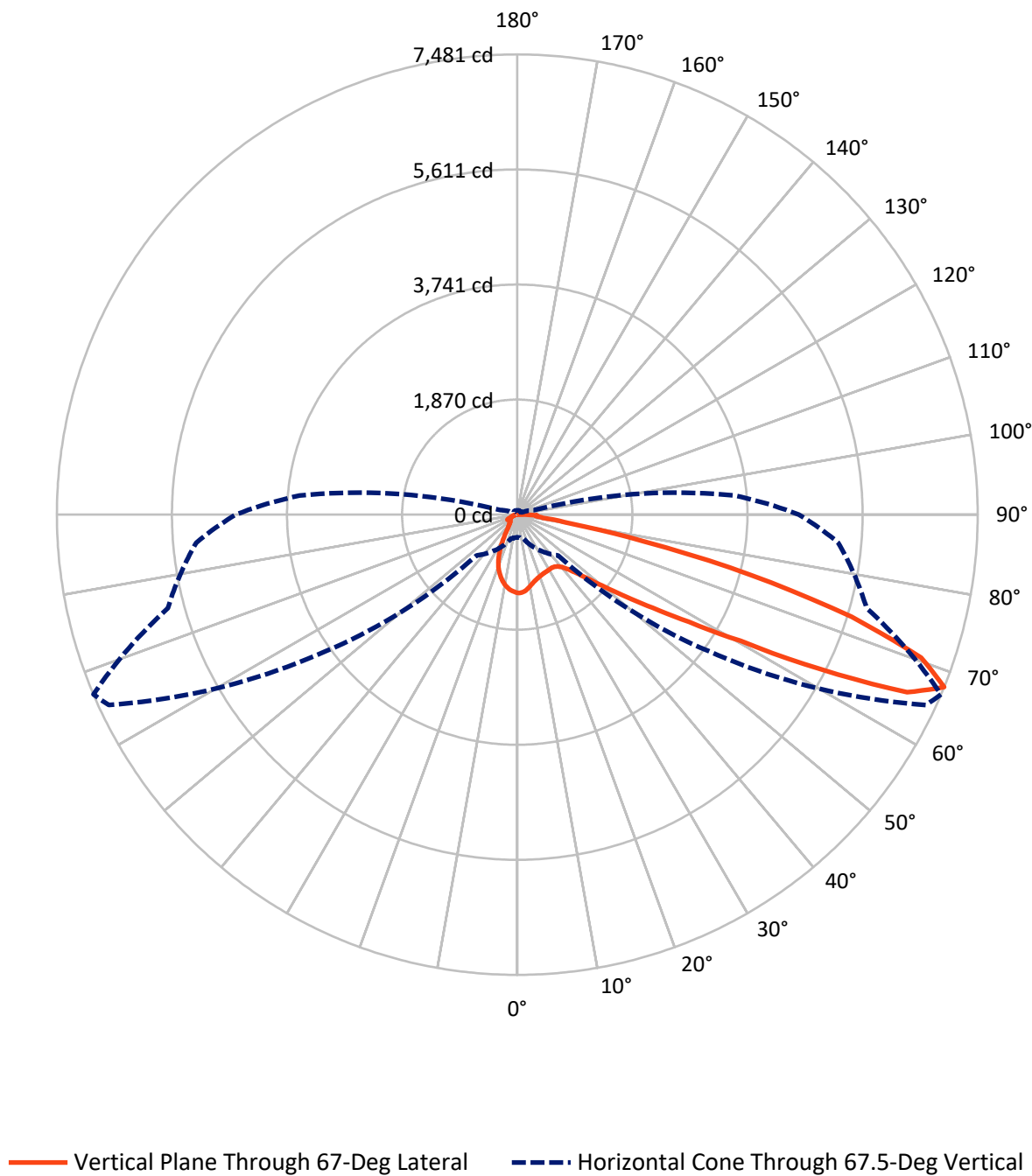


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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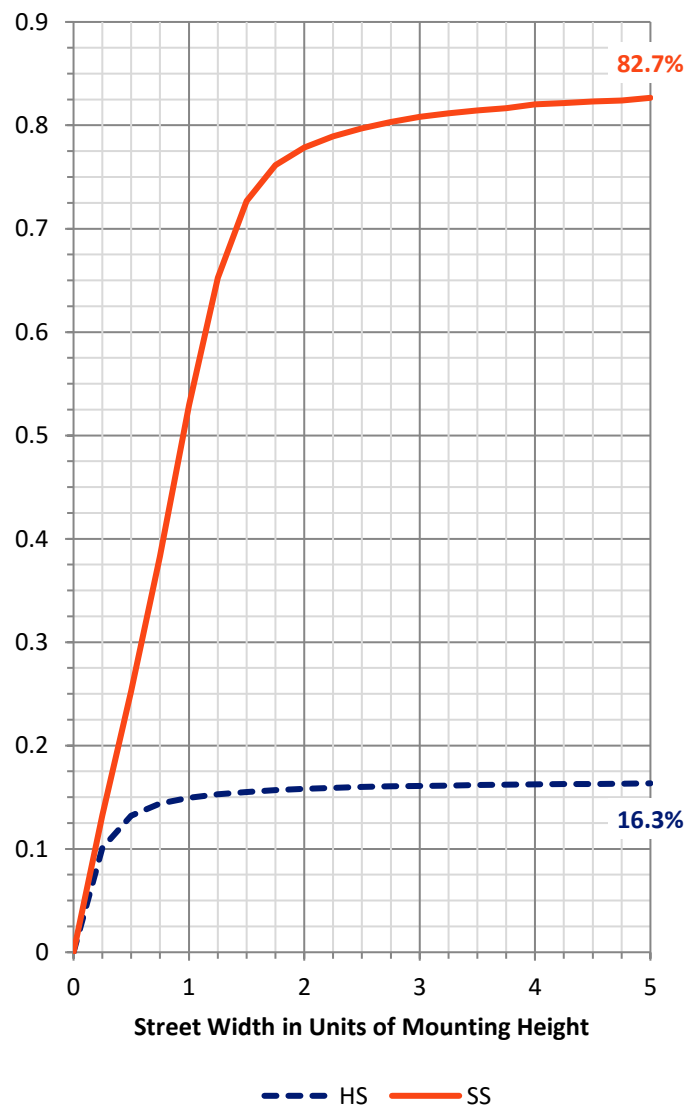
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.3	0.0	978.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4926.1	0.0	4926.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	5904.4	0.0	5904.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.8
10°-20°	251.4	4.3
20°-30°	340.8	5.8
30°-40°	484.5	8.2
40°-50°	810.5	13.7
50°-60°	1282.3	21.7
60°-70°	1633.5	27.7
70°-80°	855.6	14.5
80°-90°	137.2	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°	5904.4	100.0
0°-180°	5904.4	100.0

Coefficient of Utilization



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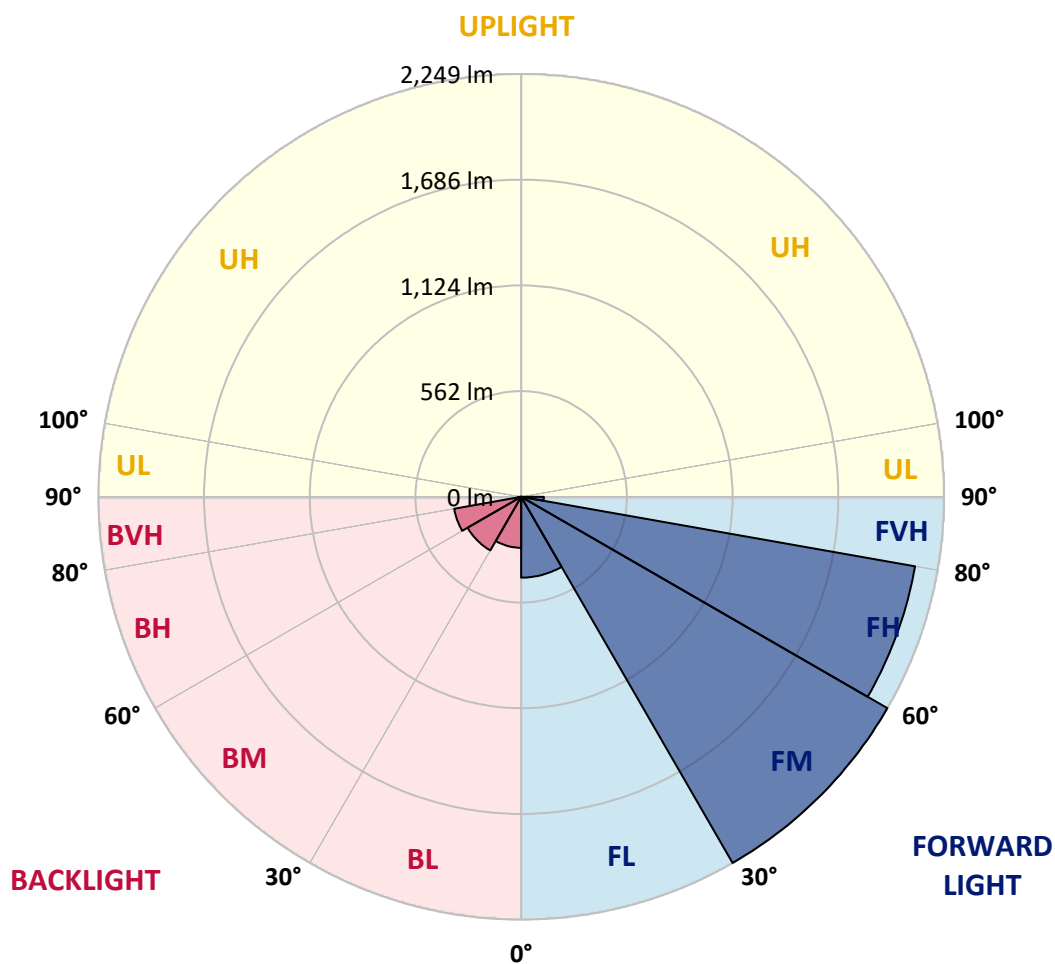
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.7	7.3			
FM	(30°-60°)	2248.5	38.1			
FH	(60°-80°)	2127.2	36.0			G2/5000
FVH	(80°-90°)	120.7	2.0			G2/225
BL	(0°-30°)	271.2	4.6	B1/500		
BM	(30°-60°)	328.7	5.6	B1/1000		
BH	(60°-80°)	361.8	6.1	B1/500		G1/500
BVH	(80°-90°)	16.6	0.3			G1/100
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°	65°	67°	75°	85°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1221.2	1223.1	1229.6	1233.6	1252.0	1259.9	1265.4	1270.9	1271.8	1274.4	1271.8
5°	1093.0	1097.4	1109.3	1122.7	1158.2	1186.2	1215.6	1246.2	1251.7	1271.6	1277.0
7.5°	993.7	992.6	1002.5	1018.6	1054.9	1093.5	1145.1	1206.0	1217.9	1262.5	1284.1
10°	921.3	920.4	930.9	947.5	982.1	1018.9	1077.0	1160.4	1177.2	1248.2	1290.8
12.5°	867.6	867.9	878.5	896.8	932.0	969.0	1028.1	1116.1	1137.6	1231.7	1297.7
15°	832.1	834.5	842.9	862.4	896.8	933.7	991.7	1082.9	1107.1	1218.6	1305.5
17.5°	820.2	824.1	826.9	841.2	870.6	907.6	964.3	1058.4	1084.0	1209.5	1312.5
20°	831.3	835.7	830.2	835.1	853.8	886.3	942.8	1039.2	1065.4	1199.3	1313.4
22.5°	878.8	882.9	866.5	852.2	851.1	870.9	925.0	1024.0	1051.1	1191.7	1313.8
25°	962.3	964.9	937.6	904.3	872.0	865.4	912.6	1013.6	1042.4	1185.0	1308.2
27.5°	1064.8	1066.8	1035.3	986.5	921.5	878.5	908.2	1007.5	1037.4	1179.2	1298.9
30°	1189.4	1199.0	1156.8	1095.1	1000.5	917.1	916.9	1004.2	1031.9	1169.3	1280.5
32.5°	1316.9	1321.1	1291.9	1229.2	1106.7	985.3	941.4	1006.6	1030.5	1157.4	1257.2
35°	1446.3	1451.5	1432.5	1382.1	1252.0	1085.2	989.2	1020.3	1039.5	1153.3	1240.9
37.5°	1613.6	1620.7	1594.4	1536.1	1428.8	1220.5	1068.5	1054.6	1067.1	1164.9	1236.0
40°	1878.2	1875.1	1798.5	1711.8	1622.1	1393.8	1182.1	1112.8	1120.1	1202.5	1251.1
42.5°	2186.4	2178.5	2046.7	1910.3	1834.7	1603.5	1332.4	1213.9	1212.4	1276.4	1304.4
45°	2432.1	2425.7	2306.9	2138.9	2078.3	1842.2	1526.6	1364.4	1353.6	1393.8	1402.9
47.5°	2565.2	2565.4	2497.0	2359.9	2358.5	2145.7	1776.1	1582.2	1563.6	1582.5	1572.9
50°	2518.5	2524.7	2517.5	2473.7	2614.1	2543.3	2101.9	1886.0	1848.3	1866.9	1830.0
52.5°	2293.3	2301.1	2344.1	2411.2	2721.5	3024.1	2580.6	2263.2	2219.6	2212.8	2171.8
55°	1893.8	1903.3	1991.2	2173.2	2632.2	3346.9	3335.9	2744.3	2674.6	2611.6	2594.1
57.5°	1305.3	1321.3	1462.8	1733.1	2342.9	3444.5	4235.3	3429.9	3288.3	3067.7	3071.9
60°	735.8	754.4	921.3	1166.7	1759.5	3338.5	4919.5	4468.4	4169.8	3602.1	3632.4
62.5°	467.9	488.0	614.7	810.6	1055.8	2767.9	5199.9	5912.4	5533.0	4260.7	4290.3
65°	378.8	387.6	447.2	669.1	766.7	1667.6	4987.0	7101.9	6960.4	5096.6	4957.9
67.5°	369.8	372.7	403.6	561.7	735.2	937.2	3977.9	7324.3	7481.2	5877.2	5236.0
70°	365.4	375.7	454.8	536.0	704.0	790.5	2390.5	6714.5	6962.3	6081.3	4866.0
72.5°	177.3	176.8	228.9	484.8	793.1	819.9	1228.2	5432.8	5681.5	5268.6	3998.6
75°	142.9	130.8	124.9	177.6	762.5	846.8	782.7	3738.3	3918.2	3532.5	2458.0
77.5°	135.7	121.2	110.9	111.2	322.4	898.0	662.9	2069.1	2121.4	1595.6	673.5
80°	112.4	99.0	91.7	103.4	156.0	855.2	716.8	936.4	859.3	391.9	224.2
82.5°	78.0	71.0	69.1	86.8	124.9	609.4	833.6	503.1	421.8	196.2	138.3
85°	49.8	42.5	47.2	63.2	97.2	281.3	858.7	392.2	311.8	124.7	78.0
87.5°	23.1	18.7	23.3	35.0	63.5	96.9	817.0	440.6	321.1	65.8	49.1
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°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1274.2	1268.6	1264.2	1256.1	1247.0	1238.4	1230.5	1220.5	1217.7	1215.1	1219.2
5°	1278.3	1272.7	1256.7	1231.7	1203.9	1178.1	1152.1	1130.0	1116.3	1108.8	1113.2
7.5°	1284.4	1276.4	1243.3	1197.3	1147.4	1102.1	1055.2	1017.6	990.0	976.9	980.6
10°	1290.0	1274.7	1220.5	1151.6	1078.7	1011.2	937.2	876.1	830.7	806.8	812.7
12.5°	1292.2	1268.1	1188.8	1094.4	994.6	895.6	786.7	695.3	630.1	606.2	601.3
15°	1294.5	1260.5	1153.9	1029.6	892.9	752.9	600.4	490.9	436.7	424.8	422.2
17.5°	1295.0	1247.3	1114.3	959.1	773.9	583.2	410.6	341.0	341.2	360.4	362.7
20°	1289.0	1227.8	1066.3	871.5	631.3	403.2	281.9	269.9	313.9	361.8	367.7
22.5°	1275.0	1202.0	1011.8	769.3	467.9	265.5	218.1	231.2	288.0	346.8	353.5
25°	1257.2	1170.5	947.5	650.7	309.8	189.9	182.9	198.9	237.3	276.7	280.4
27.5°	1233.1	1133.2	875.2	515.0	201.1	156.3	161.0	171.7	187.5	205.0	206.7
30°	1202.0	1088.7	798.1	375.7	152.0	140.6	147.3	153.2	159.8	169.8	170.7
32.5°	1166.2	1045.8	718.9	259.4	134.8	132.5	137.7	140.6	145.9	152.0	152.5
35°	1136.1	1005.0	636.8	183.4	127.5	126.4	129.9	131.0	136.0	142.7	143.2
37.5°	1119.0	971.9	552.1	147.9	122.6	120.8	122.9	122.9	129.9	139.8	141.2
40°	1120.1	953.7	467.3	133.7	118.5	116.2	116.5	116.5	125.5	136.2	137.1
42.5°	1151.8	958.2	392.2	128.2	115.3	112.6	111.2	112.1	119.6	126.6	127.3
45°	1226.4	991.1	321.8	124.7	112.1	111.2	108.0	107.7	110.7	113.8	113.8
47.5°	1348.7	1056.1	274.0	122.3	109.5	109.2	105.4	101.6	101.3	102.4	102.4
50°	1547.5	1167.9	242.0	119.6	107.7	105.4	101.1	95.2	93.2	94.1	94.1
52.5°	1845.7	1367.3	229.8	116.2	103.9	100.2	95.2	89.4	87.6	88.0	88.0
55°	2236.7	1673.7	228.1	112.1	99.9	93.8	89.7	85.3	83.2	83.8	83.8
57.5°	2714.5	2097.2	259.2	105.7	94.3	87.3	85.0	82.2	80.7	81.5	81.3
60°	3295.4	2651.6	384.4	99.0	88.8	81.5	81.5	79.2	78.0	78.8	78.6
62.5°	3964.5	3288.3	540.4	94.1	82.9	76.9	78.0	76.9	75.7	76.3	76.1
65°	4557.9	3703.4	506.1	90.2	77.1	72.5	74.6	74.0	73.1	73.6	73.4
67.5°	4575.1	3549.7	284.2	86.2	71.7	68.2	71.0	70.8	70.2	70.8	70.5
70°	4083.0	2997.3	160.2	78.6	65.8	63.0	66.9	66.6	66.1	67.3	66.9
72.5°	3271.2	2175.1	117.0	69.3	60.0	57.4	62.1	61.7	61.7	63.5	62.6
75°	1882.4	1119.3	93.4	59.4	53.9	51.8	55.9	56.2	56.9	59.1	57.4
77.5°	536.6	348.9	76.3	50.4	46.3	45.5	49.5	50.0	50.4	53.0	50.7
80°	199.4	160.7	63.0	42.2	37.8	38.1	41.9	42.8	43.0	45.7	42.8
82.5°	127.3	106.0	51.0	32.6	29.7	29.4	34.1	35.2	35.2	35.5	33.8
85°	74.3	63.5	38.5	23.6	21.0	20.1	25.3	27.5	26.6	25.9	24.8
87.5°	49.8	43.7	23.6	13.1	11.4	10.8	14.9	16.3	15.8	14.9	13.9
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)