

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: P193090

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7615.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

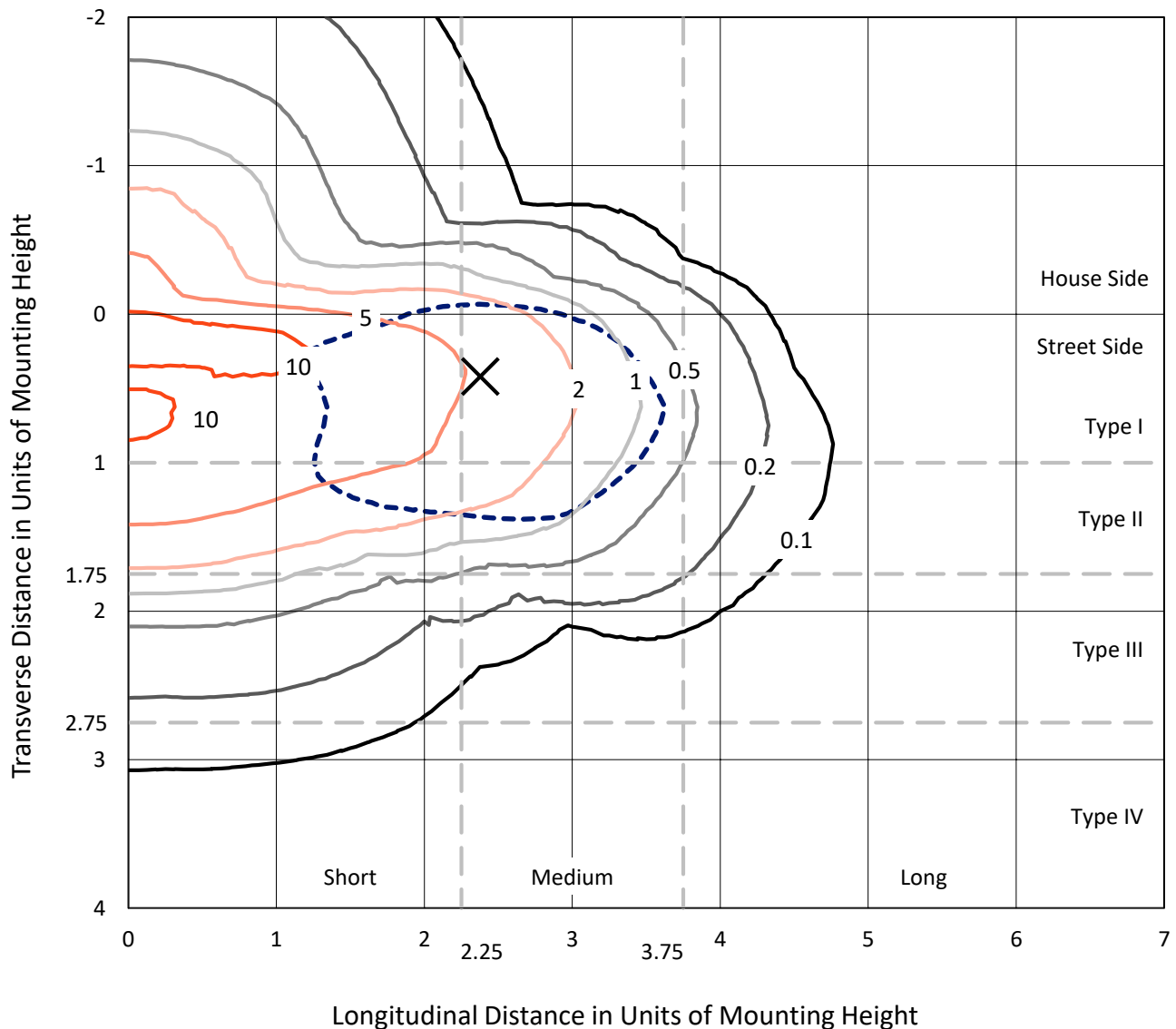


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

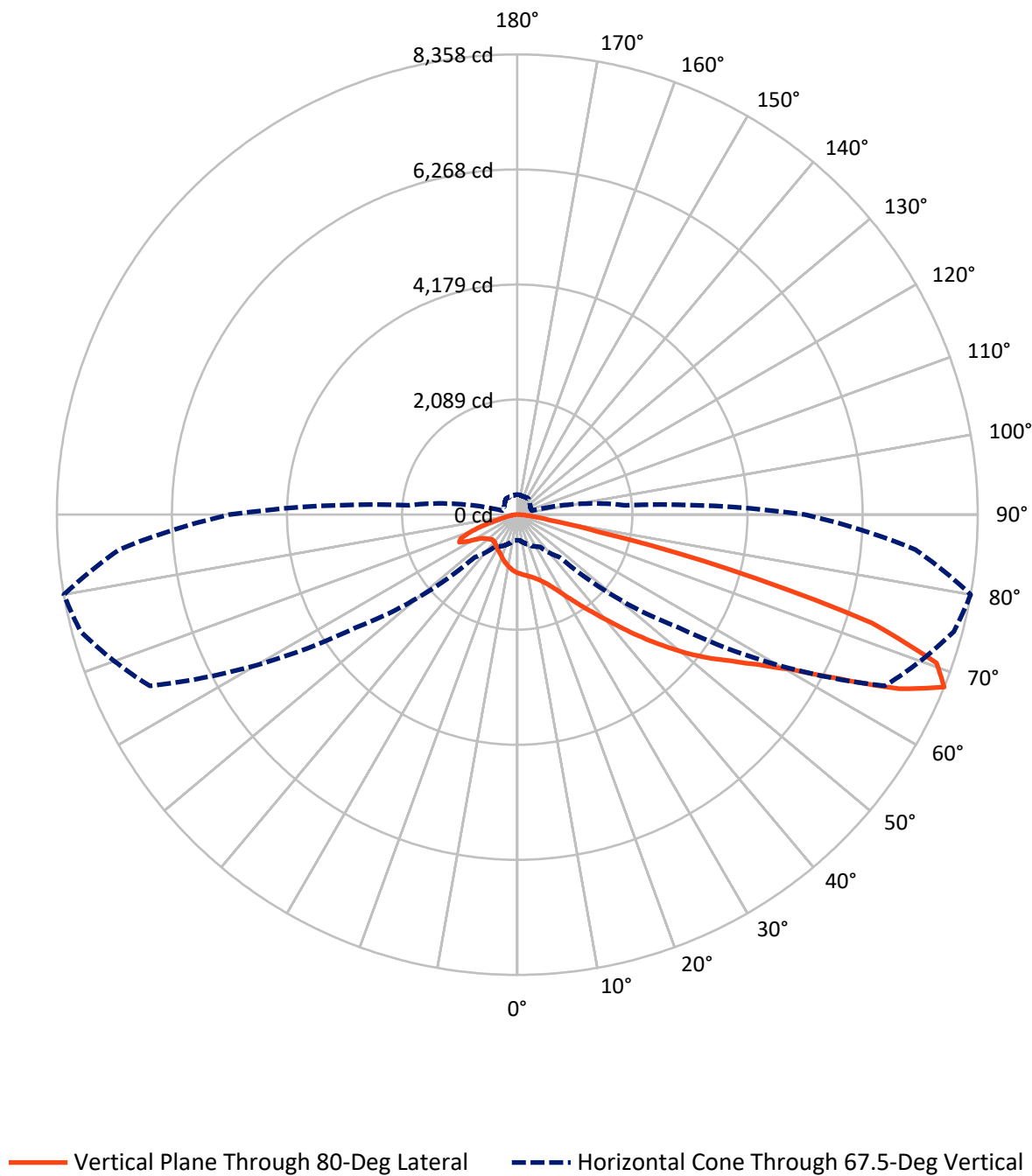


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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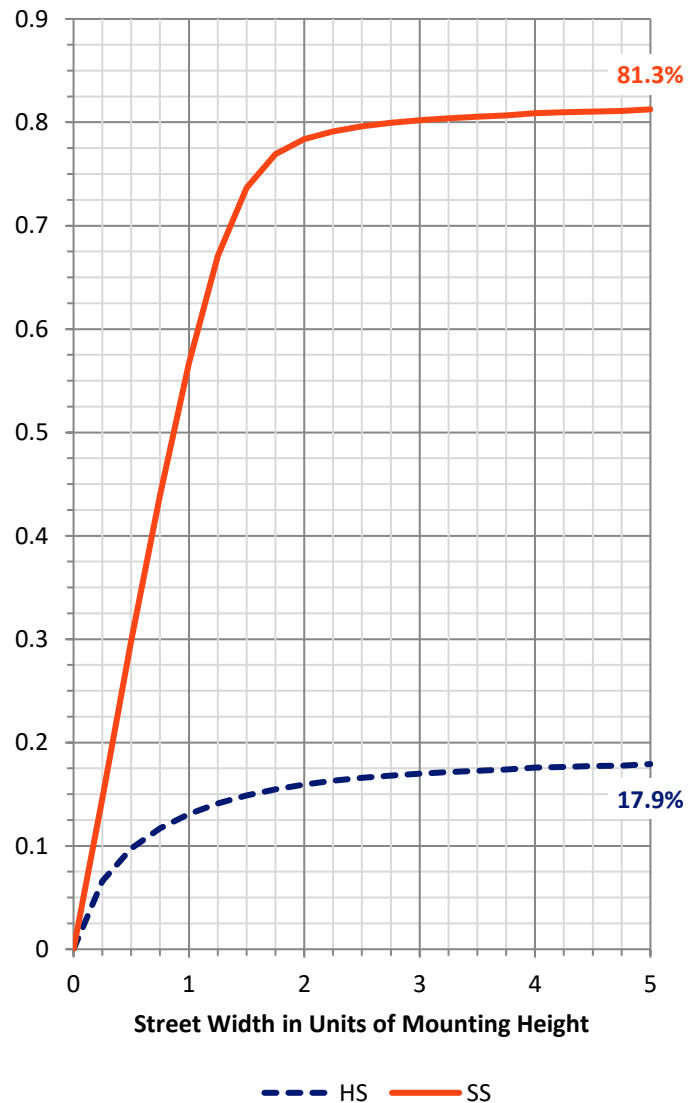
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.5	0.0	1402.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6212.9	0.0	6212.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	7615.4	0.0	7615.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.3
10°-20°	281.1	3.7
20°-30°	465.4	6.1
30°-40°	761.2	10.0
40°-50°	1229.0	16.1
50°-60°	1774.4	23.3
60°-70°	1958.1	25.7
70°-80°	902.6	11.9
80°-90°	146.0	1.9
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°	7615.4	100.0
0°-180°	7615.4	100.0

Coefficient of Utilization



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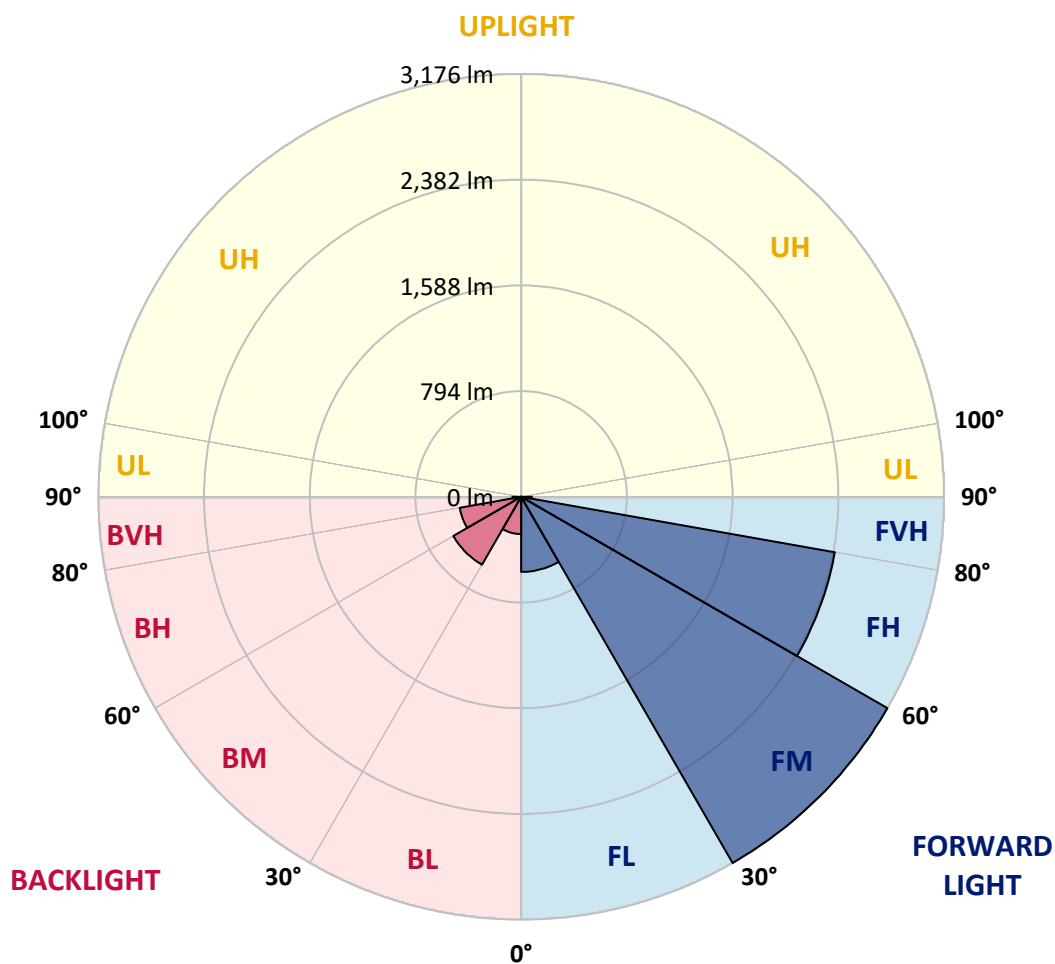
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.3	7.4			
FM	(30°-60°)	3176.2	41.7			
FH	(60°-80°)	2392.2	31.4			G2/5000
FVH	(80°-90°)	80.3	1.1			G1/100
BL	(0°-30°)	279.8	3.7	B1/500		
BM	(30°-60°)	588.4	7.7	B1/1000		
BH	(60°-80°)	468.5	6.2	B1/500		G1/500
BVH	(80°-90°)	65.7	0.9			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9
2.5°	1157.4	1150.6	1151.7	1149.9	1144.3	1134.4	1124.0	1104.8	1085.0	1074.4	1066.3
5°	1254.1	1252.2	1249.6	1243.6	1229.2	1209.1	1184.0	1150.2	1113.9	1094.8	1076.3
7.5°	1326.4	1325.4	1321.9	1318.2	1304.3	1280.0	1242.1	1194.1	1141.2	1115.0	1086.5
10°	1332.4	1334.3	1336.9	1347.0	1349.0	1335.8	1297.2	1239.1	1169.7	1136.0	1099.5
12.5°	1281.4	1285.6	1295.7	1321.6	1349.0	1365.0	1345.2	1286.3	1203.1	1162.2	1116.1
15°	1214.0	1216.2	1228.6	1264.2	1313.3	1363.2	1381.9	1338.4	1246.2	1196.0	1140.8
17.5°	1185.1	1186.2	1194.9	1218.5	1264.2	1335.4	1402.6	1395.0	1299.1	1237.9	1171.3
20°	1170.5	1173.1	1185.5	1208.7	1237.6	1299.8	1405.5	1456.1	1362.0	1290.5	1209.5
22.5°	1212.1	1210.9	1215.5	1227.1	1251.4	1288.9	1403.3	1519.1	1442.3	1357.9	1259.3
25°	1309.2	1313.3	1305.4	1292.3	1300.1	1326.4	1415.2	1587.3	1542.7	1444.5	1324.5
27.5°	1447.5	1443.5	1431.8	1401.0	1385.0	1396.2	1455.0	1660.8	1667.7	1558.5	1410.7
30°	1585.5	1582.1	1570.8	1533.4	1500.3	1491.1	1532.3	1745.2	1816.4	1695.3	1516.5
32.5°	1728.7	1724.9	1714.5	1677.0	1637.2	1615.5	1642.0	1842.6	1991.9	1858.8	1641.0
35°	1905.3	1898.2	1876.1	1824.0	1785.0	1768.1	1780.5	1965.2	2194.4	2052.2	1792.1
37.5°	2071.3	2082.3	2059.7	1987.8	1937.1	1931.1	1945.1	2114.8	2412.6	2268.5	1965.7
40°	2238.1	2240.2	2219.8	2160.9	2108.9	2099.1	2134.0	2296.3	2670.1	2527.2	2176.8
42.5°	2410.7	2414.4	2380.3	2325.9	2287.7	2289.5	2329.3	2508.9	2965.6	2832.1	2419.6
45°	2615.0	2620.6	2583.1	2511.9	2477.0	2547.2	2530.7	2747.4	3289.5	3178.5	2698.6
47.5°	2828.7	2837.4	2808.8	2742.1	2698.6	2795.0	2731.9	3011.6	3638.2	3550.1	3004.9
50°	2945.3	2957.6	2985.4	2980.5	2971.2	2955.0	2956.5	3295.0	3997.7	3936.9	3319.9
52.5°	2882.7	2882.3	2983.6	3106.5	3237.7	3247.5	3230.2	3593.9	4333.6	4315.2	3616.4
55°	2596.2	2615.7	2769.0	3007.2	3365.6	3589.3	3640.4	3936.2	4663.5	4684.9	3917.5
57.5°	2119.4	2135.5	2342.4	2674.2	3193.1	3792.6	4223.8	4433.7	5032.4	5132.1	4318.3
60°	1437.5	1456.9	1676.2	2074.8	2729.0	3679.5	4779.0	5321.5	5474.1	5700.9	4880.6
62.5°	844.7	862.3	1041.1	1308.8	1921.5	3153.3	5022.6	6584.5	6175.6	6559.1	5738.4
65°	581.5	593.5	680.4	814.6	1104.1	2123.9	4720.5	7456.6	7255.0	7622.3	6733.0
67.5°	467.8	466.4	535.4	626.8	710.8	1095.1	3569.5	7357.9	8204.2	8357.5	7249.3
70°	385.3	383.9	430.8	506.5	568.0	616.8	1944.3	6209.3	8010.7	8072.9	6773.8
72.5°	322.5	324.0	353.9	410.2	466.0	464.5	854.4	4368.0	6301.8	6732.2	5399.8
75°	272.2	272.9	292.9	332.5	378.2	374.2	463.4	2366.4	3663.3	3962.9	2993.2
77.5°	231.7	232.4	245.2	267.3	299.9	298.4	338.1	1022.3	1528.1	1509.4	1023.9
80°	206.6	206.6	212.6	216.7	234.7	228.0	250.9	491.1	645.9	596.4	408.6
82.5°	161.9	162.7	199.4	198.0	184.8	176.2	176.2	289.4	342.3	316.5	239.2
85°	91.1	90.6	128.6	155.2	162.7	124.1	122.9	161.9	186.3	164.2	115.9
87.5°	39.0	39.8	59.6	69.0	92.3	77.2	76.2	83.6	94.8	82.1	53.6
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°	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9
2.5°	1058.4	1048.7	1027.2	1000.6	976.7	960.9	946.6	926.1	927.2	912.9	902.4
5°	1057.6	1037.4	987.9	929.0	872.4	831.6	800.8	773.1	766.4	753.3	745.3
7.5°	1058.4	1025.4	942.2	848.1	777.9	726.2	700.0	685.4	682.0	677.5	677.9
10°	1061.0	1014.5	891.9	772.4	698.8	664.8	658.4	662.8	668.1	669.5	670.0
12.5°	1067.0	1004.7	836.8	704.8	649.3	638.8	649.8	665.1	675.2	680.1	679.7
15°	1080.5	997.2	783.9	651.9	622.0	627.5	647.8	669.5	684.2	690.9	691.3
17.5°	1095.1	986.4	729.6	611.6	601.7	616.0	641.2	666.6	684.6	692.0	693.6
20°	1114.2	972.9	672.6	581.1	582.6	598.7	622.3	647.8	667.7	674.1	677.1
22.5°	1139.3	958.3	622.8	556.3	560.8	573.3	591.6	613.7	631.0	633.9	636.6
25°	1173.1	942.5	583.0	533.8	535.7	542.9	555.2	568.3	580.3	577.0	579.6
27.5°	1218.5	929.0	553.4	513.3	509.9	511.4	517.8	521.8	528.3	518.9	520.0
30°	1271.7	914.4	530.5	495.3	485.8	483.3	484.8	487.0	491.8	479.1	477.3
32.5°	1333.5	896.8	509.1	479.5	466.4	461.2	461.8	467.8	486.6	478.8	474.6
35°	1405.5	877.0	486.6	462.2	453.3	445.8	445.0	463.8	519.6	514.7	511.0
37.5°	1489.9	857.0	464.2	442.7	443.5	435.3	432.6	454.0	526.0	506.9	504.2
40°	1597.2	846.5	445.0	422.2	431.6	430.4	425.1	436.1	484.0	449.2	444.6
42.5°	1729.8	848.1	430.8	400.0	417.3	429.3	420.9	421.4	438.6	412.5	408.3
45°	1893.7	865.7	420.6	382.4	401.2	428.2	419.5	413.5	415.0	401.2	398.9
47.5°	2084.8	902.1	413.5	367.7	385.8	424.0	419.1	411.3	407.9	400.4	398.6
50°	2297.5	954.9	408.3	353.9	371.9	417.3	419.5	409.0	405.3	402.3	401.2
52.5°	2506.3	1015.2	400.4	341.9	361.0	409.0	420.6	406.8	402.6	400.4	399.3
55°	2739.1	1090.6	388.4	331.8	352.1	398.6	420.6	403.3	398.9	399.3	398.9
57.5°	3053.7	1212.4	374.2	323.2	341.2	385.8	413.5	399.7	394.0	394.4	394.8
60°	3545.1	1427.3	356.9	314.5	327.7	370.8	403.8	391.3	385.8	387.4	387.7
62.5°	4268.0	1742.5	334.5	301.8	313.5	354.6	390.3	380.9	375.3	379.0	379.0
65°	5019.3	2020.7	306.7	285.7	298.4	337.1	373.4	367.7	362.2	370.8	370.4
67.5°	5221.4	1958.6	278.9	268.0	283.4	317.5	353.1	350.1	347.1	362.2	361.4
70°	4638.4	1572.4	253.5	250.1	266.9	296.5	331.4	331.4	329.5	340.8	338.1
72.5°	3533.9	1115.0	229.1	231.0	248.2	273.7	307.8	310.4	307.4	313.0	310.9
75°	1891.9	638.1	204.8	210.0	225.0	250.4	281.6	284.2	282.3	281.9	283.1
77.5°	628.7	311.9	179.1	187.5	200.6	226.5	254.1	258.3	253.8	253.1	252.7
80°	280.0	196.1	151.1	161.9	173.6	199.1	225.3	228.7	223.9	230.5	221.9
82.5°	180.0	128.9	121.1	133.1	144.3	171.7	196.4	197.2	192.8	223.9	190.8
85°	87.4	79.9	91.1	101.9	111.8	134.9	162.7	163.2	151.9	138.3	133.6
87.5°	43.4	46.4	60.7	70.5	75.4	92.7	118.4	116.3	111.3	101.2	93.3
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)