

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: P192919

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6612.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

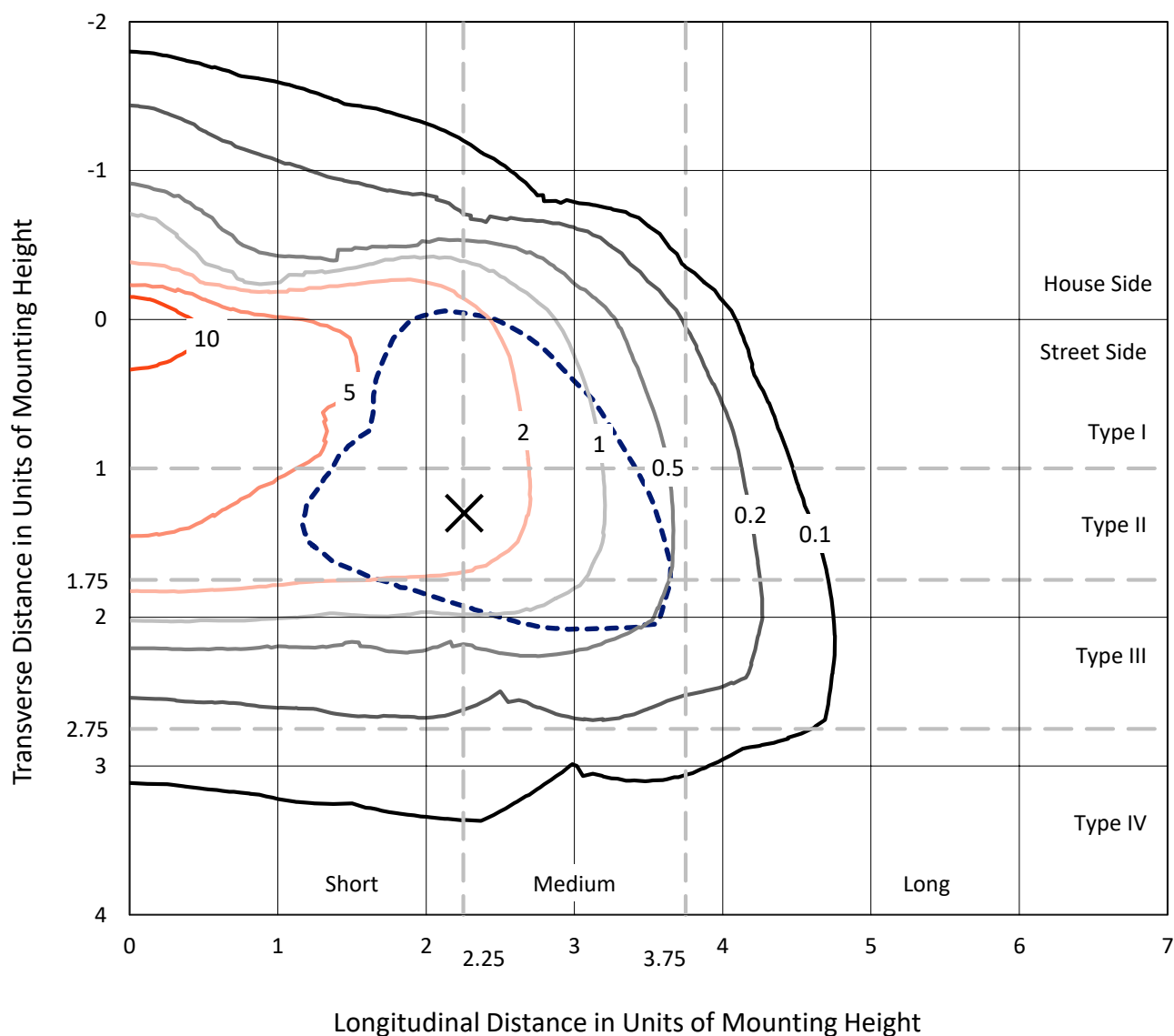


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

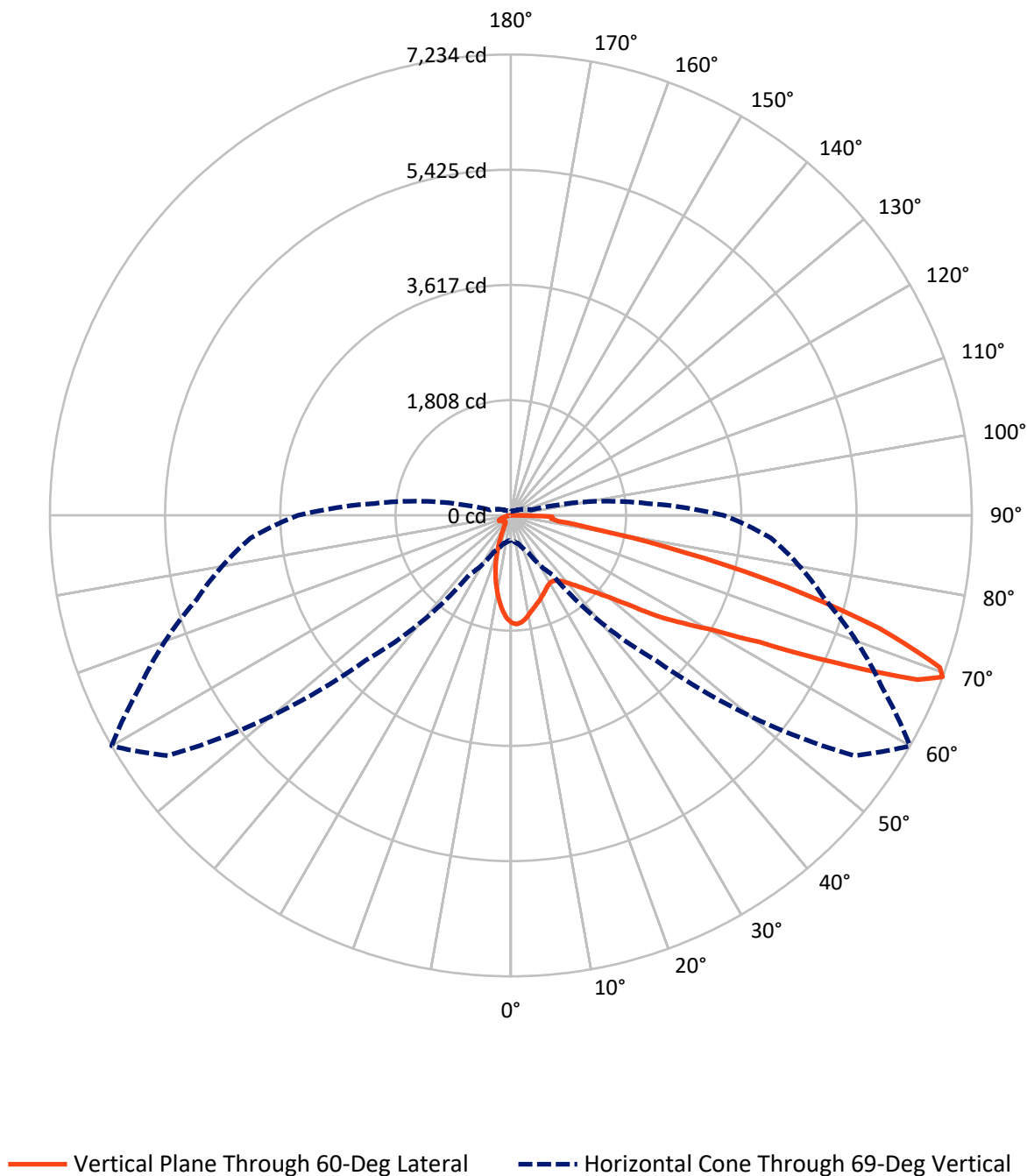


Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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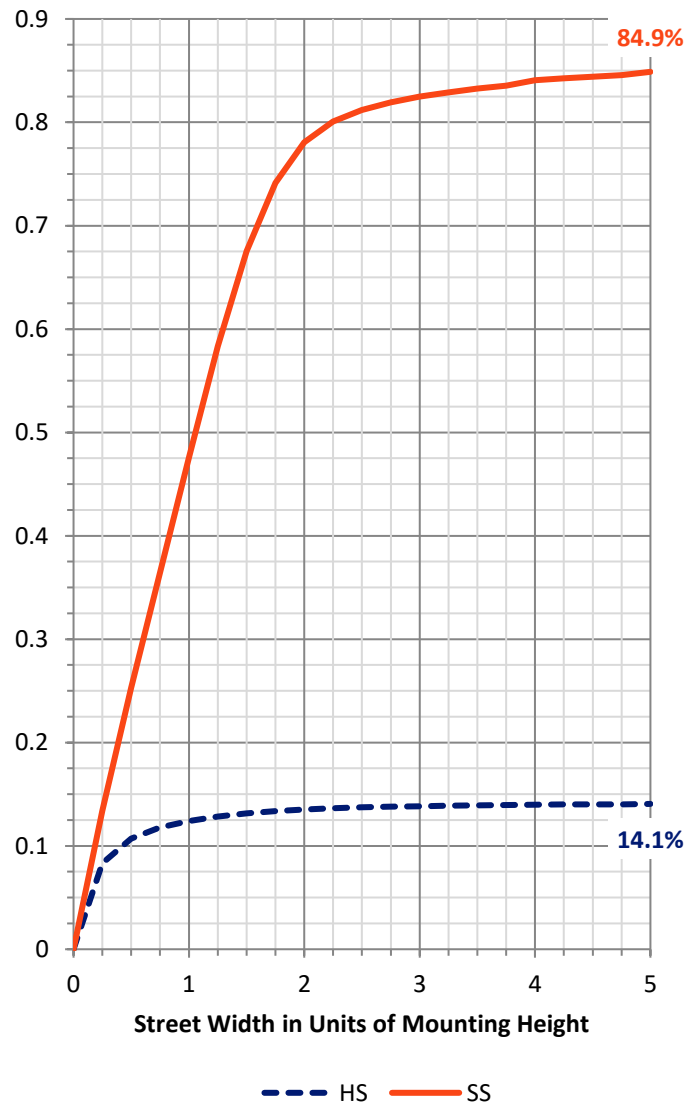
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.7	0.0	940.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5671.6	0.0	5671.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	6612.4	0.0	6612.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.2
10°-20°	303.5	4.6
20°-30°	386.8	5.8
30°-40°	531.7	8.0
40°-50°	862.7	13.0
50°-60°	1383.6	20.9
60°-70°	1841.5	27.8
70°-80°	994.2	15.0
80°-90°	165.9	2.5
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°	6612.4	100.0
0°-180°	6612.4	100.0

Coefficient of Utilization



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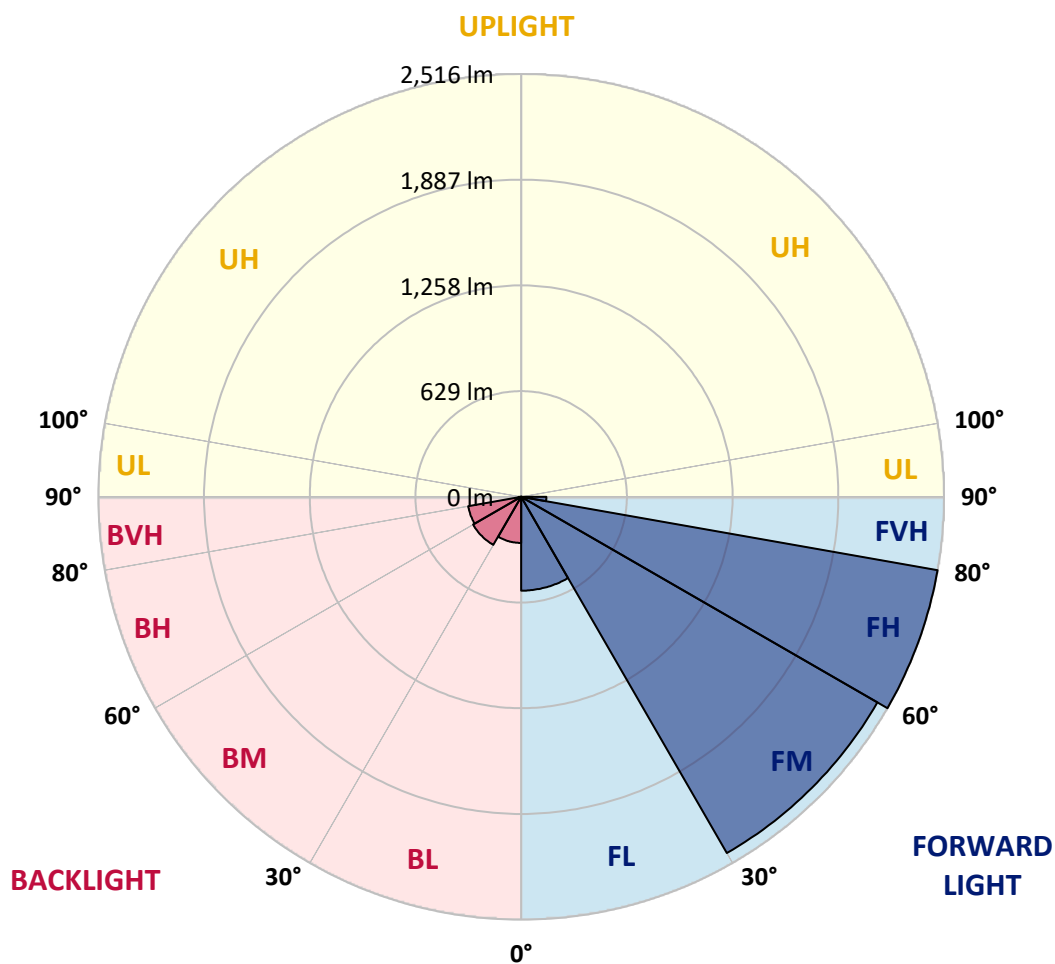
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	558.3	8.4			
FM	(30°-60°)	2447.5	37.0			
FH	(60°-80°)	2515.9	38.0			G2/5000
FVH	(80°-90°)	149.9	2.3			G2/225
BL	(0°-30°)	274.4	4.2	B1/500		
BM	(30°-60°)	330.5	5.0	B1/1000		
BH	(60°-80°)	319.8	4.8	B1/500		G1/500
BVH	(80°-90°)	16.0	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
2.5°	1719.4	1723.2	1721.7	1720.8	1723.6	1719.0	1709.8	1706.9	1702.5	1692.0	1674.1
5°	1655.0	1666.4	1665.7	1674.4	1688.7	1692.7	1688.5	1689.0	1680.7	1667.8	1638.1
7.5°	1543.4	1548.2	1550.8	1569.6	1595.8	1616.9	1634.7	1640.5	1636.7	1625.6	1587.2
10°	1428.4	1432.3	1438.3	1460.4	1493.6	1522.6	1556.5	1576.1	1584.4	1582.4	1539.6
12.5°	1329.6	1333.6	1341.6	1366.5	1406.0	1441.9	1491.1	1515.3	1535.1	1546.9	1500.9
15°	1241.3	1249.6	1257.2	1286.0	1330.3	1377.3	1432.9	1463.5	1494.2	1520.8	1466.8
17.5°	1172.3	1180.5	1185.0	1211.2	1258.5	1316.0	1381.1	1417.3	1455.6	1499.0	1432.9
20°	1132.4	1136.2	1134.2	1149.0	1191.5	1252.4	1329.6	1371.5	1417.8	1478.6	1399.1
22.5°	1121.1	1121.4	1114.5	1112.8	1140.3	1191.8	1274.8	1325.6	1382.4	1465.1	1370.0
25°	1148.4	1147.3	1128.2	1112.6	1115.4	1145.5	1221.7	1280.8	1352.7	1462.3	1347.6
27.5°	1208.6	1211.5	1183.2	1153.8	1124.8	1123.7	1181.5	1243.8	1328.5	1475.4	1338.1
30°	1293.3	1298.1	1267.7	1230.4	1175.7	1130.8	1165.9	1221.7	1313.4	1502.6	1336.5
32.5°	1386.0	1391.1	1368.0	1328.8	1257.2	1174.2	1176.7	1223.7	1312.9	1540.5	1347.2
35°	1484.7	1490.4	1478.6	1445.4	1365.8	1254.4	1218.2	1254.7	1333.6	1598.7	1376.3
37.5°	1594.8	1603.8	1606.9	1575.4	1490.4	1360.1	1286.3	1313.4	1380.5	1679.6	1429.7
40°	1753.6	1766.0	1765.1	1719.7	1633.2	1502.9	1391.4	1398.4	1453.7	1787.5	1515.0
42.5°	2057.7	2060.3	1980.8	1882.0	1790.3	1653.0	1515.3	1509.5	1554.6	1924.2	1640.5
45°	2444.4	2434.0	2257.0	2066.3	1954.5	1825.5	1676.6	1648.5	1682.7	2090.9	1797.7
47.5°	2765.6	2741.2	2517.7	2254.4	2128.3	2013.0	1866.0	1816.9	1835.7	2280.0	2000.9
50°	2877.1	2858.8	2673.6	2411.1	2292.8	2241.7	2099.2	2029.6	2034.7	2505.6	2238.8
52.5°	2853.1	2850.5	2726.9	2514.2	2446.8	2482.0	2429.5	2335.3	2285.4	2755.9	2495.6
55°	2796.5	2802.0	2757.2	2634.2	2622.8	2713.8	2861.1	2791.3	2636.4	3008.6	2761.1
57.5°	2600.1	2614.1	2712.5	2785.3	2906.1	3041.4	3208.5	3188.7	3014.4	3281.7	3076.6
60°	2094.7	2127.3	2391.1	2755.9	3197.7	3621.3	3696.0	3650.1	3404.1	3620.7	3493.4
62.5°	1467.7	1501.5	1815.3	2386.0	3149.8	4276.1	4567.4	4369.1	3963.7	4119.8	4033.0
65°	785.8	802.1	1041.7	1655.5	2659.2	4411.2	5840.9	5539.0	4849.7	4735.4	4494.5
67.5°	433.4	442.4	534.1	836.0	1703.2	3884.5	6652.2	6880.3	5957.2	5145.2	4410.6
69°	391.9	400.2	460.3	633.0	1139.7	3211.7	6573.0	7233.8	6442.7	5104.6	4100.1
70°	383.3	390.9	444.9	583.6	922.4	2647.4	6307.5	7143.5	6558.3	4959.3	3829.2
72.5°	344.9	353.2	405.7	524.1	788.3	1319.9	4996.3	6039.9	5954.3	4300.0	2904.4
75°	321.7	329.3	418.1	513.3	754.8	835.3	3293.8	4451.4	4377.0	3008.0	1566.1
77.5°	137.6	137.0	193.9	434.5	766.0	808.7	1769.9	2780.8	2537.1	1285.7	449.7
80°	92.0	90.3	92.0	127.8	702.4	813.2	927.3	1411.5	1066.3	327.8	221.7
82.5°	79.2	77.9	80.9	77.9	246.9	928.2	788.3	750.6	507.0	186.2	110.0
85°	53.3	51.2	69.6	69.9	116.6	824.7	888.0	634.0	410.2	110.6	54.3
87.5°	25.5	24.9	40.5	49.5	68.4	335.1	996.2	649.6	413.6	56.5	25.9
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°	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9	1684.9
2.5°	1668.6	1655.5	1642.8	1627.4	1611.5	1593.5	1584.6	1575.7	1573.5	1570.9	1562.0
5°	1622.6	1604.2	1572.1	1537.1	1500.0	1463.8	1436.4	1419.2	1406.0	1399.4	1387.6
7.5°	1563.3	1536.0	1480.1	1419.5	1357.2	1300.4	1251.1	1220.2	1190.8	1177.0	1161.4
10°	1506.6	1466.1	1379.3	1289.8	1200.3	1114.5	1033.6	976.4	925.7	897.2	877.2
12.5°	1458.2	1402.6	1282.1	1161.1	1038.4	916.1	795.1	699.8	620.3	578.4	557.1
15°	1410.9	1343.8	1189.9	1036.3	878.8	712.3	553.2	445.2	379.4	353.2	344.3
17.5°	1368.0	1282.1	1097.2	910.3	713.9	512.7	371.8	312.4	287.2	278.5	275.7
20°	1321.7	1219.9	1001.1	778.7	542.0	358.4	290.3	264.2	253.9	251.4	250.1
22.5°	1277.0	1158.5	909.0	637.8	389.4	276.7	249.4	238.6	237.0	239.3	239.3
25°	1239.0	1103.6	809.7	490.6	285.9	232.8	223.3	220.7	226.8	235.1	236.6
27.5°	1210.6	1058.5	703.9	362.2	227.7	202.4	202.2	206.4	221.4	237.3	240.5
30°	1191.2	1015.8	590.9	261.2	190.9	178.2	183.3	192.3	214.3	237.0	243.1
32.5°	1181.2	984.1	473.1	202.2	163.6	156.6	165.1	176.0	197.8	218.8	226.8
35°	1188.8	960.8	361.8	168.7	144.3	139.0	147.9	158.4	171.2	180.2	186.2
37.5°	1217.5	951.5	273.1	151.1	131.3	126.2	133.2	139.3	144.3	147.0	149.8
40°	1279.7	961.5	218.8	142.1	123.9	117.6	120.4	122.7	125.8	128.4	129.7
42.5°	1370.9	991.2	196.1	138.6	120.0	110.8	110.3	111.1	115.3	120.0	121.1
45°	1498.7	1043.5	194.5	140.8	118.2	105.4	102.4	103.8	110.3	117.6	118.9
47.5°	1662.0	1123.4	207.3	147.6	119.7	102.4	97.8	99.3	107.3	117.2	118.9
50°	1859.7	1234.8	228.7	157.5	126.8	103.1	96.1	97.1	105.4	116.3	117.9
52.5°	2093.2	1392.9	252.1	167.0	134.2	107.3	97.5	95.2	102.8	112.4	114.4
55°	2352.8	1595.8	276.0	175.7	138.0	112.4	100.0	92.7	98.2	106.1	107.6
57.5°	2671.6	1879.5	317.5	184.0	140.5	116.0	102.4	90.0	92.0	97.8	99.0
60°	3103.2	2280.7	390.6	197.8	146.3	117.2	102.2	87.9	85.9	89.1	89.8
62.5°	3620.3	2716.3	451.7	215.0	155.9	118.2	100.3	86.2	80.9	80.9	81.4
65°	3927.3	2832.9	417.8	229.3	163.9	117.2	98.2	84.6	77.0	73.4	73.8
67.5°	3667.0	2491.4	358.1	232.1	163.6	112.7	94.5	81.7	73.1	67.7	67.4
69°	3340.8	2149.6	331.3	224.5	155.9	107.0	90.0	78.5	70.3	64.6	64.3
70°	3078.0	1941.1	313.7	216.3	147.6	102.8	86.6	75.7	68.1	62.6	62.0
72.5°	2237.8	1271.9	268.0	185.8	121.8	86.2	74.8	66.4	60.6	57.5	56.9
75°	1118.3	606.6	217.5	150.8	93.3	69.0	61.3	55.6	52.7	52.1	51.8
77.5°	367.3	277.8	155.5	112.4	69.3	54.0	49.5	45.4	44.7	46.7	46.0
80°	201.9	161.6	98.7	74.4	47.3	39.7	39.0	36.7	37.7	40.9	40.2
82.5°	102.8	84.0	60.9	44.7	31.9	28.4	31.0	29.7	31.0	33.9	33.6
85°	50.8	46.0	38.7	27.1	21.1	18.2	22.1	23.0	23.6	25.9	25.9
87.5°	29.4	27.1	20.4	12.8	10.5	9.7	12.8	12.4	14.6	16.0	15.7
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)