

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: P194509

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194509
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-SL3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA 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: 6233 lumens
Efficiency: N/A
Efficacy: 105.6 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): 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

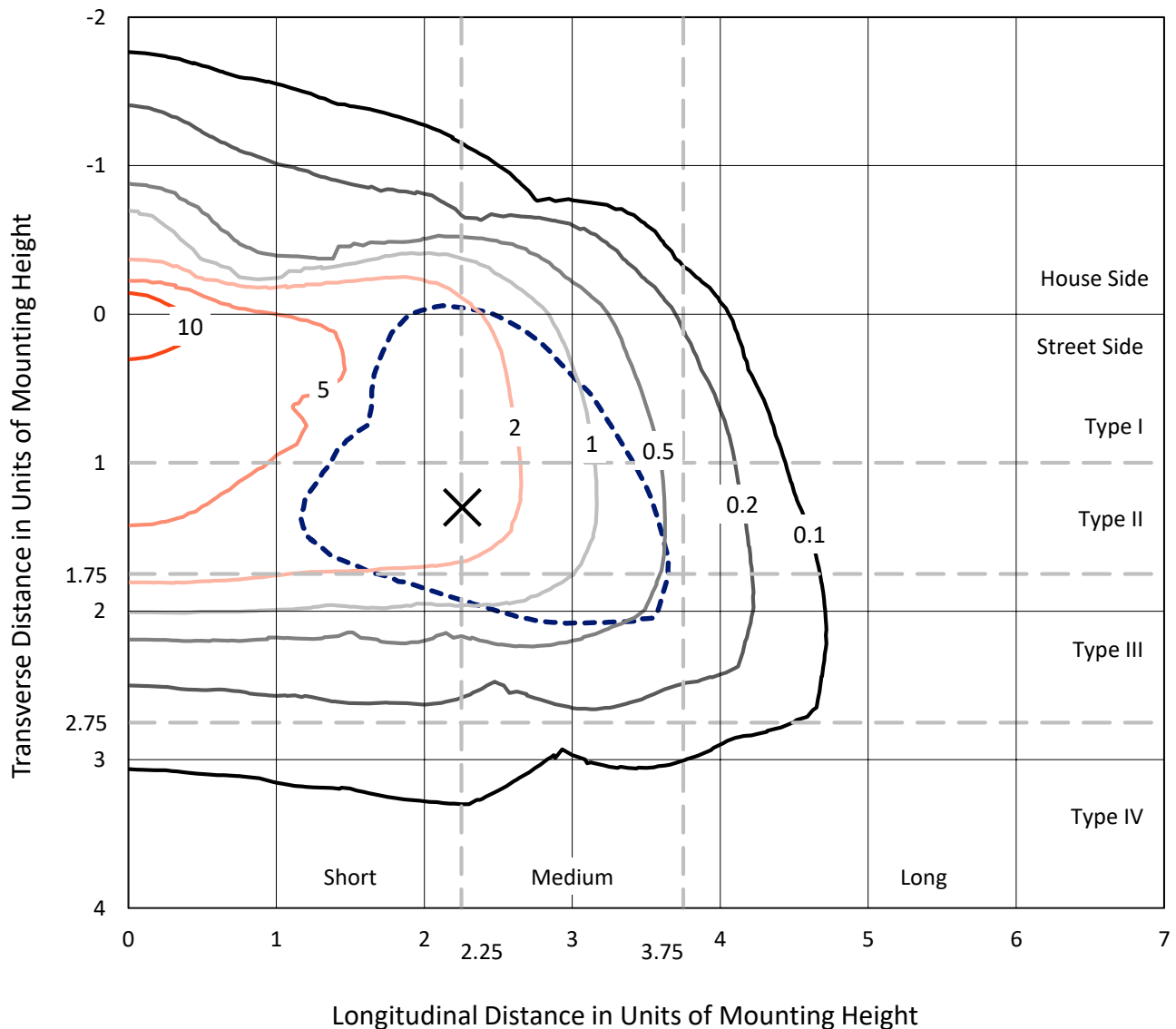


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

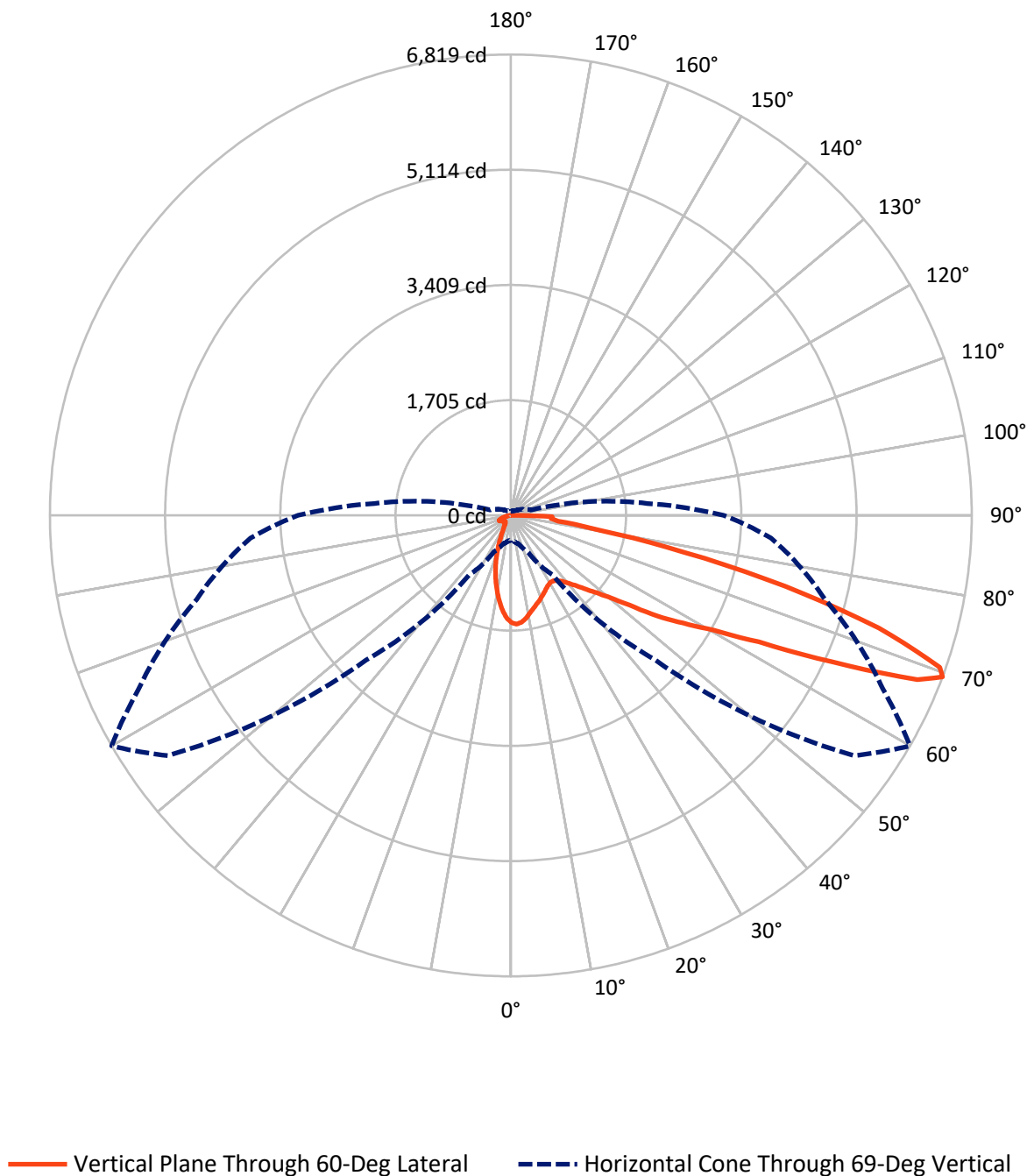


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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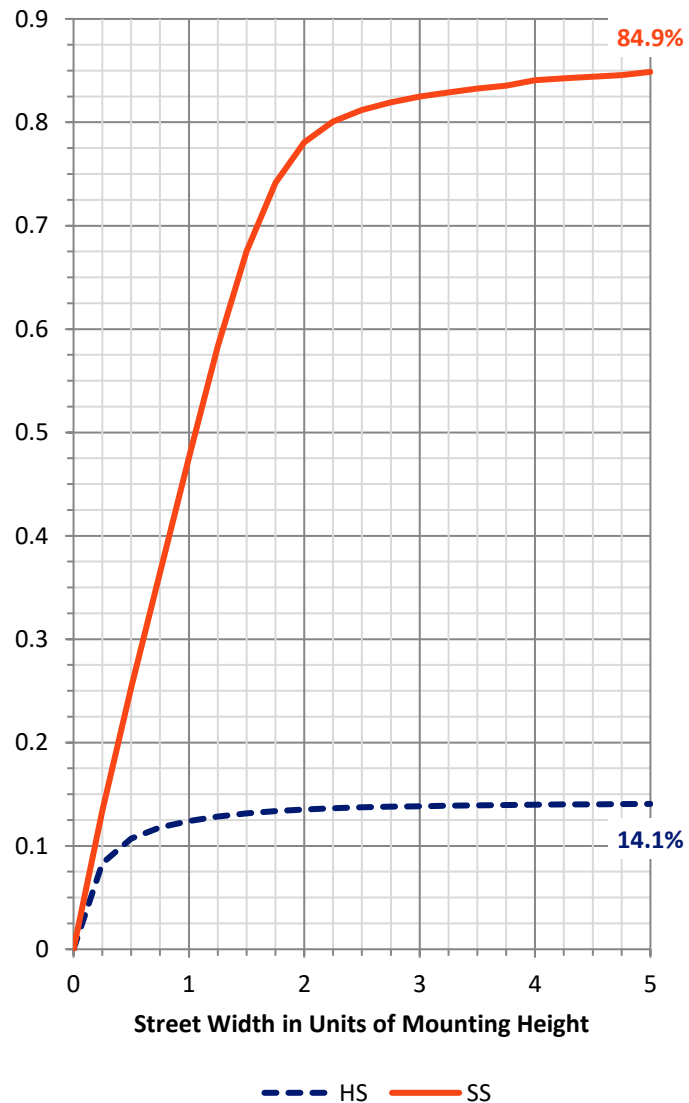
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.8	0.0	886.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5346.2	0.0	5346.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	6233.0	0.0	6233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	2.2
10°-20°	286.1	4.6
20°-30°	364.6	5.8
30°-40°	501.2	8.0
40°-50°	813.2	13.0
50°-60°	1304.2	20.9
60°-70°	1735.8	27.8
70°-80°	937.2	15.0
80°-90°	156.4	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°	6233.0	100.0
0°-180°	6233.0	100.0

Coefficient of Utilization



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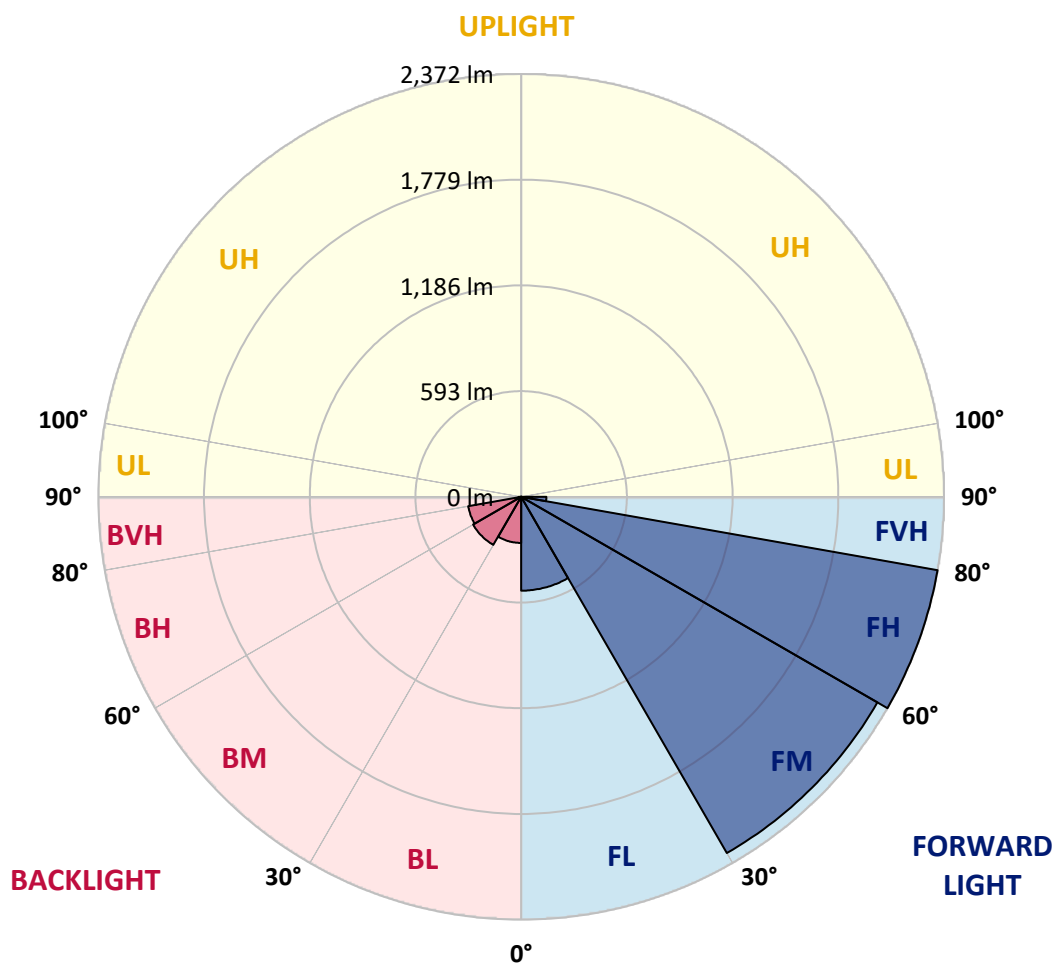
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.3	8.4			
FM	(30°-60°)	2307.1	37.0			
FH	(60°-80°)	2371.5	38.0			G2/5000
FVH	(80°-90°)	141.3	2.3			G2/225
BL	(0°-30°)	258.7	4.2	B1/500		
BM	(30°-60°)	311.5	5.0	B1/1000		
BH	(60°-80°)	301.5	4.8	B1/500		G1/500
BVH	(80°-90°)	15.1	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°	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1620.8	1624.4	1622.9	1622.0	1624.7	1620.5	1611.7	1609.0	1604.8	1594.9	1578.0
5°	1560.0	1570.8	1570.2	1578.3	1591.9	1595.5	1591.6	1592.2	1584.3	1572.0	1544.0
7.5°	1454.9	1459.4	1461.8	1479.6	1504.3	1524.1	1541.0	1546.4	1542.8	1532.3	1496.1
10°	1346.5	1350.1	1355.8	1376.6	1407.9	1435.3	1467.2	1485.6	1493.4	1491.6	1451.3
12.5°	1253.4	1257.1	1264.6	1288.1	1325.4	1359.1	1405.5	1428.4	1447.1	1458.2	1414.8
15°	1170.0	1177.9	1185.1	1212.2	1254.1	1298.3	1350.7	1379.6	1408.5	1433.5	1382.6
17.5°	1105.0	1112.8	1117.1	1141.7	1186.3	1240.5	1301.9	1335.9	1372.1	1413.0	1350.7
20°	1067.4	1071.0	1069.2	1083.0	1123.1	1180.6	1253.4	1292.9	1336.5	1393.8	1318.8
22.5°	1056.8	1057.1	1050.5	1049.0	1074.9	1123.4	1201.7	1249.5	1303.1	1381.1	1291.4
25°	1082.4	1081.5	1063.5	1048.7	1051.4	1079.7	1151.7	1207.4	1275.1	1378.4	1270.3
27.5°	1139.3	1142.0	1115.2	1087.5	1060.1	1059.2	1113.7	1172.5	1252.2	1390.7	1261.3
30°	1219.1	1223.6	1195.0	1159.8	1108.3	1065.9	1099.0	1151.7	1238.1	1416.3	1259.8
32.5°	1306.4	1311.3	1289.6	1252.5	1185.1	1106.8	1109.2	1153.5	1237.5	1452.2	1270.0
35°	1399.5	1404.9	1393.8	1362.4	1287.5	1182.4	1148.4	1182.7	1257.1	1507.0	1297.4
37.5°	1503.4	1511.8	1514.8	1485.0	1404.9	1282.1	1212.5	1238.1	1301.3	1583.1	1347.7
40°	1653.0	1664.7	1663.8	1621.1	1539.5	1416.6	1311.6	1318.2	1370.3	1684.9	1428.1
42.5°	1939.6	1942.0	1867.1	1774.0	1687.6	1558.2	1428.4	1423.0	1465.4	1813.8	1546.4
45°	2304.3	2294.3	2127.5	1947.8	1842.4	1720.7	1580.4	1553.9	1586.2	1971.0	1694.5
47.5°	2606.9	2584.0	2373.2	2125.1	2006.2	1897.5	1759.0	1712.6	1730.4	2149.2	1886.0
50°	2711.9	2694.8	2520.1	2272.6	2161.2	2113.1	1978.8	1913.1	1918.0	2361.8	2110.4
52.5°	2689.4	2686.9	2570.4	2369.9	2306.4	2339.5	2290.1	2201.3	2154.3	2597.8	2352.4
55°	2636.1	2641.2	2599.0	2483.1	2472.3	2558.1	2696.9	2631.2	2485.2	2836.0	2602.6
57.5°	2450.9	2464.1	2556.9	2625.5	2739.3	2867.0	3024.5	3005.8	2841.4	3093.4	2900.1
60°	1974.6	2005.3	2254.0	2597.8	3014.2	3413.5	3483.9	3440.6	3208.7	3412.9	3293.0
62.5°	1383.5	1415.4	1711.1	2249.2	2969.1	4030.7	4305.3	4118.3	3736.3	3883.5	3801.6
65°	740.7	756.0	981.9	1560.6	2506.6	4158.1	5505.8	5221.2	4571.5	4463.7	4236.7
67.5°	408.6	417.0	503.4	788.0	1605.4	3661.6	6270.6	6485.5	5615.4	4850.0	4157.5
69°	369.4	377.3	433.9	596.8	1074.3	3027.5	6195.9	6818.8	6073.0	4811.8	3864.8
70°	361.3	368.5	419.4	550.1	869.6	2495.5	5945.7	6733.6	6182.0	4674.8	3609.5
72.5°	325.2	333.0	382.4	494.1	743.1	1244.1	4709.7	5693.4	5612.7	4053.3	2737.8
75°	303.2	310.4	394.1	483.9	711.5	787.4	3104.9	4196.0	4125.9	2835.4	1476.3
77.5°	129.8	129.2	182.8	409.5	722.0	762.4	1668.4	2621.3	2391.6	1211.9	423.9
80°	86.7	85.2	86.7	120.4	662.1	766.6	874.1	1330.5	1005.0	308.9	209.0
82.5°	74.7	73.5	76.2	73.5	232.7	875.0	743.1	707.6	477.8	175.5	103.6
85°	50.3	48.2	65.6	65.9	109.9	777.4	837.0	597.7	386.6	104.2	51.2
87.5°	24.1	23.5	38.2	46.7	64.4	315.8	939.1	612.4	389.9	53.3	24.4
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°	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1572.9	1560.6	1548.5	1534.1	1519.0	1502.2	1493.7	1485.3	1483.2	1480.8	1472.3
5°	1529.6	1512.1	1482.0	1448.9	1413.9	1379.9	1354.0	1337.8	1325.4	1319.1	1307.9
7.5°	1473.5	1448.0	1395.3	1338.1	1279.3	1225.7	1179.4	1150.2	1122.5	1109.5	1094.8
10°	1420.3	1382.0	1300.1	1215.8	1131.5	1050.5	974.3	920.4	872.6	845.8	826.8
12.5°	1374.5	1322.1	1208.6	1094.5	978.9	863.5	749.4	659.7	584.7	545.3	525.1
15°	1329.9	1266.7	1121.6	976.7	828.3	671.4	521.5	419.7	357.7	333.0	324.6
17.5°	1289.6	1208.6	1034.3	858.1	672.9	483.3	350.5	294.5	270.7	262.6	259.8
20°	1245.9	1149.9	943.6	734.1	511.0	337.8	273.7	249.0	239.4	237.0	235.8
22.5°	1203.8	1092.1	856.9	601.3	367.0	260.7	235.2	224.9	223.4	225.5	225.5
25°	1167.9	1040.3	763.3	462.5	269.5	219.5	210.5	208.1	213.8	221.6	223.1
27.5°	1141.1	997.8	663.6	341.4	214.7	190.9	190.6	194.5	208.7	223.7	226.7
30°	1122.8	957.5	557.0	246.3	180.1	168.0	172.8	181.3	202.0	223.4	229.1
32.5°	1113.4	927.7	445.9	190.6	154.2	147.5	155.7	165.9	186.4	206.2	213.8
35°	1120.7	905.7	341.1	159.0	136.1	131.0	139.4	149.3	161.4	169.8	175.5
37.5°	1147.8	897.0	257.4	142.4	123.7	118.9	125.6	131.3	136.1	138.5	141.2
40°	1206.2	906.3	206.2	134.0	116.8	110.8	113.5	115.6	118.6	121.0	122.2
42.5°	1292.3	934.3	184.9	130.7	113.2	104.5	103.9	104.8	108.7	113.2	114.1
45°	1412.7	983.7	183.4	132.8	111.4	99.4	96.7	97.9	103.9	110.8	112.0
47.5°	1566.6	1058.9	195.4	139.1	112.9	96.7	92.1	93.6	101.2	110.5	112.0
50°	1753.0	1164.0	215.6	148.4	119.5	97.3	90.6	91.5	99.4	109.6	111.1
52.5°	1973.1	1313.1	237.6	157.5	126.5	101.2	91.8	89.7	97.0	106.0	107.8
55°	2217.8	1504.3	260.1	165.6	130.1	106.0	94.2	87.3	92.4	100.0	101.5
57.5°	2518.3	1771.6	299.3	173.4	132.5	109.3	96.7	84.9	86.7	92.1	93.3
60°	2925.1	2149.8	368.2	186.4	137.9	110.5	96.3	82.8	81.0	84.0	84.6
62.5°	3412.6	2560.5	425.7	202.6	146.9	111.4	94.5	81.3	76.2	76.2	76.8
65°	3701.9	2670.4	393.8	216.2	154.5	110.5	92.4	79.8	72.6	69.3	69.6
67.5°	3456.5	2348.5	337.5	218.9	154.2	106.3	89.1	77.1	69.0	63.8	63.5
69°	3149.1	2026.4	312.2	211.7	146.9	100.9	84.9	74.1	66.2	60.8	60.5
70°	2901.3	1829.7	295.7	203.8	139.1	97.0	81.6	71.4	64.1	59.0	58.4
72.5°	2109.5	1199.0	252.6	175.2	114.7	81.3	70.5	62.6	57.2	54.2	53.6
75°	1054.1	571.8	205.0	142.1	87.9	65.0	57.8	52.4	49.7	49.1	48.8
77.5°	346.3	262.0	146.6	106.0	65.3	50.9	46.7	42.8	42.2	44.0	43.4
80°	190.3	152.4	93.0	70.2	44.6	37.3	36.7	34.6	35.5	38.5	37.9
82.5°	97.0	79.2	57.5	42.2	30.1	26.8	29.2	28.0	29.2	31.9	31.6
85°	47.9	43.4	36.4	25.6	19.9	17.2	20.8	21.7	22.3	24.4	24.4
87.5°	27.7	25.6	19.3	12.0	9.9	9.0	12.0	11.7	13.9	15.1	14.8
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)