

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: P299943

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299943
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: GLNA-AF-02-LED-E1-SL3-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6524.9 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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



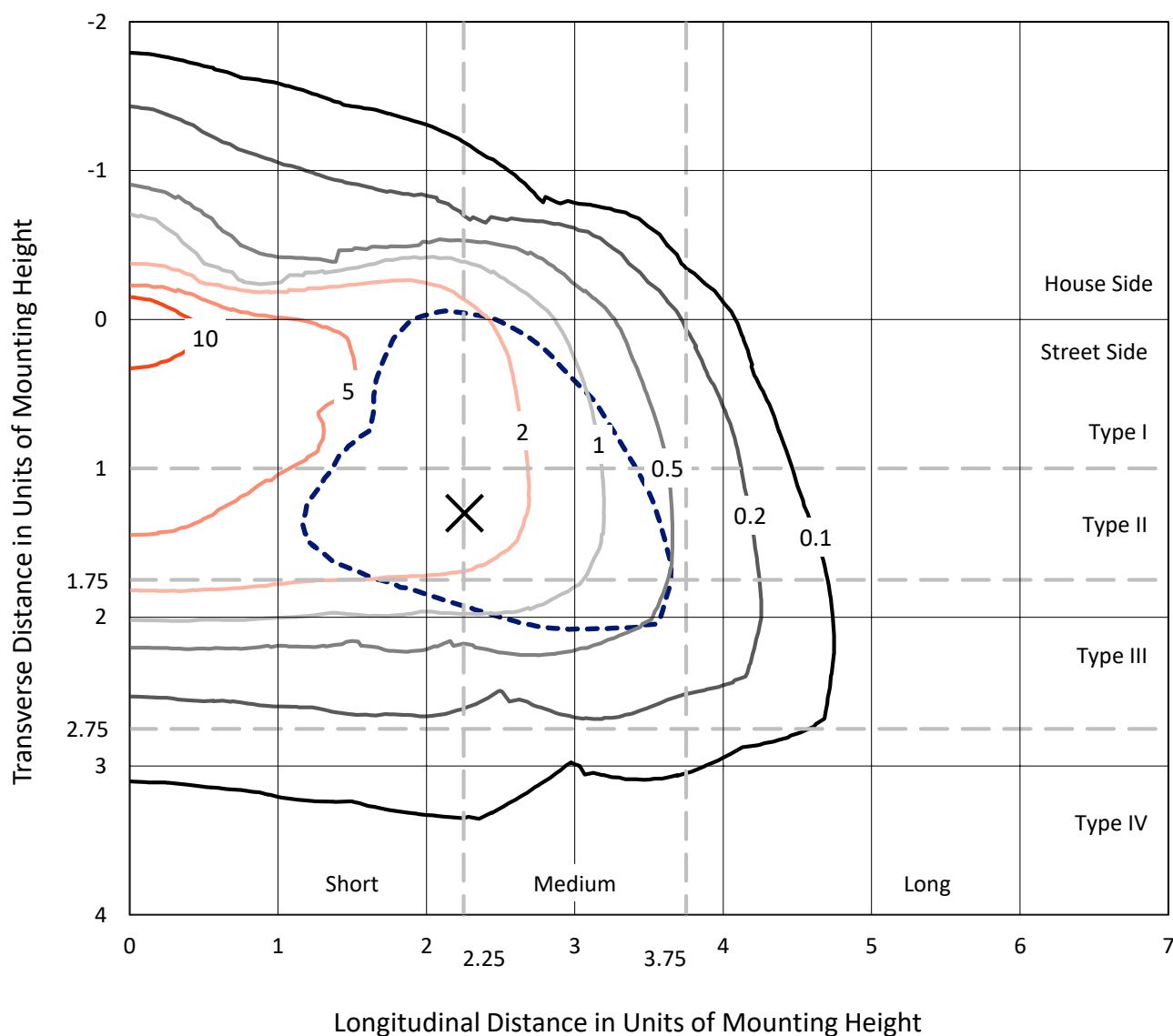
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

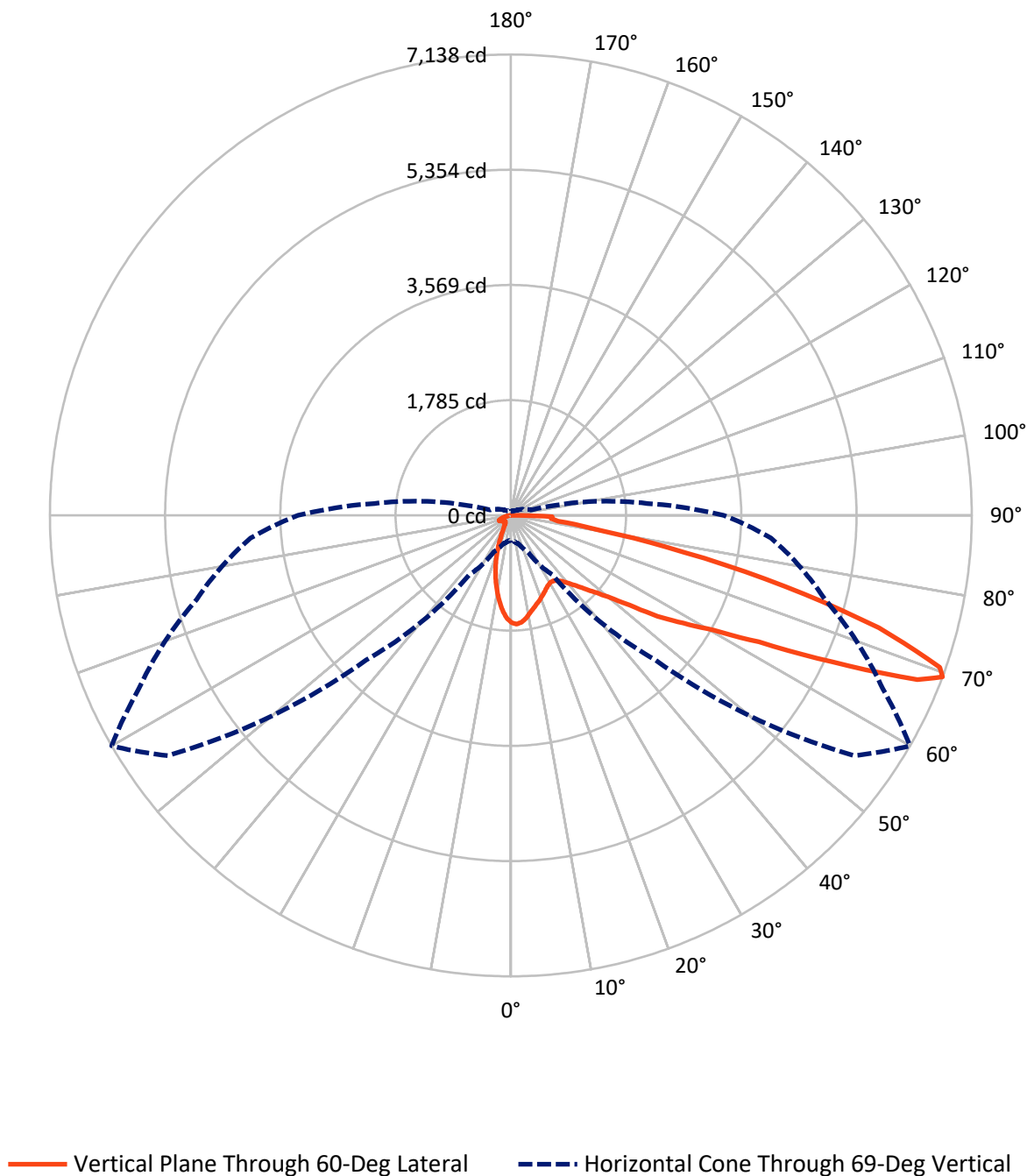


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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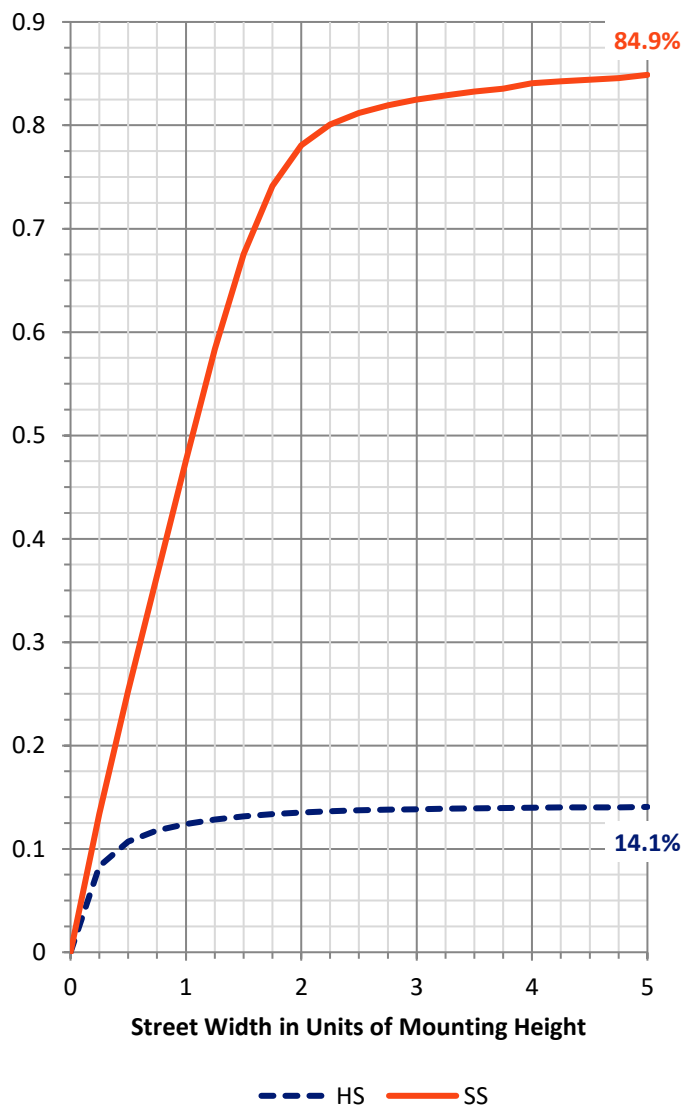
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.3	0.0	928.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5596.6	0.0	5596.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	6524.9	0.0	6524.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.2
10°-20°	299.5	4.6
20°-30°	381.6	5.8
30°-40°	524.7	8.0
40°-50°	851.3	13.0
50°-60°	1365.3	20.9
60°-70°	1817.1	27.8
70°-80°	981.1	15.0
80°-90°	163.7	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°	6524.9	100.0
0°-180°	6524.9	100.0

Coefficient of Utilization



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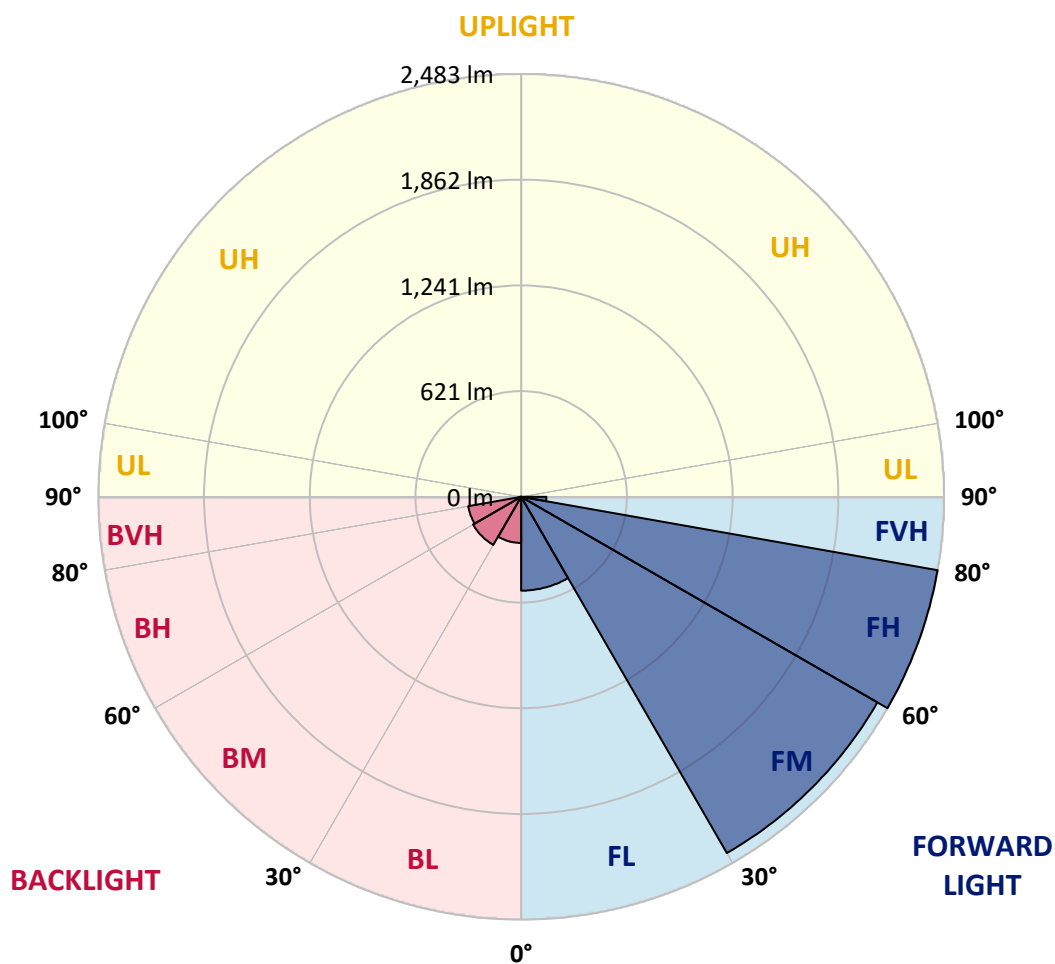
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.9	8.4			
FM	(30°-60°)	2415.2	37.0			
FH	(60°-80°)	2482.6	38.0			G2/5000
FVH	(80°-90°)	147.9	2.3			G2/225
BL	(0°-30°)	270.8	4.2	B1/500		
BM	(30°-60°)	326.1	5.0	B1/1000		
BH	(60°-80°)	315.6	4.8	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7
2.5°	1696.7	1700.5	1698.9	1698.0	1700.8	1696.4	1687.2	1684.4	1680.0	1669.6	1651.9
5°	1633.0	1644.4	1643.7	1652.3	1666.4	1670.2	1666.1	1666.8	1658.6	1645.6	1616.3
7.5°	1523.0	1527.7	1530.3	1548.9	1574.7	1595.5	1613.2	1618.8	1615.1	1604.0	1566.2
10°	1409.6	1413.3	1419.3	1441.1	1473.9	1502.5	1535.9	1555.2	1563.4	1561.5	1519.2
12.5°	1312.2	1315.9	1323.8	1348.4	1387.5	1422.8	1471.3	1495.3	1514.8	1526.5	1481.1
15°	1224.8	1233.0	1240.6	1269.0	1312.8	1359.1	1414.0	1444.2	1474.5	1500.6	1447.4
17.5°	1156.8	1165.0	1169.4	1195.2	1241.9	1298.6	1362.9	1398.5	1436.3	1479.2	1414.0
20°	1117.4	1121.1	1119.3	1133.8	1175.7	1235.9	1312.2	1353.4	1399.2	1459.0	1380.6
22.5°	1106.3	1106.6	1099.7	1098.1	1125.2	1176.0	1257.9	1308.1	1364.2	1445.8	1351.9
25°	1133.1	1132.2	1113.3	1097.8	1100.7	1130.3	1205.6	1263.9	1334.9	1443.0	1329.8
27.5°	1192.7	1195.5	1167.5	1138.5	1109.8	1108.9	1165.9	1227.4	1310.9	1455.9	1320.4
30°	1276.2	1281.0	1251.0	1214.1	1160.2	1115.8	1150.5	1205.6	1296.1	1482.7	1318.8
32.5°	1367.6	1372.7	1350.0	1311.2	1240.6	1158.7	1161.2	1207.5	1295.5	1520.2	1329.5
35°	1465.0	1470.7	1459.0	1426.3	1347.8	1237.8	1202.2	1238.1	1315.9	1577.6	1358.2
37.5°	1573.8	1582.6	1585.7	1554.5	1470.7	1342.1	1269.3	1296.1	1362.3	1657.3	1410.8
40°	1730.4	1742.7	1741.8	1697.0	1611.6	1483.0	1373.0	1379.9	1434.5	1763.8	1495.0
42.5°	2030.5	2033.0	1954.5	1857.1	1766.7	1631.1	1495.3	1489.6	1534.1	1898.7	1618.8
45°	2412.2	2401.8	2227.2	2039.0	1928.7	1801.3	1654.5	1626.7	1660.4	2063.3	1773.9
47.5°	2729.0	2705.0	2484.4	2224.6	2100.1	1986.4	1841.4	1792.8	1811.4	2249.9	1974.4
50°	2839.0	2821.0	2638.2	2379.1	2262.5	2212.0	2071.5	2002.7	2007.8	2472.4	2209.2
52.5°	2815.3	2812.8	2690.8	2480.9	2414.4	2449.1	2397.4	2304.4	2255.2	2719.5	2462.6
55°	2759.5	2764.9	2720.8	2599.4	2588.1	2677.9	2823.2	2754.5	2601.6	2968.8	2724.5
57.5°	2565.7	2579.6	2676.6	2748.5	2867.6	3001.3	3166.1	3146.6	2974.5	3238.3	3036.0
60°	2067.0	2099.2	2359.5	2719.5	3155.4	3573.4	3647.1	3601.7	3359.0	3572.7	3447.3
62.5°	1448.3	1481.7	1791.3	2354.5	3108.1	4219.5	4507.0	4311.2	3911.3	4065.4	3979.7
65°	775.4	791.5	1027.9	1633.7	2624.0	4352.8	5763.7	5465.8	4785.6	4672.8	4435.1
67.5°	427.7	436.5	527.0	824.9	1680.6	3833.1	6564.2	6789.3	5878.4	5077.2	4352.2
69°	386.7	394.9	454.2	624.7	1124.6	3169.3	6486.1	7138.2	6357.5	5037.1	4045.8
70°	378.2	385.8	439.1	575.9	910.3	2612.3	6224.2	7049.0	6471.6	4893.7	3778.6
72.5°	340.4	348.6	400.3	517.2	777.9	1302.4	4930.3	5960.0	5875.5	4243.2	2866.1
75°	317.4	325.0	412.6	506.5	744.8	824.2	3250.3	4392.6	4319.1	2968.2	1545.4
77.5°	135.8	135.2	191.3	428.7	755.8	798.1	1746.5	2744.1	2503.6	1268.7	443.8
80°	90.8	89.2	90.8	126.1	693.1	802.5	915.0	1392.8	1052.1	323.4	218.7
82.5°	78.2	76.9	79.7	76.9	243.6	916.0	777.9	740.7	500.2	183.8	108.4
85°	52.6	50.4	68.7	69.0	115.0	813.8	876.2	625.7	404.7	109.1	53.6
87.5°	25.2	24.6	40.0	48.9	67.5	330.6	983.1	641.1	408.2	55.8	25.5
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°	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7	1662.7
2.5°	1646.6	1633.7	1621.0	1605.9	1590.2	1572.5	1563.7	1554.9	1552.7	1550.1	1541.3
5°	1601.2	1582.9	1551.4	1516.7	1480.2	1444.5	1417.4	1400.4	1387.5	1380.9	1369.2
7.5°	1542.6	1515.8	1460.6	1400.7	1339.3	1283.2	1234.6	1204.0	1175.0	1161.5	1146.0
10°	1486.8	1446.7	1361.0	1272.8	1184.5	1099.7	1020.0	963.6	913.4	885.4	865.5
12.5°	1438.9	1384.0	1265.2	1145.7	1024.7	904.0	784.5	690.6	612.1	570.8	549.7
15°	1392.2	1326.0	1174.1	1022.5	867.1	702.9	545.9	439.4	374.5	348.6	339.8
17.5°	1350.0	1265.2	1082.7	898.3	704.5	505.9	366.9	308.3	283.4	274.8	272.0
20°	1304.3	1203.7	987.8	768.4	534.9	353.6	286.5	260.7	250.6	248.1	246.8
22.5°	1260.1	1143.2	897.0	629.4	384.2	273.0	246.2	235.5	233.9	236.1	236.1
25°	1222.6	1089.0	799.0	484.1	282.1	229.8	220.3	217.8	223.8	232.0	233.6
27.5°	1194.6	1044.6	694.7	357.4	224.7	199.8	199.5	203.6	218.4	234.2	237.3
30°	1175.4	1002.3	583.1	257.8	188.5	175.9	180.9	189.7	211.5	233.9	239.9
32.5°	1165.6	971.1	466.8	199.5	161.4	154.4	163.0	173.7	195.1	215.9	223.8
35°	1173.2	948.1	357.1	166.4	142.5	137.1	145.9	156.3	168.9	177.8	183.8
37.5°	1201.5	939.0	269.5	149.1	129.5	124.5	131.4	137.4	142.5	145.0	147.8
40°	1262.7	948.7	215.9	140.3	122.3	116.0	118.8	121.0	124.2	126.7	128.0
42.5°	1352.8	978.0	193.5	136.8	118.5	109.4	108.7	109.7	113.8	118.5	119.5
45°	1478.9	1029.7	192.0	139.0	116.6	104.0	101.2	102.4	108.7	116.0	117.3
47.5°	1640.0	1108.5	204.6	145.6	118.2	101.2	96.4	98.0	105.9	115.7	117.3
50°	1835.1	1218.5	225.7	155.4	125.1	101.8	94.9	95.8	104.0	114.7	116.3
52.5°	2065.5	1374.6	248.7	164.8	132.4	105.9	96.1	93.9	101.5	110.9	112.8
55°	2321.7	1574.7	272.3	173.4	136.2	110.9	98.7	91.4	96.8	104.6	106.2
57.5°	2636.3	1854.6	313.3	181.6	138.7	114.4	101.2	88.9	90.8	96.4	97.7
60°	3062.1	2250.5	385.5	195.1	144.4	115.7	100.9	86.7	84.8	87.9	88.6
62.5°	3572.4	2680.4	445.7	212.1	153.8	116.6	99.0	85.1	79.7	79.7	80.4
65°	3875.3	2795.5	412.3	226.3	161.7	115.7	96.8	83.5	76.0	72.5	72.8
67.5°	3618.4	2458.5	353.3	229.1	161.4	111.3	93.3	80.7	72.2	66.8	66.5
69°	3296.6	2121.3	326.9	221.6	153.8	105.6	88.9	77.5	69.3	63.7	63.4
70°	3037.2	1915.4	309.5	213.4	145.6	101.5	85.4	74.7	67.1	61.8	61.1
72.5°	2208.3	1255.1	264.4	183.4	120.1	85.1	73.8	65.6	59.9	56.7	56.1
75°	1103.5	598.6	214.6	148.8	92.0	68.1	60.5	54.8	52.0	51.4	51.1
77.5°	362.5	274.2	153.5	110.9	68.4	53.3	48.9	44.8	44.1	46.0	45.4
80°	199.2	159.5	97.4	73.4	46.6	39.1	38.5	36.2	37.2	40.3	39.7
82.5°	101.5	82.9	60.2	44.1	31.5	28.1	30.6	29.3	30.6	33.4	33.1
85°	50.1	45.4	38.1	26.8	20.8	18.0	21.7	22.7	23.3	25.5	25.5
87.5°	29.0	26.8	20.2	12.6	10.4	9.5	12.6	12.3	14.5	15.8	15.4
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)