

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: P194450

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6856 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - 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

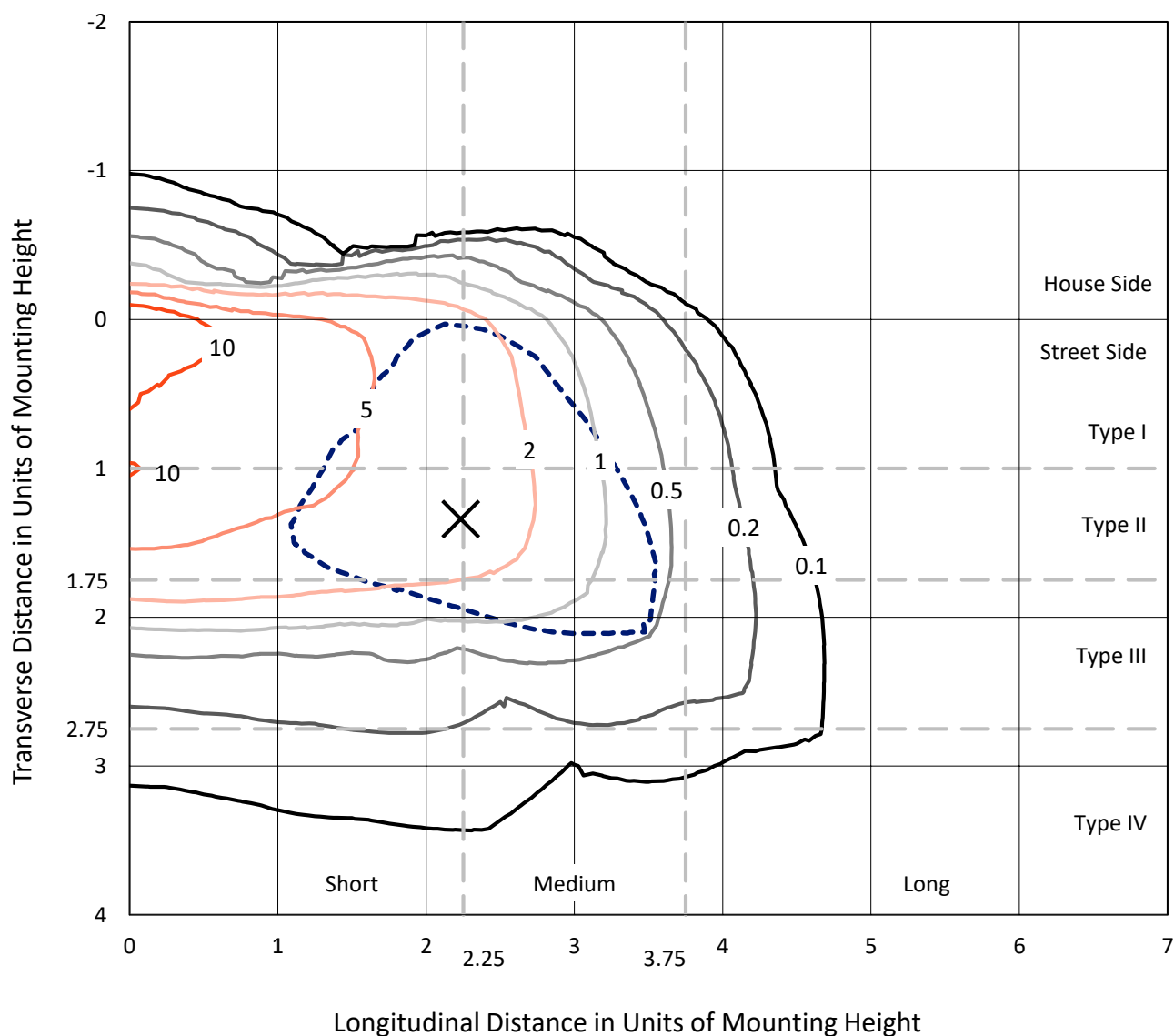


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

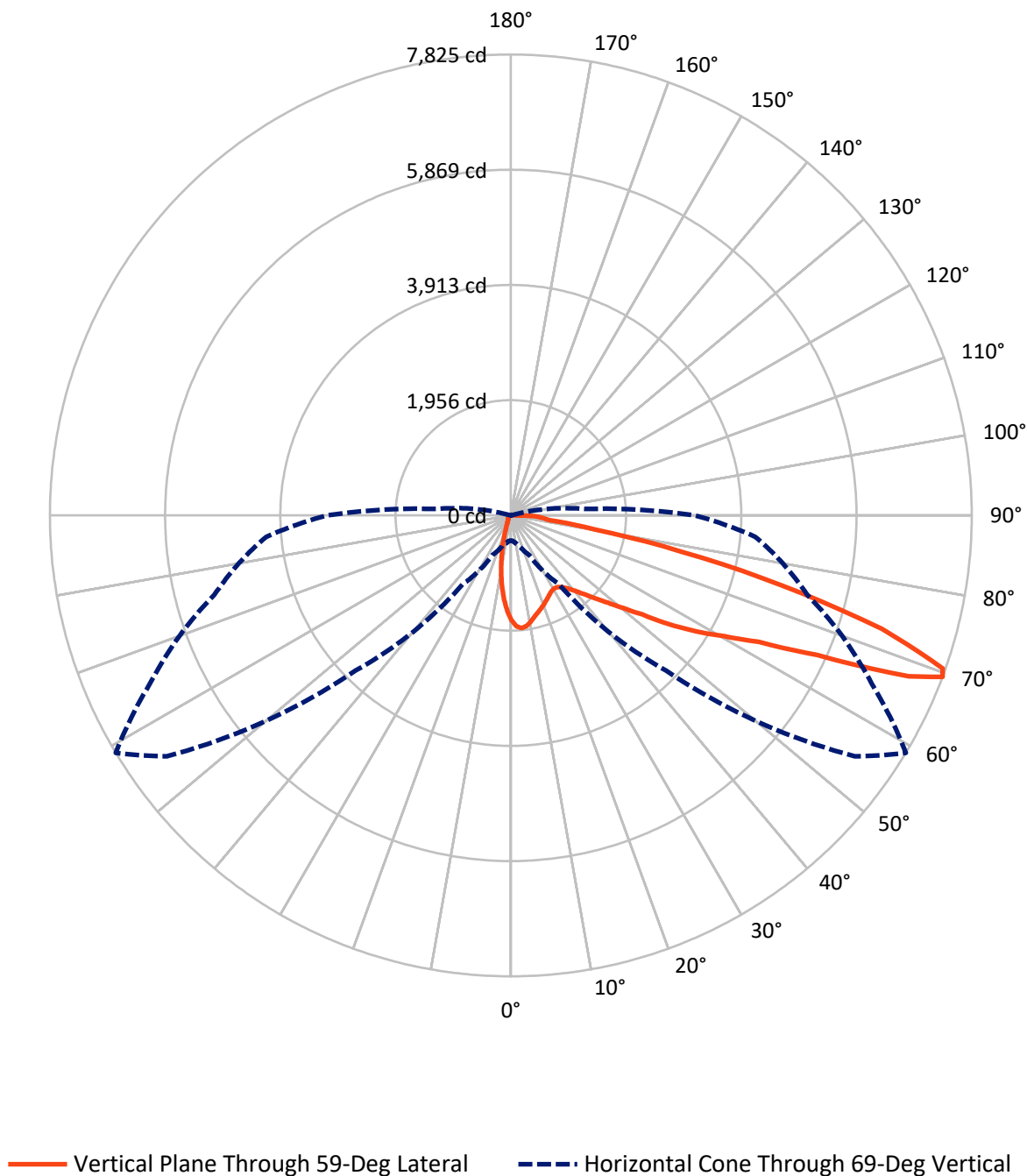


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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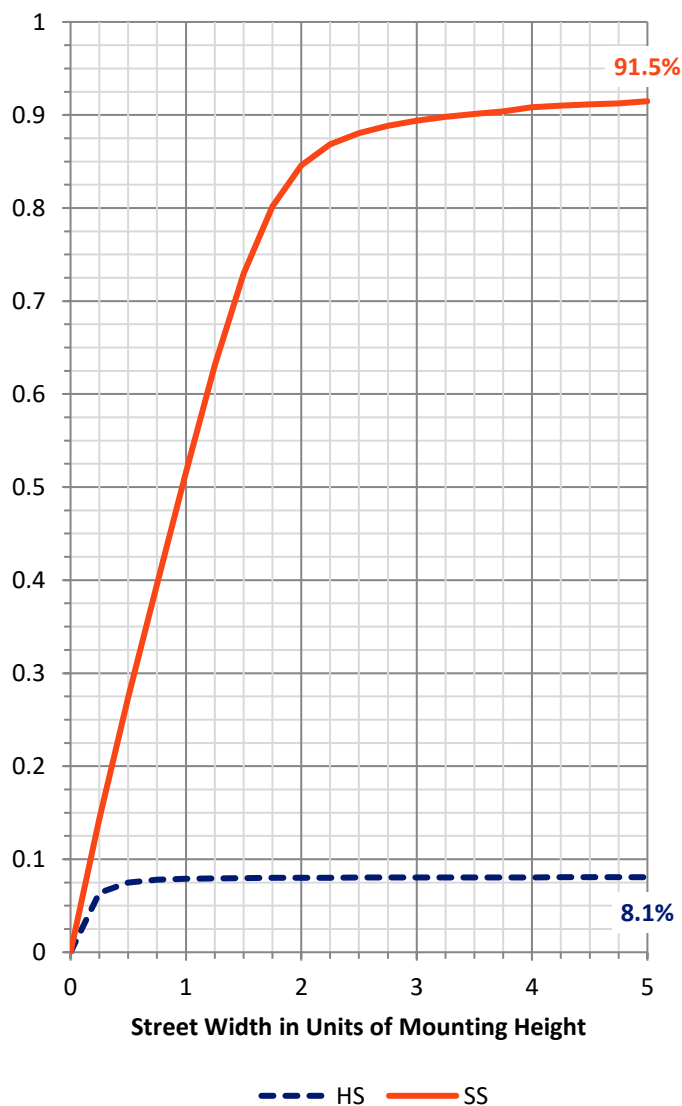
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.3	0.0	558.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6297.7	0.0	6297.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	6856.0	0.0	6856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	2.1
10°-20°	299.3	4.4
20°-30°	402.7	5.9
30°-40°	584.8	8.5
40°-50°	973.7	14.2
50°-60°	1518.9	22.2
60°-70°	1879.5	27.4
70°-80°	952.5	13.9
80°-90°	99.7	1.5
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°	6856.0	100.0
0°-180°	6856.0	100.0

Coefficient of Utilization



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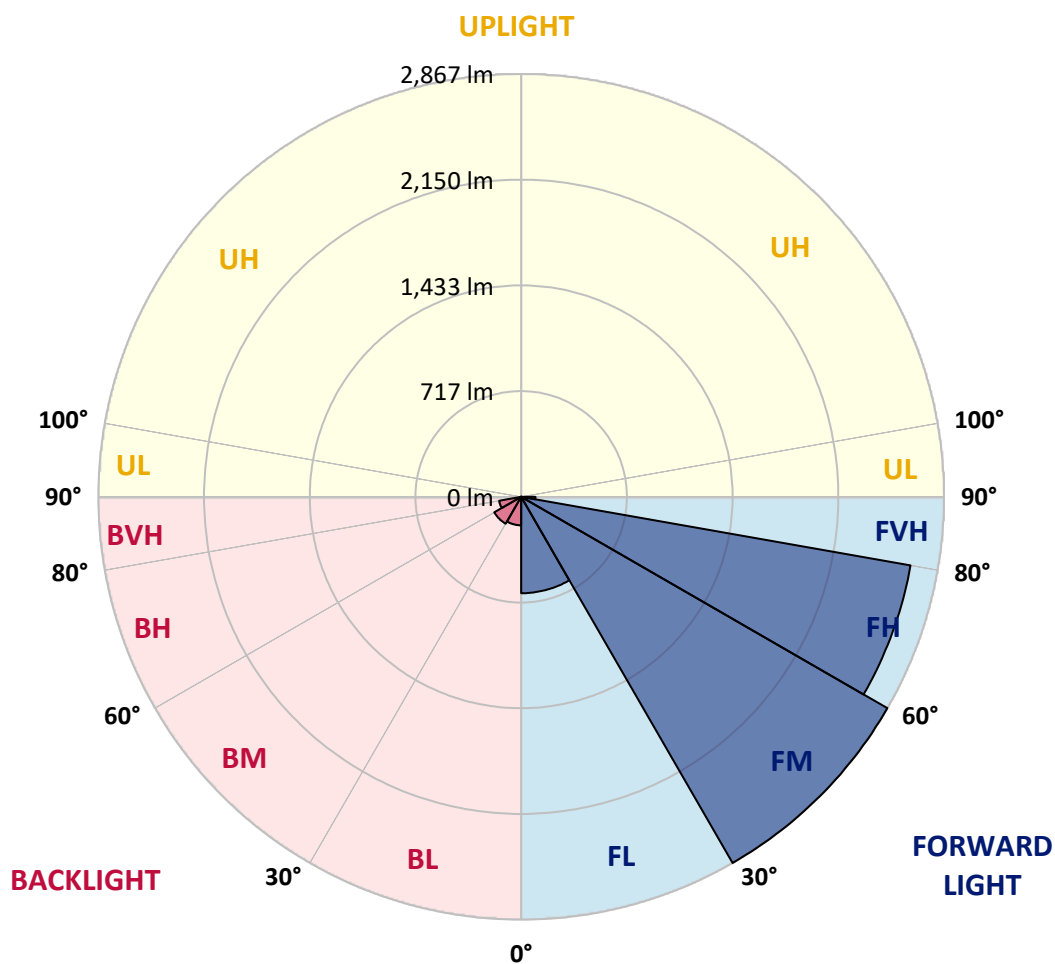
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.6	9.5			
FM	(30°-60°)	2867.0	41.8			
FH	(60°-80°)	2680.4	39.1			G2/5000
FVH	(80°-90°)	96.6	1.4			G1/100
BL	(0°-30°)	193.3	2.8	B1/500		
BM	(30°-60°)	210.4	3.1	B0/220		
BH	(60°-80°)	151.6	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5
2.5°	1955.9	1955.1	1946.6	1942.7	1935.7	1921.0	1898.1	1886.1	1866.7	1833.0	1787.6
5°	1938.0	1947.4	1952.4	1952.8	1957.8	1952.4	1931.8	1921.8	1895.0	1840.7	1759.3
7.5°	1817.1	1820.6	1834.9	1847.3	1871.4	1894.2	1901.6	1897.3	1881.4	1823.3	1715.1
10°	1687.6	1691.1	1708.1	1724.4	1757.0	1792.3	1829.5	1837.2	1843.8	1798.5	1672.5
12.5°	1575.9	1579.4	1596.9	1618.2	1656.2	1699.6	1757.4	1770.2	1799.3	1774.8	1638.4
15°	1479.8	1481.4	1498.4	1524.8	1570.1	1626.0	1691.5	1712.0	1756.6	1758.2	1608.5
17.5°	1398.0	1401.9	1412.3	1437.5	1487.2	1556.2	1632.5	1662.0	1714.4	1744.2	1579.4
20°	1348.0	1351.9	1351.5	1365.4	1410.0	1483.7	1573.6	1608.9	1672.5	1729.9	1553.5
22.5°	1338.3	1338.3	1328.2	1326.3	1352.6	1414.3	1512.4	1555.4	1634.9	1723.7	1535.2
25°	1372.8	1371.2	1346.0	1325.5	1326.7	1363.5	1453.0	1504.2	1603.1	1727.9	1525.5
27.5°	1445.7	1443.7	1412.0	1372.8	1341.4	1341.0	1408.1	1463.1	1577.9	1748.1	1529.4
30°	1546.5	1545.7	1511.2	1462.0	1405.0	1352.6	1392.6	1442.6	1561.6	1784.5	1538.3
32.5°	1656.6	1655.4	1629.4	1577.5	1505.4	1405.0	1408.9	1450.7	1566.3	1833.0	1560.1
35°	1773.3	1771.3	1760.1	1714.7	1635.3	1501.5	1462.4	1494.9	1595.7	1905.5	1602.7
37.5°	1899.7	1901.6	1909.7	1866.3	1783.0	1636.8	1551.9	1574.0	1655.0	2004.0	1672.1
40°	2086.1	2085.8	2088.5	2031.5	1951.2	1802.4	1677.1	1684.1	1754.3	2134.6	1777.5
42.5°	2424.6	2400.9	2329.2	2212.9	2132.3	1991.5	1834.9	1827.6	1875.6	2296.3	1925.3
45°	2879.3	2829.0	2642.9	2419.9	2316.8	2204.8	2029.2	2005.5	2036.1	2490.5	2107.5
47.5°	3270.5	3218.2	2954.9	2635.5	2512.6	2407.1	2256.7	2214.1	2224.2	2708.0	2338.5
50°	3403.5	3377.9	3148.0	2823.1	2702.2	2661.9	2520.7	2468.8	2454.4	2959.6	2606.4
52.5°	3357.4	3355.4	3202.3	2944.9	2875.9	2925.5	2853.0	2792.9	2740.2	3224.8	2879.0
55°	3283.3	3293.0	3224.4	3051.5	3049.2	3166.2	3307.4	3257.3	3104.6	3512.8	3113.9
57.5°	3079.0	3120.5	3212.0	3253.1	3348.5	3468.2	3685.7	3715.2	3534.5	3733.4	3308.9
60°	2498.3	2589.4	2888.7	3282.2	3734.2	4032.7	4142.4	4167.6	3887.3	3916.8	3572.1
62.5°	1773.3	1866.3	2245.9	2911.5	3740.0	4774.4	4822.8	4724.0	4275.8	4188.6	4026.1
65°	941.3	1013.0	1323.2	2101.6	3242.6	4946.5	6012.6	5718.0	4961.2	4723.2	4612.7
67.5°	481.5	503.2	626.5	1028.5	2229.2	4393.7	7079.2	7286.6	6142.5	5253.5	4584.4
69°	426.1	438.9	520.7	743.6	1427.5	3721.4	7131.1	7825.1	6760.9	5209.3	4166.1
70°	412.5	423.7	498.2	673.0	1115.8	3120.9	6932.2	7777.8	6919.0	5041.1	3853.6
72.5°	350.1	359.8	443.5	594.7	906.8	1549.2	5631.1	6590.7	6208.8	4199.4	2789.4
75°	234.2	266.0	425.7	557.5	843.6	880.0	3712.5	4762.7	4424.3	2832.4	1453.0
77.5°	56.2	60.5	120.2	443.5	771.5	774.6	1909.4	2960.8	2414.9	1009.5	343.5
80°	30.2	29.1	33.7	88.0	718.4	726.9	859.5	1437.2	862.2	167.5	113.2
82.5°	21.3	20.2	21.7	36.8	226.0	662.2	621.8	650.5	357.4	64.4	50.8
85°	7.8	7.4	12.0	33.3	70.9	380.7	638.9	536.6	289.6	29.5	37.2
87.5°	2.7	2.3	4.7	18.2	21.7	162.1	394.3	405.5	114.0	17.8	17.4
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°	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5
2.5°	1768.6	1744.6	1700.4	1655.0	1613.2	1562.8	1537.6	1512.8	1502.3	1498.4	1480.2
5°	1717.5	1676.7	1582.9	1488.7	1401.9	1309.6	1248.7	1199.9	1171.2	1157.2	1135.1
7.5°	1651.9	1585.3	1443.0	1297.6	1162.3	1028.9	930.1	854.1	801.7	776.5	753.7
10°	1588.4	1499.6	1297.2	1099.1	915.3	738.5	602.1	503.2	440.0	410.9	392.3
12.5°	1531.4	1416.2	1156.5	905.6	675.0	467.9	329.1	250.4	211.3	197.7	191.1
15°	1480.6	1339.5	1023.5	721.9	457.1	267.5	179.9	153.1	146.9	146.9	146.2
17.5°	1432.5	1264.2	895.2	549.4	286.9	163.6	136.9	133.4	133.4	134.9	134.9
20°	1386.4	1192.5	771.1	394.3	180.7	129.9	123.7	122.9	123.7	125.6	125.6
22.5°	1346.8	1127.4	655.2	270.6	134.1	117.1	114.0	112.8	113.2	114.4	115.1
25°	1317.4	1072.3	545.9	183.4	115.5	106.6	103.1	101.2	99.6	99.6	100.4
27.5°	1298.8	1025.8	440.0	133.4	103.9	96.9	91.5	88.4	84.9	83.0	83.7
30°	1285.2	981.6	340.8	108.9	93.0	86.1	79.1	74.0	69.0	66.7	67.5
32.5°	1280.1	946.0	254.7	96.1	83.4	75.6	67.1	60.5	55.1	53.1	53.5
35°	1293.7	917.7	186.5	86.8	75.6	65.9	56.2	48.8	44.6	43.4	43.8
37.5°	1329.4	902.5	139.6	79.1	68.6	57.8	46.9	39.9	37.2	37.2	37.6
40°	1396.8	902.1	112.0	73.7	62.4	50.0	38.8	33.7	32.2	33.0	33.3
42.5°	1495.3	922.7	97.7	68.6	57.0	42.6	32.2	28.7	28.3	29.1	29.5
45°	1629.8	960.3	89.9	64.4	51.2	35.7	27.1	24.8	24.8	26.0	26.4
47.5°	1794.6	1015.4	83.4	60.1	45.4	29.9	23.3	21.7	22.1	23.3	23.6
50°	1993.1	1084.7	76.8	55.4	41.1	24.8	20.2	19.0	19.4	20.9	21.3
52.5°	2219.1	1178.2	71.3	51.2	35.7	20.5	17.1	16.3	17.1	18.6	19.0
55°	2413.0	1261.9	64.7	47.7	28.7	17.1	14.0	14.0	14.7	16.7	17.1
57.5°	2599.4	1349.5	58.9	41.1	22.5	13.6	11.6	12.0	13.2	15.1	15.5
60°	2873.1	1498.0	52.0	34.5	17.1	10.9	9.7	10.1	11.6	13.6	14.0
62.5°	3338.0	1724.0	45.0	28.7	13.2	8.5	7.8	8.5	10.5	12.8	13.2
65°	3757.5	1815.9	36.8	24.0	10.1	6.6	6.6	7.8	10.1	12.4	12.8
67.5°	3523.7	1528.6	28.7	19.0	7.8	5.0	5.4	7.4	9.7	12.4	12.8
69°	3116.2	1249.9	24.4	15.1	6.6	4.7	5.0	7.4	9.7	12.0	12.4
70°	2798.7	1055.3	21.7	12.8	5.8	4.7	5.0	7.0	9.7	12.0	12.4
72.5°	1874.5	569.9	17.4	9.3	5.4	4.3	4.3	7.0	9.3	11.6	12.0
75°	805.6	157.4	14.0	6.6	4.7	3.9	3.9	6.6	8.9	11.2	12.0
77.5°	147.3	39.9	11.2	5.8	4.7	3.9	3.5	6.2	8.5	10.9	11.2
80°	58.5	19.8	8.9	5.0	4.3	3.5	3.1	5.8	8.1	10.5	10.9
82.5°	35.3	11.2	7.4	4.7	4.3	3.1	2.7	5.0	7.8	10.1	10.5
85°	28.7	7.8	5.8	4.7	3.9	3.1	2.3	4.7	7.0	9.7	10.1
87.5°	14.0	5.4	5.4	4.3	3.9	3.1	2.3	4.3	6.6	9.3	9.7
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)