

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: P647219

Luminaire Tested: **GALN-SA1D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5185 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 65
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: 24 FT



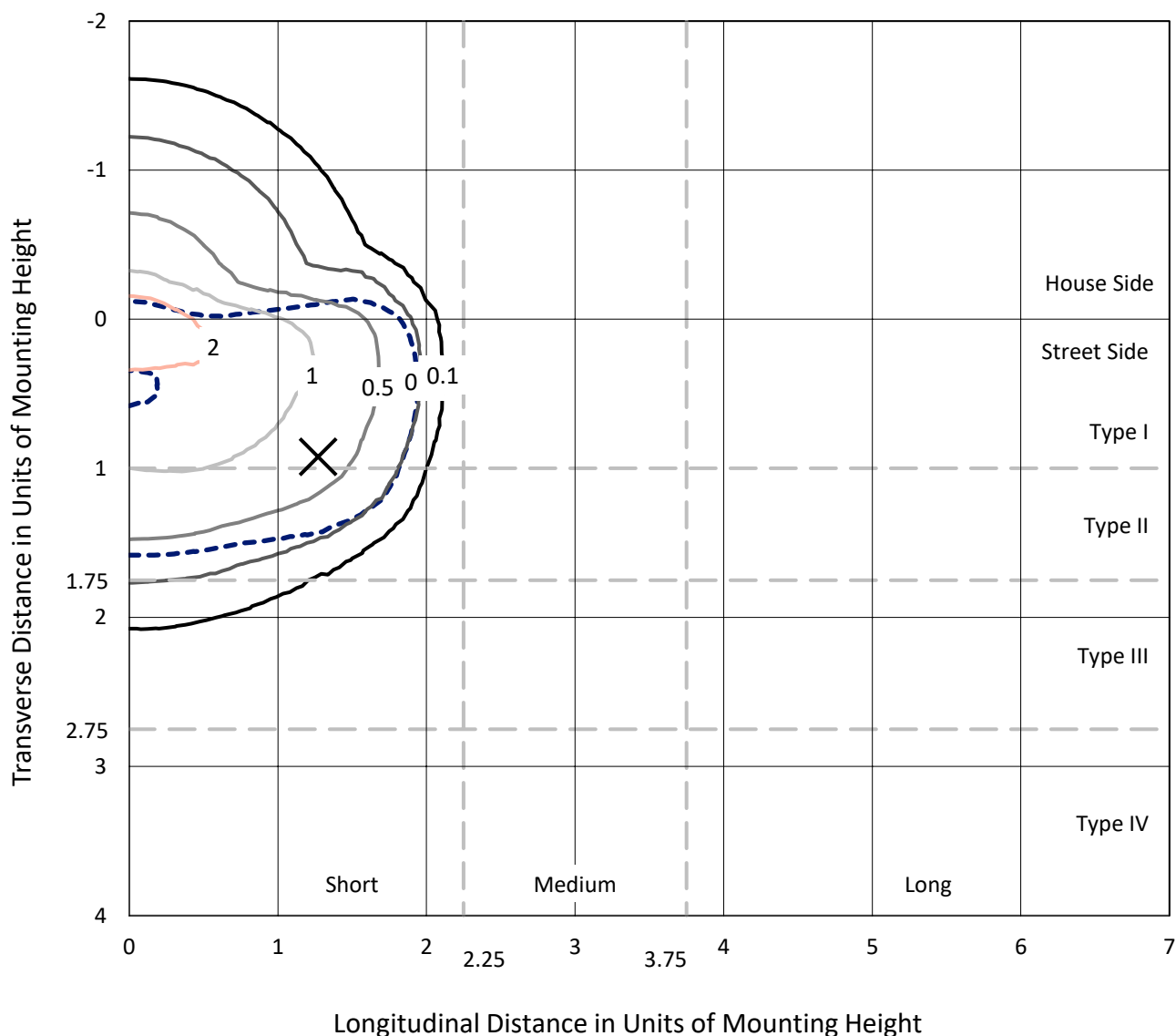
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

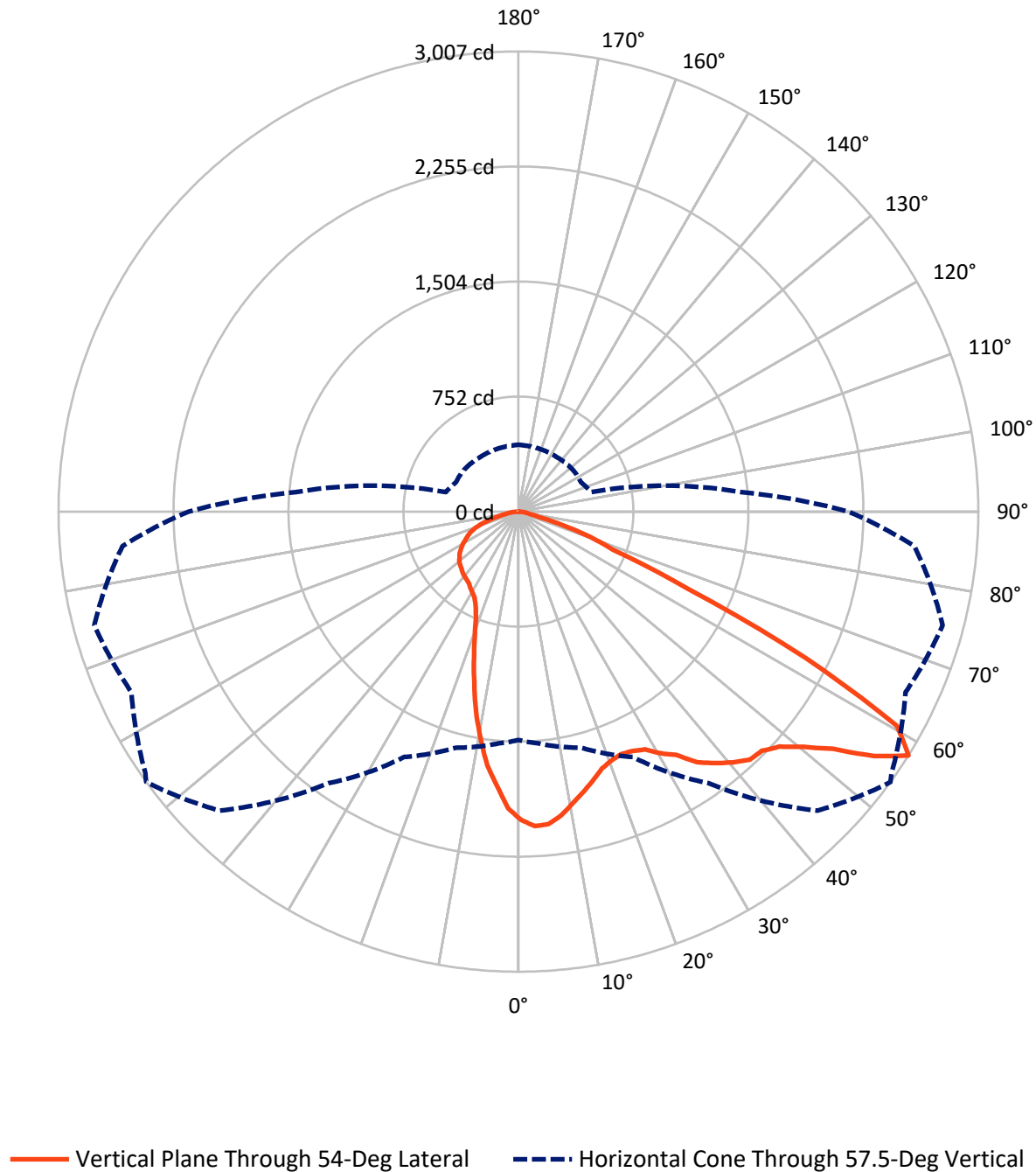


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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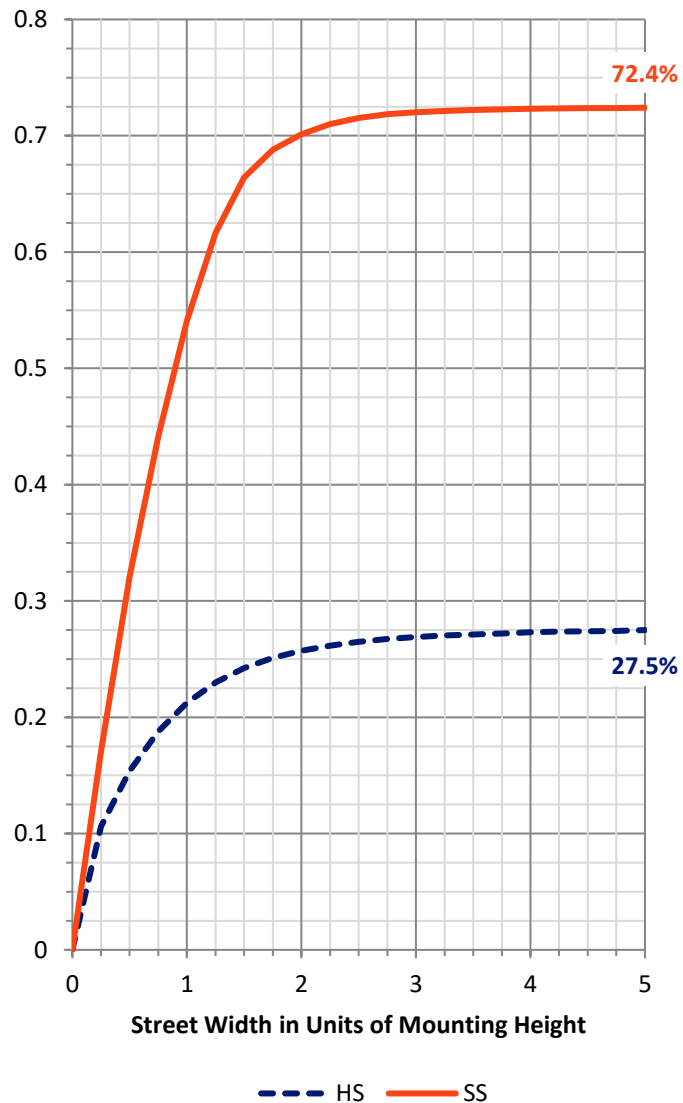
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1434.5	0.0	1434.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3750.6	0.0	3750.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	5185.0	0.0	5185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.4
10°-20°	402.4	7.8
20°-30°	565.4	10.9
30°-40°	790.4	15.2
40°-50°	1070.1	20.6
50°-60°	1303.4	25.1
60°-70°	678.9	13.1
70°-80°	174.0	3.4
80°-90°	26.5	0.5
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°	5185.0	100.0
0°-180°	5185.0	100.0

Coefficient of Utilization



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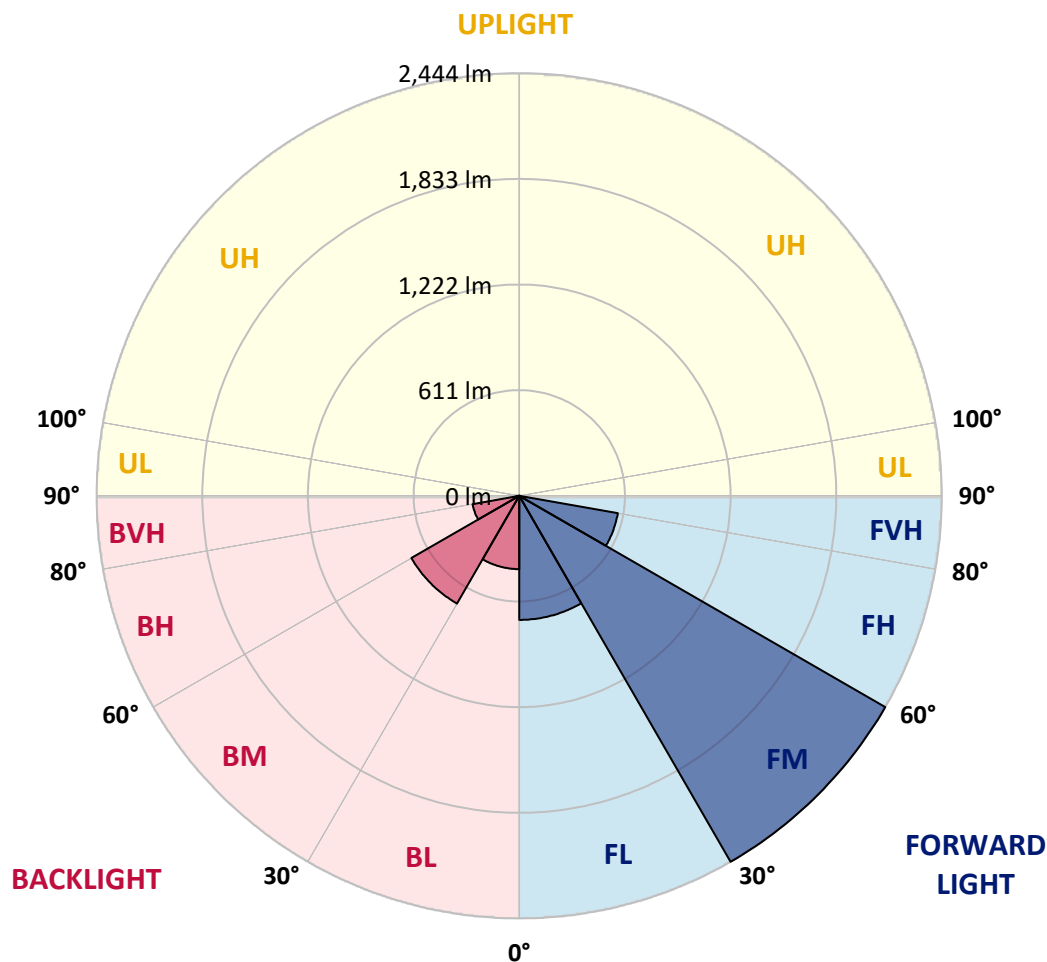
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.7	13.8			
FM	(30°-60°)	2444.1	47.1			
FH	(60°-80°)	578.8	11.2			G0/660
FVH	(80°-90°)	10.0	0.2			G1/100
BL	(0°-30°)	424.0	8.2	B1/500		
BM	(30°-60°)	719.9	13.9	B1/1000		
BH	(60°-80°)	274.1	5.3	B1/500		G1/500
BVH	(80°-90°)	16.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4
2.5°	2072.7	2064.7	2066.0	2076.7	2063.4	2058.0	2058.0	2032.0	2034.0	2016.0	2011.4
5°	2024.7	2006.0	2018.7	2034.7	2037.4	2042.7	2051.4	2044.6	2026.0	2006.7	1975.4
7.5°	1899.4	1916.1	1920.7	1932.1	1956.0	1978.0	2005.3	1986.7	1986.0	1966.7	1948.0
10°	1789.5	1779.4	1804.7	1821.4	1861.4	1898.1	1940.0	1938.1	1948.0	1926.0	1894.1
12.5°	1680.2	1672.2	1684.2	1722.1	1778.1	1831.4	1881.4	1862.8	1916.1	1912.1	1843.4
15°	1564.2	1570.1	1587.5	1622.8	1696.1	1760.1	1823.5	1824.1	1871.4	1887.4	1795.4
17.5°	1482.8	1476.2	1498.2	1550.8	1616.2	1692.8	1764.8	1779.4	1852.1	1861.4	1780.8
20°	1422.2	1431.6	1460.2	1486.8	1562.2	1654.8	1736.1	1741.5	1848.1	1873.4	1757.4
22.5°	1407.5	1402.2	1411.5	1454.9	1516.8	1617.5	1720.8	1740.8	1847.4	1869.4	1713.4
25°	1392.3	1409.6	1408.9	1452.2	1497.5	1587.5	1733.5	1755.4	1882.7	1890.1	1719.5
27.5°	1426.9	1424.9	1443.5	1446.9	1502.9	1595.5	1760.1	1776.8	1941.4	1935.4	1724.1
30°	1461.5	1451.5	1462.9	1502.2	1528.2	1641.5	1833.4	1832.1	2017.3	2013.3	1738.8
32.5°	1504.2	1499.5	1506.9	1541.5	1585.5	1702.8	1895.4	1934.7	2094.7	2120.0	1789.5
35°	1512.2	1531.5	1548.9	1595.5	1658.2	1802.1	2012.0	2044.6	2183.9	2263.3	1886.1
37.5°	1562.9	1570.1	1610.8	1693.5	1750.8	1934.7	2086.0	2106.7	2265.3	2355.3	1988.0
40°	1616.8	1625.5	1686.8	1773.4	1852.1	2021.4	2155.3	2161.9	2291.3	2425.9	2054.7
42.5°	1690.1	1698.1	1758.8	1867.4	1972.7	2095.3	2216.6	2224.0	2289.3	2507.2	2160.6
45°	1766.1	1785.4	1856.7	1980.1	2074.6	2182.0	2230.6	2260.6	2308.0	2579.8	2246.6
47.5°	1872.7	1890.7	1949.4	2070.0	2180.7	2257.9	2295.3	2324.6	2352.6	2643.2	2301.9
50°	1986.0	1989.4	2060.7	2170.0	2251.3	2343.9	2415.9	2425.9	2411.2	2716.5	2395.9
52.5°	2069.3	2080.0	2135.3	2242.0	2363.3	2477.2	2575.8	2586.5	2557.8	2743.8	2427.9
55°	1931.3	1925.4	2015.4	2157.3	2438.6	2675.8	2819.1	2827.1	2664.5	2828.4	2532.5
57.5°	1492.9	1521.5	1598.2	1769.4	2166.6	2763.8	3007.0	2978.4	2792.4	2871.1	2599.2
60°	1085.0	1078.3	1129.6	1244.3	1632.8	2381.9	2843.1	2872.4	2687.8	2587.8	2143.3
62.5°	883.7	874.4	878.4	882.4	1053.7	1580.8	2104.7	2104.0	2070.0	1860.1	1445.6
65°	706.4	728.4	730.5	760.4	782.5	944.4	1219.6	1284.9	1119.0	917.7	665.8
67.5°	532.5	524.5	551.2	657.8	699.1	681.8	665.8	673.1	478.5	345.2	325.3
70°	313.9	310.5	342.6	458.5	575.8	541.8	501.8	502.5	328.5	241.2	268.6
72.5°	171.9	171.2	178.0	232.6	327.2	339.9	301.2	310.5	195.9	195.3	209.9
75°	96.0	94.0	92.0	102.7	118.0	124.7	127.3	128.6	134.6	150.6	156.6
77.5°	35.3	34.0	34.0	39.3	50.0	62.6	79.3	80.6	95.3	109.3	115.3
80°	12.0	13.3	18.0	24.7	33.4	44.6	53.9	55.3	67.3	76.7	78.6
82.5°	7.4	8.0	12.0	17.3	24.0	31.3	40.0	40.6	50.0	56.0	58.6
85°	3.4	4.0	6.7	10.6	15.3	20.7	21.3	21.3	20.7	21.3	20.0
87.5°	0.0	0.0	1.3	1.3	1.3	2.0	2.7	2.0	3.4	4.0	4.0
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°	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4	2015.4
2.5°	1997.4	1990.1	1967.4	1947.4	1941.4	1914.7	1875.4	1880.1	1851.4	1864.7	1850.8
5°	1970.0	1945.4	1887.4	1862.8	1798.1	1768.8	1748.8	1698.8	1675.5	1670.8	1650.8
7.5°	1900.0	1884.8	1812.1	1745.5	1676.8	1618.1	1542.8	1491.5	1454.9	1444.9	1415.6
10°	1844.7	1810.8	1710.2	1608.8	1510.9	1408.9	1310.9	1234.2	1197.0	1153.7	1139.0
12.5°	1790.1	1738.8	1602.8	1472.9	1346.2	1217.6	1099.0	1005.7	924.4	905.1	898.4
15°	1756.1	1666.8	1506.9	1350.2	1170.3	1002.3	883.7	822.4	772.4	751.8	766.4
17.5°	1711.5	1607.5	1414.9	1206.3	1008.3	853.7	754.4	716.4	698.4	700.5	694.4
20°	1655.5	1551.5	1294.2	1075.7	863.7	740.4	683.8	669.8	672.4	677.1	675.1
22.5°	1615.5	1483.6	1206.9	942.3	746.4	677.8	654.4	644.5	653.1	657.1	653.8
25°	1584.8	1425.5	1101.0	824.4	678.5	642.5	631.8	631.1	644.5	649.8	646.4
27.5°	1556.8	1371.6	995.7	734.5	633.1	615.1	611.8	619.8	628.4	633.8	638.5
30°	1540.2	1330.2	897.1	659.1	610.5	601.8	595.8	603.1	607.8	613.2	610.5
32.5°	1556.1	1301.0	801.7	616.5	591.8	583.2	591.2	586.5	594.5	599.2	591.8
35°	1606.2	1275.0	733.7	593.8	570.5	573.8	575.1	573.2	576.4	572.5	581.1
37.5°	1655.5	1265.6	671.1	574.5	560.5	560.5	559.1	555.1	561.8	560.5	564.5
40°	1718.1	1271.6	617.8	553.8	551.2	549.8	544.5	543.8	541.1	541.8	543.2
42.5°	1772.8	1284.9	587.2	540.5	542.5	545.1	535.2	527.2	530.5	523.8	523.8
45°	1830.7	1296.9	559.8	531.2	529.2	528.5	520.5	515.8	513.2	513.8	519.8
47.5°	1922.0	1314.3	539.2	518.5	519.8	509.8	507.9	501.8	504.5	508.5	509.2
50°	1986.7	1350.9	523.2	503.9	508.5	501.8	489.8	487.2	487.2	493.8	492.5
52.5°	2032.0	1402.2	507.9	487.8	489.8	484.5	480.5	474.5	470.5	479.8	484.5
55°	2170.6	1487.5	503.9	474.5	473.9	468.5	461.2	455.2	453.2	454.5	463.8
57.5°	2157.3	1460.8	491.2	451.2	449.8	442.6	435.2	433.2	432.5	433.9	436.5
60°	1751.4	1079.0	438.6	424.5	422.5	421.2	413.9	405.9	401.8	405.9	402.5
62.5°	1159.0	722.5	386.6	392.5	393.8	390.6	378.6	370.5	371.8	376.5	369.2
65°	569.2	424.5	350.5	366.5	367.9	358.5	347.3	337.9	333.2	337.2	333.9
67.5°	325.3	324.6	321.3	337.9	337.2	327.9	309.9	301.9	293.9	295.3	293.2
70°	275.9	281.3	287.9	297.9	297.2	286.6	265.3	259.3	247.9	246.6	243.3
72.5°	217.3	226.6	241.2	248.6	242.6	229.3	215.2	205.3	195.3	189.3	191.3
75°	161.3	174.6	182.6	187.3	178.0	170.6	159.3	147.3	135.3	130.0	127.9
77.5°	117.3	121.3	128.6	131.9	126.0	118.6	112.0	100.0	88.6	81.3	79.3
80°	82.0	84.6	90.0	90.0	90.0	86.7	78.0	66.0	58.6	52.0	50.7
82.5°	57.3	60.0	65.3	62.6	62.0	58.0	52.6	43.3	35.3	30.7	29.4
85°	20.0	22.0	26.6	32.0	34.0	33.4	30.0	24.0	18.6	15.3	14.0
87.5°	4.7	4.7	5.3	4.7	4.7	5.3	4.7	4.7	4.7	3.4	2.7
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)