

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: P451530

Luminaire Tested: **GALN-SA2B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7442 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

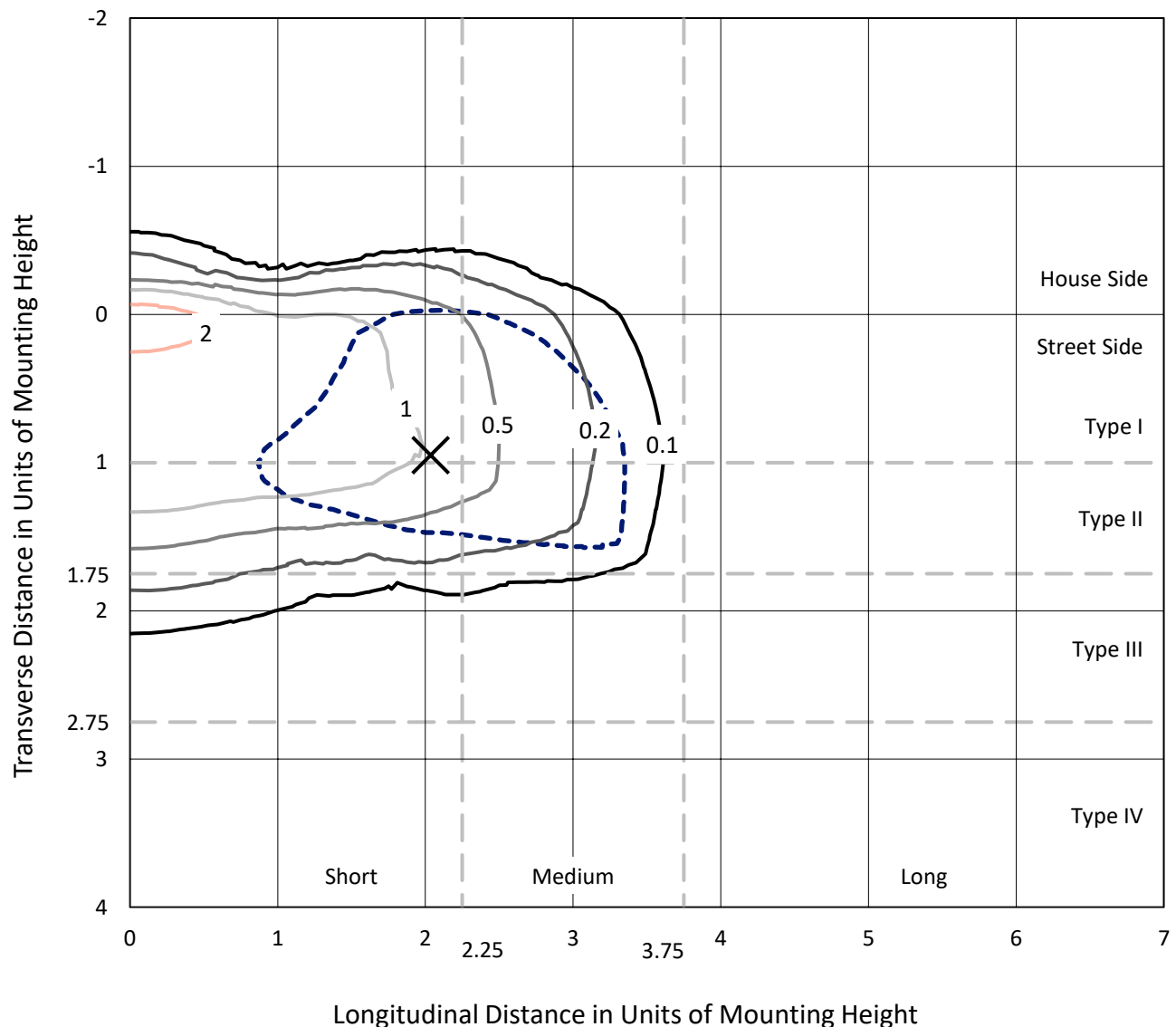


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Iso-Footcandle Lines of Horizontal Illumination

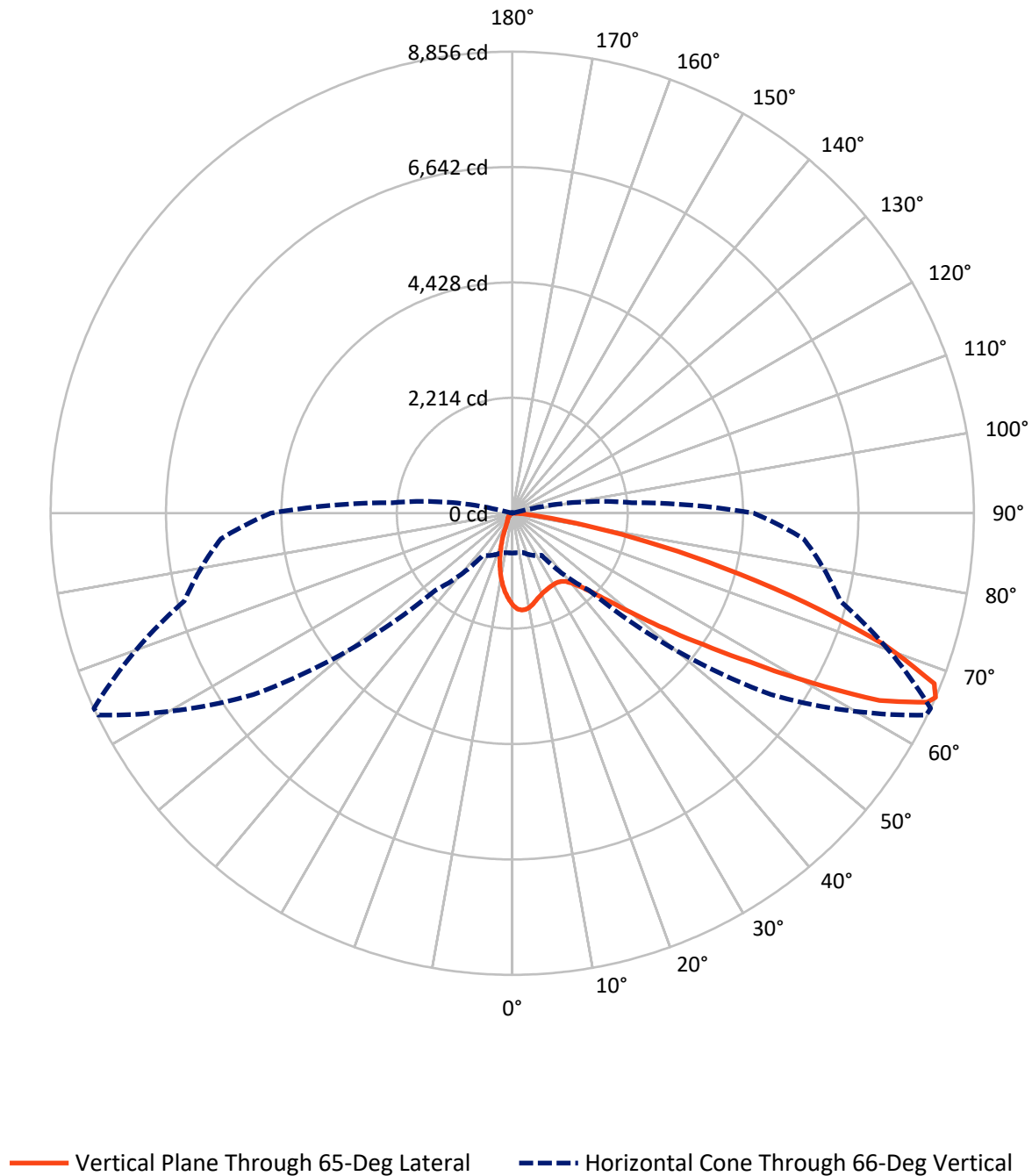
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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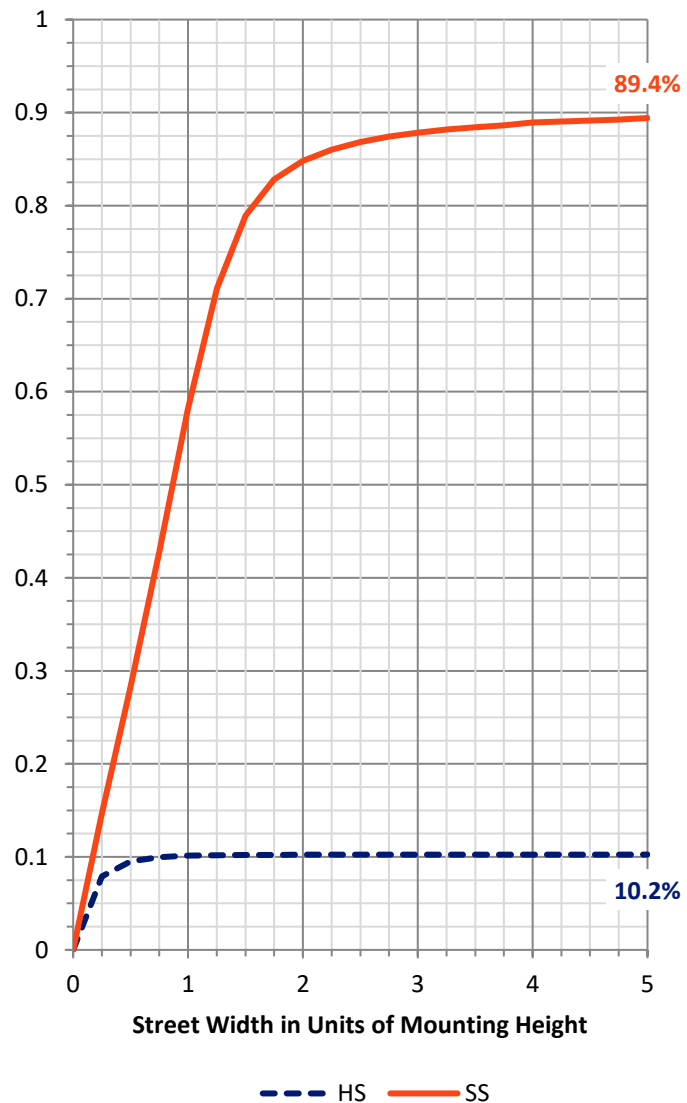
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.6	0.0	769.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6672.4	0.0	6672.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	7442.0	0.0	7442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.9
10°-20°	314.5	4.2
20°-30°	450.5	6.1
30°-40°	658.0	8.8
40°-50°	1103.3	14.8
50°-60°	1841.3	24.7
60°-70°	1954.4	26.3
70°-80°	885.2	11.9
80°-90°	90.6	1.2
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°	7442.0	100.0
0°-180°	7442.0	100.0

Coefficient of Utilization



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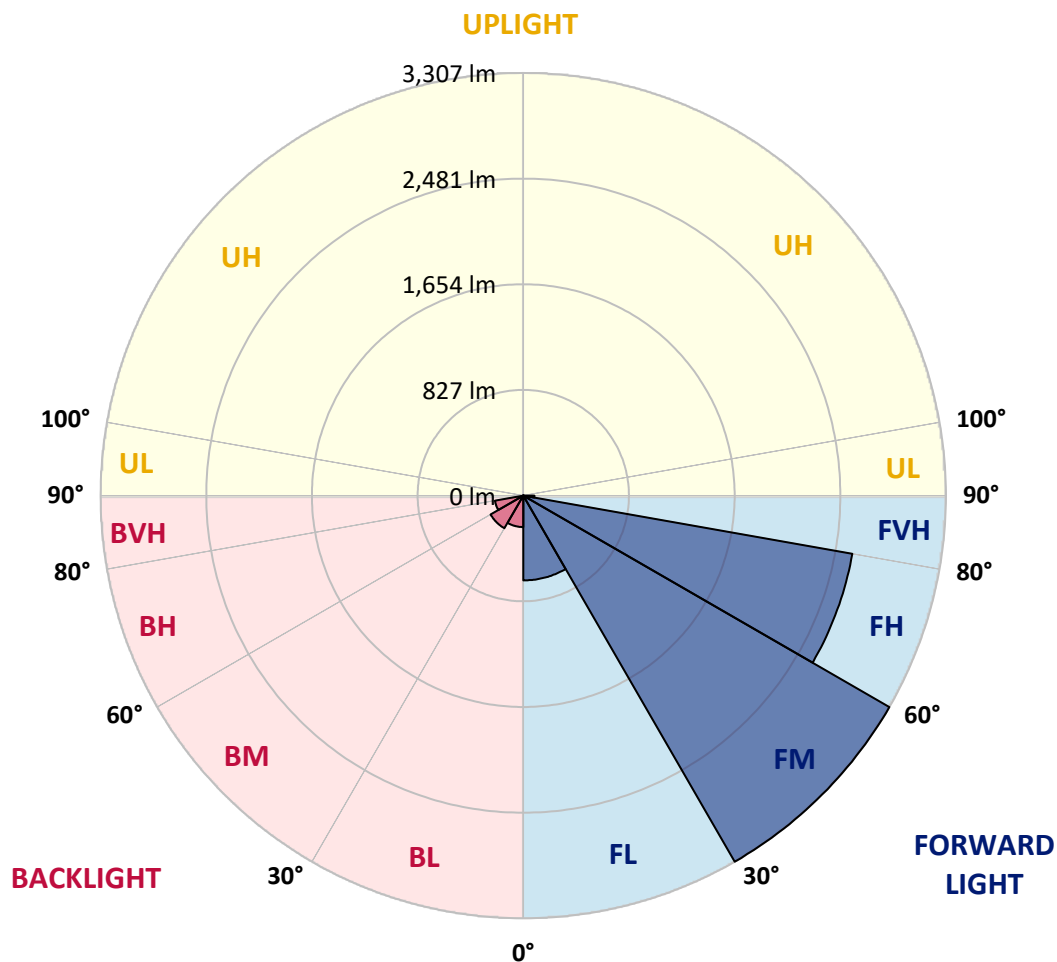
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.1	8.9			
FM	(30°-60°)	3307.4	44.4			
FH	(60°-80°)	2614.2	35.1			G2/5000
FVH	(80°-90°)	87.7	1.2			G1/100
BL	(0°-30°)	246.2	3.3	B1/500		
BM	(30°-60°)	295.2	4.0	B1/1000		
BH	(60°-80°)	225.4	3.0	B1/500		G1/500
BVH	(80°-90°)	2.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
2.5°	1859.8	1861.8	1864.3	1867.8	1870.3	1862.8	1852.2	1840.2	1837.7	1812.0	1780.9
5°	1760.2	1763.3	1785.4	1797.4	1824.6	1849.2	1864.8	1866.8	1865.8	1841.7	1791.9
7.5°	1618.5	1627.0	1648.7	1669.8	1720.5	1767.3	1822.6	1861.3	1863.8	1857.3	1795.4
10°	1503.4	1508.9	1520.0	1561.7	1603.9	1675.3	1752.7	1825.6	1831.6	1857.8	1792.4
12.5°	1413.4	1421.5	1435.0	1467.2	1518.0	1585.3	1673.3	1771.3	1783.9	1848.2	1783.9
15°	1350.6	1354.6	1368.2	1399.9	1449.1	1511.4	1600.4	1714.5	1725.6	1835.6	1782.4
17.5°	1320.9	1325.5	1335.0	1360.1	1400.9	1458.7	1545.6	1668.8	1682.8	1827.6	1787.9
20°	1329.0	1333.0	1333.5	1346.6	1374.2	1423.0	1505.4	1626.0	1644.1	1822.6	1796.9
22.5°	1374.7	1375.2	1369.2	1363.2	1372.7	1407.9	1480.8	1598.9	1617.5	1821.6	1807.5
25°	1443.1	1444.6	1434.5	1413.4	1394.3	1412.4	1475.3	1581.3	1597.9	1819.1	1814.0
27.5°	1537.6	1537.1	1534.1	1498.9	1444.6	1432.5	1479.8	1571.8	1585.8	1812.0	1816.5
30°	1669.8	1665.8	1659.2	1619.5	1536.6	1481.3	1498.9	1565.7	1578.8	1802.0	1810.0
32.5°	1800.0	1815.0	1814.0	1776.3	1672.8	1568.2	1538.6	1573.8	1583.3	1795.4	1800.5
35°	1951.8	1951.3	1990.0	1975.9	1854.7	1679.3	1606.4	1600.4	1607.9	1800.0	1795.9
37.5°	2092.5	2105.6	2165.9	2180.5	2069.9	1836.1	1702.4	1657.7	1660.2	1830.6	1807.0
40°	2267.9	2293.0	2383.0	2431.8	2334.3	2068.9	1844.2	1762.8	1763.3	1906.0	1848.7
42.5°	2494.1	2533.8	2617.8	2699.2	2646.9	2344.3	2056.8	1929.1	1928.1	2038.7	1944.2
45°	2769.0	2796.7	2892.2	3021.4	2988.2	2728.8	2366.4	2187.0	2173.9	2256.4	2113.6
47.5°	3006.3	3044.0	3141.0	3288.3	3439.1	3198.3	2736.4	2541.4	2532.8	2602.7	2404.1
50°	3109.8	3143.0	3245.1	3451.6	3817.1	3814.5	3287.3	3058.6	3044.0	3081.7	2853.5
52.5°	2996.2	3027.4	3130.4	3387.8	3995.0	4565.5	4085.5	3707.5	3689.9	3641.6	3390.3
55°	2607.2	2632.8	2785.1	3080.7	3926.6	5066.1	5185.2	4509.2	4440.8	4253.3	3998.0
57.5°	2075.9	2062.8	2157.3	2500.6	3525.5	5234.0	6314.2	5507.9	5385.8	4782.1	4512.2
60°	1438.6	1478.8	1517.0	1743.2	2650.9	4943.0	7016.4	6763.5	6602.7	5302.4	5004.8
62.5°	1057.6	1084.2	1109.3	1213.9	1666.8	3946.7	7140.5	8053.3	7910.6	5854.8	5474.8
65°	836.4	838.4	848.5	951.5	1098.3	2566.5	6543.9	8780.6	8743.9	6386.6	5665.3
66°	762.0	762.5	778.1	888.7	985.7	2090.0	6065.9	8835.9	8856.0	6514.2	5609.5
67.5°	666.0	664.0	686.6	798.7	897.7	1506.9	5210.4	8611.7	8730.9	6612.2	5408.9
70°	516.2	513.7	541.3	670.0	826.8	1005.3	3463.2	7394.4	7586.4	6411.7	4785.6
72.5°	343.8	345.8	393.1	528.8	789.1	885.2	2083.4	5625.1	5896.5	5294.8	3764.8
75°	200.6	204.1	257.9	393.1	685.1	843.9	1179.2	4011.1	4184.5	3656.2	2345.3
77.5°	105.1	106.6	144.3	259.4	525.3	783.6	785.6	2562.5	2643.9	1776.8	928.4
80°	55.8	54.3	77.4	156.3	361.4	688.1	637.3	1356.6	1410.4	527.8	234.7
82.5°	21.1	23.1	41.2	102.5	213.6	494.1	548.9	599.7	581.1	116.1	98.5
85°	4.0	5.0	17.6	60.8	107.6	206.6	404.6	294.0	272.4	43.7	56.8
87.5°	0.5	1.0	5.0	14.6	15.6	69.9	119.6	81.4	70.4	16.1	23.6
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°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
2.5°	1765.8	1752.2	1707.0	1662.2	1616.5	1575.3	1547.1	1501.4	1489.8	1473.2	1463.7
5°	1762.3	1730.6	1643.6	1548.6	1460.2	1364.7	1291.8	1221.4	1183.7	1164.6	1157.6
7.5°	1752.2	1701.9	1566.2	1417.4	1275.7	1133.0	1008.8	914.3	853.5	811.8	783.6
10°	1732.1	1662.7	1476.3	1271.7	1057.6	869.1	711.7	592.1	499.6	470.5	471.5
12.5°	1711.5	1619.0	1375.7	1109.8	844.4	606.7	439.8	345.3	301.1	286.5	283.5
15°	1692.4	1577.3	1277.2	953.0	628.8	393.1	283.5	250.3	238.3	235.7	235.2
17.5°	1682.3	1538.6	1172.2	773.6	438.8	266.9	227.2	218.1	214.6	212.1	211.1
20°	1673.8	1504.9	1071.6	605.7	300.1	218.6	203.6	195.0	189.0	186.5	185.0
22.5°	1667.8	1470.2	967.6	469.0	229.7	194.0	180.4	169.4	160.8	157.8	155.8
25°	1658.7	1432.0	862.5	342.8	193.5	172.4	156.8	143.8	132.7	127.2	126.2
27.5°	1645.6	1388.8	747.4	253.8	172.9	153.3	134.2	118.1	107.1	101.0	101.5
30°	1624.5	1343.6	632.3	201.6	156.3	133.7	113.1	97.5	87.0	82.4	81.9
32.5°	1599.4	1288.8	526.8	172.9	141.2	116.1	94.5	80.9	72.9	69.4	68.9
35°	1575.8	1233.5	419.2	155.3	125.7	100.0	79.4	67.9	61.8	58.8	59.3
37.5°	1562.7	1184.2	326.7	141.2	113.1	86.0	68.4	58.3	52.8	50.3	49.8
40°	1571.3	1144.0	259.9	128.7	99.0	73.9	58.8	50.3	44.7	41.2	41.2
42.5°	1611.5	1126.4	209.6	116.6	86.0	63.8	51.3	43.2	37.2	33.7	34.2
45°	1734.1	1145.0	175.4	105.6	73.9	55.3	44.2	35.7	30.2	27.6	27.1
47.5°	1937.7	1214.9	151.8	94.0	63.3	47.2	37.2	29.7	24.1	22.1	21.6
50°	2293.6	1359.1	134.2	82.4	53.8	40.2	30.7	23.6	19.1	17.1	17.1
52.5°	2783.1	1673.8	121.6	69.4	45.2	34.2	25.1	19.1	15.1	13.6	13.1
55°	3294.8	2005.5	115.1	58.3	37.7	28.1	20.1	15.1	11.6	10.1	9.6
57.5°	3786.9	2265.9	107.6	47.2	30.2	21.6	15.6	11.6	8.0	7.0	6.5
60°	4258.9	2476.5	91.5	37.7	23.6	15.6	11.6	8.0	5.5	4.5	4.5
62.5°	4681.1	2599.2	71.9	30.2	18.1	11.1	7.5	6.0	4.0	3.0	3.0
65°	4730.4	2439.8	54.3	23.1	13.1	7.0	4.5	4.5	3.0	2.0	2.0
66°	4631.3	2304.6	47.8	21.1	11.6	6.0	4.0	3.5	2.5	1.5	1.5
67.5°	4410.2	2073.9	41.2	18.1	9.6	4.5	3.0	3.0	2.0	1.0	1.0
70°	3810.5	1693.9	32.7	13.6	7.0	3.5	2.0	2.0	1.5	1.0	1.0
72.5°	2904.3	1264.6	26.6	10.1	5.0	2.5	1.5	1.5	1.5	1.0	1.0
75°	1751.7	681.1	20.6	7.5	4.5	2.0	1.0	1.5	2.0	1.5	1.0
77.5°	645.4	231.7	16.1	6.0	3.5	2.0	1.0	1.0	2.0	1.5	1.5
80°	158.3	60.3	11.6	5.0	3.5	2.0	1.0	1.0	2.0	2.0	2.0
82.5°	73.4	25.6	8.0	4.5	3.5	2.0	1.0	1.0	1.5	2.0	2.0
85°	42.2	12.1	6.5	5.0	3.5	2.0	1.0	1.0	1.5	2.0	2.0
87.5°	17.1	6.0	6.0	5.0	4.0	2.5	1.0	1.0	1.0	1.5	1.5
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)