

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: P453407

Luminaire Tested: **GALN-SA4B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12940 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 164
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

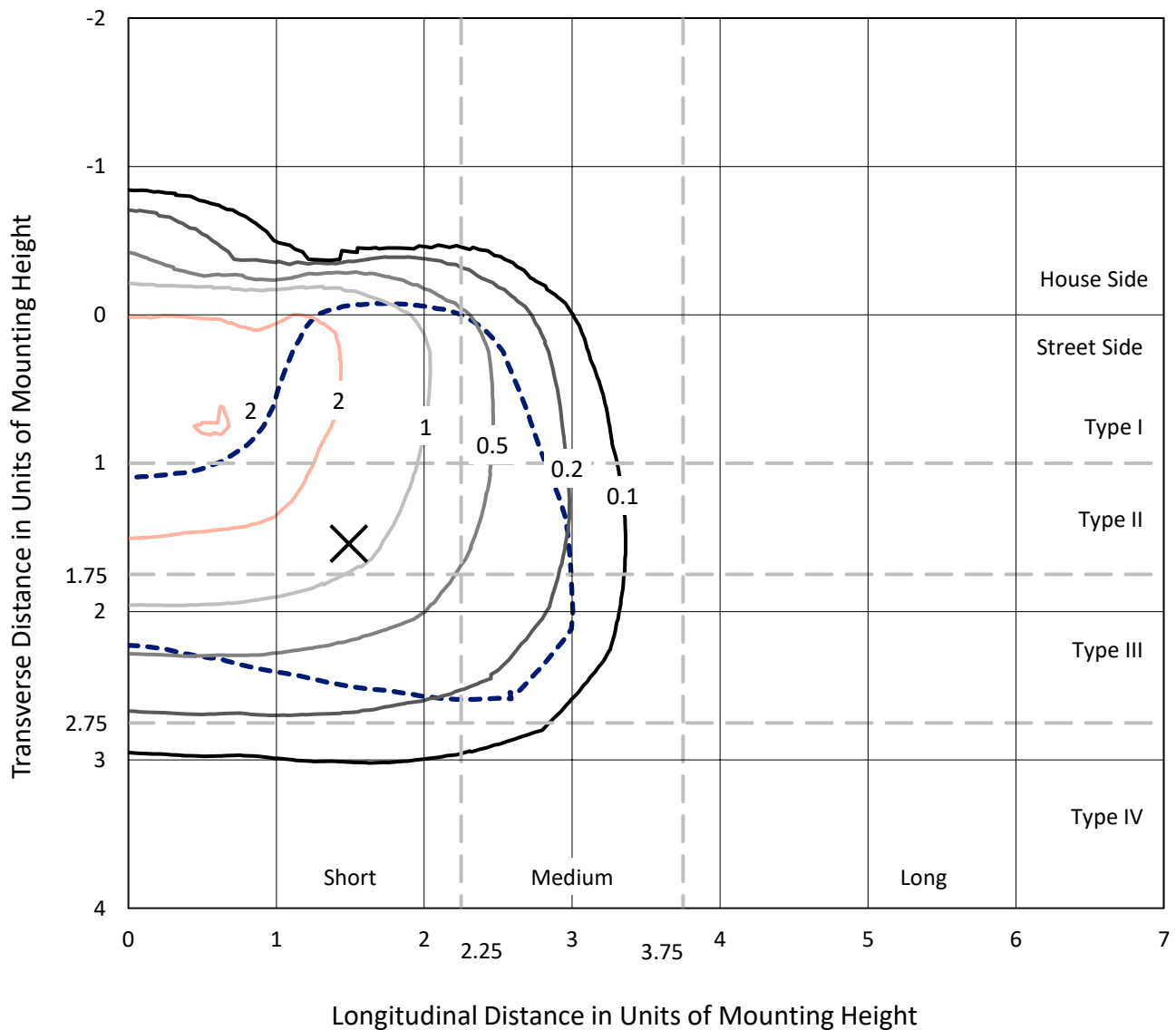


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Iso-Footcandle Lines of Horizontal Illumination

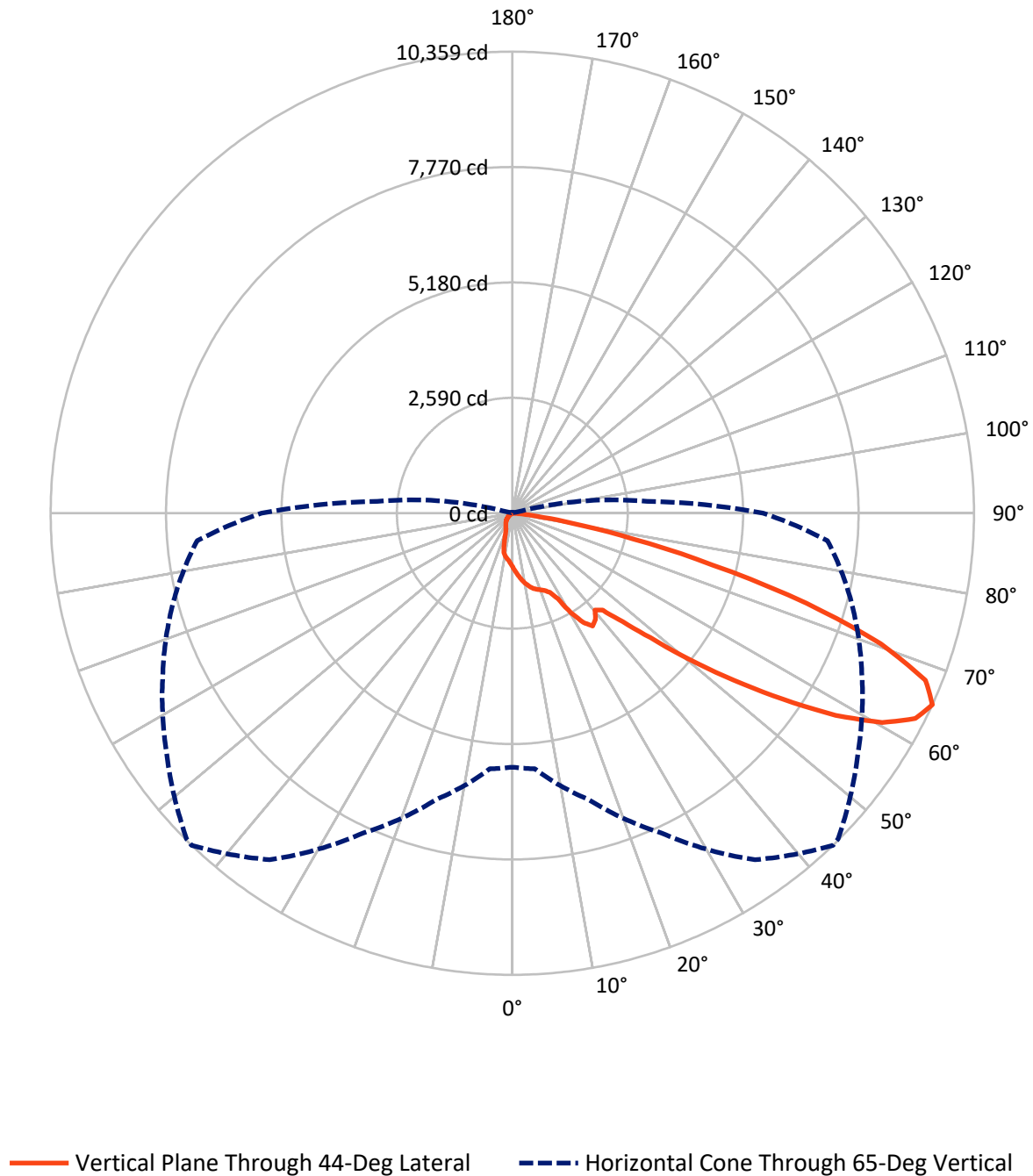
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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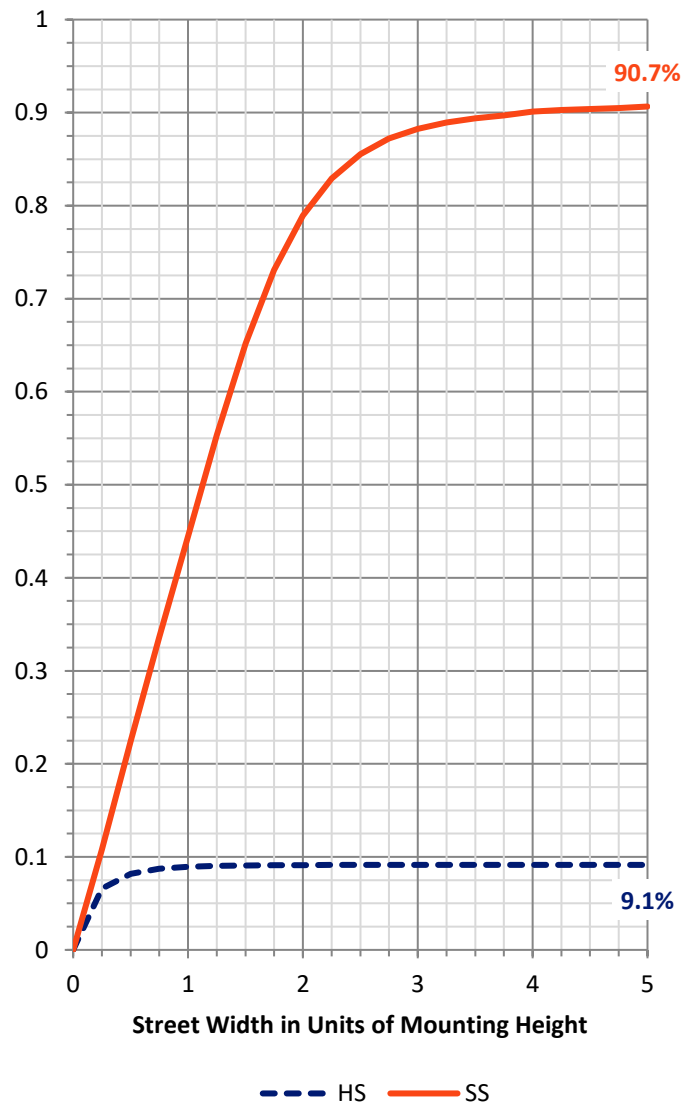
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1192.2	0.0	1192.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11747.8	0.0	11747.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	12940.0	0.0	12940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	0.9
10°-20°	360.5	2.8
20°-30°	611.3	4.7
30°-40°	1016.4	7.9
40°-50°	1774.6	13.7
50°-60°	3467.0	26.8
60°-70°	4022.5	31.1
70°-80°	1464.8	11.3
80°-90°	103.2	0.8
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°	12940.0	100.0
0°-180°	12940.0	100.0

Coefficient of Utilization



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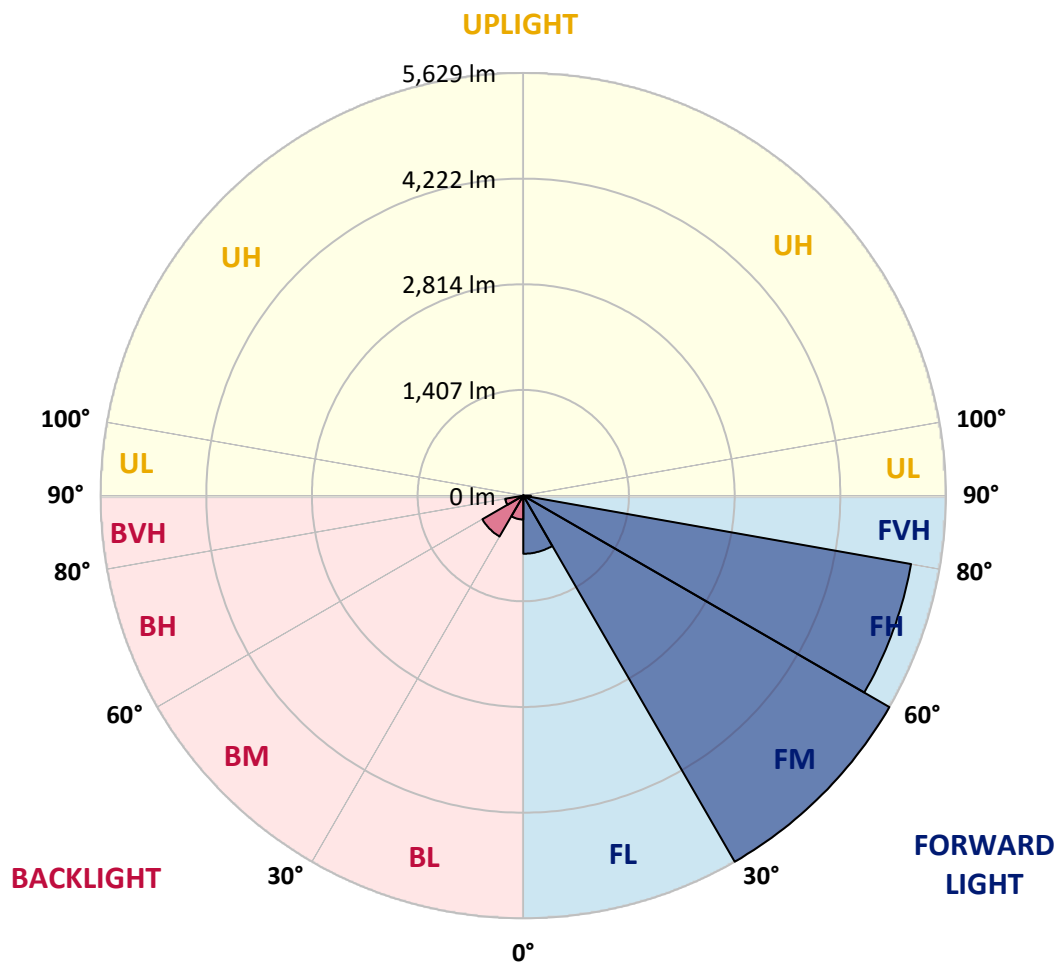
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.9	6.0			
FM	(30°-60°)	5628.9	43.5			
FH	(60°-80°)	5243.1	40.5			G3/7500
FVH	(80°-90°)	101.8	0.8			G2/225
BL	(0°-30°)	317.7	2.5	B1/500		
BM	(30°-60°)	629.0	4.9	B1/1000		
BH	(60°-80°)	244.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1355.6	1349.7	1346.7	1330.9	1319.0	1304.2	1304.2	1285.4	1263.7	1239.9	1218.2
5°	1506.9	1497.0	1484.2	1470.3	1442.6	1403.1	1403.1	1363.5	1318.0	1277.5	1233.0
7.5°	1652.2	1643.3	1621.6	1594.9	1549.4	1507.9	1504.9	1447.6	1393.2	1331.9	1268.6
10°	1779.8	1772.9	1754.1	1702.7	1655.2	1600.8	1599.8	1535.6	1472.3	1397.1	1319.0
12.5°	1868.8	1869.8	1845.1	1795.6	1734.3	1682.9	1678.9	1615.7	1549.4	1468.3	1372.4
15°	1932.1	1932.1	1906.4	1851.0	1795.6	1750.1	1746.2	1690.8	1622.6	1534.6	1430.8
17.5°	1949.9	1955.8	1928.1	1878.7	1834.2	1794.6	1793.6	1747.2	1692.8	1607.7	1490.1
20°	1942.9	1948.9	1927.1	1888.6	1857.9	1835.2	1832.2	1813.4	1763.0	1682.9	1553.4
22.5°	1928.1	1934.0	1918.2	1895.5	1880.7	1887.6	1882.6	1898.4	1871.8	1774.9	1628.5
25°	1931.1	1937.0	1925.1	1912.3	1925.1	1967.7	1980.5	2048.7	2025.0	1891.5	1709.6
27.5°	2024.0	2035.9	2019.1	2025.0	2070.5	2169.4	2194.1	2311.8	2206.9	2039.8	1836.2
30°	2230.7	2222.8	2191.1	2219.8	2378.0	2587.6	2580.7	2561.9	2397.8	2210.9	1986.4
32.5°	2418.5	2411.6	2409.6	2533.2	2820.0	2921.8	2916.9	2735.0	2568.8	2406.7	2134.8
35°	2494.7	2468.0	2462.1	2761.6	3241.2	3106.7	3076.1	2806.1	2776.5	2620.3	2286.0
37.5°	2724.1	2705.3	2613.3	2799.2	3073.1	3028.6	3004.9	2928.8	2998.0	2809.1	2457.1
40°	3196.7	3144.3	3061.2	2879.3	2834.8	2853.6	2877.3	3086.0	3260.0	3067.2	2685.5
42.5°	3784.0	3772.2	3617.9	3278.8	2945.6	2971.3	3001.9	3414.2	3636.7	3455.8	3058.3
45°	4489.0	4505.8	4283.4	3882.9	3445.9	3467.6	3512.1	3898.7	4146.9	4059.9	3644.6
47.5°	5129.8	5116.9	5041.8	4625.5	4222.1	4173.6	4245.8	4520.7	4852.9	4866.8	4372.4
50°	5774.4	5842.7	5730.9	5567.8	5268.2	5166.3	5139.7	5274.1	5780.4	5714.1	5246.4
52.5°	6700.9	6736.5	6526.9	6485.4	6553.6	6223.4	6196.7	6229.3	6682.1	6454.7	5901.0
55°	7283.3	7262.6	7184.4	7508.8	7778.7	7366.4	7332.8	7201.2	7430.6	6977.8	6530.9
57.5°	7467.2	7496.9	7678.8	8265.2	8903.9	8553.9	8492.6	8118.8	7970.5	7465.3	7110.3
60°	7385.2	7439.5	7832.1	8704.2	9590.1	9537.7	9485.3	8857.4	8358.1	7872.6	7516.7
62.5°	6800.8	6876.9	7504.8	8626.1	9822.5	10149.8	10084.5	9318.2	8616.2	8070.4	7587.9
65°	5699.3	5755.7	6657.4	7917.1	9492.2	10359.4	10335.7	9462.6	8656.7	7889.4	7100.4
67.5°	4062.9	4254.7	5090.2	6672.3	8515.3	10001.5	10042.0	9289.5	8276.0	7107.3	5880.2
70°	2554.0	2684.5	3283.7	4776.8	6826.5	8774.4	8907.9	8497.5	7182.5	5540.1	3936.3
72.5°	1218.2	1315.1	1742.2	3023.7	4818.3	6903.6	7009.4	6975.8	5553.9	3490.4	2030.9
75°	542.8	579.4	831.6	1543.5	3110.7	4640.3	4914.2	4959.7	3470.6	1707.6	790.0
77.5°	276.9	277.8	389.6	747.5	1553.4	2768.6	2823.0	2982.1	1881.6	752.5	274.9
80°	147.3	157.2	206.7	353.0	805.9	1363.5	1356.6	1491.1	834.5	368.8	92.0
82.5°	66.2	73.2	116.7	184.9	393.5	517.1	557.7	610.1	357.9	235.3	40.5
85°	19.8	23.7	57.3	92.9	142.4	149.3	167.1	215.6	202.7	167.1	20.8
87.5°	3.0	3.0	23.7	25.7	20.8	26.7	27.7	30.7	65.3	61.3	10.9
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°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1206.3	1199.4	1174.7	1153.9	1136.1	1125.2	1112.4	1104.5	1100.5	1097.5	1098.5
5°	1211.2	1194.4	1151.9	1118.3	1092.6	1064.9	1046.1	1035.2	1030.3	1022.4	1022.4
7.5°	1238.9	1212.2	1152.9	1101.5	1057.0	1019.4	983.8	971.0	962.1	960.1	958.1
10°	1278.5	1244.9	1163.8	1092.6	1029.3	977.9	927.5	883.0	848.4	827.6	824.6
12.5°	1327.9	1279.5	1180.6	1086.7	1005.6	914.6	781.1	691.2	630.8	612.1	615.0
15°	1373.4	1321.0	1197.4	1081.7	962.1	758.4	607.1	504.3	473.6	470.7	471.6
17.5°	1427.8	1365.5	1217.2	1074.8	842.4	579.4	450.9	423.2	429.1	439.0	438.0
20°	1484.2	1413.0	1240.9	1033.3	672.4	436.0	398.5	401.4	410.3	419.2	421.2
22.5°	1544.5	1467.3	1268.6	933.4	513.2	379.7	377.7	381.7	390.6	400.5	402.4
25°	1627.5	1535.6	1289.4	802.9	388.6	351.0	355.0	361.9	369.8	380.7	382.7
27.5°	1734.3	1627.5	1300.2	632.8	336.2	325.3	326.3	336.2	346.1	356.0	356.0
30°	1872.7	1737.3	1278.5	478.6	310.5	300.6	296.6	302.6	315.4	325.3	326.3
32.5°	1996.3	1841.1	1221.1	365.8	291.7	277.8	268.0	268.9	273.9	279.8	280.8
35°	2119.9	1942.0	1123.2	307.5	271.9	256.1	241.3	233.4	229.4	226.4	229.4
37.5°	2278.1	2067.5	992.7	279.8	255.1	235.3	214.6	197.8	183.9	175.0	177.0
40°	2481.8	2241.6	838.5	262.0	239.3	215.6	187.9	166.1	142.4	134.5	130.5
42.5°	2818.0	2505.6	676.3	247.2	223.5	194.8	160.2	130.5	108.8	100.9	102.8
45°	3349.0	2838.8	521.1	231.4	207.6	172.0	134.5	102.8	85.0	81.1	83.1
47.5°	4053.0	3269.9	401.4	213.6	187.9	147.3	105.8	81.1	70.2	69.2	68.2
50°	4715.5	3671.3	335.2	193.8	164.1	122.6	87.0	68.2	61.3	60.3	60.3
52.5°	5314.7	3959.1	272.9	171.1	138.4	100.9	73.2	60.3	54.4	51.4	51.4
55°	5847.6	4146.9	221.5	143.4	108.8	80.1	63.3	54.4	47.5	43.5	42.5
57.5°	6250.0	4169.7	166.1	114.7	81.1	62.3	54.4	47.5	39.6	34.6	32.6
60°	6422.1	3972.9	122.6	87.0	60.3	49.4	43.5	38.6	29.7	24.7	23.7
62.5°	6249.1	3590.2	91.0	66.2	46.5	36.6	30.7	28.7	20.8	14.8	13.8
65°	5629.1	3037.5	72.2	50.4	34.6	26.7	19.8	18.8	12.9	6.9	5.9
67.5°	4509.8	2379.0	57.3	37.6	24.7	17.8	12.9	11.9	6.9	2.0	2.0
70°	2932.7	1520.7	46.5	27.7	15.8	11.9	7.9	5.9	4.0	1.0	0.0
72.5°	1450.5	710.9	37.6	21.8	10.9	5.9	3.0	2.0	3.0	0.0	0.0
75°	562.6	253.1	27.7	14.8	5.9	3.0	2.0	0.0	1.0	0.0	0.0
77.5°	186.9	84.0	16.8	7.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	69.2	32.6	8.9	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.7	12.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	7.9	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	5.9	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
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)