

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: P451309

Luminaire Tested: **GALN-SA2A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5463 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 63
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

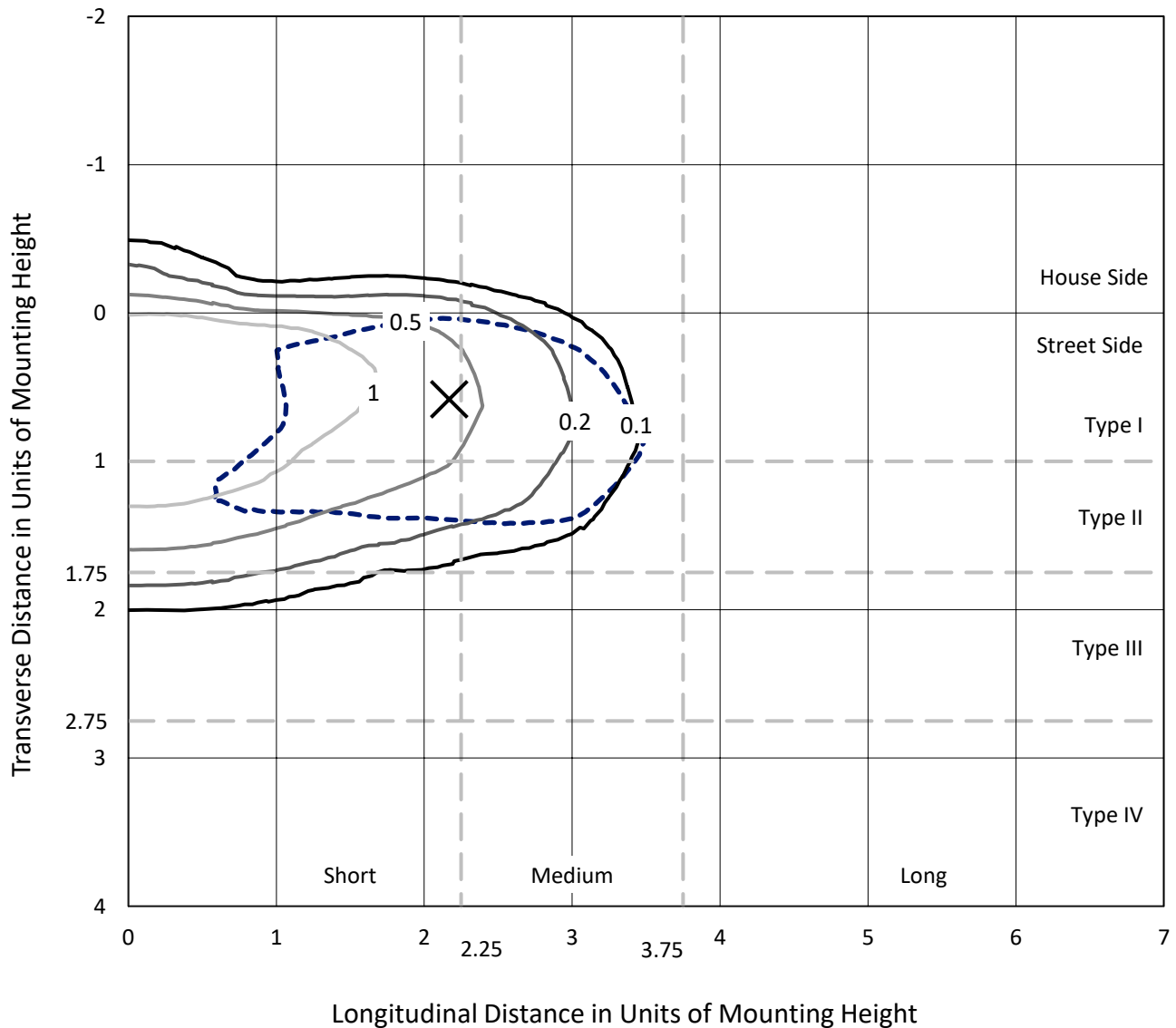


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

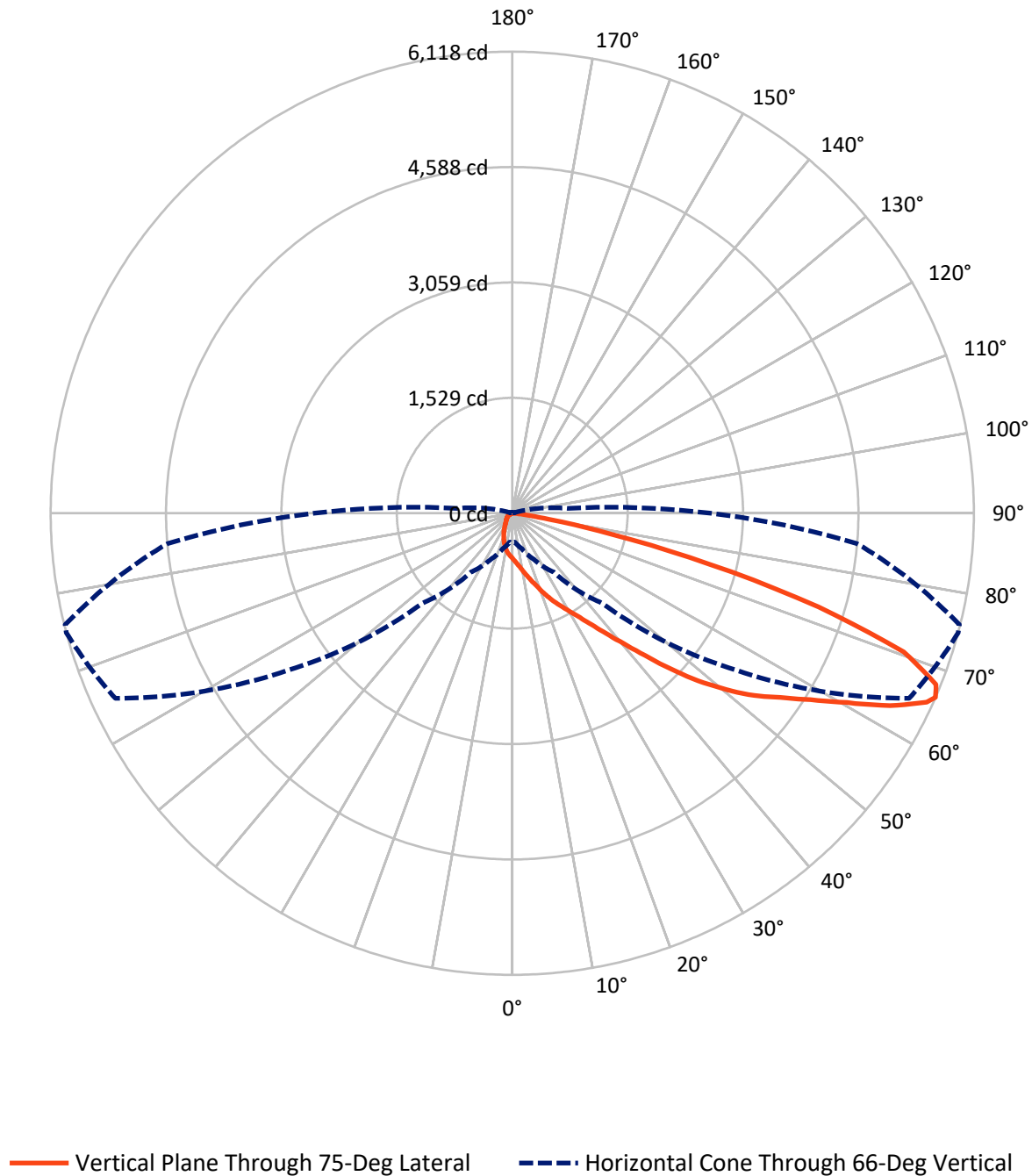


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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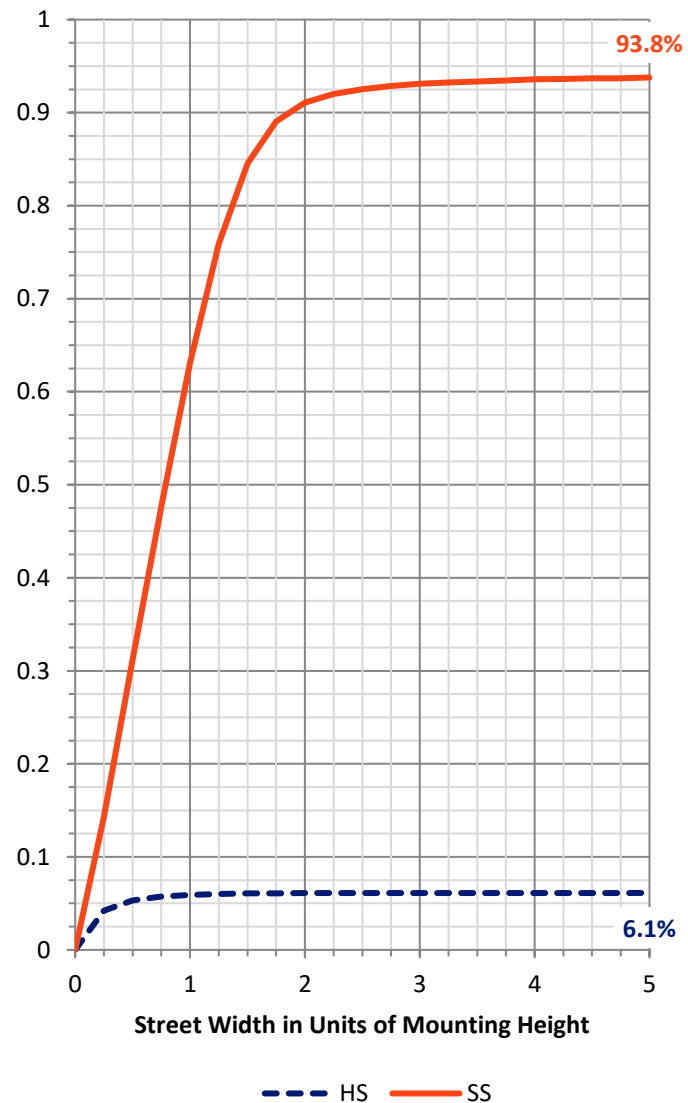
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	337.2	0.0	337.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5125.7	0.0	5125.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	5463.0	0.0	5463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.1
10°-20°	169.6	3.1
20°-30°	292.8	5.4
30°-40°	528.2	9.7
40°-50°	954.3	17.5
50°-60°	1487.7	27.2
60°-70°	1413.2	25.9
70°-80°	529.6	9.7
80°-90°	29.9	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°	5463.0	100.0
0°-180°	5463.0	100.0

Coefficient of Utilization



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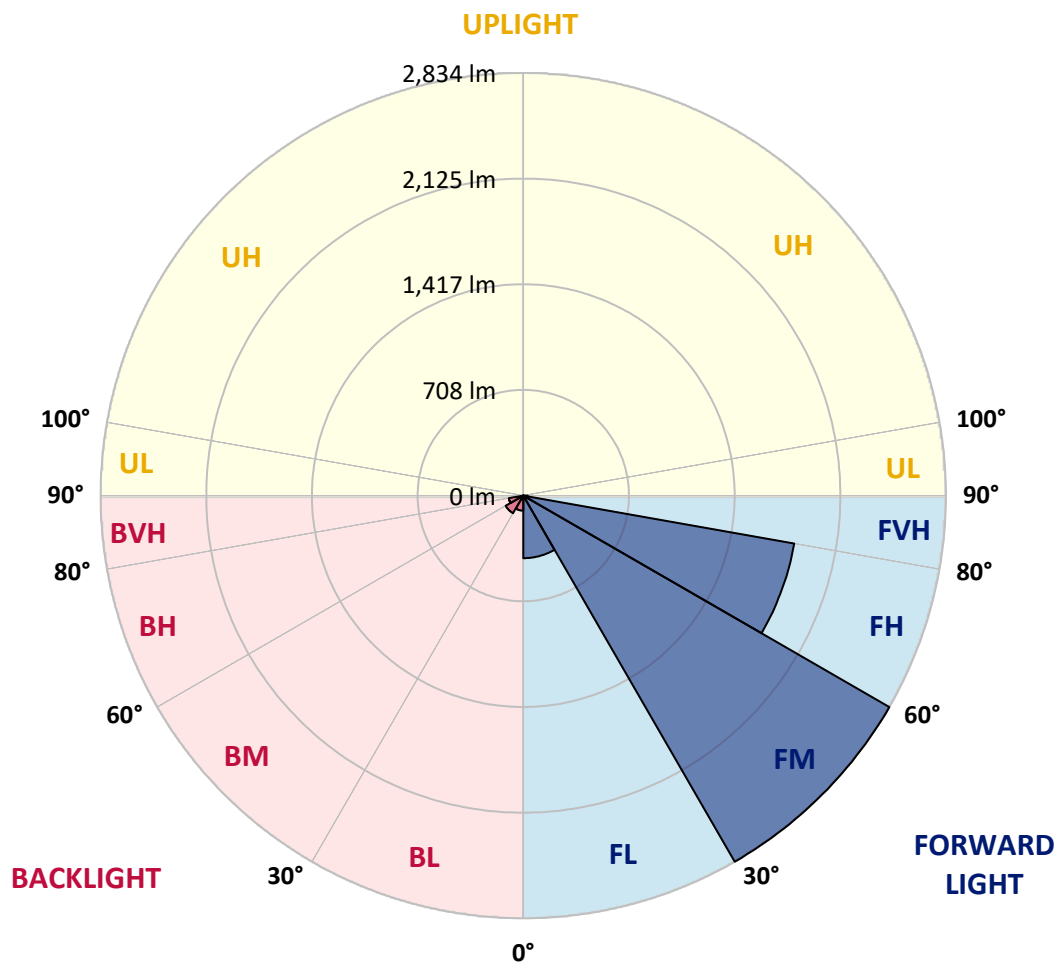
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.3	7.7			
FM	(30°-60°)	2833.7	51.9			
FH	(60°-80°)	1844.4	33.8			G2/5000
FVH	(80°-90°)	28.3	0.5			G1/100
BL	(0°-30°)	100.7	1.8	B0/110		
BM	(30°-60°)	136.5	2.5	B0/220		
BH	(60°-80°)	98.5	1.8	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	713.8	704.9	707.7	703.7	694.4	680.6	668.5	651.2	633.8	631.0	611.6
5°	807.9	805.5	802.2	790.5	784.1	763.1	738.0	708.1	672.2	665.7	630.6
7.5°	872.1	870.9	872.5	866.5	860.8	841.8	815.2	774.4	718.6	715.0	656.4
10°	893.1	896.4	902.4	912.1	921.0	914.9	894.7	843.8	778.8	768.3	685.9
12.5°	881.0	884.6	899.2	925.0	953.7	970.3	962.2	925.0	842.6	834.1	719.0
15°	849.9	854.3	874.9	914.9	966.2	1013.1	1033.3	1006.6	917.0	903.2	759.0
17.5°	803.8	810.3	839.8	892.7	963.0	1043.8	1100.7	1091.9	996.1	983.2	802.6
20°	769.1	774.0	799.0	859.6	949.3	1060.8	1165.0	1190.0	1093.9	1071.7	853.9
22.5°	792.1	793.7	802.2	838.6	924.6	1065.2	1221.5	1292.2	1197.7	1177.9	907.3
25°	904.8	888.7	880.2	872.1	919.4	1061.2	1272.8	1398.9	1301.1	1280.1	960.2
27.5°	1082.6	1075.3	1032.5	975.1	964.2	1066.4	1306.8	1499.8	1398.5	1375.8	1011.9
30°	1276.1	1263.5	1237.3	1153.3	1068.8	1103.6	1331.4	1598.0	1513.6	1483.7	1059.1
32.5°	1453.8	1461.9	1422.7	1336.2	1238.5	1182.7	1363.3	1705.0	1645.7	1608.5	1114.1
35°	1661.0	1677.2	1617.0	1534.2	1419.9	1325.7	1425.5	1825.8	1813.3	1766.4	1198.9
37.5°	1871.5	1881.2	1844.4	1728.1	1625.1	1507.5	1542.7	1974.9	2019.7	1979.7	1300.3
40°	2048.4	2061.7	2034.7	1931.3	1821.4	1718.0	1712.7	2137.3	2265.3	2224.1	1451.4
42.5°	2183.7	2193.8	2194.6	2121.5	2022.5	1975.7	1929.6	2344.5	2573.1	2525.5	1626.7
45°	2354.6	2369.1	2360.6	2311.0	2237.0	2228.6	2204.7	2594.9	2941.5	2881.3	1854.1
47.5°	2618.8	2628.5	2607.5	2548.9	2473.8	2487.1	2472.9	2875.7	3317.2	3265.5	2089.6
50°	2802.2	2818.3	2848.2	2871.6	2817.1	2767.8	2725.8	3137.8	3673.9	3627.4	2330.4
52.5°	2800.1	2826.8	2921.3	3039.3	3158.4	3143.5	3022.7	3427.5	4014.4	3957.0	2556.6
55°	2611.5	2663.2	2802.2	3011.4	3341.4	3505.8	3450.9	3762.7	4308.5	4269.7	2818.7
57.5°	2222.1	2253.6	2446.7	2739.1	3239.2	3676.3	3946.9	4217.2	4661.1	4642.9	3225.9
60°	1494.6	1508.7	1757.2	2118.7	2757.7	3506.2	4310.5	4766.9	5095.3	5086.5	3701.3
62.5°	856.4	862.4	1042.6	1347.6	1962.4	2971.4	4341.2	5445.2	5616.0	5620.9	4251.5
65°	460.9	464.1	609.6	790.9	1194.1	2117.9	3903.7	5816.8	6036.9	6046.2	4592.4
66°	397.9	382.5	485.1	674.2	950.1	1685.7	3627.0	5803.5	6117.7	6107.6	4580.3
67.5°	302.6	316.3	387.4	518.3	704.1	1198.5	2994.4	5545.3	6056.3	6024.8	4394.1
70°	216.5	222.2	275.9	369.6	479.5	657.6	1913.5	4605.8	5504.5	5462.1	3828.2
72.5°	139.8	145.8	195.5	267.4	346.6	359.1	1071.3	3327.7	4243.8	4237.8	2882.9
75°	99.8	105.4	129.3	191.5	260.5	222.2	515.8	2242.7	2697.9	2679.8	1783.4
77.5°	72.3	75.1	86.4	125.2	186.2	159.2	239.1	1197.7	1343.1	1406.5	788.1
80°	41.6	44.0	60.2	76.3	126.0	108.7	114.3	480.7	495.6	471.8	246.4
82.5°	20.6	23.4	36.0	52.1	78.8	73.1	52.5	144.6	152.7	148.7	62.2
85°	4.8	6.1	20.2	34.3	38.4	32.7	25.4	42.4	52.5	51.3	23.8
87.5°	0.4	0.8	7.3	6.1	6.5	10.9	8.9	10.9	17.0	15.8	8.5
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°	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4	597.4
2.5°	602.7	595.0	572.8	551.0	532.8	513.8	496.4	486.3	482.3	477.9	479.9
5°	611.2	592.6	547.7	509.0	471.0	438.7	412.8	396.3	388.2	387.0	385.0
7.5°	622.5	590.6	521.1	460.5	410.8	374.9	345.4	321.5	314.3	307.8	302.6
10°	636.2	586.9	488.0	409.6	356.7	311.4	272.7	244.4	229.8	225.8	228.6
12.5°	650.8	580.1	453.2	362.7	301.7	244.0	208.0	193.9	189.9	188.2	188.6
15°	665.3	571.6	416.9	317.5	240.3	194.7	178.1	174.5	172.9	172.1	171.3
17.5°	678.6	557.8	376.1	273.5	194.7	166.4	160.4	157.1	153.9	152.7	150.7
20°	694.4	542.1	339.3	224.2	164.8	150.7	143.4	137.3	132.5	129.3	128.9
22.5°	709.3	521.9	300.9	185.8	150.3	135.3	123.6	117.1	111.5	107.4	108.7
25°	717.4	497.3	266.6	162.0	136.9	120.0	107.0	99.0	92.9	90.9	90.5
27.5°	717.4	467.0	233.1	148.2	124.8	106.2	92.9	85.2	81.2	78.4	78.8
30°	711.7	433.4	202.0	137.7	114.3	94.1	81.6	74.7	71.5	69.5	69.1
32.5°	707.3	401.5	175.3	127.6	103.4	83.6	72.7	67.5	64.2	62.2	62.2
35°	714.2	374.1	154.7	117.5	93.3	75.5	65.8	61.0	57.8	56.1	55.7
37.5°	732.4	349.0	139.0	106.6	84.0	68.7	61.0	55.3	52.1	50.1	49.3
40°	777.2	334.9	127.2	96.5	75.1	63.0	55.3	50.1	46.0	44.0	43.6
42.5°	849.1	335.3	115.9	87.3	68.3	58.2	50.5	44.4	40.0	38.0	37.6
45°	957.3	350.6	107.0	78.4	62.2	52.9	45.2	38.8	34.7	32.7	32.7
47.5°	1087.0	380.5	99.4	70.7	56.6	48.1	40.0	33.5	29.5	27.9	27.9
50°	1227.6	419.3	91.7	62.6	51.7	42.8	34.3	29.1	25.9	24.6	24.6
52.5°	1371.0	466.2	84.0	56.1	46.5	37.2	29.5	25.9	23.0	22.2	21.8
55°	1559.2	525.9	75.9	49.3	40.8	31.9	26.3	22.6	19.4	18.2	17.8
57.5°	1848.9	616.0	67.1	43.2	33.5	26.7	22.6	19.0	15.3	13.3	12.9
60°	2198.3	725.9	57.8	38.0	27.1	21.8	18.2	14.5	11.3	8.9	8.5
62.5°	2525.5	795.8	48.9	31.9	21.4	16.6	12.9	10.9	8.1	5.7	5.3
65°	2670.1	772.3	40.4	25.9	17.0	11.7	8.5	7.7	4.8	2.4	2.0
66°	2622.0	737.6	37.2	23.4	15.3	10.1	7.3	6.5	3.6	1.2	1.2
67.5°	2480.2	655.6	32.3	20.2	13.3	8.1	5.7	4.8	2.0	0.4	0.0
70°	2125.1	530.4	25.4	14.9	9.7	5.7	3.2	2.4	1.2	0.0	0.0
72.5°	1632.3	395.1	20.2	11.3	6.9	3.2	1.6	0.8	1.2	0.0	0.0
75°	1000.2	225.8	15.8	8.5	4.4	2.0	1.2	0.0	1.2	0.4	0.0
77.5°	443.9	101.4	10.5	5.7	3.2	1.6	0.8	0.0	0.8	0.4	0.0
80°	112.3	33.1	6.1	4.0	2.4	1.2	0.4	0.0	0.8	0.8	0.4
82.5°	30.7	12.1	4.4	3.2	2.0	1.2	0.4	0.0	0.8	0.8	0.8
85°	12.1	5.7	4.0	3.2	2.4	1.2	0.4	0.0	0.8	0.8	0.8
87.5°	5.7	4.0	4.0	3.6	2.8	1.2	0.4	0.0	0.8	0.4	0.8
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)