

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: P457805

Luminaire Tested: **GALN-SA9A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457805
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-SA9A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 24628 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 274
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

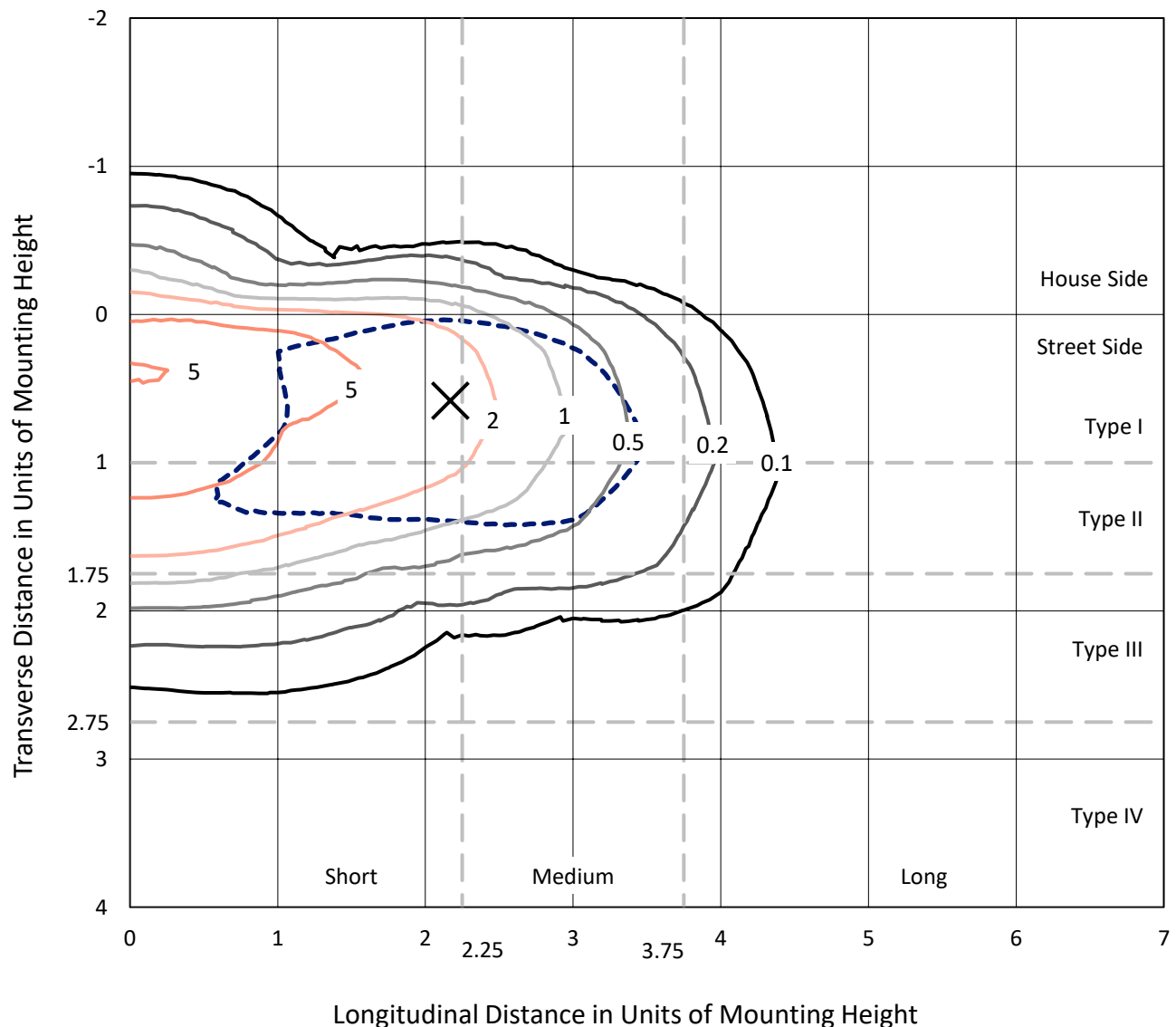


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

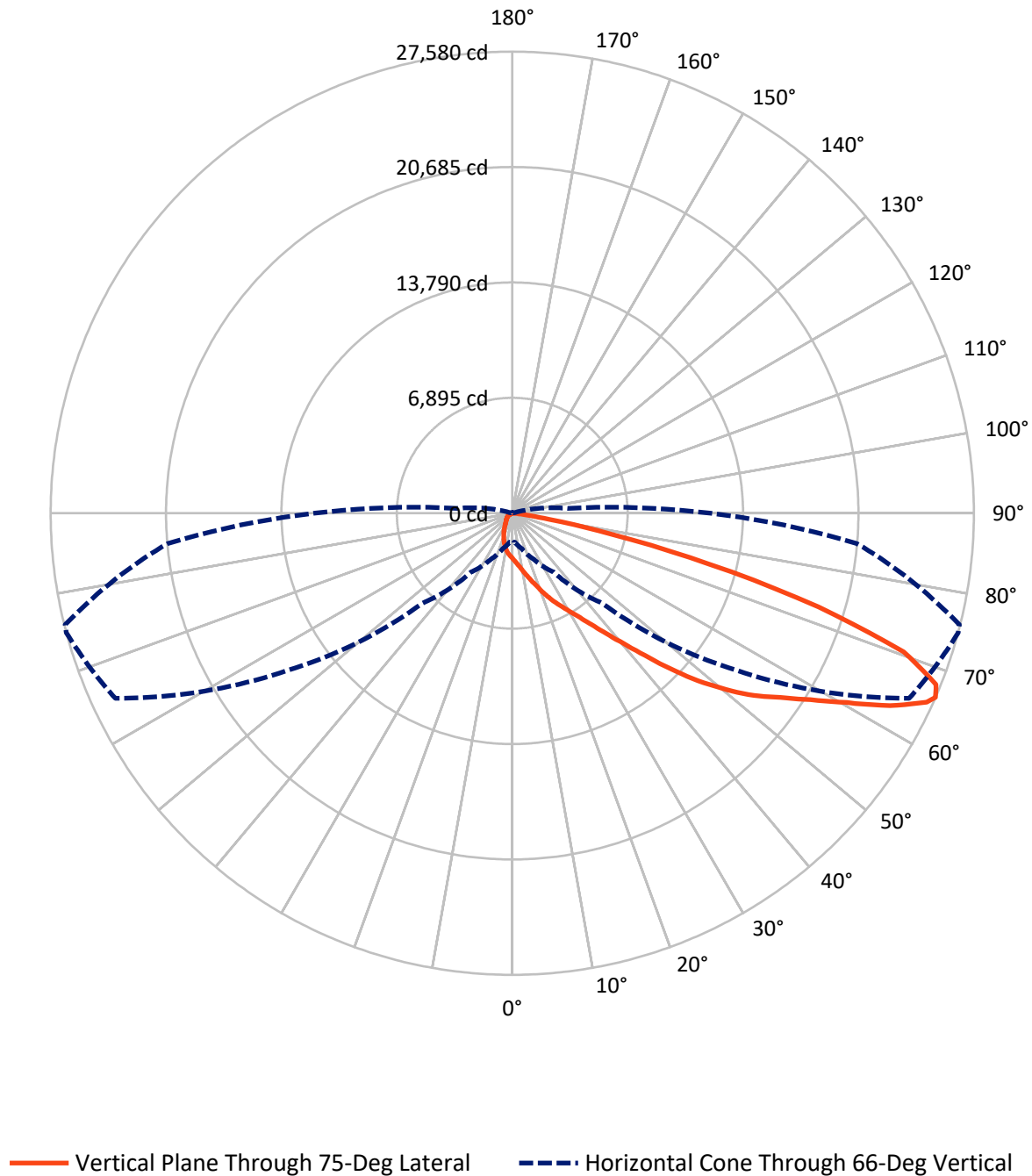


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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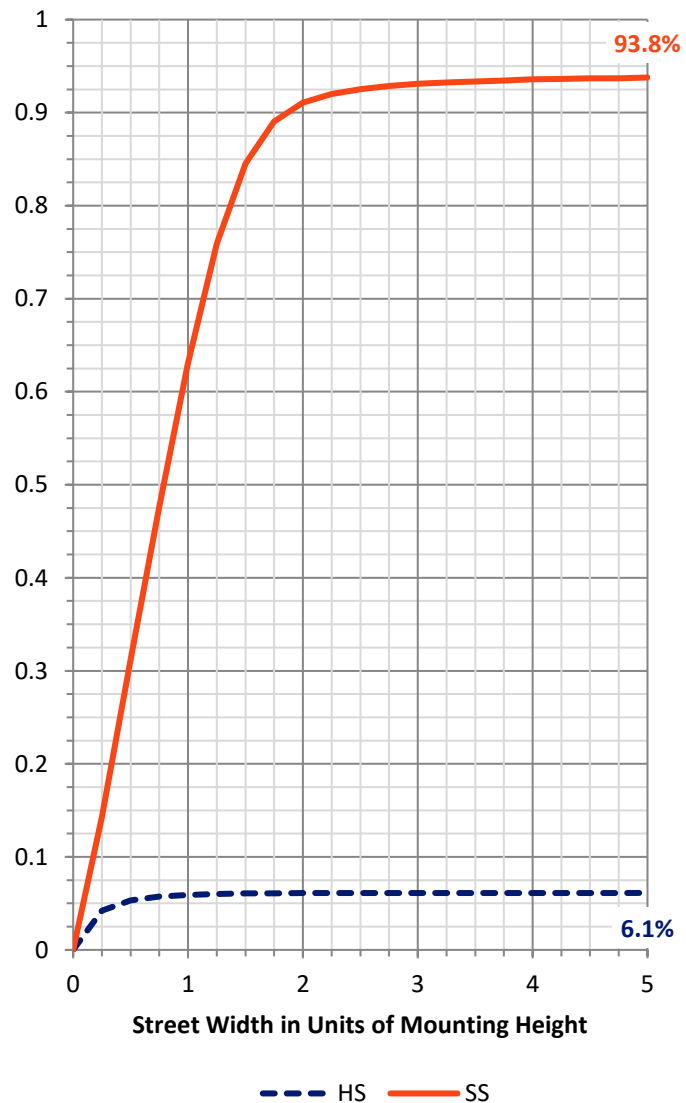
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.4	0.0	1520.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23107.6	0.0	23107.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	24628.0	0.0	24628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.1
10°-20°	764.5	3.1
20°-30°	1320.2	5.4
30°-40°	2381.3	9.7
40°-50°	4301.9	17.5
50°-60°	6706.7	27.2
60°-70°	6371.1	25.9
70°-80°	2387.7	9.7
80°-90°	134.7	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°	24628.0	100.0
0°-180°	24628.0	100.0

Coefficient of Utilization



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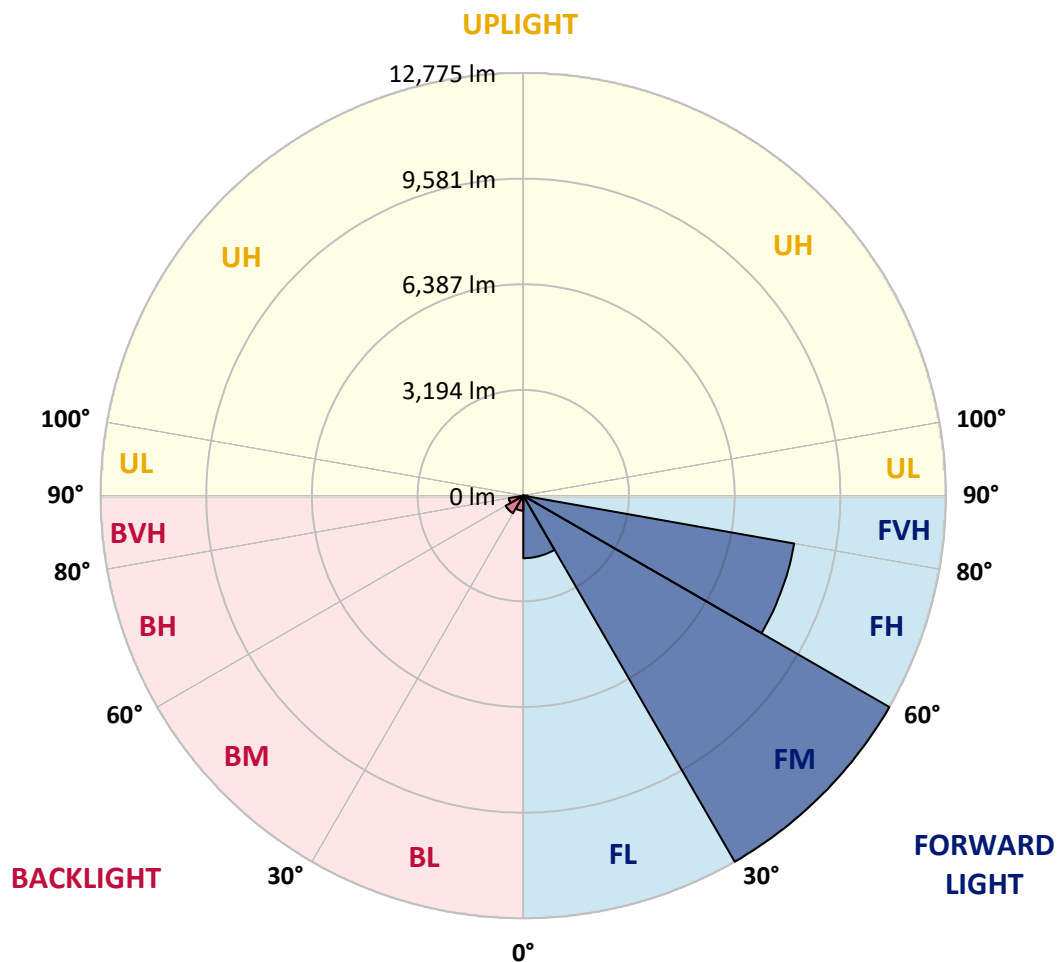
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1890.4	7.7			
FM	(30°-60°)	12774.5	51.9			
FH	(60°-80°)	8314.9	33.8			G4/12000
FVH	(80°-90°)	127.8	0.5			G2/225
BL	(0°-30°)	454.1	1.8	B1/500		
BM	(30°-60°)	615.4	2.5	B1/1000		
BH	(60°-80°)	444.0	1.8	B1/500		G1/500
BVH	(80°-90°)	6.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3
2.5°	3217.8	3177.7	3190.5	3172.2	3130.4	3068.4	3013.8	2935.5	2857.2	2844.5	2757.1
5°	3642.1	3631.1	3616.6	3563.8	3534.6	3439.9	3327.0	3192.3	3030.2	3001.1	2842.6
7.5°	3931.6	3926.2	3933.4	3906.1	3880.6	3795.0	3674.9	3490.9	3239.6	3223.2	2959.2
10°	4026.3	4040.9	4068.2	4111.9	4152.0	4124.7	4033.6	3804.1	3511.0	3463.6	3092.1
12.5°	3971.7	3988.1	4053.6	4170.2	4299.5	4374.1	4337.7	4170.2	3798.7	3760.4	3241.4
15°	3831.5	3851.5	3944.4	4124.7	4355.9	4567.2	4658.2	4538.0	4133.8	4071.8	3421.7
17.5°	3623.9	3653.0	3785.9	4024.5	4341.4	4705.6	4962.3	4922.3	4490.7	4432.4	3618.4
20°	3467.3	3489.1	3602.0	3875.2	4279.4	4782.0	5251.9	5364.8	4931.4	4831.2	3849.7
22.5°	3571.1	3578.3	3616.6	3780.5	4168.4	4802.1	5506.8	5825.5	5399.4	5310.1	4090.1
25°	4079.1	4006.3	3968.0	3931.6	4144.7	4783.9	5738.1	6306.3	5865.6	5770.9	4328.6
27.5°	4880.4	4847.6	4654.6	4396.0	4346.8	4807.5	5891.1	6761.5	6304.4	6202.5	4561.7
30°	5752.7	5696.2	5577.8	5199.1	4818.5	4975.1	6002.1	7204.0	6823.4	6688.7	4774.8
32.5°	6553.9	6590.3	6413.7	6024.0	5583.3	5332.0	6146.0	7686.6	7418.9	7251.4	5022.4
35°	7488.1	7560.9	7289.6	6916.3	6400.9	5976.6	6426.4	8231.1	8174.6	7963.4	5404.8
37.5°	8436.9	8480.6	8314.9	7790.4	7326.0	6796.1	6954.5	8903.1	9105.2	8924.9	5861.9
40°	9234.5	9294.6	9172.6	8706.4	8211.1	7744.9	7721.2	9635.1	10212.4	10026.6	6543.0
42.5°	9844.5	9890.1	9893.7	9564.1	9117.9	8906.7	8699.1	10569.3	11600.0	11385.1	7333.3
45°	10614.8	10680.4	10642.1	10418.2	10084.9	10046.7	9939.2	11698.3	13260.8	12989.5	8358.6
47.5°	11805.8	11849.5	11754.8	11490.7	11152.0	11212.1	11148.4	12964.0	14954.4	14721.3	9420.2
50°	12632.5	12705.4	12840.1	12945.8	12699.9	12477.8	12288.4	14145.8	16562.3	16352.9	10505.6
52.5°	12623.4	12743.6	13169.7	13701.5	14238.7	14171.3	13626.8	15451.5	18097.5	17838.9	11525.3
55°	11773.0	12006.1	12632.5	13575.8	15063.6	15804.8	15557.1	16963.0	19423.2	19248.4	12707.2
57.5°	10017.5	10159.6	11030.0	12348.5	14602.9	16573.3	17793.4	19011.6	21013.0	20931.0	14542.8
60°	6737.8	6801.6	7921.5	9551.3	12432.2	15806.6	19432.3	21490.1	22970.6	22930.5	16686.2
62.5°	3860.6	3887.9	4700.1	6075.0	8846.6	13395.6	19570.7	24547.6	25317.9	25339.7	19166.4
65°	2077.8	2092.4	2747.9	3565.6	5383.0	9547.7	17598.5	26222.9	27215.4	27257.3	20703.4
66°	1793.7	1724.5	2187.1	3039.3	4283.1	7599.2	16351.1	26162.9	27579.6	27534.1	20648.8
67.5°	1364.0	1425.9	1746.4	2336.4	3174.1	5403.0	13499.4	24999.2	27302.8	27160.8	19809.3
70°	976.1	1001.6	1243.8	1666.2	2161.6	2964.6	8626.3	20763.5	24815.3	24624.1	17258.0
72.5°	630.1	657.4	881.4	1205.5	1562.5	1618.9	4829.4	15001.7	19131.8	19104.5	12996.7
75°	449.8	475.3	582.7	863.2	1174.6	1001.6	2325.5	10110.4	12162.7	12080.8	8039.9
77.5°	326.0	338.7	389.7	564.5	839.5	717.5	1078.1	5399.4	6055.0	6340.9	3552.8
80°	187.6	198.5	271.3	344.2	568.2	489.9	515.4	2167.0	2234.4	2127.0	1110.8
82.5°	92.9	105.6	162.1	234.9	355.1	329.6	236.7	651.9	688.4	670.1	280.4
85°	21.9	27.3	91.1	154.8	173.0	147.5	114.7	191.2	236.7	231.3	107.4
87.5°	1.8	3.6	32.8	27.3	29.1	49.2	40.1	49.2	76.5	71.0	38.2
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°	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3	2693.3
2.5°	2717.0	2682.4	2582.2	2483.9	2401.9	2316.4	2238.1	2192.5	2174.3	2154.3	2163.4
5°	2755.2	2671.5	2469.3	2294.5	2123.3	1977.6	1861.1	1786.4	1750.0	1744.6	1735.4
7.5°	2806.2	2662.4	2349.1	2076.0	1852.0	1689.9	1557.0	1449.5	1416.8	1387.6	1364.0
10°	2868.1	2646.0	2199.8	1846.5	1608.0	1404.0	1229.2	1101.7	1036.2	1018.0	1030.7
12.5°	2933.7	2615.0	2043.2	1635.3	1360.3	1099.9	937.8	874.1	855.9	848.6	850.4
15°	2999.2	2576.8	1879.3	1431.3	1083.5	877.7	803.1	786.7	779.4	775.8	772.1
17.5°	3059.3	2514.9	1695.4	1232.8	877.7	750.3	723.0	708.4	693.8	688.4	679.2
20°	3130.4	2443.8	1529.7	1010.7	743.0	679.2	646.5	619.2	597.3	582.7	580.9
22.5°	3197.7	2352.8	1356.7	837.7	677.4	610.0	557.2	528.1	502.6	484.4	489.9
25°	3234.2	2241.7	1201.9	730.2	617.3	540.8	482.6	446.2	418.8	409.7	407.9
27.5°	3234.2	2105.1	1050.7	668.3	562.7	478.9	418.8	384.2	366.0	353.3	355.1
30°	3208.7	1954.0	910.5	621.0	515.4	424.3	367.8	336.9	322.3	313.2	311.4
32.5°	3188.6	1810.1	790.3	575.4	466.2	377.0	327.8	304.1	289.5	280.4	280.4
35°	3219.6	1686.3	697.5	529.9	420.7	340.5	296.8	275.0	260.4	253.1	251.3
37.5°	3301.5	1573.4	626.4	480.8	378.8	309.6	275.0	249.5	234.9	225.8	222.2
40°	3503.7	1509.6	573.6	435.2	338.7	284.1	249.5	225.8	207.6	198.5	196.7
42.5°	3827.8	1511.5	522.6	393.3	307.8	262.2	227.6	200.3	180.3	171.2	169.4
45°	4315.9	1580.7	482.6	353.3	280.4	238.6	204.0	174.8	156.6	147.5	147.5
47.5°	4900.4	1715.4	448.0	318.7	254.9	216.7	180.3	151.1	132.9	125.7	125.7
50°	5534.1	1890.2	413.4	282.3	233.1	193.0	154.8	131.1	116.5	111.1	111.1
52.5°	6180.6	2101.5	378.8	253.1	209.4	167.5	132.9	116.5	103.8	100.2	98.3
55°	7029.2	2371.0	342.4	222.2	183.9	143.9	118.4	102.0	87.4	81.9	80.1
57.5°	8334.9	2777.1	302.3	194.9	151.1	120.2	102.0	85.6	69.2	60.1	58.3
60°	9910.1	3272.4	260.4	171.2	122.0	98.3	81.9	65.6	51.0	40.1	38.2
62.5°	11385.1	3587.4	220.3	143.9	96.5	74.7	58.3	49.2	36.4	25.5	23.7
65°	12037.1	3481.8	182.1	116.5	76.5	52.8	38.2	34.6	21.9	10.9	9.1
66°	11820.4	3325.2	167.5	105.6	69.2	45.5	32.8	29.1	16.4	5.5	5.5
67.5°	11181.2	2955.5	145.7	91.1	60.1	36.4	25.5	21.9	9.1	1.8	0.0
70°	9580.5	2391.0	114.7	67.4	43.7	25.5	14.6	10.9	5.5	0.0	0.0
72.5°	7358.8	1781.0	91.1	51.0	31.0	14.6	7.3	3.6	5.5	0.0	0.0
75°	4508.9	1018.0	71.0	38.2	20.0	9.1	5.5	0.0	5.5	1.8	0.0
77.5°	2001.3	457.1	47.3	25.5	14.6	7.3	3.6	0.0	3.6	1.8	0.0
80°	506.2	149.3	27.3	18.2	10.9	5.5	1.8	0.0	3.6	3.6	1.8
82.5°	138.4	54.6	20.0	14.6	9.1	5.5	1.8	0.0	3.6	3.6	3.6
85°	54.6	25.5	18.2	14.6	10.9	5.5	1.8	0.0	3.6	3.6	3.6
87.5°	25.5	18.2	18.2	16.4	12.7	5.5	1.8	0.0	3.6	1.8	3.6
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)