

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: P453383

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14655 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

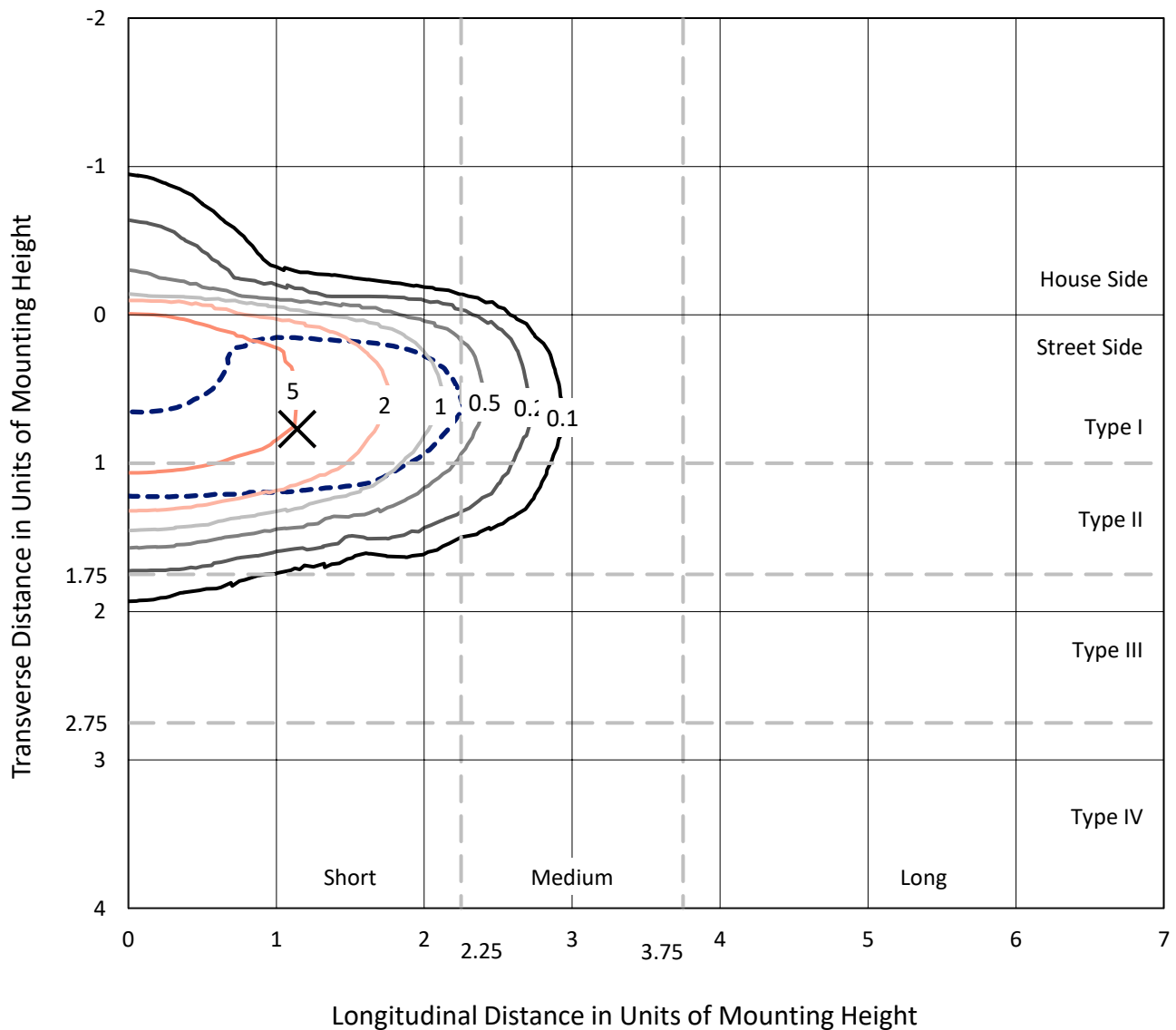


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

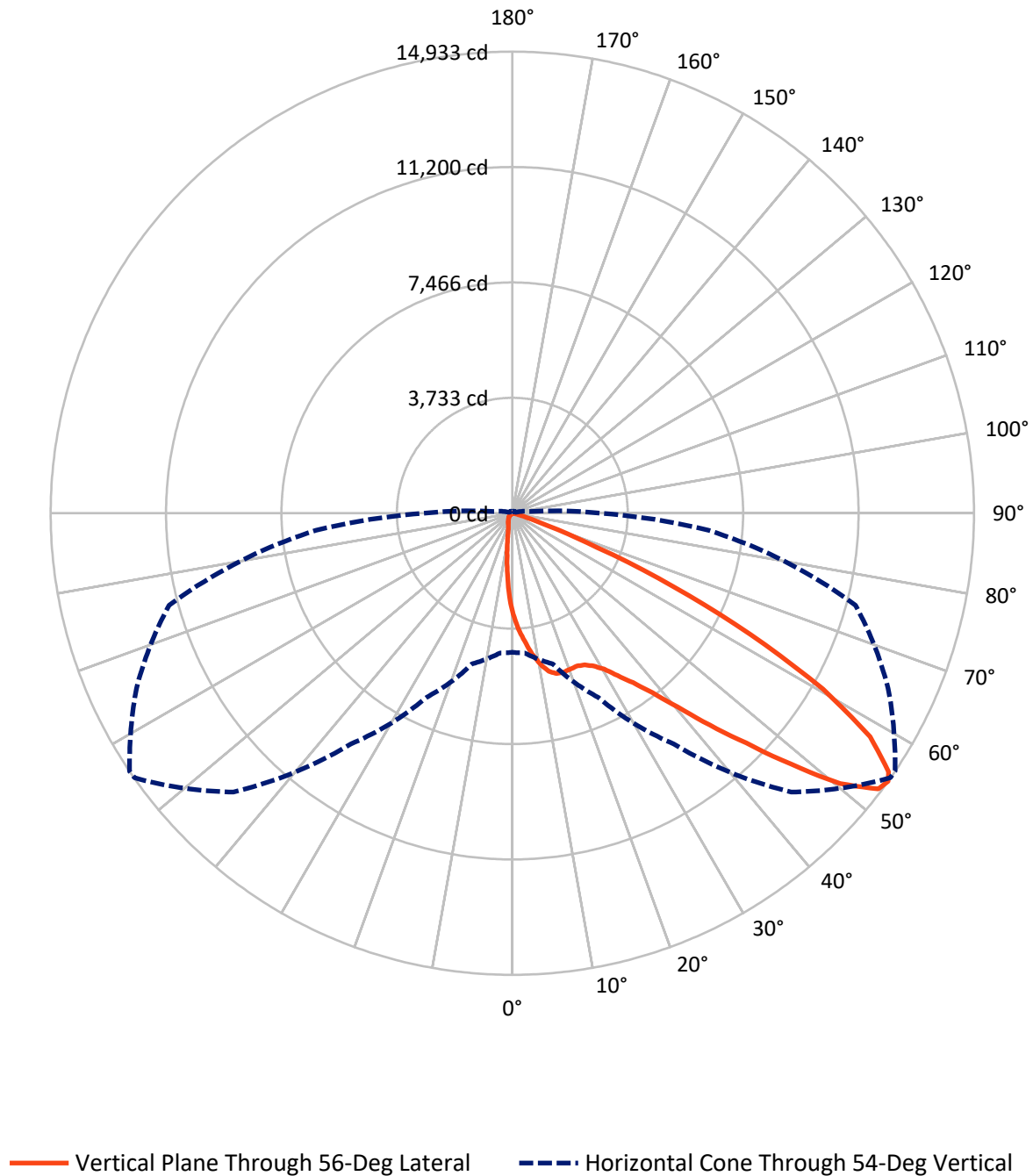


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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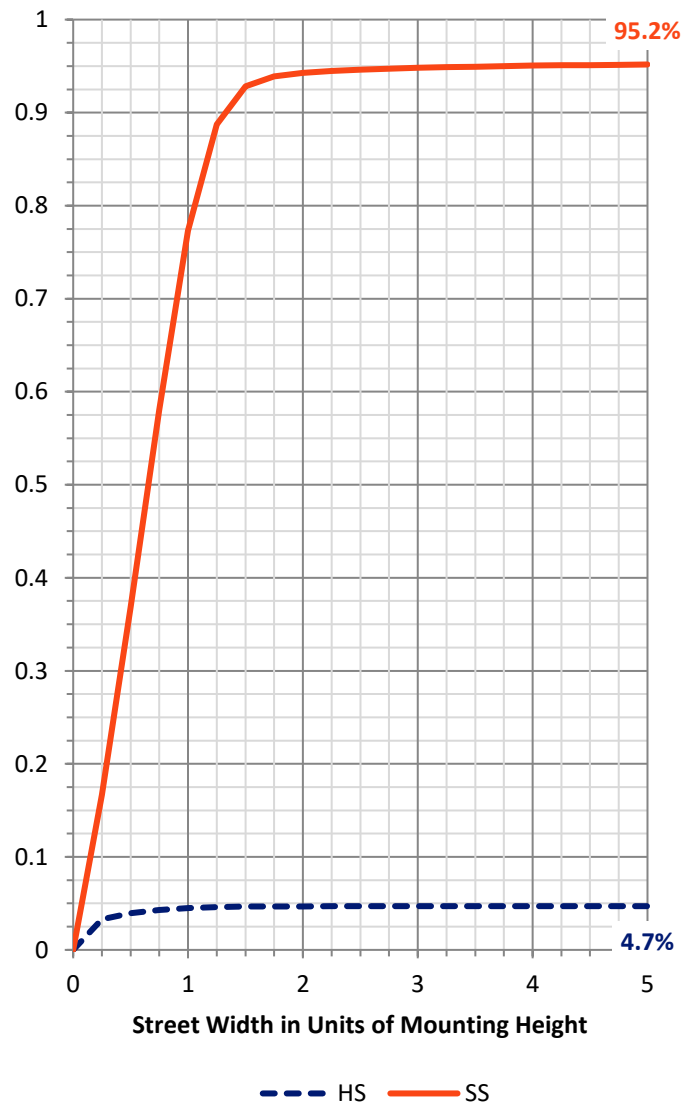
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.0	0.0	693.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13962.0	0.0	13962.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	14655.0	0.0	14655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	2.0
10°-20°	777.8	5.3
20°-30°	1347.1	9.2
30°-40°	2325.2	15.9
40°-50°	3957.6	27.0
50°-60°	3916.6	26.7
60°-70°	1787.6	12.2
70°-80°	229.6	1.6
80°-90°	25.9	0.2
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°	14655.0	100.0
0°-180°	14655.0	100.0

Coefficient of Utilization



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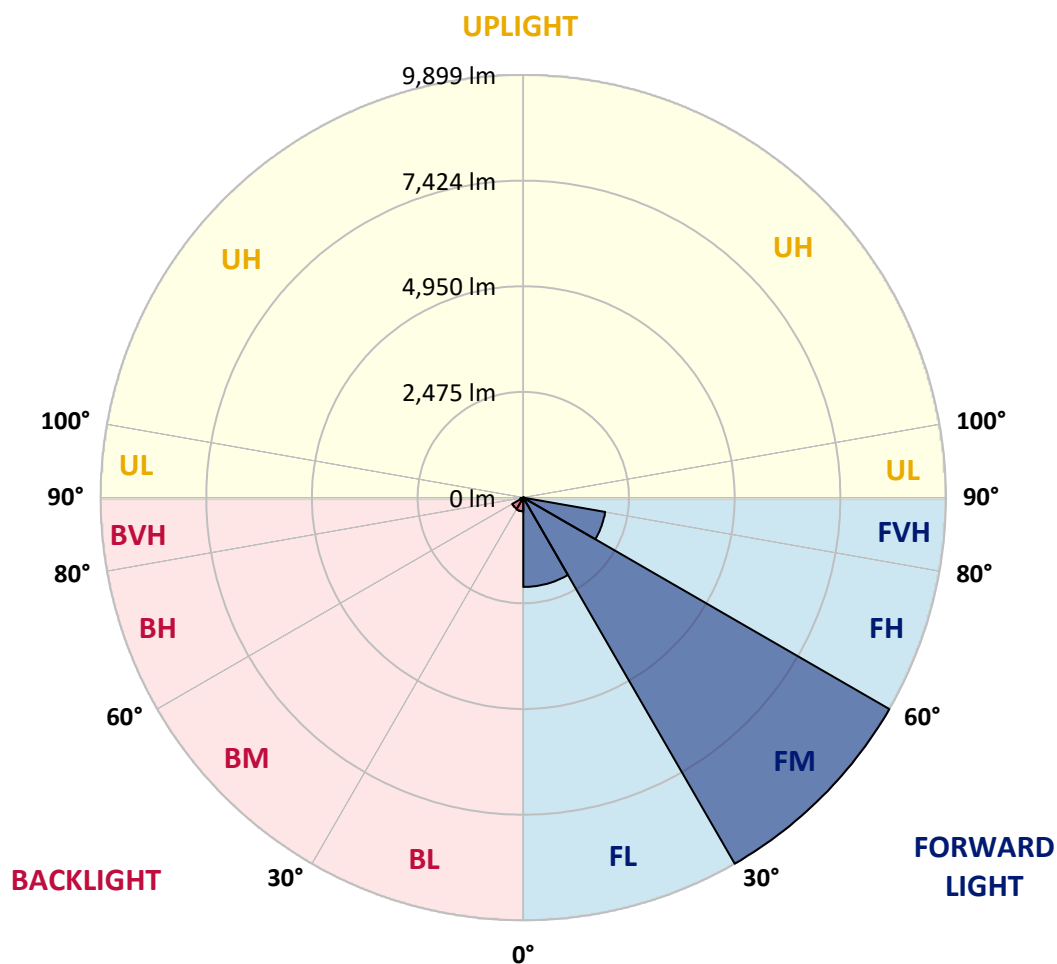
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2092.1	14.3			
FM	(30°-60°)	9899.1	67.5			
FH	(60°-80°)	1947.8	13.3			G2/5000
FVH	(80°-90°)	23.1	0.2			G1/100
BL	(0°-30°)	320.5	2.2	B1/500		
BM	(30°-60°)	300.3	2.0	B1/1000		
BH	(60°-80°)	69.4	0.5	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	56°	65°	75°	85°
0°	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9
2.5°	4137.9	4109.2	4069.7	4039.0	3966.8	3863.0	3753.3	3753.3	3647.5	3500.1	3349.8
5°	4772.6	4753.9	4715.3	4636.2	4555.1	4409.8	4189.3	4150.7	3961.9	3694.9	3414.1
7.5°	5030.7	5039.6	5041.6	5020.8	4982.3	4838.9	4620.4	4593.7	4292.1	3934.2	3498.2
10°	4783.5	4827.0	4869.5	4955.6	5077.2	5111.8	4988.2	4960.5	4663.9	4176.4	3589.1
12.5°	4415.7	4439.4	4463.2	4598.6	4842.8	5122.7	5252.2	5251.2	5000.1	4417.7	3704.8
15°	4244.7	4265.4	4267.4	4327.7	4539.3	4946.7	5364.9	5379.7	5328.3	4715.3	3829.4
17.5°	4280.3	4297.1	4283.2	4298.1	4408.8	4752.9	5352.0	5401.5	5594.3	5001.0	3942.1
20°	4512.6	4545.2	4491.8	4450.3	4483.9	4701.5	5308.5	5377.8	5782.1	5279.9	4044.9
22.5°	4929.9	4947.7	4880.4	4766.7	4707.4	4809.2	5296.7	5364.9	5942.3	5508.3	4104.3
25°	5393.6	5387.6	5313.5	5185.9	5061.4	5026.8	5374.8	5436.1	6074.8	5713.9	4122.1
27.5°	5857.3	5875.1	5750.5	5592.3	5443.0	5353.0	5549.8	5595.3	6224.1	5948.3	4143.8
30°	6396.2	6367.5	6244.9	6063.9	5892.9	5767.3	5831.6	5844.4	6429.8	6258.7	4201.2
32.5°	7097.2	7018.1	6880.6	6564.2	6441.6	6229.1	6244.9	6260.7	6679.9	6566.2	4270.4
35°	8048.3	8044.4	7775.4	7349.3	7050.7	6786.7	6717.5	6730.4	7058.6	7023.0	4423.6
37.5°	9193.3	9209.1	8902.6	8473.5	7923.8	7504.5	7362.2	7364.1	7634.1	7653.8	4657.0
40°	10125.7	10167.2	9984.3	9694.6	9151.8	8496.2	8257.0	8235.2	8442.8	8418.1	4990.2
42.5°	10527.1	10565.7	10633.9	10734.7	10436.1	9895.3	9330.7	9360.4	9423.7	9250.6	5363.9
45°	10330.4	10391.7	10659.6	11282.5	11563.3	11381.4	10708.1	10604.2	10336.3	10155.3	5739.6
47.5°	9510.7	9660.0	10107.9	11145.1	12127.9	12742.9	12262.3	12124.9	11249.9	10815.8	5978.9
50°	8163.0	8171.9	8795.8	10121.7	11835.2	13602.1	13849.3	13746.4	12101.2	11186.6	6099.5
52.5°	5917.6	6112.4	6683.9	8219.4	10567.6	13471.6	14860.8	14818.2	12979.2	11376.4	6273.6
54°	4498.8	4536.3	5044.5	6568.2	9111.2	12754.7	14923.0	14932.9	13415.2	11491.1	6376.4
55°	3688.0	3598.0	4131.9	5595.3	8117.6	12121.0	14719.4	14766.8	13611.0	11550.5	6452.5
57.5°	1748.1	1749.1	2157.4	2951.4	5084.1	9411.8	13474.5	13642.6	13632.7	11652.3	6686.8
60°	884.9	890.9	980.8	1362.5	2511.4	6256.7	11141.1	11541.6	12583.7	11667.1	6764.0
62.5°	619.0	612.0	597.2	655.5	1057.0	3179.8	8294.5	8642.6	10691.2	11102.6	6518.8
65°	530.0	515.1	473.6	464.7	533.9	1266.6	5166.2	5733.7	8163.0	9613.5	5820.7
67.5°	452.8	446.9	409.3	386.6	377.7	551.7	2665.6	2964.2	5579.5	6910.3	4408.8
70°	384.6	381.7	358.9	330.2	305.5	330.2	988.7	1225.0	3109.6	3720.6	2080.3
72.5°	312.4	315.4	319.4	282.8	257.1	234.3	422.2	491.4	1301.2	1329.9	727.7
75°	273.9	270.9	270.9	246.2	214.6	174.0	232.4	250.2	398.5	369.8	169.1
77.5°	192.8	185.9	217.5	202.7	179.0	123.6	132.5	140.4	165.1	141.4	79.1
80°	133.5	133.5	139.4	181.9	161.2	90.0	81.1	87.0	97.9	84.0	45.5
82.5°	75.1	77.1	91.0	96.9	93.9	60.3	53.4	54.4	65.3	57.3	28.7
85°	8.9	14.8	52.4	51.4	38.6	26.7	29.7	30.7	40.5	35.6	16.8
87.5°	1.0	2.0	10.9	13.8	9.9	10.9	10.9	10.9	13.8	15.8	11.9
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°	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9	3255.9
2.5°	3268.8	3193.6	3014.7	2807.0	2674.5	2459.0	2277.1	2145.6	2112.9	2049.7	2068.4
5°	3264.8	3108.6	2743.8	2358.1	1946.8	1640.3	1411.9	1232.0	1152.9	1100.5	1063.9
7.5°	3266.8	3022.6	2437.2	1823.2	1331.8	1031.3	819.7	709.9	636.7	606.1	610.1
10°	3272.7	2925.7	2081.3	1350.6	898.8	666.4	536.9	484.5	459.8	455.8	454.8
12.5°	3286.6	2819.9	1741.2	1002.6	628.8	484.5	435.0	417.2	409.3	409.3	406.4
15°	3301.4	2703.2	1458.4	745.5	484.5	416.3	393.5	384.6	379.7	379.7	378.7
17.5°	3301.4	2568.7	1194.4	578.4	417.2	382.6	364.8	353.0	349.0	349.0	348.0
20°	3280.6	2412.5	960.1	465.7	378.7	351.0	333.2	320.4	315.4	313.4	312.4
22.5°	3208.5	2203.9	764.3	400.4	347.0	323.3	300.6	285.7	281.8	279.8	280.8
25°	3079.9	1968.6	605.1	352.0	318.4	289.7	269.9	259.0	255.1	255.1	256.1
27.5°	2947.4	1722.4	479.5	315.4	283.8	258.1	242.2	235.3	234.3	237.3	238.3
30°	2824.8	1475.2	388.6	285.7	253.1	231.4	220.5	218.5	218.5	219.5	220.5
32.5°	2688.4	1258.7	325.3	260.0	228.4	209.6	203.7	203.7	205.7	205.7	207.6
35°	2602.4	1072.8	285.7	235.3	209.6	193.8	189.8	190.8	193.8	197.7	199.7
37.5°	2555.9	924.5	260.0	215.5	191.8	180.9	177.0	179.0	185.9	192.8	193.8
40°	2559.8	812.7	239.3	198.7	178.0	166.1	163.1	169.1	176.0	182.9	183.9
42.5°	2603.4	729.7	219.5	179.0	166.1	149.3	148.3	154.2	157.2	164.1	165.1
45°	2654.8	669.4	198.7	158.2	144.4	129.5	130.5	135.5	139.4	150.3	152.3
47.5°	2670.6	627.8	175.0	134.5	118.6	113.7	114.7	117.7	125.6	135.5	136.4
50°	2688.4	602.1	152.3	113.7	100.9	99.9	100.9	102.8	107.8	111.7	110.7
52.5°	2764.5	601.2	133.5	98.9	86.0	88.0	89.0	88.0	84.0	78.1	76.1
54°	2835.7	604.1	124.6	92.0	79.1	82.1	81.1	76.1	66.2	60.3	57.3
55°	2893.1	607.1	119.6	87.0	75.1	76.1	77.1	67.2	54.4	48.4	46.5
57.5°	3005.8	600.2	107.8	76.1	66.2	62.3	61.3	44.5	29.7	25.7	23.7
60°	2949.4	541.8	97.9	65.3	56.4	50.4	41.5	24.7	14.8	10.9	10.9
62.5°	2727.9	459.8	87.0	53.4	46.5	38.6	21.8	13.8	6.9	4.0	3.0
65°	2440.2	386.6	78.1	42.5	36.6	24.7	11.9	8.9	3.0	0.0	0.0
67.5°	1814.3	286.7	66.2	33.6	27.7	15.8	7.9	4.9	1.0	0.0	0.0
70°	840.4	175.0	56.4	25.7	19.8	11.9	5.9	3.0	0.0	0.0	0.0
72.5°	241.3	109.8	46.5	18.8	13.8	9.9	4.9	2.0	1.0	0.0	0.0
75°	84.0	88.0	34.6	13.8	10.9	6.9	4.0	2.0	1.0	0.0	0.0
77.5°	50.4	71.2	21.8	11.9	8.9	5.9	4.0	2.0	1.0	1.0	0.0
80°	28.7	47.5	13.8	9.9	7.9	4.9	3.0	2.0	1.0	1.0	0.0
82.5°	15.8	22.7	10.9	8.9	6.9	4.9	3.0	2.0	1.0	1.0	1.0
85°	12.9	11.9	8.9	7.9	5.9	4.0	3.0	1.0	0.0	0.0	0.0
87.5°	9.9	7.9	7.9	7.9	5.9	4.0	3.0	1.0	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)