

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: P457351

Luminaire Tested: **GALN-SA8C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457351
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-SA8C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 32635 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): 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

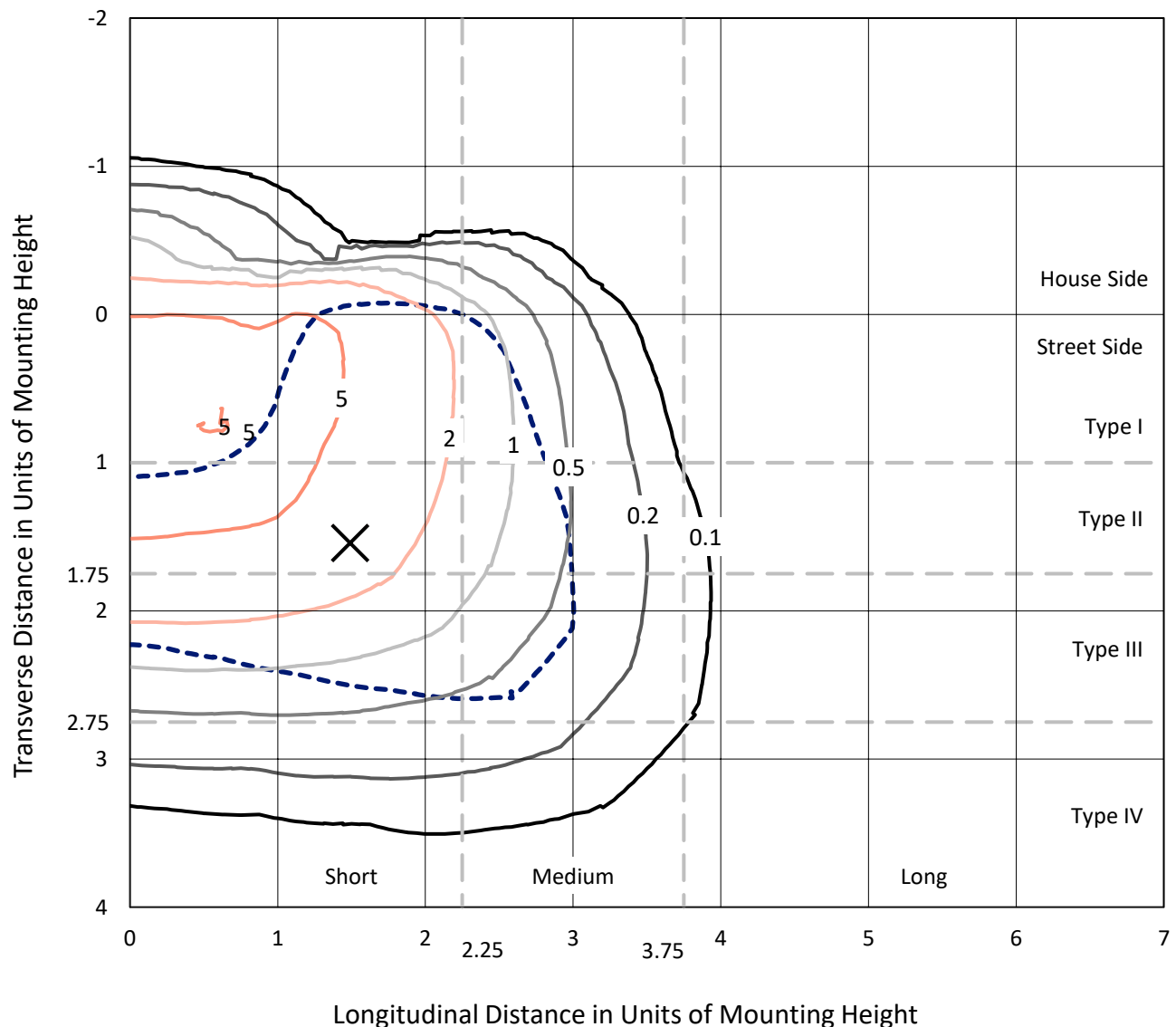


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Iso-Footcandle Lines of Horizontal Illumination

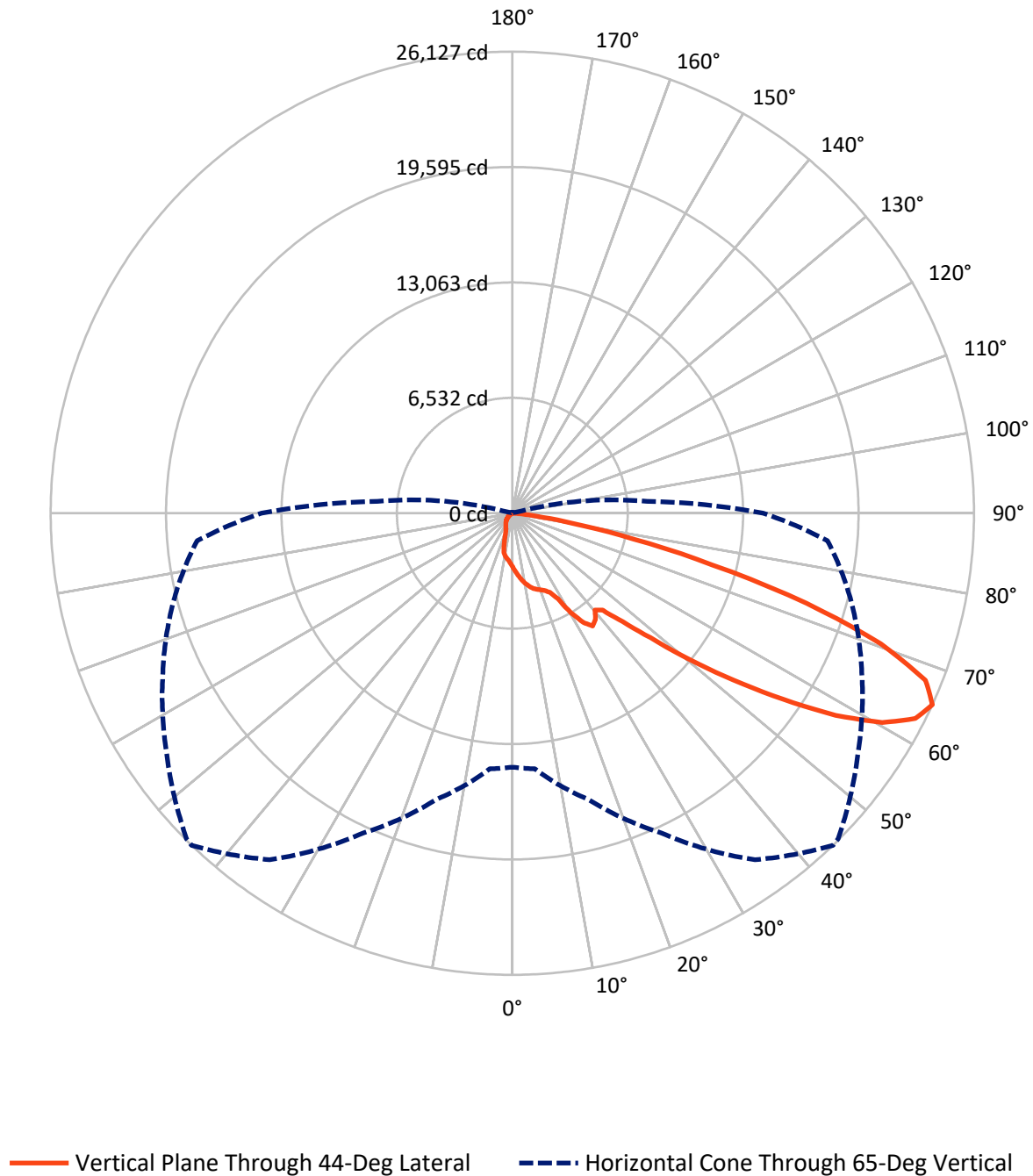
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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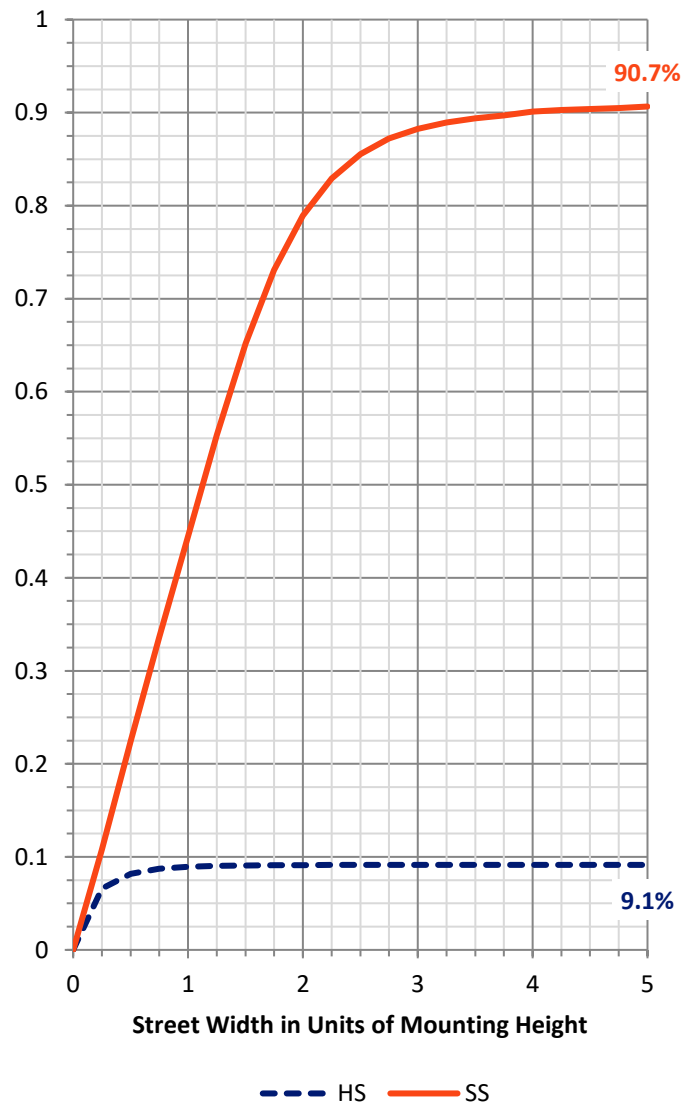
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.8	0.0	3006.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	29628.2	0.0	29628.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	32635.0	0.0	32635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	0.9
10°-20°	909.2	2.8
20°-30°	1541.7	4.7
30°-40°	2563.3	7.9
40°-50°	4475.6	13.7
50°-60°	8743.8	26.8
60°-70°	10144.8	31.1
70°-80°	3694.2	11.3
80°-90°	260.3	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°	32635.0	100.0
0°-180°	32635.0	100.0

Coefficient of Utilization



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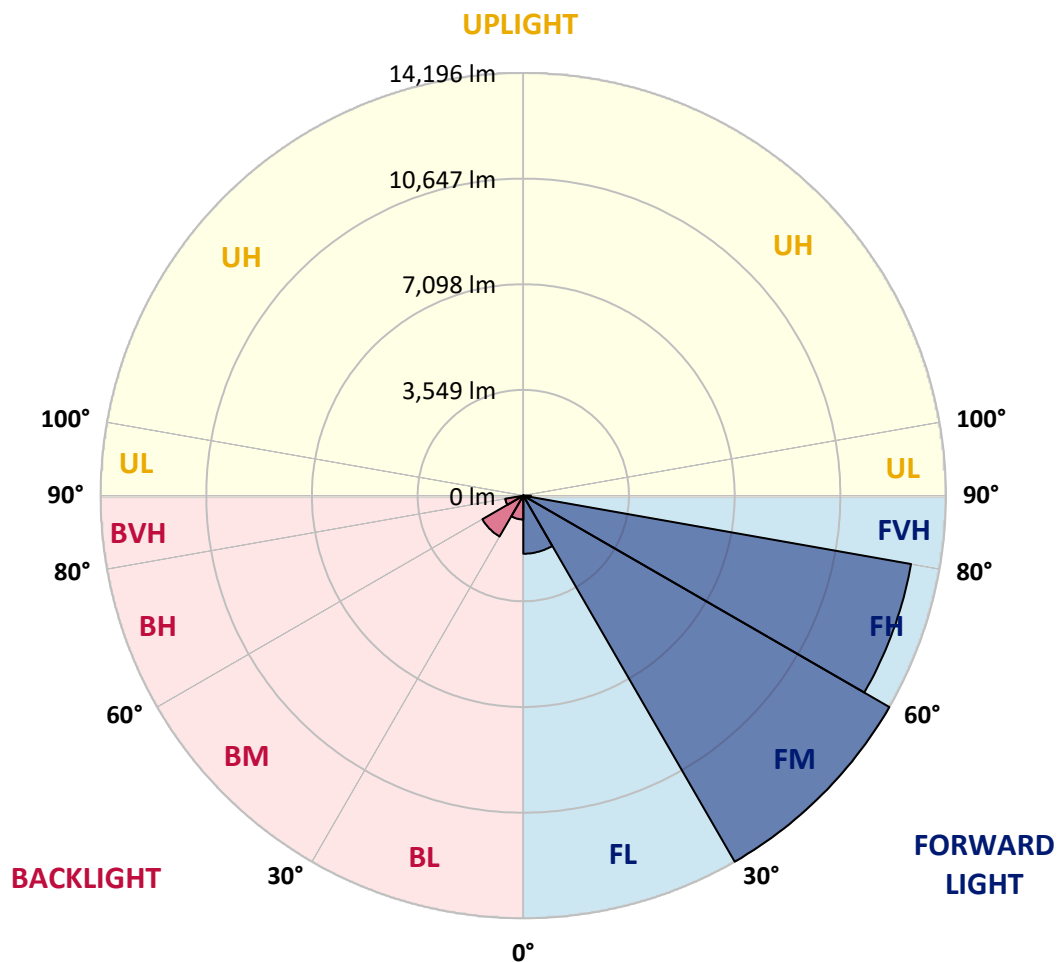
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1951.9	6.0			
FM	(30°-60°)	14196.3	43.5			
FH	(60°-80°)	13223.3	40.5			G5
FVH	(80°-90°)	256.8	0.8			G3/500
BL	(0°-30°)	801.1	2.5	B2/1000		
BM	(30°-60°)	1586.4	4.9	B2/2500		
BH	(60°-80°)	615.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3418.9	3403.9	3396.4	3356.5	3326.6	3289.2	3289.2	3241.8	3187.0	3127.1	3072.3
5°	3800.4	3775.5	3743.1	3708.2	3638.3	3538.6	3538.6	3438.8	3324.1	3221.9	3109.7
7.5°	4167.0	4144.6	4089.7	4022.4	3907.7	3802.9	3795.4	3650.8	3513.6	3359.0	3199.4
10°	4488.7	4471.2	4423.9	4294.2	4174.5	4037.3	4034.8	3872.7	3713.1	3523.6	3326.6
12.5°	4713.1	4715.6	4653.3	4528.6	4374.0	4244.3	4234.3	4074.7	3907.7	3703.2	3461.3
15°	4872.7	4872.7	4807.9	4668.2	4528.6	4413.9	4403.9	4264.3	4092.2	3870.2	3608.4
17.5°	4917.6	4932.6	4862.7	4738.1	4625.8	4526.1	4523.6	4406.4	4269.2	4054.8	3758.0
20°	4900.2	4915.1	4860.3	4763.0	4685.7	4628.3	4620.9	4573.5	4446.3	4244.3	3917.6
22.5°	4862.7	4877.7	4837.8	4780.5	4743.0	4760.5	4748.0	4787.9	4720.6	4476.2	4107.1
25°	4870.2	4885.2	4855.3	4822.8	4855.3	4962.5	4994.9	5167.0	5107.1	4770.5	4311.6
27.5°	5104.6	5134.6	5092.2	5107.1	5221.8	5471.2	5533.6	5830.3	5566.0	5144.5	4630.8
30°	5625.8	5605.9	5526.1	5598.4	5997.4	6526.1	6508.6	6461.2	6047.3	5575.9	5009.9
32.5°	6099.6	6082.2	6077.2	6388.9	7112.1	7368.9	7356.5	6897.6	6478.7	6069.7	5383.9
35°	6291.6	6224.3	6209.4	6964.9	8174.4	7835.3	7757.9	7077.2	7002.4	6608.3	5765.5
37.5°	6870.2	6822.8	6590.9	7059.7	7750.5	7638.2	7578.4	7386.4	7560.9	7084.6	6196.9
40°	8062.2	7930.0	7720.5	7261.7	7149.5	7196.9	7256.7	7782.9	8221.8	7735.5	6772.9
42.5°	9543.4	9513.5	9124.5	8269.2	7428.8	7493.6	7570.9	8610.8	9171.9	8715.5	7713.1
45°	11321.5	11363.9	10802.8	9792.8	8690.6	8745.5	8857.7	9832.7	10458.6	10239.2	9191.8
47.5°	12937.4	12905.0	12715.5	11665.6	10648.2	10526.0	10708.0	11401.3	12239.2	12274.1	11027.2
50°	14563.3	14735.4	14453.6	14042.1	13286.5	13029.7	12962.3	13301.5	14578.3	14411.2	13231.7
52.5°	16899.9	16989.7	16461.0	16356.3	16528.3	15695.4	15628.1	15710.4	16852.5	16279.0	14882.5
55°	18368.7	18316.3	18119.3	18937.3	19618.1	18578.2	18493.4	18161.7	18740.3	17598.1	16471.0
57.5°	18832.5	18907.3	19366.2	20845.0	22455.9	21573.1	21418.5	20475.9	20101.8	18827.6	17932.3
60°	18625.6	18762.7	19752.7	21952.2	24186.5	24054.4	23922.2	22338.7	21079.4	19855.0	18957.2
62.5°	17151.8	17343.8	18927.3	21755.2	24772.6	25598.0	25433.4	23500.8	21730.2	20353.7	19136.8
65°	14373.8	14515.9	16790.2	19967.2	23939.7	26126.7	26066.8	23864.9	21832.5	19897.4	17907.4
67.5°	10246.7	10730.5	12837.6	16827.6	21475.9	25223.9	25326.2	23428.5	20872.4	17924.8	14830.1
70°	6441.3	6770.4	8281.6	12047.1	17216.6	22129.2	22465.9	21431.0	18114.3	13972.3	9927.5
72.5°	3072.3	3316.6	4393.9	7625.8	12151.9	17411.1	17677.9	17593.2	14007.2	8802.8	5122.1
75°	1369.0	1461.3	2097.2	3892.7	7845.2	11703.0	12393.8	12508.5	8752.9	4306.6	1992.5
77.5°	698.2	700.7	982.5	1885.2	3917.6	6982.4	7119.6	7521.0	4745.5	1897.7	693.3
80°	371.6	396.5	521.2	890.3	2032.4	3438.8	3421.4	3760.5	2104.7	930.2	231.9
82.5°	167.1	184.5	294.3	466.3	992.5	1304.2	1406.5	1538.6	902.7	593.5	102.2
85°	49.9	59.8	144.6	234.4	359.1	376.6	421.4	543.6	511.2	421.4	52.4
87.5°	7.5	7.5	59.8	64.8	52.4	67.3	69.8	77.3	164.6	154.6	27.4
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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3042.3	3024.9	2962.5	2910.2	2865.3	2837.8	2805.4	2785.5	2775.5	2768.0	2770.5
5°	3054.8	3012.4	2905.2	2820.4	2755.6	2685.7	2638.4	2610.9	2598.5	2578.5	2578.5
7.5°	3124.6	3057.3	2907.7	2778.0	2665.8	2571.0	2481.2	2448.8	2426.4	2421.4	2416.4
10°	3224.4	3139.6	2935.1	2755.6	2596.0	2466.3	2339.1	2226.9	2139.6	2087.2	2079.8
12.5°	3349.1	3226.9	2977.5	2740.6	2536.1	2306.7	1970.0	1743.1	1591.0	1543.6	1551.1
15°	3463.8	3331.6	3019.9	2728.1	2426.4	1912.7	1531.1	1271.8	1194.5	1187.0	1189.5
17.5°	3600.9	3443.8	3069.8	2710.7	2124.6	1461.3	1137.1	1067.3	1082.3	1107.2	1104.7
20°	3743.1	3563.5	3129.6	2605.9	1695.7	1099.7	1005.0	1012.4	1034.9	1057.3	1062.3
22.5°	3895.2	3700.7	3199.4	2354.1	1294.2	957.6	952.6	962.6	985.0	1010.0	1014.9
25°	4104.7	3872.7	3251.8	2024.9	980.0	885.3	895.2	912.7	932.6	960.1	965.1
27.5°	4374.0	4104.7	3279.2	1596.0	847.9	820.4	822.9	847.9	872.8	897.7	897.7
30°	4723.1	4381.5	3224.4	1207.0	783.0	758.1	748.1	763.1	795.5	820.4	822.9
32.5°	5034.8	4643.3	3079.7	922.7	735.6	700.7	675.8	678.3	690.8	705.7	708.2
35°	5346.5	4897.7	2832.9	775.5	685.8	645.9	608.5	588.5	578.5	571.1	578.5
37.5°	5745.5	5214.4	2503.7	705.7	643.4	593.5	541.1	498.7	463.8	441.4	446.4
40°	6259.2	5653.3	2114.7	660.8	603.5	543.6	473.8	418.9	359.1	339.1	329.2
42.5°	7107.1	6319.1	1705.7	623.4	563.6	491.3	404.0	329.2	274.3	254.4	259.3
45°	8446.2	7159.5	1314.2	583.5	523.7	433.9	339.1	259.3	214.5	204.5	209.5
47.5°	10221.7	8246.7	1012.4	538.6	473.8	371.6	266.8	204.5	177.1	174.6	172.1
50°	11892.5	9259.2	845.4	488.8	414.0	309.2	219.4	172.1	154.6	152.1	152.1
52.5°	13403.7	9984.8	688.3	431.4	349.1	254.4	184.5	152.1	137.2	129.7	129.7
55°	14747.8	10458.6	558.6	361.6	274.3	202.0	159.6	137.2	119.7	109.7	107.2
57.5°	15762.8	10516.0	418.9	289.3	204.5	157.1	137.2	119.7	99.7	87.3	82.3
60°	16196.7	10019.7	309.2	219.4	152.1	124.7	109.7	97.3	74.8	62.3	59.8
62.5°	15760.3	9054.7	229.4	167.1	117.2	92.3	77.3	72.3	52.4	37.4	34.9
65°	14196.7	7660.7	182.0	127.2	87.3	67.3	49.9	47.4	32.4	17.5	15.0
67.5°	11373.8	5999.9	144.6	94.8	62.3	44.9	32.4	29.9	17.5	5.0	5.0
70°	7396.4	3835.3	117.2	69.8	39.9	29.9	19.9	15.0	10.0	2.5	0.0
72.5°	3658.3	1793.0	94.8	54.9	27.4	15.0	7.5	5.0	7.5	0.0	0.0
75°	1418.9	638.4	69.8	37.4	15.0	7.5	5.0	0.0	2.5	0.0	0.0
77.5°	471.3	212.0	42.4	19.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	174.6	82.3	22.4	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	69.8	32.4	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.9	19.9	10.0	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.9	15.0	10.0	7.5	5.0	2.5	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)