

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: P457347

Luminaire Tested: **GALN-SA8C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35320 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 429
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

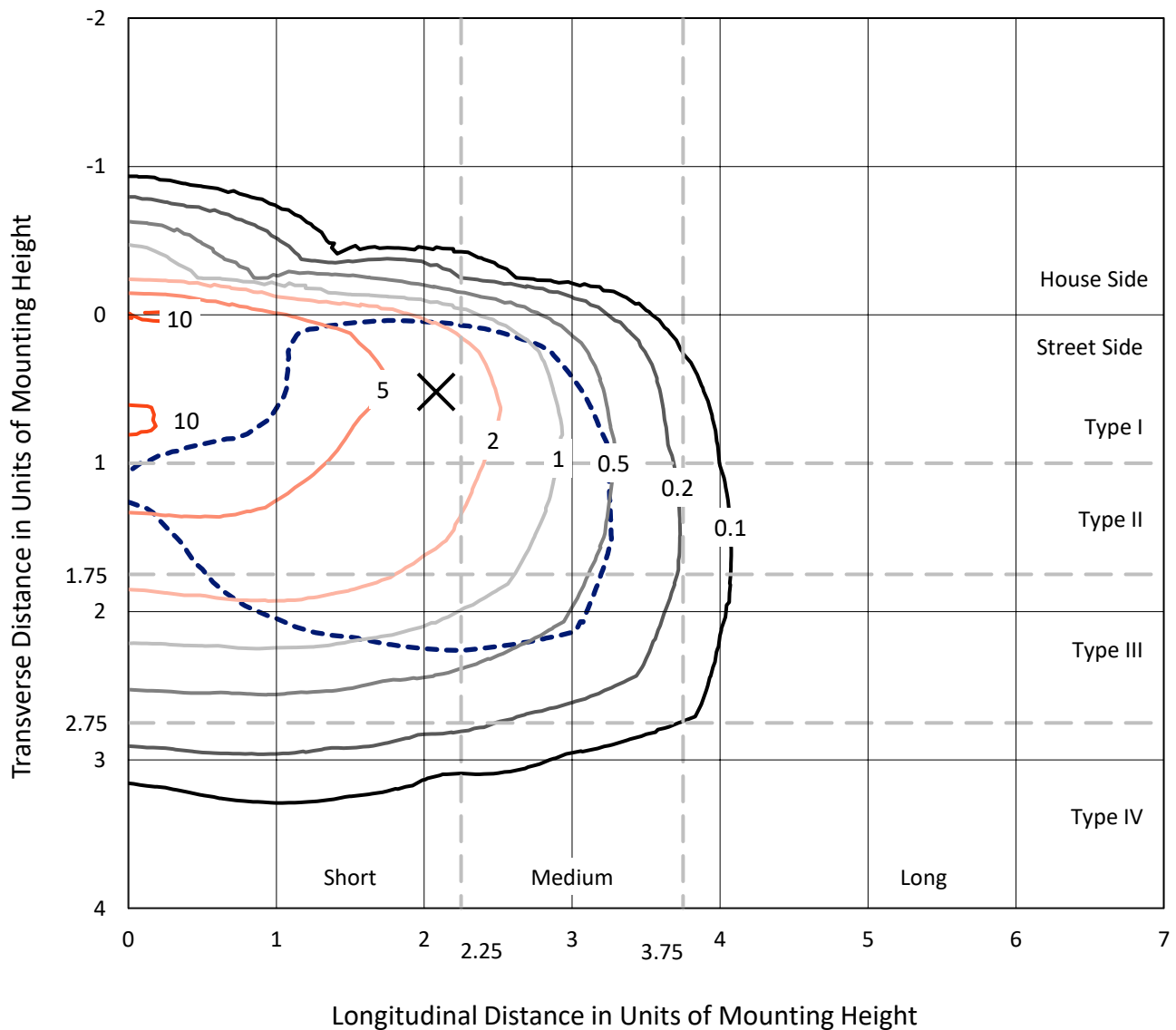


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

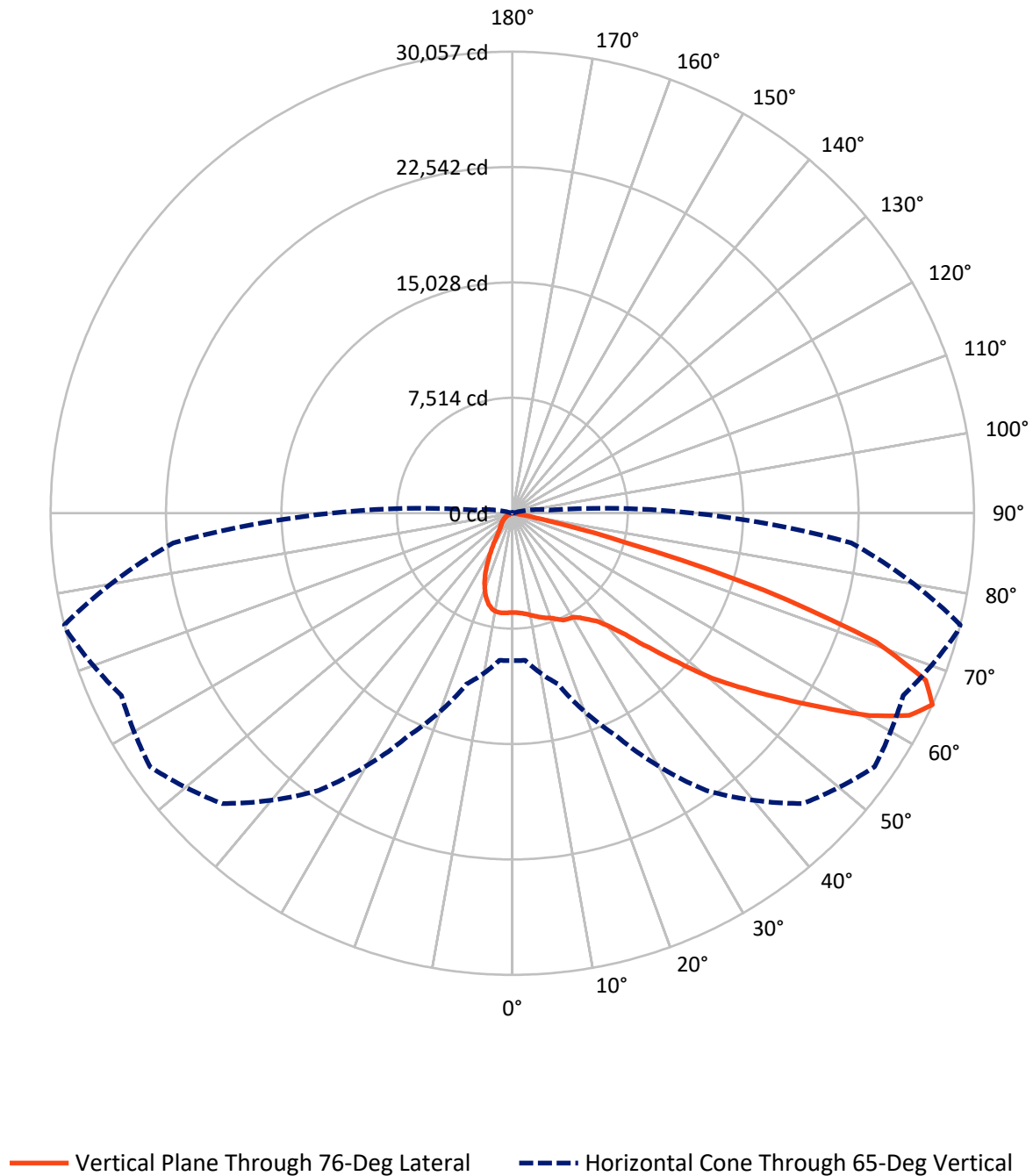


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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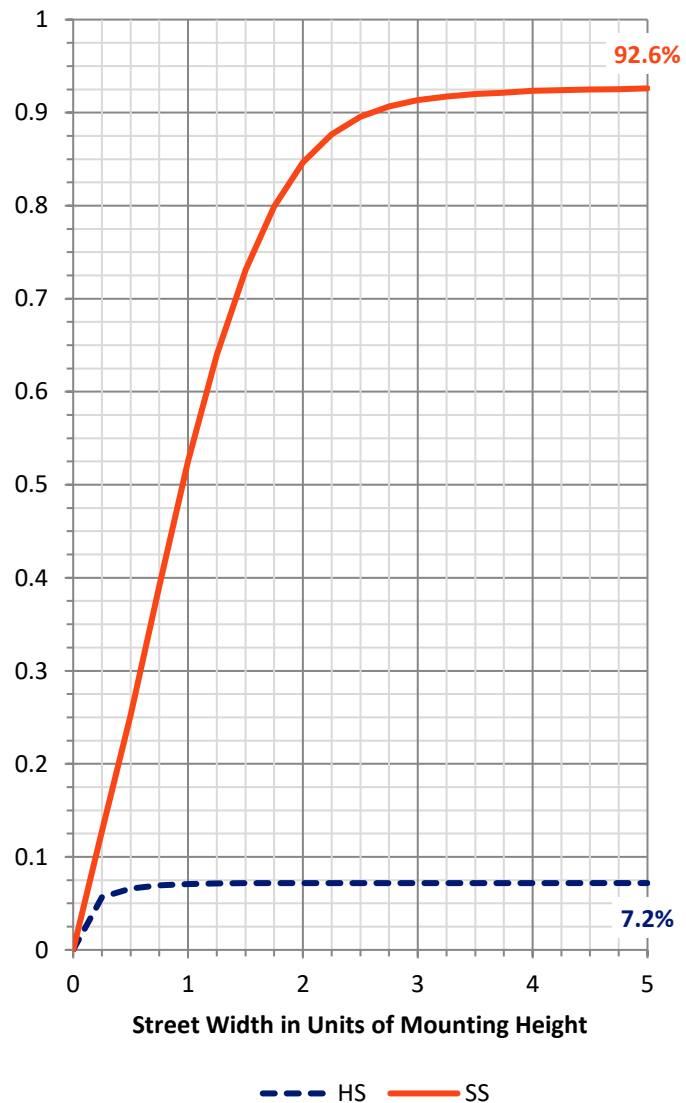
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.8	0.0	2550.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	32769.2	0.0	32769.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	35320.0	0.0	35320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	1.5
10°-20°	1185.1	3.4
20°-30°	1909.7	5.4
30°-40°	3320.4	9.4
40°-50°	5486.8	15.5
50°-60°	8476.0	24.0
60°-70°	10350.4	29.3
70°-80°	3928.2	11.1
80°-90°	131.1	0.4
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°	35320.0	100.0
0°-180°	35320.0	100.0

Coefficient of Utilization



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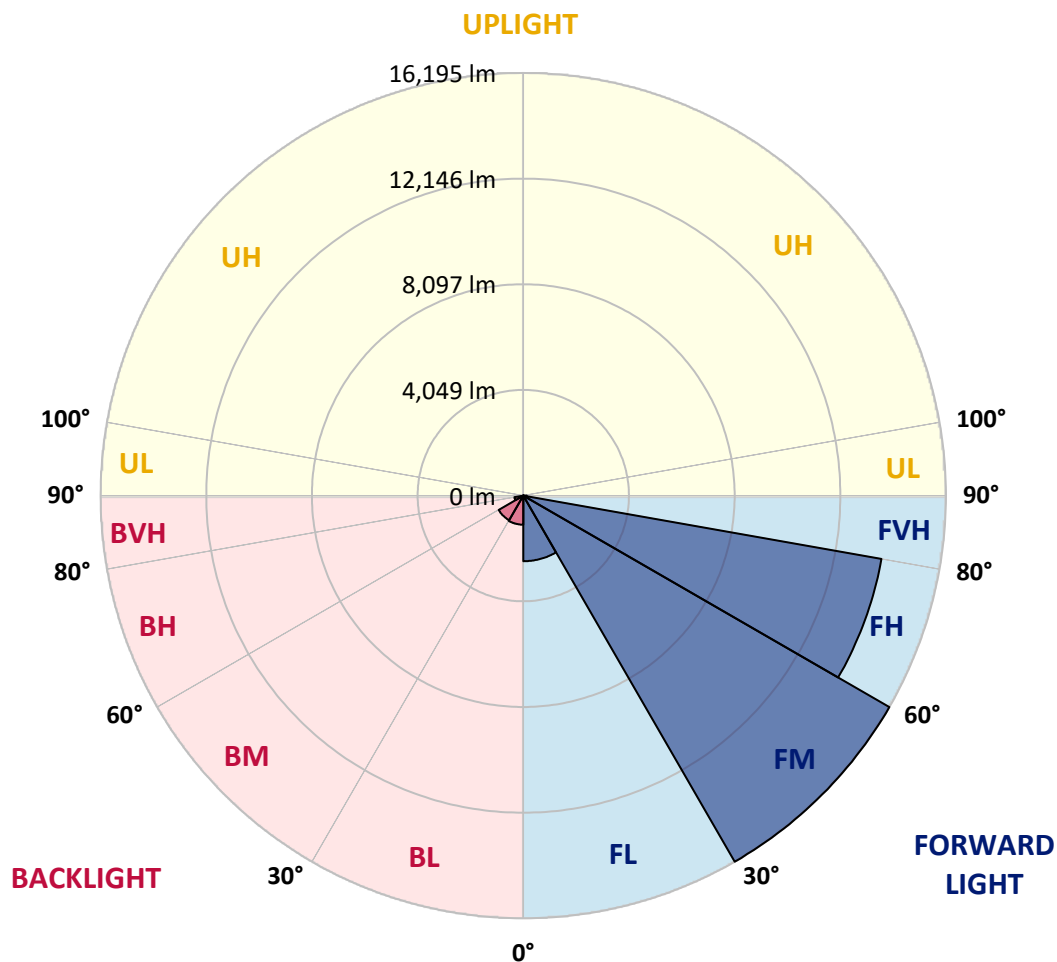
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.6	7.1			
FM	(30°-60°)	16194.8	45.9			
FH	(60°-80°)	13932.5	39.4			G5
FVH	(80°-90°)	129.3	0.4			G2/225
BL	(0°-30°)	1114.4	3.2	B3/2500		
BM	(30°-60°)	1088.5	3.1	B2/2500		
BH	(60°-80°)	346.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2
2.5°	6174.4	6176.9	6191.8	6229.2	6286.6	6334.0	6373.9	6438.7	6483.6	6488.6	6503.5
5°	5748.0	5718.0	5748.0	5845.2	5932.5	6064.7	6226.7	6388.8	6533.5	6543.4	6613.3
7.5°	5269.2	5294.1	5341.5	5441.2	5605.8	5807.8	6042.2	6331.5	6605.8	6630.7	6767.9
10°	4782.9	4837.8	4915.1	5067.2	5296.6	5558.4	5877.6	6291.6	6720.5	6755.4	6992.3
12.5°	4334.0	4359.0	4453.7	4658.2	4942.5	5311.6	5752.9	6269.1	6847.7	6890.1	7231.7
15°	3989.9	4022.3	4104.6	4289.1	4605.8	5079.7	5650.7	6261.7	6972.4	7032.2	7471.1
17.5°	3925.1	3945.0	3979.9	4104.6	4381.4	4895.1	5558.4	6259.2	7092.1	7164.4	7693.0
20°	4191.9	4174.4	4139.5	4127.1	4279.2	4753.0	5491.1	6279.1	7206.8	7289.1	7927.4
22.5°	4860.2	4882.6	4678.2	4436.3	4386.4	4730.5	5481.1	6373.9	7388.8	7486.1	8189.3
25°	6279.1	6107.1	5787.9	5209.3	4772.9	4867.7	5593.4	6598.3	7600.8	7708.0	8426.2
27.5°	7847.6	7795.3	7299.0	6346.4	5533.5	5157.0	5792.8	6770.4	7670.6	7780.3	8560.8
30°	9388.7	9451.1	8882.5	7830.2	6638.2	5693.1	5979.9	6835.2	7732.9	7847.6	8732.9
32.5°	10817.6	10892.4	10393.7	9351.3	7939.9	6620.8	6301.6	7087.1	7994.8	8112.0	9019.7
35°	11942.3	11952.3	11575.7	10745.3	9361.3	7747.9	6997.3	7528.5	8348.9	8486.0	9323.9
37.5°	12974.7	12959.7	12518.3	11802.6	10545.8	8867.6	7872.6	8037.2	8752.9	8895.0	9762.8
40°	13740.2	13750.2	13608.1	12934.8	11650.5	9902.4	8565.8	8513.5	9431.1	9653.1	10401.2
42.5°	14251.4	14343.7	14413.5	14071.9	13039.5	11176.7	9630.6	9533.4	10608.2	10792.7	11303.9
45°	14665.4	14830.0	15179.1	15161.6	14373.6	12740.3	11091.9	10892.4	12276.4	12473.4	12453.5
47.5°	14967.1	15134.2	15712.8	16061.9	15628.0	14256.4	12929.8	12757.7	14268.9	14483.4	13722.8
50°	15121.7	15321.2	16059.4	16735.2	16608.0	15717.7	15024.5	15034.5	16675.3	16882.3	15194.1
52.5°	14760.2	15019.5	16243.9	17460.8	17707.7	17116.7	16987.0	17316.2	18817.4	18994.4	16523.2
55°	13605.6	13932.3	15992.0	18079.3	18982.0	18767.5	19216.4	19717.6	21159.0	21273.7	17887.3
57.5°	12874.9	13221.6	15248.9	18605.4	20513.1	20842.3	21553.0	21919.6	23575.4	23867.1	19453.3
60°	12259.0	12530.8	14638.0	18717.6	22069.2	23380.9	24071.6	24450.6	26557.8	26747.3	21176.4
62.5°	11234.1	11545.8	13605.6	17934.6	22852.2	25413.2	26844.6	26675.0	28864.5	28996.6	22233.8
65°	9585.8	9613.2	11510.9	15967.1	22044.2	26732.4	28792.2	28081.5	29966.7	30056.5	22151.5
67.5°	7154.4	7418.7	8855.1	12550.8	18620.4	25605.2	29423.1	28118.9	29271.0	29021.6	20393.4
70°	4608.3	4810.3	6002.3	8703.0	13426.0	21368.4	27330.9	26191.2	25690.0	25136.4	16692.8
72.5°	2127.1	2386.5	3566.0	4972.4	7962.4	15221.5	22186.4	21278.7	18490.7	17124.2	10610.7
75°	927.7	992.5	1760.5	2623.4	3733.1	8049.6	14628.0	13209.1	8351.4	7628.2	4246.8
77.5°	566.1	608.5	922.7	1406.4	1466.3	3067.2	7880.1	5762.9	2581.0	2276.7	1152.1
80°	384.0	431.4	670.8	735.6	501.2	855.3	2957.5	1538.6	521.2	498.7	246.9
82.5°	187.0	236.9	496.2	411.5	217.0	274.3	860.3	329.2	152.1	142.1	87.3
85°	27.4	47.4	279.3	269.3	97.3	64.8	152.1	82.3	52.4	49.9	39.9
87.5°	0.0	0.0	94.8	42.4	10.0	10.0	17.5	17.5	19.9	17.5	19.9
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°	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2	6461.2
2.5°	6511.0	6523.5	6476.1	6408.8	6336.5	6264.2	6161.9	6069.6	6014.8	6047.2	5967.4
5°	6628.2	6618.3	6493.6	6289.1	6017.3	5690.6	5366.4	5089.6	4999.9	4865.2	4850.2
7.5°	6790.3	6762.9	6498.6	6029.7	5416.3	4802.9	4204.4	3807.9	3580.9	3388.9	3393.9
10°	7017.2	6937.5	6441.2	5573.4	4563.5	3638.3	2875.2	2351.6	2124.6	2052.3	1995.0
12.5°	7251.7	7097.0	6281.6	4957.5	3553.5	2486.2	1748.1	1428.9	1289.2	1244.4	1239.4
15°	7461.1	7216.7	6002.3	4216.8	2583.5	1588.5	1192.0	1087.2	1069.8	1072.3	1069.8
17.5°	7668.1	7311.5	5615.8	3431.3	1755.6	1139.6	1024.9	1000.0	1007.5	1017.4	1014.9
20°	7840.2	7331.5	5122.0	2618.4	1241.9	1000.0	962.6	957.6	965.1	972.5	972.5
22.5°	8027.2	7346.4	4536.0	1812.9	1014.9	930.1	910.2	910.2	920.2	930.1	932.6
25°	8166.8	7264.1	3835.3	1301.7	895.2	862.8	852.8	855.3	865.3	870.3	867.8
27.5°	8189.3	7032.2	3092.2	997.5	812.9	780.5	770.6	780.5	768.1	775.5	770.6
30°	8209.2	6738.0	2339.1	840.4	738.1	688.3	673.3	658.3	648.4	635.9	633.4
32.5°	8271.6	6391.3	1708.2	755.6	668.3	613.4	578.5	536.1	503.7	493.8	491.3
35°	8299.0	5974.9	1254.3	688.3	606.0	546.1	483.8	423.9	376.5	359.1	371.6
37.5°	8403.7	5570.9	972.5	638.4	551.1	476.3	396.5	321.7	276.8	266.8	271.8
40°	8618.2	5132.0	815.4	596.0	503.7	411.5	314.2	241.9	212.0	202.0	199.5
42.5°	8962.3	4695.6	725.7	556.1	456.3	346.6	246.9	189.5	164.6	157.1	157.1
45°	9381.3	4276.7	663.3	513.7	406.5	279.3	194.5	152.1	137.2	132.2	132.2
47.5°	9932.4	3910.1	611.0	471.3	351.6	221.9	157.1	132.2	122.2	124.7	127.2
50°	10491.0	3638.3	553.6	423.9	289.3	182.0	134.7	117.2	114.7	117.2	117.2
52.5°	10912.4	3478.7	476.3	359.1	226.9	152.1	119.7	109.7	107.2	102.2	102.2
55°	11481.0	3443.8	379.0	291.8	179.5	127.2	107.2	99.7	92.3	87.3	84.8
57.5°	12211.6	3483.7	291.8	226.9	139.6	104.7	94.8	82.3	72.3	62.3	62.3
60°	12665.5	3393.9	226.9	174.6	102.2	84.8	72.3	59.8	47.4	39.9	37.4
62.5°	12520.8	3014.9	179.5	129.7	72.3	62.3	47.4	39.9	27.4	19.9	17.5
65°	11775.2	2433.8	144.6	89.8	52.4	37.4	24.9	24.9	12.5	2.5	0.0
67.5°	10306.4	1802.9	114.7	59.8	29.9	17.5	12.5	7.5	0.0	0.0	0.0
70°	8388.8	1301.7	89.8	37.4	17.5	12.5	5.0	2.5	0.0	0.0	0.0
72.5°	5326.5	745.6	69.8	22.4	12.5	5.0	0.0	0.0	0.0	0.0	0.0
75°	2059.8	291.8	47.4	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	583.5	137.2	27.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.1	59.8	15.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.3	24.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	2.5	0.0	0.0	0.0	0.0	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)