

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: P456399

Luminaire Tested: **GALN-SA7C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456399
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-SA7C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 31881 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 377
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

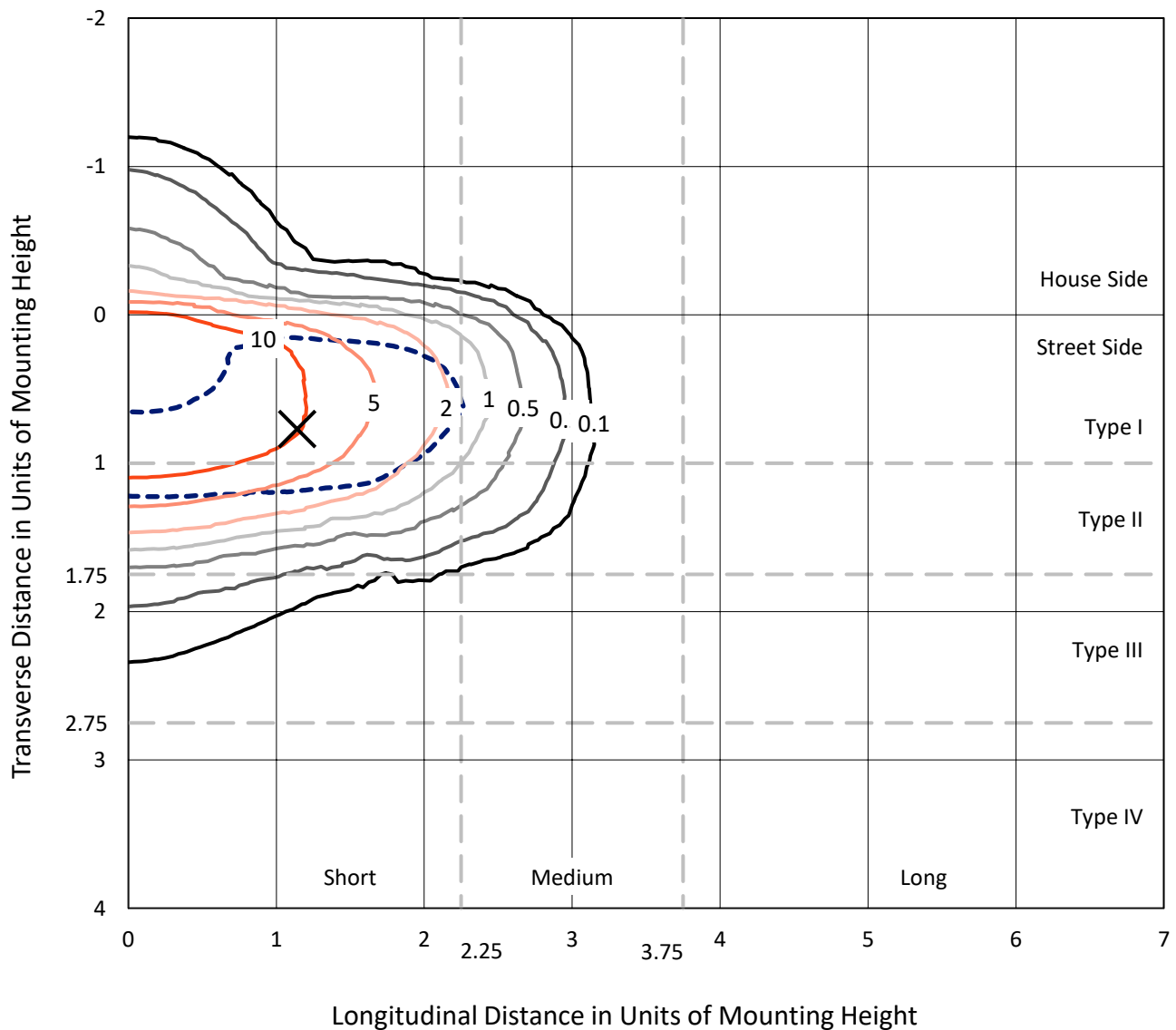


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

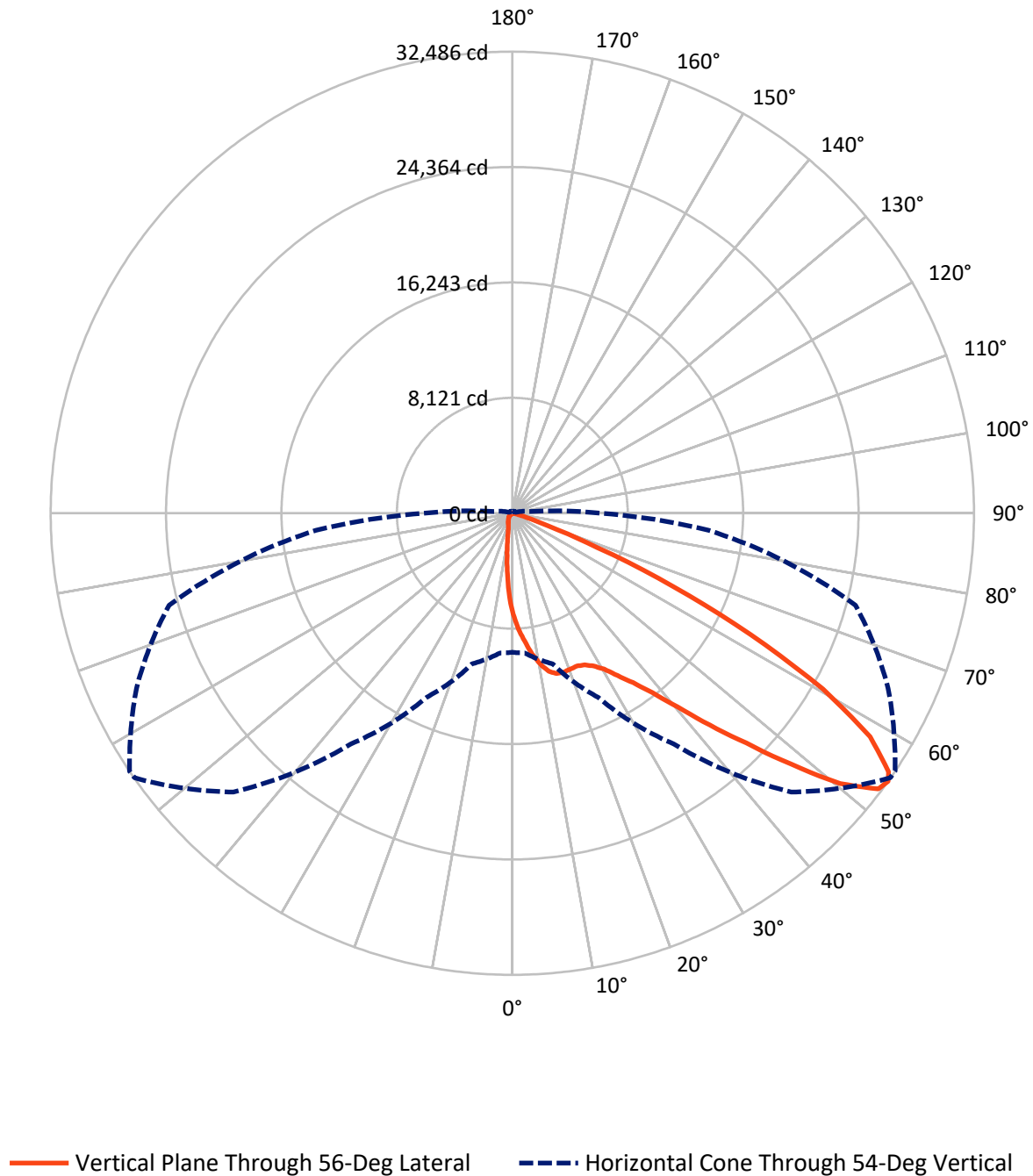


Based on 25 foot mounting height. Maximum calculated value = 17 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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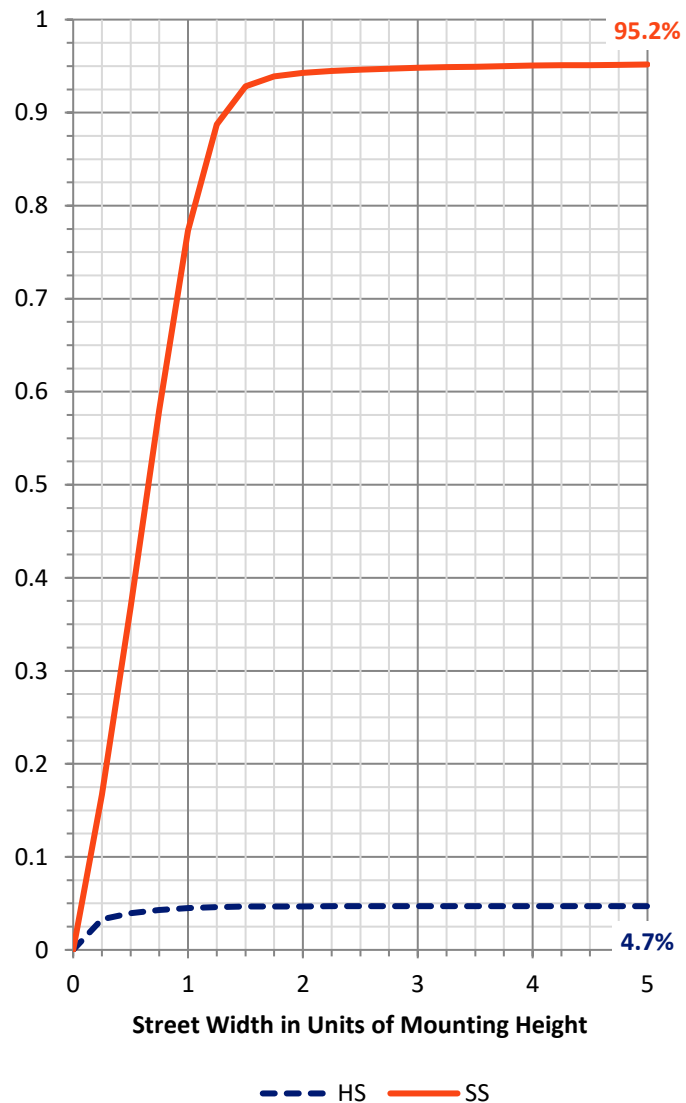
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.6	0.0	1507.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	30373.4	0.0	30373.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	31881.0	0.0	31881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.9	2.0
10°-20°	1692.0	5.3
20°-30°	2930.4	9.2
30°-40°	5058.4	15.9
40°-50°	8609.6	27.0
50°-60°	8520.2	26.7
60°-70°	3888.8	12.2
70°-80°	499.4	1.6
80°-90°	56.3	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°	31881.0	100.0
0°-180°	31881.0	100.0

Coefficient of Utilization



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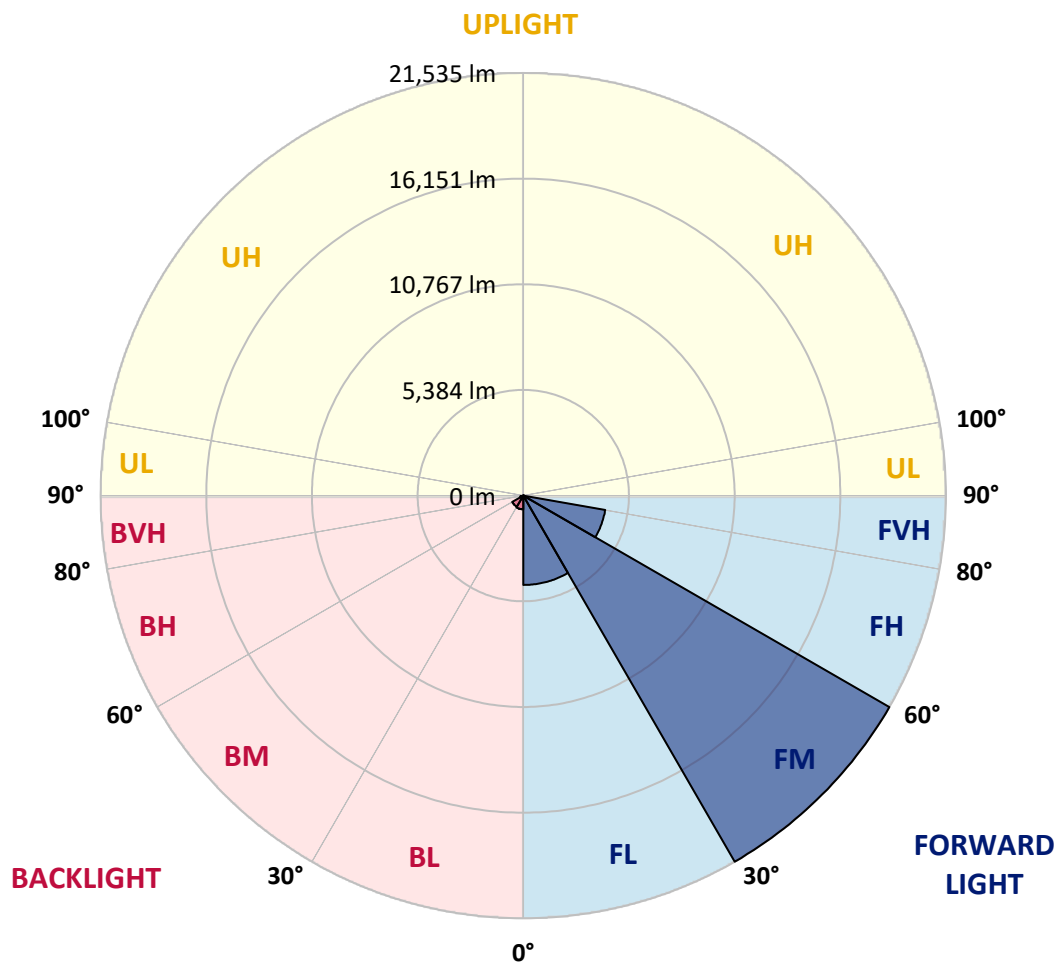
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4551.1	14.3			
FM	(30°-60°)	21534.8	67.5			
FH	(60°-80°)	4237.3	13.3			G2/5000
FVH	(80°-90°)	50.2	0.2			G1/100
BL	(0°-30°)	697.2	2.2	B2/1000		
BM	(30°-60°)	653.4	2.0	B1/1000		
BH	(60°-80°)	151.0	0.5	B1/500		G1/500
BVH	(80°-90°)	6.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0
2.5°	9001.7	8939.3	8853.3	8786.6	8629.6	8403.7	8165.0	8165.0	7934.8	7614.3	7287.4
5°	10382.6	10341.7	10257.8	10085.8	9909.4	9593.2	9113.5	9029.6	8618.8	8038.1	7427.2
7.5°	10944.0	10963.3	10967.6	10922.5	10838.6	10526.7	10051.3	9993.3	9337.2	8558.6	7610.0
10°	10406.2	10500.9	10593.4	10780.5	11045.1	11120.4	10851.5	10791.3	10146.0	9085.6	7807.9
12.5°	9606.1	9657.7	9709.3	10004.0	10535.3	11144.0	11425.8	11423.6	10877.3	9610.4	8059.6
15°	9234.0	9279.2	9283.5	9414.7	9875.0	10761.1	11671.0	11703.3	11591.4	10257.8	8330.6
17.5°	9311.4	9348.0	9317.9	9350.1	9591.0	10339.6	11643.0	11750.6	12170.0	10879.4	8575.8
20°	9816.9	9887.9	9771.7	9681.4	9754.5	10227.7	11548.4	11699.0	12578.7	11486.0	8799.5
22.5°	10724.6	10763.3	10617.0	10369.7	10240.6	10462.2	11522.6	11671.0	12927.1	11982.9	8928.5
25°	11733.4	11720.5	11559.1	11281.7	11010.7	10935.4	11692.5	11825.9	13215.4	12430.3	8967.3
27.5°	12742.2	12780.9	12509.9	12165.7	11840.9	11645.2	12073.2	12172.2	13540.2	12940.0	9014.6
30°	13914.4	13852.0	13585.3	13191.7	12819.6	12546.4	12686.2	12714.2	13987.6	13615.4	9139.3
32.5°	15439.4	15267.4	14968.4	14280.1	14013.4	13550.9	13585.3	13619.7	14531.7	14284.4	9289.9
35°	17508.6	17500.0	16915.0	15987.9	15338.3	14764.0	14613.5	14641.4	15355.6	15278.1	9623.3
37.5°	19999.4	20033.8	19367.1	18433.5	17237.6	16325.6	16015.9	16020.2	16607.4	16650.4	10130.9
40°	22027.8	22118.1	21720.2	21090.0	19909.1	18483.0	17962.5	17915.2	18366.9	18313.1	10855.8
42.5°	22901.0	22984.9	23133.3	23352.7	22703.2	21526.6	20298.4	20362.9	20500.6	20124.2	11668.8
45°	22473.0	22606.4	23189.3	24544.4	25155.2	24759.5	23294.7	23068.8	22485.9	22092.3	12486.2
47.5°	20689.9	21014.7	21989.0	24245.4	26383.4	27721.3	26675.9	26377.0	24473.4	23529.1	13006.7
50°	17758.2	17777.5	19134.8	22019.2	25746.7	29590.5	30128.2	29904.5	26325.3	24335.7	13269.1
52.5°	12873.4	13297.1	14540.3	17880.8	22989.2	29306.5	32328.6	32236.1	28235.4	24748.7	13647.7
54°	9786.8	9868.5	10974.1	14288.7	19820.9	27747.1	32464.1	32485.6	29183.9	24998.2	13871.4
55°	8023.0	7827.3	8988.8	12172.2	17659.2	26368.4	32021.0	32124.3	29609.8	25127.3	14037.0
57.5°	3802.9	3805.0	4693.3	6420.6	11060.1	20474.8	29313.0	29678.7	29657.1	25348.8	14546.8
60°	1925.1	1938.0	2133.7	2964.0	5463.4	13611.1	24236.8	25107.9	27375.0	25381.1	14714.6
62.5°	1346.5	1331.4	1299.2	1426.1	2299.4	6917.4	18044.2	18801.4	23258.1	24152.9	14181.1
65°	1152.9	1120.6	1030.3	1010.9	1161.5	2755.4	11238.7	12473.3	17758.2	20913.6	12662.6
67.5°	985.1	972.2	890.5	841.0	821.7	1200.2	5798.9	6448.5	12137.7	15032.9	9591.0
70°	836.7	830.3	780.8	718.4	664.6	718.4	2150.9	2665.0	6764.7	8094.0	4525.6
72.5°	679.7	686.1	694.8	615.2	559.2	509.8	918.5	1069.0	2830.6	2893.0	1583.1
75°	595.8	589.4	589.4	535.6	466.8	378.6	505.5	544.2	866.8	804.5	367.8
77.5°	419.4	404.4	473.2	440.9	389.3	268.9	288.2	305.4	359.2	307.6	172.1
80°	290.4	290.4	303.3	395.8	350.6	195.7	176.4	189.3	212.9	182.8	98.9
82.5°	163.5	167.8	197.9	210.8	204.3	131.2	116.2	118.3	142.0	124.8	62.4
85°	19.4	32.3	114.0	111.8	83.9	58.1	64.5	66.7	88.2	77.4	36.6
87.5°	2.2	4.3	23.7	30.1	21.5	23.7	23.7	23.7	30.1	34.4	25.8
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°	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0	7083.0
2.5°	7111.0	6947.5	6558.2	6106.5	5818.3	5349.4	4953.6	4667.5	4596.6	4458.9	4499.8
5°	7102.4	6762.6	5968.9	5130.0	4235.2	3568.4	3071.5	2680.1	2508.0	2394.0	2314.4
7.5°	7106.7	6575.4	5302.1	3966.3	2897.3	2243.4	1783.1	1544.4	1385.2	1318.5	1327.1
10°	7119.6	6364.6	4527.7	2938.2	1955.2	1449.7	1168.0	1054.0	1000.2	991.6	989.4
12.5°	7149.7	6134.5	3787.8	2181.1	1368.0	1054.0	946.4	907.7	890.5	890.5	884.0
15°	7182.0	5880.7	3172.6	1621.8	1054.0	905.5	856.1	836.7	826.0	826.0	823.8
17.5°	7182.0	5588.1	2598.3	1258.3	907.7	832.4	793.7	767.9	759.3	759.3	757.1
20°	7136.8	5248.3	2088.6	1013.1	823.8	763.6	724.9	696.9	686.1	681.8	679.7
22.5°	6979.8	4794.4	1662.7	871.1	755.0	703.4	653.9	621.6	613.0	608.7	610.9
25°	6700.2	4282.5	1316.4	765.7	692.6	630.2	587.2	563.5	554.9	554.9	557.1
27.5°	6411.9	3746.9	1043.2	686.1	617.3	561.4	527.0	511.9	509.8	516.2	518.4
30°	6145.2	3209.2	845.3	621.6	550.6	503.3	479.7	475.4	475.4	477.5	479.7
32.5°	5848.4	2738.1	707.7	565.7	496.9	456.0	443.1	443.1	447.4	447.4	451.7
35°	5661.3	2333.8	621.6	511.9	456.0	421.6	413.0	415.1	421.6	430.2	434.5
37.5°	5560.2	2011.1	565.7	468.9	417.3	393.6	385.0	389.3	404.4	419.4	421.6
40°	5568.8	1768.1	520.5	432.3	387.2	361.4	354.9	367.8	382.9	397.9	400.1
42.5°	5663.4	1587.4	477.5	389.3	361.4	324.8	322.6	335.5	342.0	357.1	359.2
45°	5775.3	1456.2	432.3	344.2	314.0	281.8	283.9	294.7	303.3	326.9	331.2
47.5°	5809.7	1365.8	380.7	292.5	258.1	247.4	249.5	256.0	273.2	294.7	296.8
50°	5848.4	1309.9	331.2	247.4	219.4	217.2	219.4	223.7	234.5	243.1	240.9
52.5°	6014.0	1307.8	290.4	215.1	187.1	191.4	193.6	191.4	182.8	169.9	165.6
54°	6168.9	1314.2	271.0	200.0	172.1	178.5	176.4	165.6	144.1	131.2	124.8
55°	6293.6	1320.7	260.3	189.3	163.5	165.6	167.8	146.3	118.3	105.4	101.1
57.5°	6538.9	1305.6	234.5	165.6	144.1	135.5	133.4	96.8	64.5	55.9	51.6
60°	6416.3	1178.7	212.9	142.0	122.6	109.7	90.3	53.8	32.3	23.7	23.7
62.5°	5934.4	1000.2	189.3	116.2	101.1	83.9	47.3	30.1	15.1	8.6	6.5
65°	5308.5	841.0	169.9	92.5	79.6	53.8	25.8	19.4	6.5	0.0	0.0
67.5°	3947.0	623.8	144.1	73.1	60.2	34.4	17.2	10.8	2.2	0.0	0.0
70°	1828.3	380.7	122.6	55.9	43.0	25.8	12.9	6.5	0.0	0.0	0.0
72.5°	524.8	238.8	101.1	40.9	30.1	21.5	10.8	4.3	2.2	0.0	0.0
75°	182.8	191.4	75.3	30.1	23.7	15.1	8.6	4.3	2.2	0.0	0.0
77.5°	109.7	154.9	47.3	25.8	19.4	12.9	8.6	4.3	2.2	2.2	0.0
80°	62.4	103.2	30.1	21.5	17.2	10.8	6.5	4.3	2.2	2.2	0.0
82.5°	34.4	49.5	23.7	19.4	15.1	10.8	6.5	4.3	2.2	2.2	2.2
85°	28.0	25.8	19.4	17.2	12.9	8.6	6.5	2.2	0.0	0.0	0.0
87.5°	21.5	17.2	17.2	17.2	12.9	8.6	6.5	2.2	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)