

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: P456406

Luminaire Tested: **GALN-SA7C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32008 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

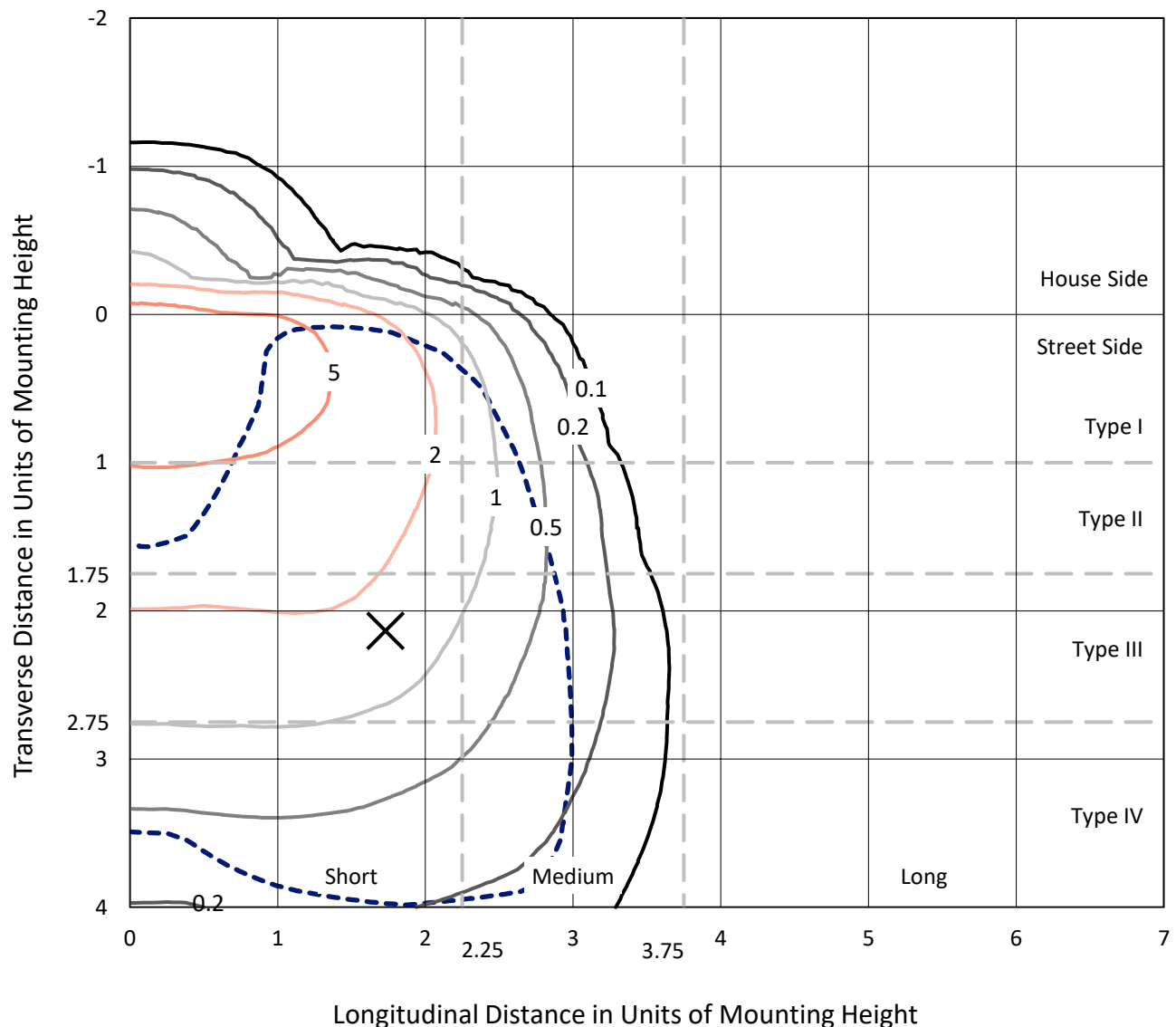
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

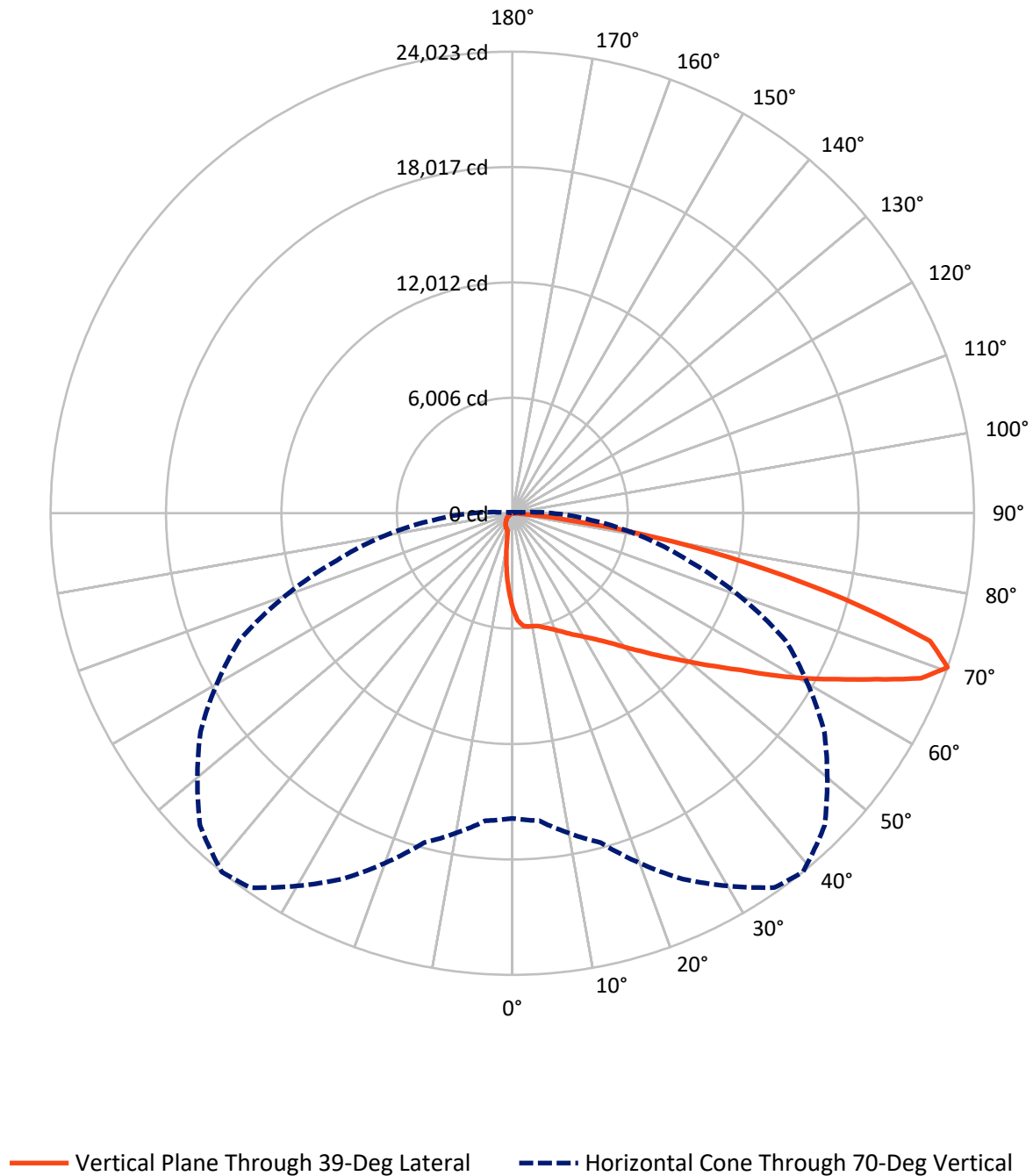
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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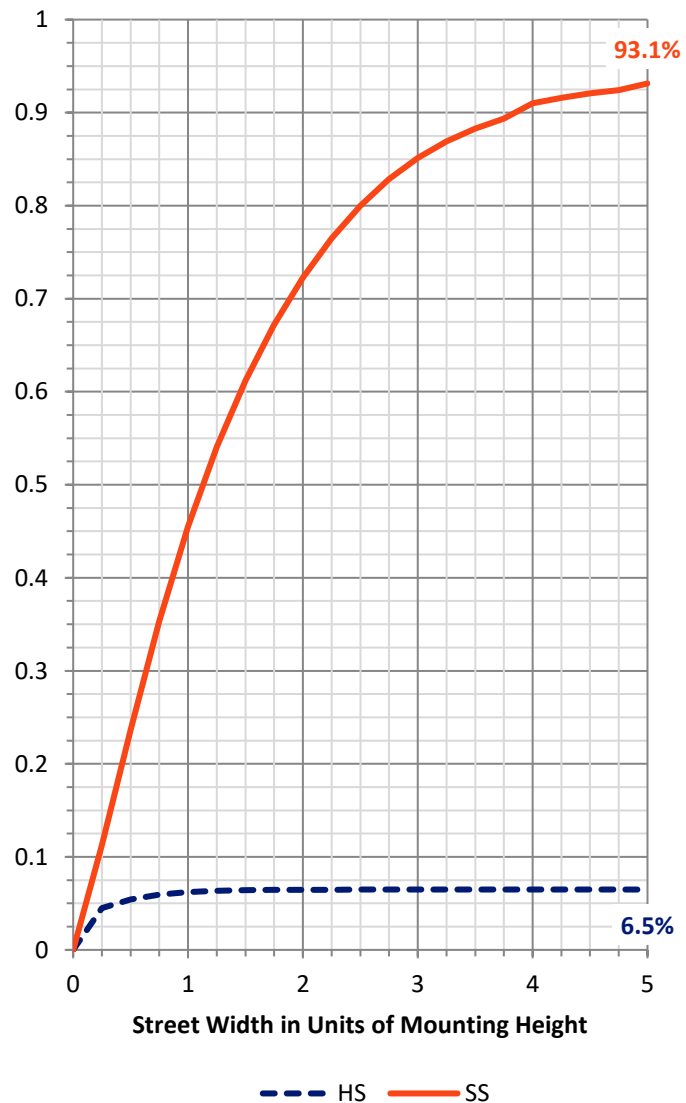
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.1	0.0	2087.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29920.9	0.0	29920.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	32008.0	0.0	32008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.3
10°-20°	1107.0	3.5
20°-30°	1854.5	5.8
30°-40°	2876.2	9.0
40°-50°	4557.9	14.2
50°-60°	6681.2	20.9
60°-70°	8563.6	26.8
70°-80°	5381.1	16.8
80°-90°	560.6	1.8
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°	32008.0	100.0
0°-180°	32008.0	100.0

Coefficient of Utilization



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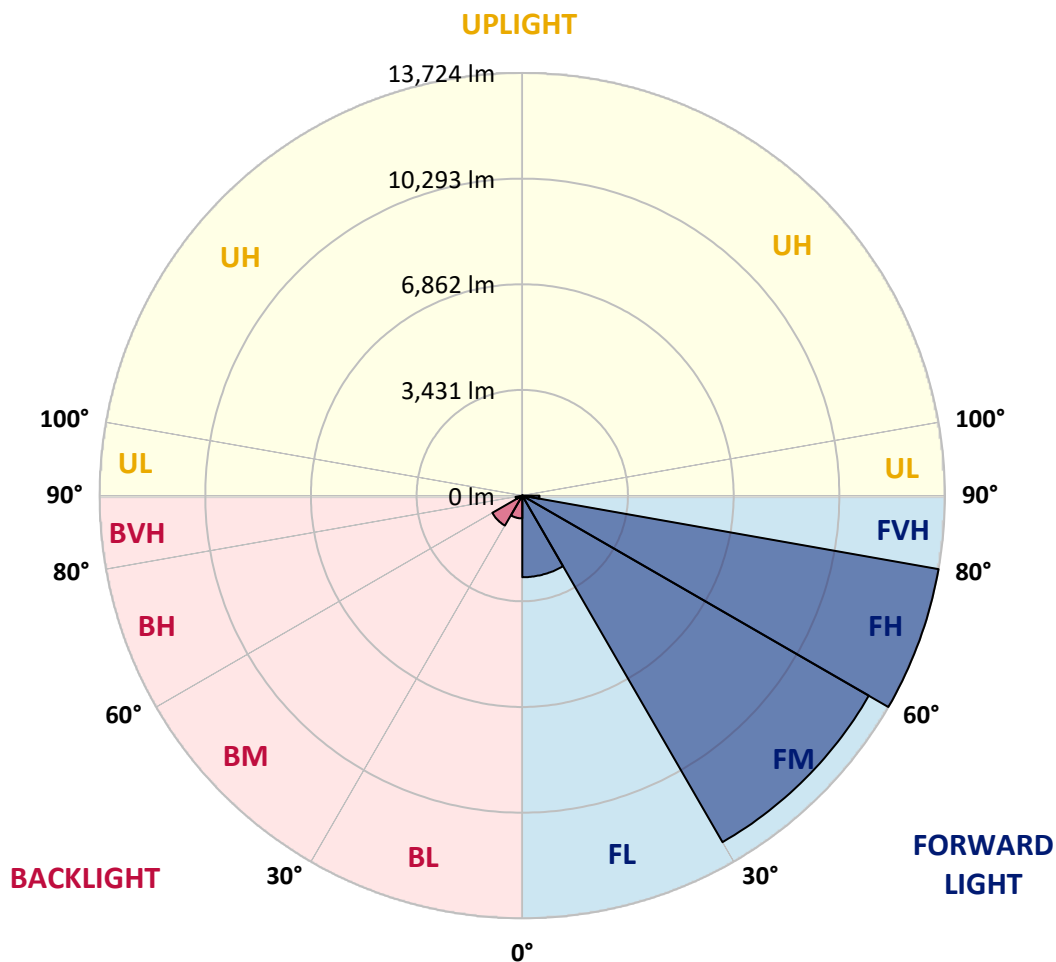
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2648.5	8.3			
FM	(30°-60°)	12992.0	40.6			
FH	(60°-80°)	13724.0	42.9			G5
FVH	(80°-90°)	556.5	1.7			G4/750
BL	(0°-30°)	739.0	2.3	B2/1000		
BM	(30°-60°)	1123.2	3.5	B2/2500		
BH	(60°-80°)	220.7	0.7	B1/500		G1/500
BVH	(80°-90°)	4.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3
2.5°	5770.8	5751.5	5725.6	5695.5	5609.5	5594.4	5542.8	5433.1	5301.9	5194.4	5046.0
5°	6044.0	6054.7	6035.4	5981.6	5919.2	5882.7	5818.1	5648.2	5478.3	5261.1	5018.0
7.5°	6106.4	6127.9	6104.2	6052.6	5992.4	5953.6	5902.0	5755.8	5557.9	5310.5	4977.1
10°	6099.9	6125.7	6110.7	6063.3	6013.9	5977.3	5921.4	5805.2	5646.1	5385.8	4990.0
12.5°	6089.1	6123.6	6121.4	6097.7	6056.9	6028.9	5994.5	5891.3	5742.9	5495.5	5061.0
15°	6059.0	6102.0	6140.8	6160.1	6162.3	6162.3	6119.3	6009.6	5867.6	5639.6	5153.5
17.5°	6071.9	6121.4	6218.2	6274.1	6312.8	6308.5	6263.4	6145.1	5988.1	5788.0	5250.3
20°	6151.5	6218.2	6353.7	6465.5	6504.3	6491.4	6431.1	6293.5	6115.0	5914.9	5344.9
22.5°	6347.3	6407.5	6577.4	6708.6	6736.6	6702.1	6616.1	6429.0	6267.7	6052.6	5458.9
25°	6639.8	6710.7	6867.8	6966.7	6966.7	6947.3	6826.9	6607.5	6439.7	6244.0	5607.3
27.5°	6994.7	7054.9	7209.8	7297.9	7246.3	7190.4	7069.9	6805.4	6644.1	6484.9	5785.9
30°	7353.9	7392.6	7556.0	7594.8	7541.0	7470.0	7341.0	7076.4	6934.4	6811.8	6044.0
32.5°	7693.7	7777.6	7913.1	7904.5	7831.4	7796.9	7678.6	7396.9	7317.3	7304.4	6405.3
35°	8033.5	8098.1	8218.5	8248.6	8184.1	8177.6	8091.6	7883.0	7885.1	7969.0	6968.9
37.5°	8326.1	8384.1	8526.1	8592.8	8605.7	8637.9	8603.5	8465.9	8661.6	8891.7	7715.2
40°	8571.3	8653.0	8833.7	8949.8	9083.2	9201.5	9207.9	9238.0	9631.6	10027.4	8689.6
42.5°	8762.7	8876.7	9139.1	9354.2	9659.6	9810.2	9930.6	10096.2	10758.7	11350.2	9838.1
45°	9012.2	9143.4	9470.3	9808.0	10285.5	10532.9	10700.6	11143.7	12083.6	12890.2	11016.8
47.5°	9425.2	9494.0	9827.4	10319.9	10948.0	11300.7	11627.7	12298.7	13505.4	14228.1	11997.6
50°	9956.4	10001.6	10253.3	10937.2	11750.3	12214.9	12810.6	13600.0	14980.9	15337.9	12552.5
52.5°	10543.6	10558.7	10748.0	11616.9	12649.3	13234.4	13901.1	14875.5	16183.2	16129.5	12920.3
55°	11225.4	11203.9	11365.3	12354.7	13714.0	14382.9	15159.4	16181.1	17226.4	16690.8	13131.1
57.5°	12006.2	11948.1	12105.2	13333.3	15077.7	15877.8	16667.2	17308.1	18035.1	17161.9	13232.2
60°	12823.6	12707.4	12894.5	14432.4	16684.4	17443.6	18099.7	18271.7	18886.9	17536.1	13058.0
62.5°	13475.3	13477.4	13825.9	15602.5	18336.3	19000.9	19349.3	19504.2	19620.3	17454.4	12141.7
65°	14492.6	14527.1	15084.1	17226.4	20248.4	20824.8	21063.6	20560.3	19652.6	16439.2	10765.2
67.5°	15542.3	15652.0	16671.5	19463.3	22457.3	22921.9	22614.4	20764.6	18775.0	14122.7	8162.6
70°	15884.3	16064.9	17744.8	21003.4	23782.3	24023.2	22982.2	19811.8	15695.0	9442.4	4108.2
72.5°	14555.0	14847.5	17127.5	20442.0	22937.0	22728.4	20562.4	16615.6	9977.9	3585.5	1254.0
75°	10264.0	10393.1	14234.5	16957.5	18448.1	17856.6	15641.2	10711.4	4103.9	1006.6	430.2
77.5°	5299.8	5237.4	8465.9	11251.3	13156.9	12543.9	10242.5	5545.0	1555.1	419.4	266.7
80°	2740.2	2785.4	3663.0	5895.6	8031.4	7390.4	5461.1	2570.3	828.1	232.3	204.3
82.5°	1535.7	1441.1	2105.7	2574.6	3755.4	2944.6	2095.0	1819.6	361.3	139.8	193.6
85°	279.6	292.5	1155.0	1391.6	1303.4	828.1	675.4	1215.2	105.4	77.4	135.5
87.5°	4.3	4.3	223.7	400.1	253.8	116.1	212.9	174.2	21.5	30.1	23.7
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°	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3	4994.3
2.5°	4970.7	4889.0	4736.2	4585.7	4394.3	4237.2	4131.8	4022.1	3910.3	3918.9	3944.7
5°	4884.7	4742.7	4441.6	4123.2	3817.8	3542.5	3271.5	3028.4	2929.5	2839.2	2843.5
7.5°	4798.6	4598.6	4157.7	3658.6	3196.2	2727.3	2387.5	2107.9	1959.5	1847.6	1815.3
10°	4759.9	4495.3	3897.4	3211.3	2555.2	2043.3	1606.7	1378.7	1202.3	1146.4	1161.5
12.5°	4777.1	4443.7	3663.0	2806.9	2026.1	1423.9	1118.5	1002.3	963.6	957.1	952.8
15°	4809.4	4407.2	3432.8	2359.5	1488.4	1058.2	939.9	918.4	914.1	909.8	912.0
17.5°	4852.4	4374.9	3187.6	1940.1	1142.1	924.9	890.5	879.7	877.6	877.6	877.6
20°	4895.4	4338.3	2914.4	1565.8	952.8	873.3	851.7	845.3	843.1	843.1	841.0
22.5°	4944.9	4306.1	2637.0	1230.3	877.6	836.7	817.3	813.0	810.9	808.7	808.7
25°	5015.9	4265.2	2342.3	1006.6	830.2	802.3	782.9	778.6	776.5	767.9	770.0
27.5°	5110.5	4235.1	2039.0	869.0	787.2	759.3	746.4	739.9	735.6	729.1	731.3
30°	5239.5	4209.3	1716.4	793.7	737.8	714.1	701.2	696.9	692.6	686.1	686.1
32.5°	5463.2	4220.0	1376.6	733.5	692.6	664.6	651.7	647.4	643.1	636.7	636.7
35°	5798.8	4282.4	1101.3	681.8	638.8	610.9	597.9	597.9	591.5	582.9	580.7
37.5°	6347.3	4441.6	884.0	632.4	587.2	561.4	546.3	542.0	535.6	522.7	520.5
40°	6994.7	4688.9	744.2	582.9	539.9	514.1	501.2	488.3	471.0	458.1	456.0
42.5°	7807.7	4942.7	645.3	533.4	494.7	471.0	456.0	434.5	408.7	391.5	389.3
45°	8655.1	5175.0	578.6	488.3	451.7	432.3	415.1	380.7	348.4	326.9	324.8
47.5°	9287.5	5218.0	524.8	445.2	415.1	395.8	372.1	329.1	286.1	266.7	260.3
50°	9586.5	5009.4	468.9	402.2	378.6	357.0	326.9	277.5	230.1	206.5	202.2
52.5°	9691.9	4648.1	423.7	363.5	342.0	316.2	279.6	223.7	180.7	157.0	154.9
55°	9648.9	4192.1	382.9	326.9	299.0	268.9	232.3	178.5	133.4	114.0	109.7
57.5°	9423.0	3611.3	342.0	290.4	256.0	225.8	185.0	133.4	90.3	73.1	71.0
60°	8814.3	2819.8	301.1	249.5	217.2	185.0	146.3	94.6	55.9	40.9	40.9
62.5°	7786.2	2092.8	262.4	208.6	182.8	148.4	103.2	60.2	30.1	21.5	19.4
65°	6506.4	1544.3	219.4	176.4	152.7	116.1	73.1	36.6	15.1	6.5	4.3
67.5°	4540.5	952.8	182.8	144.1	124.8	83.9	45.2	15.1	6.5	0.0	0.0
70°	2062.7	453.8	139.8	109.7	94.6	60.2	23.7	8.6	4.3	0.0	0.0
72.5°	641.0	238.7	98.9	79.6	64.5	38.7	12.9	6.5	4.3	0.0	0.0
75°	296.8	152.7	62.4	43.0	36.6	19.4	8.6	4.3	2.2	0.0	0.0
77.5°	221.5	118.3	36.6	23.7	19.4	12.9	6.5	4.3	2.2	0.0	0.0
80°	193.6	60.2	21.5	15.1	10.8	8.6	4.3	2.2	0.0	0.0	0.0
82.5°	174.2	30.1	12.9	8.6	6.5	4.3	2.2	2.2	0.0	0.0	0.0
85°	94.6	17.2	8.6	6.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	17.2	8.6	6.5	4.3	4.3	2.2	2.2	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)