

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: P456404

Luminaire Tested: **GALN-SA7C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
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-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32189 lumens
Efficiency: N/A
Efficacy: 85.4 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): 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

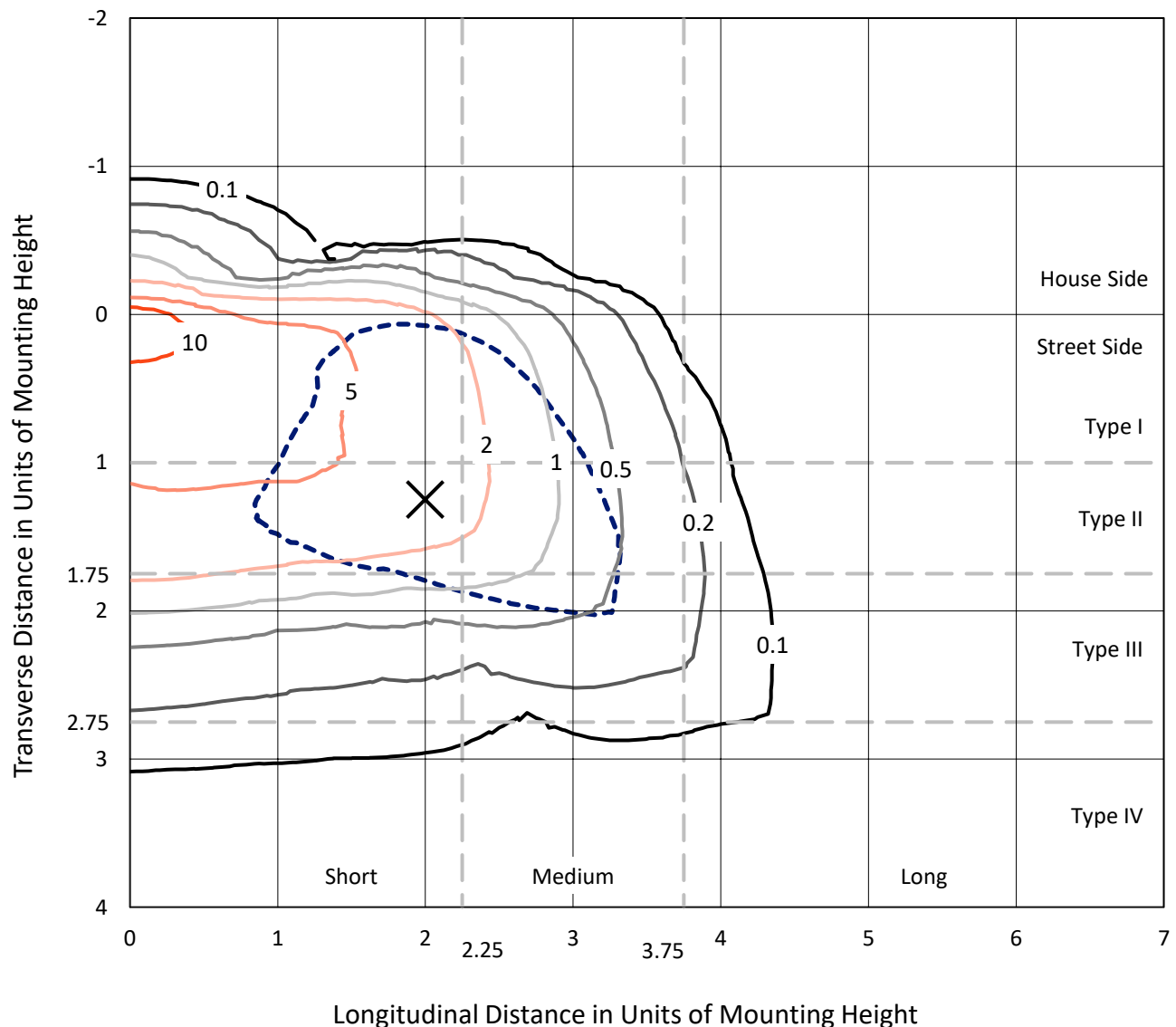


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Iso-Footcandle Lines of Horizontal Illumination

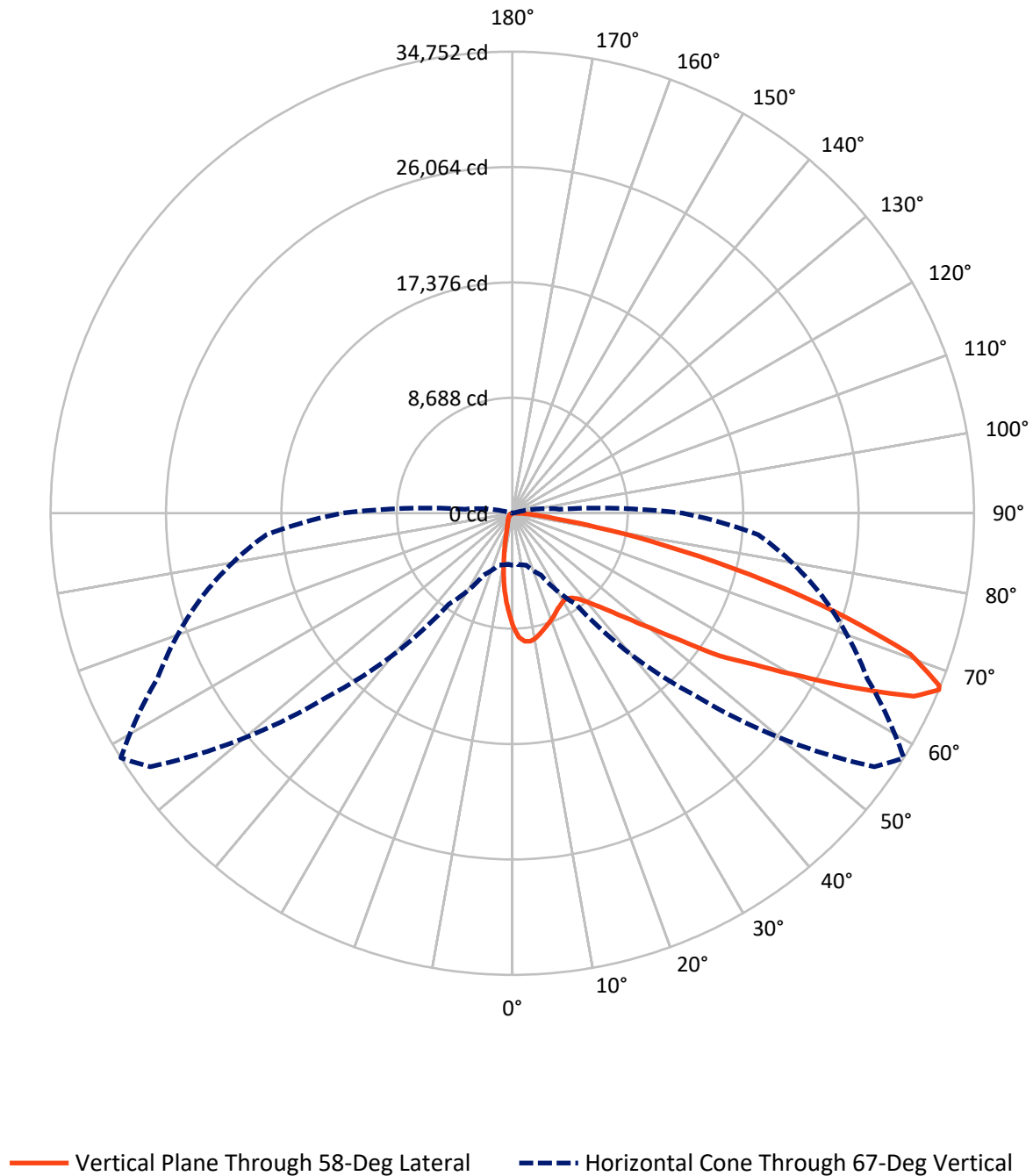
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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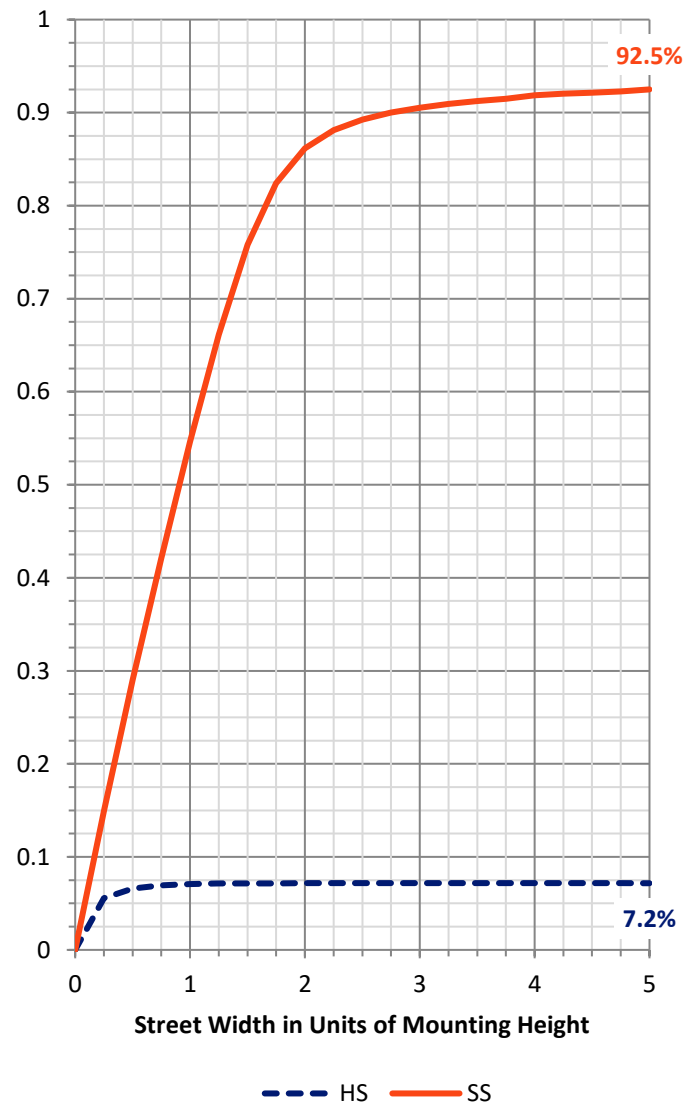
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.9	0.0	2322.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29866.1	0.0	29866.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	32189.0	0.0	32189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.4	2.2
10°-20°	1495.5	4.6
20°-30°	2026.5	6.3
30°-40°	2810.6	8.7
40°-50°	4482.6	13.9
50°-60°	7748.6	24.1
60°-70°	8851.3	27.5
70°-80°	3690.2	11.5
80°-90°	391.3	1.2
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°	32189.0	100.0
0°-180°	32189.0	100.0

Coefficient of Utilization



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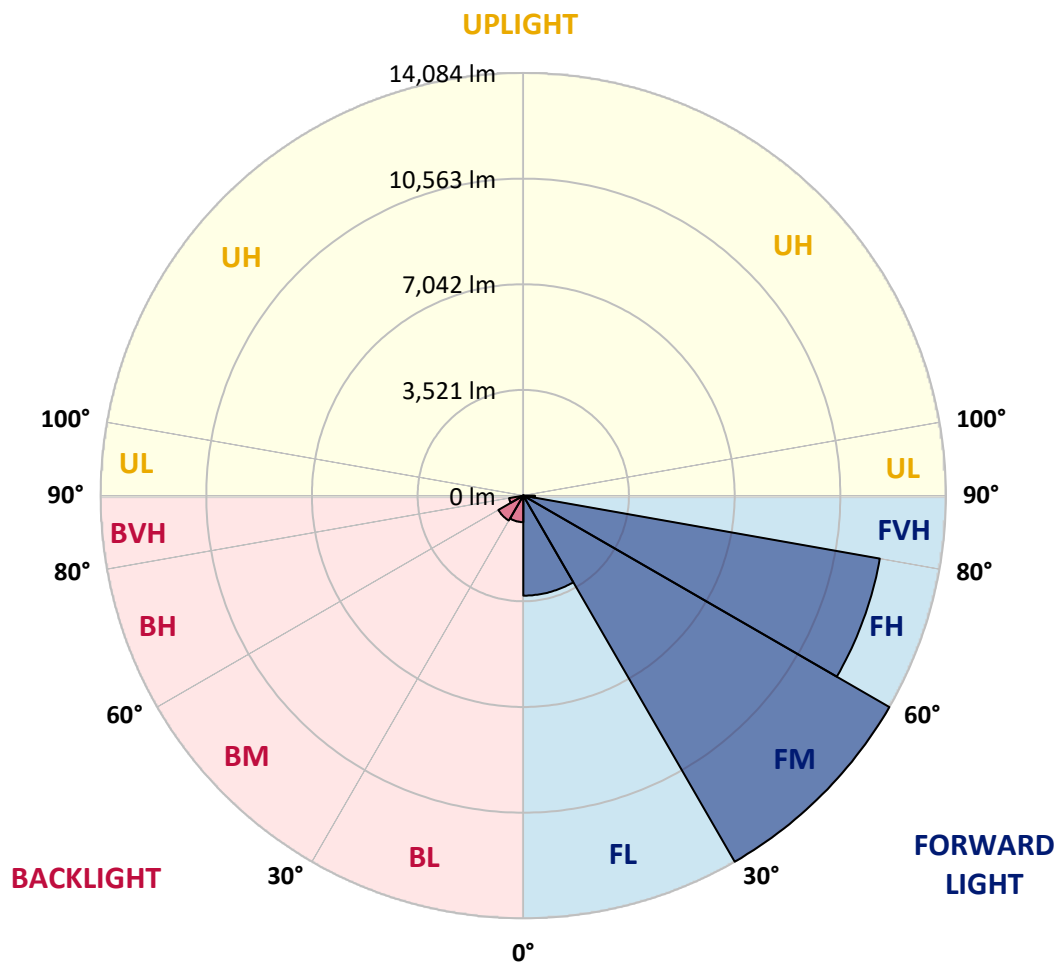
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3332.3	10.4			
FM	(30°-60°)	14084.0	43.8			
FH	(60°-80°)	12061.3	37.5			G5
FVH	(80°-90°)	388.4	1.2			G3/500
BL	(0°-30°)	882.1	2.7	B2/1000		
BM	(30°-60°)	957.8	3.0	B1/1000		
BH	(60°-80°)	480.2	1.5	B1/500		G1/500
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: B2-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0
2.5°	9903.2	9918.3	9862.3	9817.2	9701.0	9576.2	9410.6	9322.4	9171.9	8911.6	8623.4
5°	10135.5	10154.9	10146.3	10135.5	10090.3	9969.9	9759.1	9681.6	9460.1	9036.3	8515.8
7.5°	9619.3	9690.2	9698.8	9782.7	9862.3	9873.1	9793.5	9735.4	9531.1	9034.2	8324.4
10°	8935.2	8982.6	9051.4	9148.2	9339.6	9498.8	9576.2	9567.6	9449.3	8967.5	8100.7
12.5°	8244.8	8270.6	8376.0	8541.6	8776.1	9047.1	9253.6	9294.5	9296.6	8887.9	7913.5
15°	7651.1	7640.3	7722.1	7913.5	8242.6	8582.5	8952.5	9017.0	9120.2	8810.5	7739.3
17.5°	7143.5	7199.4	7212.3	7423.1	7726.4	8167.3	8638.4	8752.4	8958.9	8743.8	7595.2
20°	6829.4	6859.5	6887.5	7005.8	7279.0	7743.6	8343.7	8500.7	8808.3	8683.6	7433.8
22.5°	6736.9	6756.3	6732.6	6769.2	6962.8	7375.8	8023.2	8231.9	8664.2	8627.7	7302.6
25°	6807.9	6827.3	6771.3	6728.3	6795.0	7076.8	7713.5	7967.3	8548.1	8616.9	7203.7
27.5°	6980.0	7016.6	6939.1	6861.7	6823.0	6915.5	7470.4	7765.1	8468.5	8668.5	7158.5
30°	7248.9	7270.4	7212.3	7117.7	7029.5	6937.0	7343.5	7625.3	8447.0	8789.0	7154.2
32.5°	7541.4	7586.6	7554.3	7491.9	7377.9	7158.5	7380.1	7629.6	8498.6	8963.2	7208.0
35°	7902.8	7954.4	7984.5	7971.6	7825.3	7552.2	7612.4	7823.2	8636.3	9283.7	7354.3
37.5°	8257.7	8302.9	8472.8	8530.9	8401.8	8143.7	8064.1	8203.9	8939.5	9703.2	7618.8
40°	8664.2	8724.4	8963.2	9184.8	9122.4	8851.4	8705.1	8821.2	9404.2	10335.5	8120.0
42.5°	9053.5	9161.1	9524.6	9916.1	9974.2	9670.9	9574.1	9612.8	10092.5	11245.4	8819.1
45°	9606.4	9707.5	10176.4	10707.7	10980.8	10744.2	10645.3	10638.8	11036.8	12525.3	9952.7
47.5°	10404.4	10494.7	11047.5	11572.4	12058.5	12090.8	11903.6	11968.2	12224.1	14022.4	11342.2
50°	11383.1	11596.0	11959.5	12505.9	13155.5	13680.3	13738.4	13652.4	13871.8	15756.1	13011.4
52.5°	12804.9	12886.6	13220.0	13669.6	14431.0	15321.6	16012.0	15893.7	15824.9	17408.0	14697.8
55°	13865.3	13975.0	14493.4	15110.8	16227.1	17401.6	18898.7	18939.5	18070.5	18995.5	16347.6
57.5°	13544.8	13712.6	14497.7	15738.9	18193.1	20339.8	21454.1	21482.0	20148.4	20537.7	18210.3
60°	11899.3	11978.9	13103.9	14760.1	18360.9	23523.3	25078.5	24852.6	22262.8	22262.8	19855.9
62.5°	8438.4	8563.1	9475.1	11912.2	16582.0	24628.9	29419.2	28952.4	25175.3	23912.6	20836.7
65°	5392.6	5272.1	5876.5	7519.9	12353.2	22996.3	33198.5	33226.5	27915.6	24573.0	20301.1
67°	3906.2	3858.9	4033.1	5140.9	8376.0	19331.0	33278.1	34751.5	29490.2	24155.7	18588.9
67.5°	3572.8	3609.4	3736.3	4637.6	7610.2	17590.9	32916.7	34661.2	29845.1	23904.0	17969.4
70°	2708.1	2645.7	2783.4	3280.3	4562.3	11097.0	28315.7	31789.6	29404.1	21406.7	14357.9
72.5°	1991.8	1985.4	2176.8	2682.3	3512.6	5910.9	21256.2	25489.3	24022.3	16300.3	9040.6
75°	1344.4	1404.6	1710.0	2241.3	3183.5	3833.1	14491.3	18492.1	16676.7	9255.7	3695.4
77.5°	765.8	770.1	1101.3	1800.4	2858.7	3084.5	8586.8	11781.0	8827.7	3078.1	1097.0
80°	331.3	363.5	546.4	1307.8	2370.4	2731.8	4923.6	6474.5	3570.7	651.8	354.9
82.5°	122.6	144.1	240.9	804.5	1729.4	2249.9	2974.8	3091.0	1211.0	230.2	221.6
85°	0.0	4.3	88.2	376.4	901.3	1004.5	1987.5	1832.7	535.6	109.7	144.1
87.5°	0.0	0.0	0.0	38.7	118.3	374.3	617.3	688.3	129.1	38.7	34.4
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°	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0	8533.0
2.5°	8468.5	8328.7	7978.1	7627.4	7367.2	7149.9	6823.0	6644.4	6549.8	6410.0	6418.6
5°	8255.5	7971.6	7354.3	6715.4	6199.2	5695.8	5093.6	4850.5	4646.2	4530.0	4452.6
7.5°	7939.3	7519.9	6605.7	5753.9	4960.2	4080.4	3420.1	2979.1	2682.3	2572.6	2467.2
10°	7593.0	7035.9	5846.4	4665.5	3564.2	2656.5	2097.2	1692.8	1548.7	1415.4	1428.3
12.5°	7272.5	6595.0	5149.5	3682.5	2497.3	1688.5	1316.4	1150.8	1103.5	1088.4	1088.4
15°	7010.1	6173.4	4400.9	2768.3	1712.2	1213.2	1054.0	1008.8	991.6	987.3	987.3
17.5°	6730.5	5773.3	3725.5	2045.6	1245.4	1015.3	961.5	931.4	924.9	920.6	920.6
20°	6481.0	5371.0	3084.5	1522.9	1006.7	914.2	879.8	860.4	853.9	849.6	851.8
22.5°	6244.3	5014.0	2482.3	1150.8	886.2	832.4	798.0	778.7	765.8	755.0	757.2
25°	6033.5	4669.8	1996.1	942.1	798.0	750.7	716.3	688.3	660.4	647.5	645.3
27.5°	5885.1	4368.7	1555.2	806.6	718.4	666.8	623.8	589.4	552.8	533.4	529.1
30°	5762.5	4063.2	1230.4	712.0	638.8	589.4	535.6	486.1	447.4	428.0	419.4
32.5°	5682.9	3772.9	970.1	634.5	572.2	511.9	451.7	402.2	359.2	339.9	335.6
35°	5670.0	3529.8	793.7	570.0	511.9	447.4	385.0	331.3	294.7	275.3	271.0
37.5°	5762.5	3342.7	664.7	518.4	462.5	391.5	322.6	273.2	240.9	225.9	223.7
40°	6009.9	3224.3	576.5	475.4	417.3	339.9	275.3	232.3	200.0	185.0	185.0
42.5°	6481.0	3228.6	518.4	434.5	372.1	290.4	234.5	193.6	165.6	152.7	148.4
45°	7216.6	3374.9	468.9	393.6	329.1	251.7	200.0	159.2	131.2	120.5	120.5
47.5°	8201.8	3665.3	425.9	352.8	290.4	215.1	169.9	129.1	105.4	94.6	94.6
50°	9490.2	4132.1	389.3	318.3	258.1	185.0	137.7	105.4	81.7	73.1	71.0
52.5°	10836.7	4708.5	346.3	288.2	221.6	157.0	111.9	81.7	62.4	55.9	53.8
55°	12323.1	5272.1	305.4	258.1	180.7	131.2	88.2	64.5	45.2	38.7	38.7
57.5°	13822.3	5824.9	256.0	215.1	142.0	96.8	68.8	47.3	30.1	23.7	23.7
60°	15091.4	6003.4	217.3	174.2	107.5	68.8	49.5	30.1	17.2	10.8	10.8
62.5°	15265.6	5401.2	182.8	133.4	77.4	47.3	25.8	17.2	6.5	4.3	4.3
65°	14319.2	4388.0	152.7	101.1	51.6	23.7	10.8	6.5	2.2	0.0	0.0
67°	12830.7	3557.8	124.8	75.3	36.6	15.1	6.5	2.2	0.0	0.0	0.0
67.5°	12450.0	3392.1	120.5	71.0	32.3	12.9	4.3	2.2	0.0	0.0	0.0
70°	9769.8	2540.3	86.0	43.0	19.4	8.6	0.0	0.0	0.0	0.0	0.0
72.5°	6072.3	1436.9	62.4	25.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0
75°	2295.1	503.3	43.0	17.2	8.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	714.1	191.4	25.8	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	240.9	73.1	17.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.4	30.1	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.5	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	4.3	2.2	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)