

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: P456413

Luminaire Tested: **GALN-SA7C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29089 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 377
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

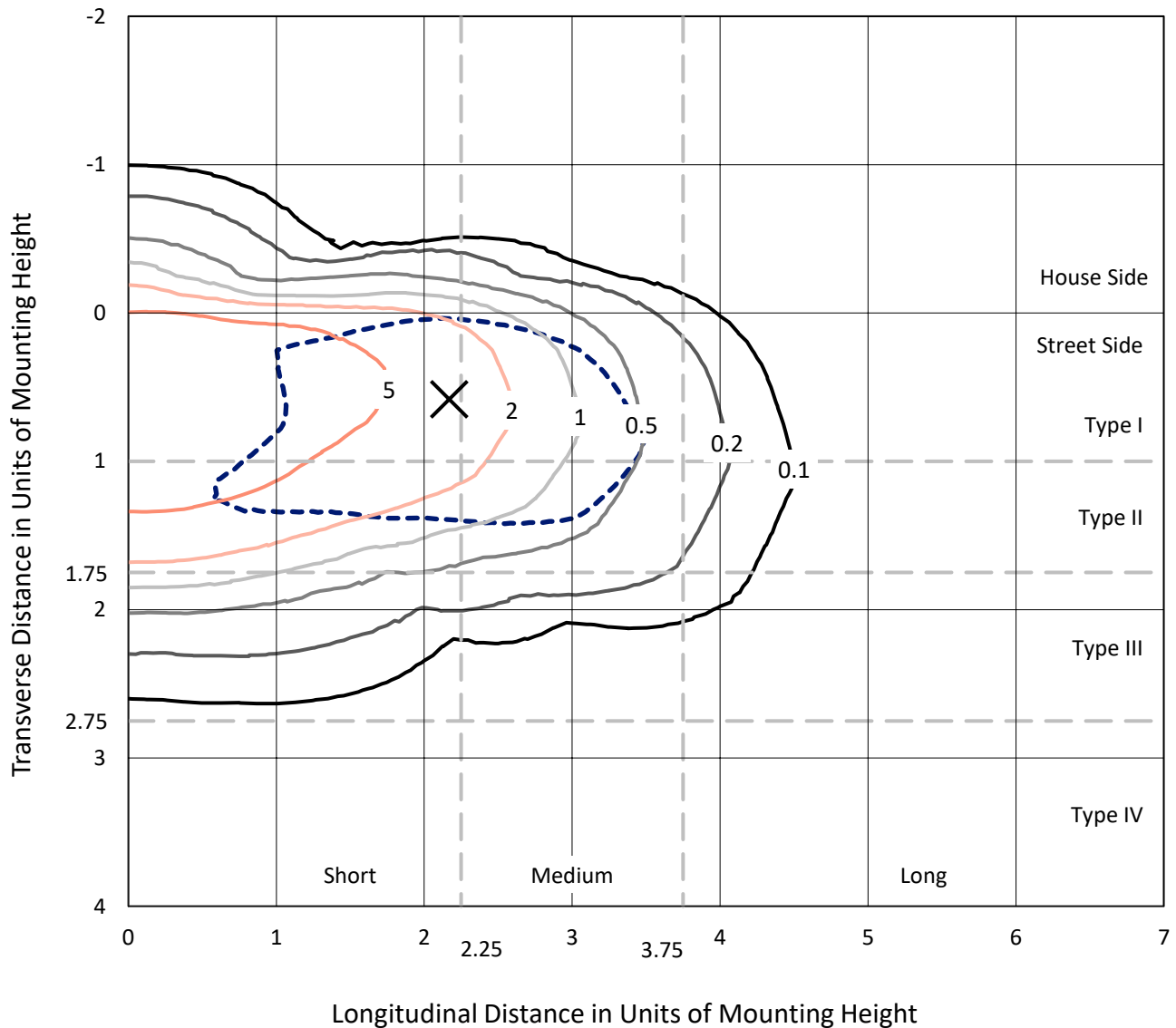


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

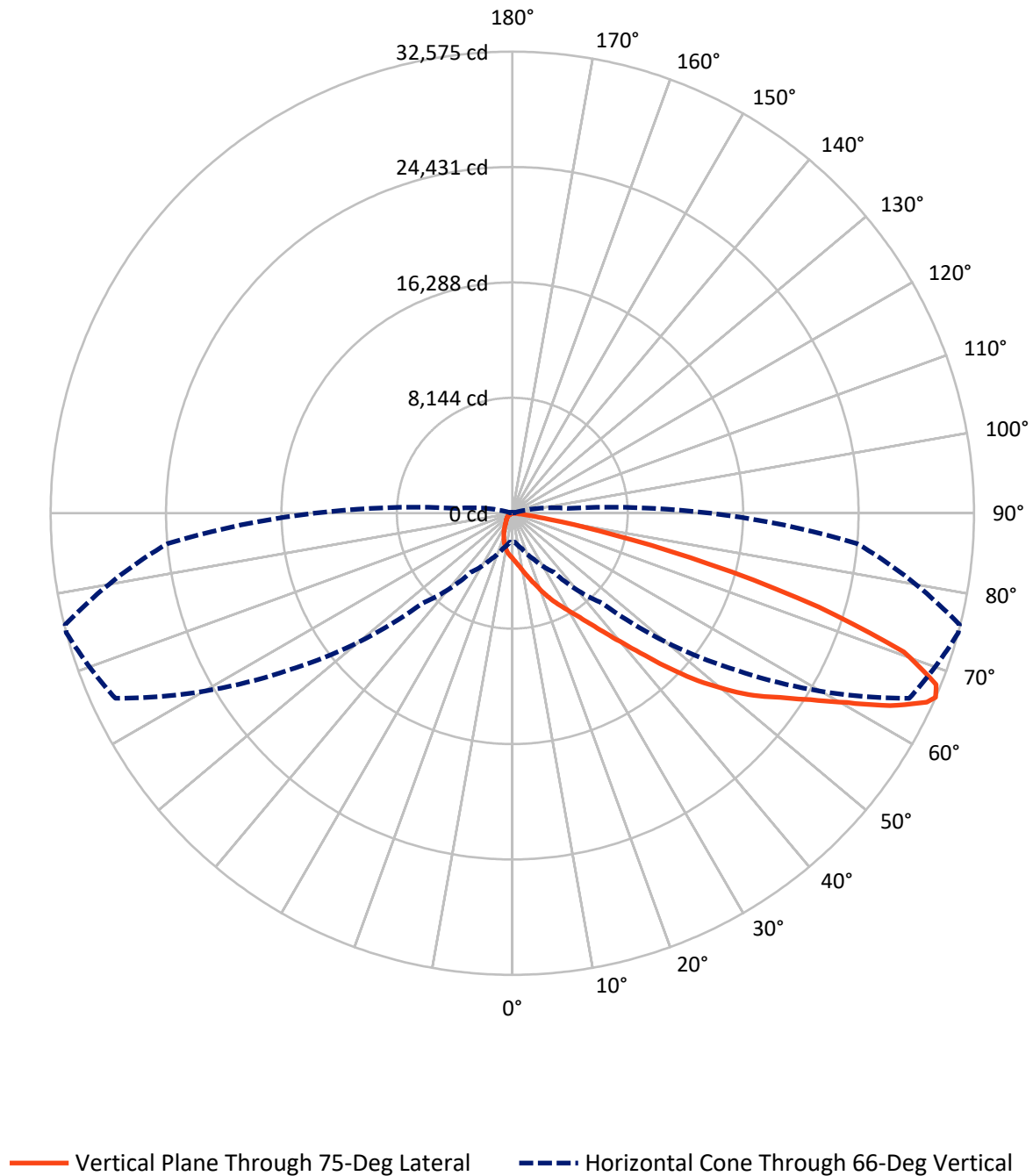


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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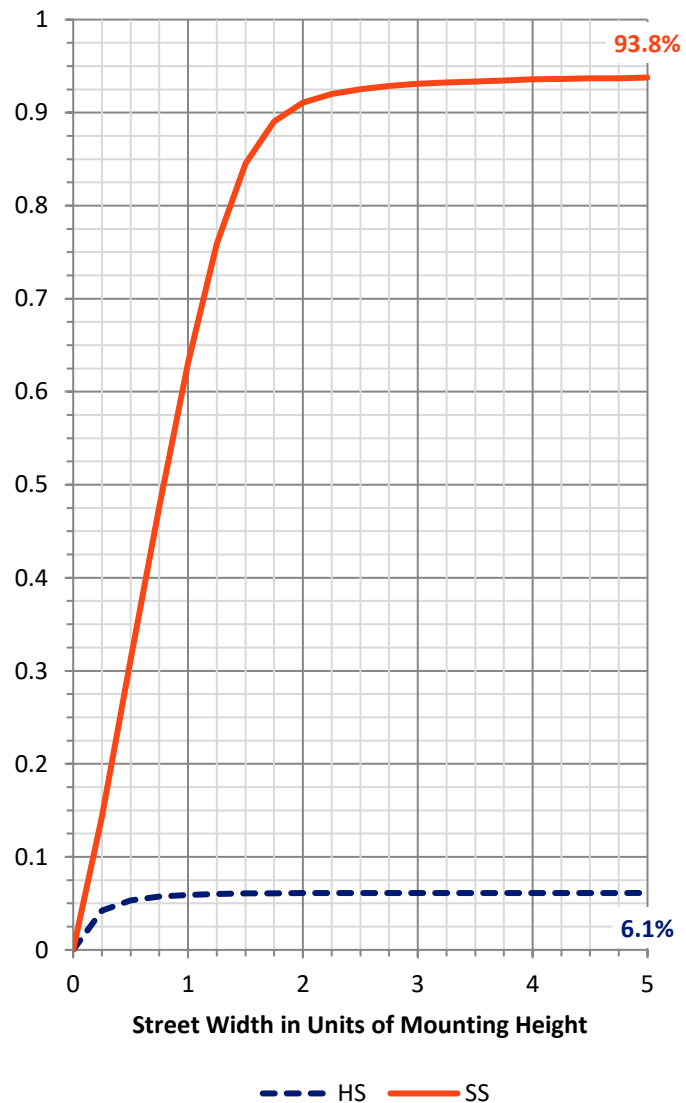
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.8	0.0	1795.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27293.2	0.0	27293.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	29089.0	0.0	29089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.1
10°-20°	903.0	3.1
20°-30°	1559.3	5.4
30°-40°	2812.7	9.7
40°-50°	5081.1	17.5
50°-60°	7921.5	27.2
60°-70°	7525.1	25.9
70°-80°	2820.2	9.7
80°-90°	159.1	0.5
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°	29089.0	100.0
0°-180°	29089.0	100.0

Coefficient of Utilization



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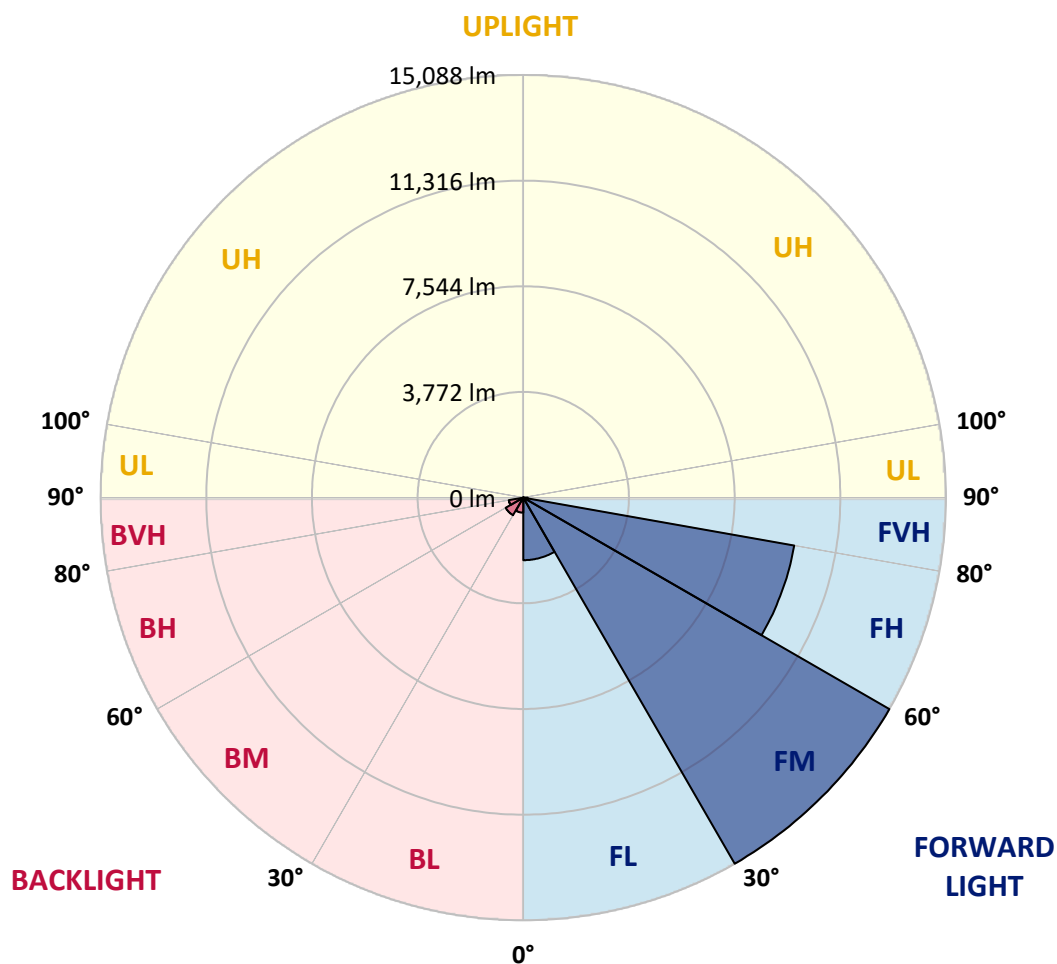
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2232.8	7.7			
FM	(30°-60°)	15088.4	51.9			
FH	(60°-80°)	9821.0	33.8			G4/12000
FVH	(80°-90°)	150.9	0.5			G2/225
BL	(0°-30°)	536.3	1.8	B2/1000		
BM	(30°-60°)	726.9	2.5	B1/1000		
BH	(60°-80°)	524.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	8.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3800.6	3753.3	3768.4	3746.9	3697.4	3624.3	3559.7	3467.2	3374.7	3359.7	3256.5
5°	4301.8	4288.9	4271.7	4209.3	4174.9	4063.0	3929.7	3770.5	3579.1	3544.7	3357.5
7.5°	4643.8	4637.3	4645.9	4613.7	4583.6	4482.5	4340.5	4123.3	3826.4	3807.1	3495.2
10°	4755.6	4772.8	4805.1	4856.7	4904.0	4871.8	4764.2	4493.2	4146.9	4091.0	3652.2
12.5°	4691.1	4710.5	4787.9	4925.5	5078.3	5166.4	5123.4	4925.5	4486.8	4441.6	3828.6
15°	4525.5	4549.1	4658.8	4871.8	5144.9	5394.4	5502.0	5360.0	4882.5	4809.4	4041.5
17.5°	4280.3	4314.7	4471.7	4753.5	5127.7	5557.9	5861.2	5813.9	5304.1	5235.3	4273.8
20°	4095.3	4121.1	4254.5	4577.1	5054.6	5648.2	6203.2	6336.5	5824.6	5706.3	4547.0
22.5°	4217.9	4226.5	4271.7	4465.3	4923.4	5671.9	6504.3	6880.7	6377.4	6272.0	4830.9
25°	4818.0	4732.0	4686.8	4643.8	4895.4	5650.4	6777.5	7448.5	6928.0	6816.2	5112.7
27.5°	5764.4	5725.7	5497.7	5192.3	5134.2	5678.4	6958.1	7986.3	7446.4	7325.9	5388.0
30°	6794.7	6728.0	6588.2	6140.8	5691.3	5876.2	7089.3	8508.9	8059.4	7900.2	5639.6
32.5°	7741.1	7784.1	7575.4	7115.2	6594.6	6297.8	7259.3	9078.9	8762.7	8564.9	5932.2
35°	8844.5	8930.5	8610.0	8169.1	7560.4	7059.2	7590.5	9722.0	9655.4	9405.9	6383.8
37.5°	9965.1	10016.7	9821.0	9201.5	8653.0	8027.1	8214.3	10515.7	10754.5	10541.5	6923.7
40°	10907.2	10978.2	10834.0	10283.4	9698.4	9147.7	9119.8	11380.4	12062.2	11842.8	7728.2
42.5°	11627.7	11681.5	11685.8	11296.5	10769.5	10520.0	10274.8	12483.8	13701.2	13447.4	8661.6
45°	12537.6	12615.0	12569.8	12305.3	11911.6	11866.5	11739.6	13817.3	15662.8	15342.3	9872.6
47.5°	13944.2	13995.9	13884.0	13572.1	13172.1	13243.0	13167.8	15312.2	17663.1	17387.8	11126.6
50°	14920.7	15006.8	15165.9	15290.7	15000.3	14737.9	14514.2	16708.1	19562.4	19315.0	12408.5
52.5°	14910.0	15051.9	15555.3	16183.3	16817.8	16738.2	16095.1	18250.3	21375.6	21070.1	13613.0
55°	13905.5	14180.8	14920.7	16034.9	17792.2	18667.6	18375.1	20035.6	22941.4	22734.9	15008.9
57.5°	11832.1	11999.8	13028.0	14585.2	17248.0	19575.3	21016.4	22455.3	24819.1	24722.4	17177.0
60°	7958.3	8033.6	9356.4	11281.4	14684.1	18669.7	22952.2	25382.7	27131.4	27084.0	19708.6
62.5°	4559.9	4592.2	5551.5	7175.4	10449.0	15822.0	23115.6	28994.0	29903.9	29929.7	22638.1
65°	2454.2	2471.4	3245.7	4211.4	6358.0	11277.1	20786.2	30972.8	32145.1	32194.6	24453.5
66°	2118.6	2036.9	2583.2	3589.8	5058.9	8975.7	19312.9	30901.9	32575.3	32521.5	24389.0
67.5°	1611.0	1684.1	2062.7	2759.6	3749.0	6381.7	15944.6	29527.4	32248.3	32080.6	23397.4
70°	1152.9	1183.0	1469.1	1968.1	2553.1	3501.7	10188.8	24524.5	29310.2	29084.4	20384.0
72.5°	744.2	776.5	1041.0	1423.9	1845.5	1912.1	5704.2	17719.1	22597.3	22565.0	15350.9
75°	531.3	561.4	688.3	1019.5	1387.3	1183.0	2746.7	11941.8	14365.8	14269.0	9496.2
77.5°	385.0	400.1	460.3	666.8	991.6	847.5	1273.3	6377.4	7151.7	7489.4	4196.4
80°	221.5	234.4	320.5	406.5	671.1	578.6	608.7	2559.6	2639.1	2512.2	1312.0
82.5°	109.7	124.8	191.4	277.5	419.4	389.3	279.6	770.0	813.0	791.5	331.2
85°	25.8	32.3	107.5	182.8	204.3	174.2	135.5	225.8	279.6	273.2	126.9
87.5°	2.2	4.3	38.7	32.3	34.4	58.1	47.3	58.1	90.3	83.9	45.2
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°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3209.1	3168.3	3050.0	2933.8	2837.0	2735.9	2643.4	2589.7	2568.2	2544.5	2555.3
5°	3254.3	3155.4	2916.6	2710.1	2507.9	2335.9	2198.2	2110.0	2067.0	2060.6	2049.8
7.5°	3314.5	3144.6	2774.7	2452.0	2187.5	1996.0	1839.0	1712.1	1673.4	1639.0	1611.0
10°	3387.7	3125.2	2598.3	2181.0	1899.2	1658.3	1451.9	1301.3	1223.9	1202.3	1217.4
12.5°	3465.1	3088.7	2413.3	1931.5	1606.7	1299.1	1107.7	1032.4	1010.9	1002.3	1004.5
15°	3542.5	3043.5	2219.7	1690.6	1279.8	1036.7	948.5	929.2	920.6	916.3	912.0
17.5°	3613.5	2970.4	2002.5	1456.2	1036.7	886.2	853.9	836.7	819.5	813.0	802.3
20°	3697.4	2886.5	1806.7	1193.7	877.6	802.3	763.6	731.3	705.5	688.3	686.1
22.5°	3777.0	2779.0	1602.4	989.4	800.1	720.5	658.2	623.8	593.6	572.1	578.6
25°	3820.0	2647.7	1419.6	862.5	729.2	638.8	570.0	527.0	494.7	484.0	481.8
27.5°	3820.0	2486.4	1241.1	789.4	664.6	565.7	494.7	453.8	432.3	417.3	419.4
30°	3789.9	2307.9	1075.4	733.5	608.7	501.2	434.5	397.9	380.7	370.0	367.8
32.5°	3766.2	2138.0	933.5	679.7	550.6	445.2	387.2	359.2	342.0	331.2	331.2
35°	3802.8	1991.7	823.8	625.9	496.9	402.2	350.6	324.8	307.6	299.0	296.8
37.5°	3899.6	1858.4	739.9	567.8	447.4	365.7	324.8	294.7	277.5	266.7	262.4
40°	4138.3	1783.1	677.5	514.1	400.1	335.5	294.7	266.7	245.2	234.4	232.3
42.5°	4521.2	1785.2	617.3	464.6	363.5	309.7	268.9	236.6	212.9	202.2	200.0
45°	5097.6	1867.0	570.0	417.3	331.2	281.8	240.9	206.5	185.0	174.2	174.2
47.5°	5788.1	2026.1	529.1	376.4	301.1	256.0	212.9	178.5	157.0	148.4	148.4
50°	6536.6	2232.6	488.3	333.4	275.3	228.0	182.8	154.9	137.7	131.2	131.2
52.5°	7300.1	2482.1	447.4	299.0	247.4	197.9	157.0	137.7	122.6	118.3	116.1
55°	8302.4	2800.5	404.4	262.4	217.2	169.9	139.8	120.4	103.2	96.8	94.6
57.5°	9844.6	3280.1	357.0	230.1	178.5	142.0	120.4	101.1	81.7	71.0	68.8
60°	11705.2	3865.2	307.6	202.2	144.1	116.1	96.8	77.4	60.2	47.3	45.2
62.5°	13447.4	4237.3	260.3	169.9	114.0	88.2	68.8	58.1	43.0	30.1	28.0
65°	14217.4	4112.5	215.1	137.7	90.3	62.4	45.2	40.9	25.8	12.9	10.8
66°	13961.4	3927.5	197.9	124.8	81.7	53.8	38.7	34.4	19.4	6.5	6.5
67.5°	13206.5	3490.9	172.1	107.5	71.0	43.0	30.1	25.8	10.8	2.2	0.0
70°	11315.8	2824.1	135.5	79.6	51.6	30.1	17.2	12.9	6.5	0.0	0.0
72.5°	8691.8	2103.6	107.5	60.2	36.6	17.2	8.6	4.3	6.5	0.0	0.0
75°	5325.6	1202.3	83.9	45.2	23.7	10.8	6.5	0.0	6.5	2.2	0.0
77.5°	2363.8	539.9	55.9	30.1	17.2	8.6	4.3	0.0	4.3	2.2	0.0
80°	597.9	176.4	32.3	21.5	12.9	6.5	2.2	0.0	4.3	4.3	2.2
82.5°	163.5	64.5	23.7	17.2	10.8	6.5	2.2	0.0	4.3	4.3	4.3
85°	64.5	30.1	21.5	17.2	12.9	6.5	2.2	0.0	4.3	4.3	4.3
87.5°	30.1	21.5	21.5	19.4	15.1	6.5	2.2	0.0	4.3	2.2	4.3
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)