

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: P458275

Luminaire Tested: **GALN-SA9C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458275
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-SA9C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 39653 lumens
Efficiency: N/A
Efficacy: 82.4 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): 481
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



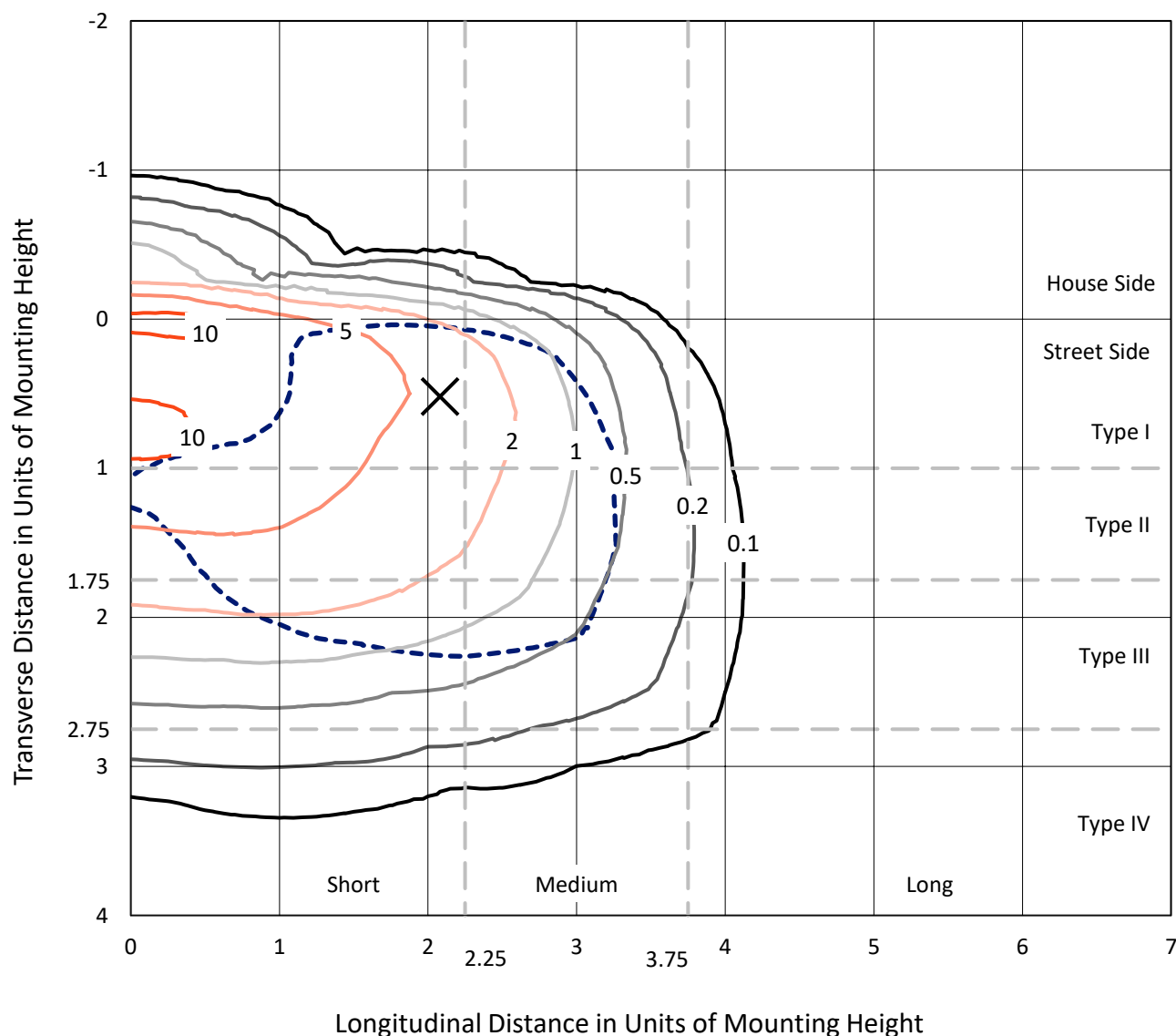
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

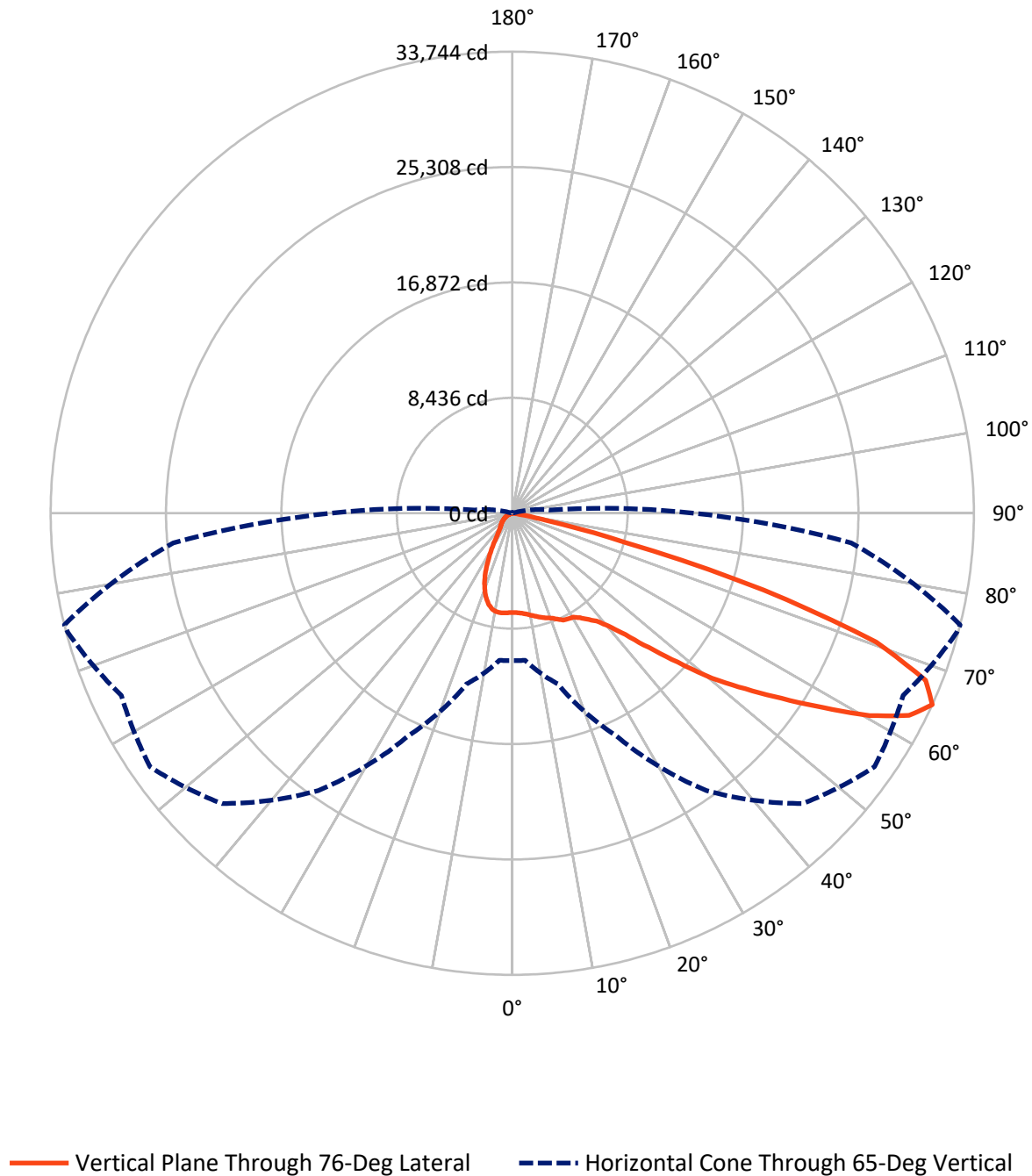


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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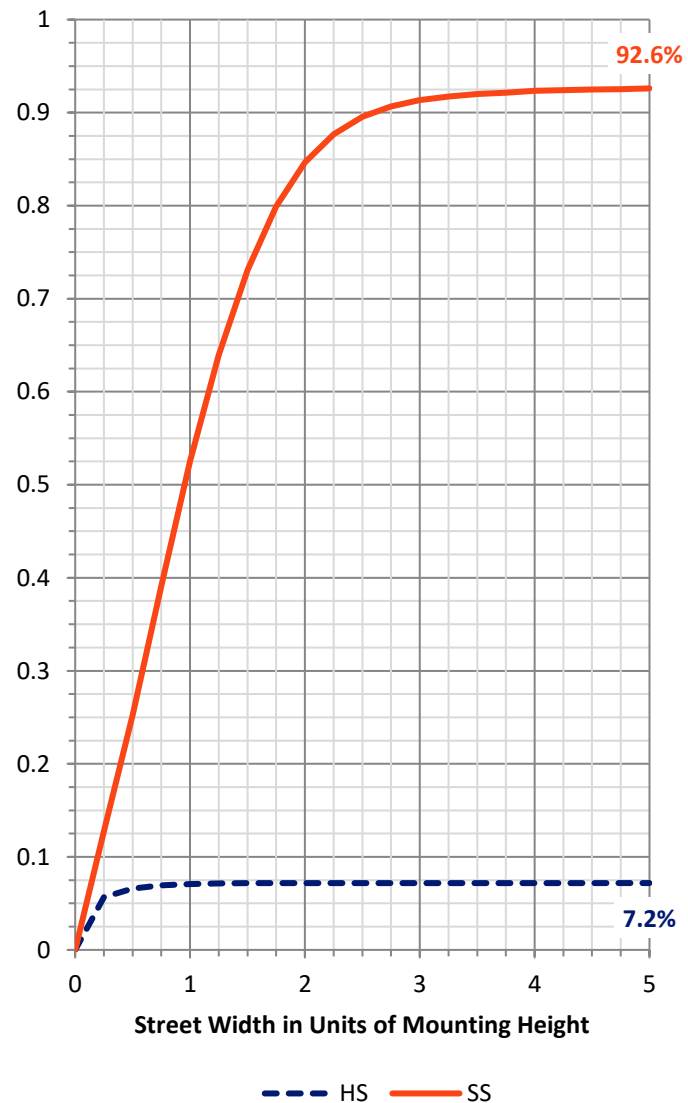
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2863.7	0.0	2863.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	36789.3	0.0	36789.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	39653.0	0.0	39653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.5	1.5
10°-20°	1330.5	3.4
20°-30°	2143.9	5.4
30°-40°	3727.8	9.4
40°-50°	6159.9	15.5
50°-60°	9515.8	24.0
60°-70°	11620.2	29.3
70°-80°	4410.2	11.1
80°-90°	147.2	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°	39653.0	100.0
0°-180°	39653.0	100.0

Coefficient of Utilization



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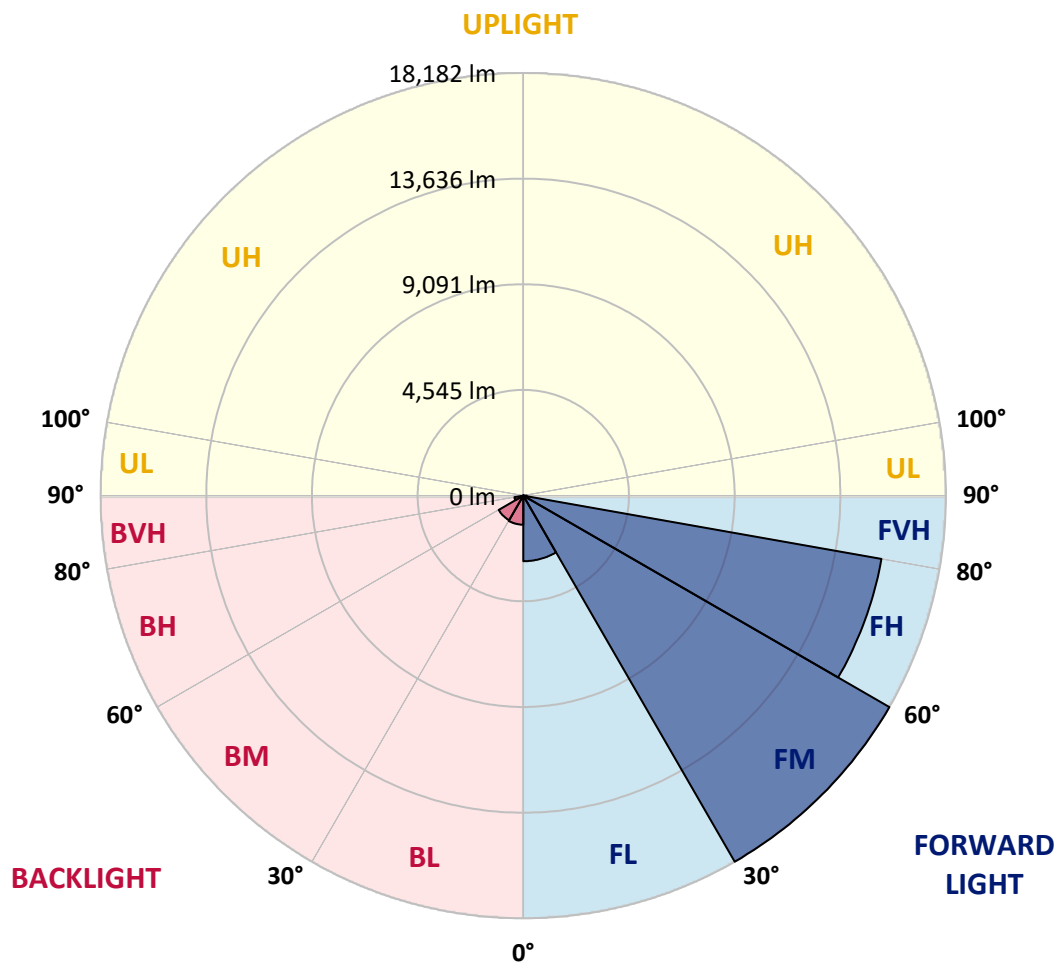
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.8	7.1			
FM	(30°-60°)	18181.5	45.9			
FH	(60°-80°)	15641.8	39.4			G5
FVH	(80°-90°)	145.2	0.4			G2/225
BL	(0°-30°)	1251.1	3.2	B3/2500		
BM	(30°-60°)	1222.0	3.1	B2/2500		
BH	(60°-80°)	388.6	1.0	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8
2.5°	6931.8	6934.6	6951.4	6993.4	7057.8	7111.0	7155.8	7228.6	7279.0	7284.6	7301.4
5°	6453.1	6419.5	6453.1	6562.3	6660.3	6808.7	6990.6	7172.6	7335.0	7346.2	7424.6
7.5°	5915.6	5943.6	5996.8	6108.8	6293.5	6520.3	6783.5	7108.2	7416.2	7444.2	7598.2
10°	5369.7	5431.3	5518.0	5688.8	5946.4	6240.3	6598.7	7063.4	7545.0	7584.2	7850.1
12.5°	4865.7	4893.7	5000.1	5229.7	5548.8	5963.2	6458.7	7038.2	7687.7	7735.3	8118.9
15°	4479.4	4515.8	4608.2	4815.3	5170.9	5702.8	6343.9	7029.8	7827.7	7894.9	8387.6
17.5°	4406.6	4429.0	4468.2	4608.2	4918.9	5495.6	6240.3	7027.0	7962.1	8043.3	8636.8
20°	4706.2	4686.6	4647.4	4633.4	4804.1	5336.1	6164.7	7049.4	8090.9	8183.3	8900.0
22.5°	5456.4	5481.6	5252.1	4980.5	4924.5	5310.9	6153.6	7155.8	8295.3	8404.4	9193.9
25°	7049.4	6856.3	6497.9	5848.4	5358.5	5464.8	6279.5	7407.8	8533.2	8653.6	9459.9
27.5°	8810.4	8751.6	8194.5	7125.0	6212.3	5789.6	6503.5	7601.0	8611.6	8734.8	9611.1
30°	10540.5	10610.5	9972.2	8790.8	7452.6	6391.5	6713.5	7673.7	8681.6	8810.4	9804.2
32.5°	12144.7	12228.7	11668.8	10498.6	8914.0	7433.0	7074.6	7956.5	8975.6	9107.1	10126.2
35°	13407.4	13418.5	12995.8	12063.5	10509.7	8698.4	7855.7	8452.0	9373.1	9527.1	10467.8
37.5°	14566.4	14549.6	14054.1	13250.6	11839.6	9955.4	8838.4	9023.2	9826.6	9986.2	10960.5
40°	15425.9	15437.1	15277.5	14521.6	13079.8	11117.3	9616.7	9557.9	10588.1	10837.3	11677.2
42.5°	15999.8	16103.4	16181.8	15798.2	14639.2	12547.9	10812.1	10702.9	11909.6	12116.7	12690.6
45°	16464.5	16649.3	17041.2	17021.7	16137.0	14303.2	12452.7	12228.7	13782.5	14003.7	13981.3
47.5°	16803.3	16990.9	17640.4	18032.3	17545.2	16005.4	14516.0	14322.8	16019.4	16260.2	15406.3
50°	16976.9	17200.8	18029.5	18788.2	18645.4	17646.0	16867.7	16878.9	18721.0	18953.4	17058.0
52.5°	16570.9	16862.1	18236.7	19602.9	19880.1	19216.5	19071.0	19440.5	21125.9	21324.7	18550.2
55°	15274.7	15641.4	17953.9	20297.2	21310.7	21069.9	21573.8	22136.5	23754.7	23883.5	20081.6
57.5°	14454.4	14843.6	17119.6	20887.9	23029.6	23399.2	24197.1	24608.6	26467.5	26795.1	21839.8
60°	13762.9	14068.1	16433.7	21013.9	24776.6	26249.2	27024.7	27450.2	29815.9	30028.7	23774.3
62.5°	12612.3	12962.2	15274.7	20134.8	25655.7	28530.9	30137.8	29947.5	32405.5	32553.9	24961.4
65°	10761.7	10792.5	12923.0	17925.9	24748.6	30011.9	32324.3	31526.5	33643.0	33743.7	24869.0
67.5°	8032.1	8328.9	9941.4	14090.5	20904.7	28746.4	33032.6	31568.4	32861.9	32581.9	22895.2
70°	5173.7	5400.5	6738.7	9770.7	15073.1	23989.9	30683.8	29404.3	28841.6	28220.1	18740.6
72.5°	2388.1	2679.2	4003.4	5582.4	8939.2	17088.8	24908.2	23889.1	20759.1	19224.9	11912.4
75°	1041.5	1114.2	1976.5	2945.2	4191.0	9037.2	16422.5	14829.6	9375.9	8564.0	4767.7
77.5°	635.5	683.1	1035.9	1579.0	1646.2	3443.5	8846.8	6469.9	2897.6	2556.0	1293.4
80°	431.1	484.3	753.1	825.9	562.7	960.3	3320.3	1727.4	585.1	559.9	277.2
82.5°	210.0	266.0	557.1	461.9	243.6	308.0	965.9	369.5	170.8	159.6	98.0
85°	30.8	53.2	313.6	302.4	109.2	72.8	170.8	92.4	58.8	56.0	44.8
87.5°	0.0	0.0	106.4	47.6	11.2	11.2	19.6	19.6	22.4	19.6	22.4
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°	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8	7253.8
2.5°	7309.8	7323.8	7270.6	7195.0	7113.8	7032.6	6917.8	6814.3	6752.7	6789.1	6699.5
5°	7441.4	7430.2	7290.2	7060.6	6755.5	6388.7	6024.8	5714.0	5613.2	5462.0	5445.2
7.5°	7623.3	7592.6	7295.8	6769.5	6080.8	5392.1	4720.1	4275.0	4020.2	3804.7	3810.3
10°	7878.1	7788.5	7231.4	6257.1	5123.3	4084.6	3228.0	2640.0	2385.3	2304.1	2239.7
12.5°	8141.3	7967.7	7052.2	5565.6	3989.4	2791.2	1962.5	1604.2	1447.4	1397.0	1391.4
15°	8376.4	8102.1	6738.7	4734.1	2900.4	1783.4	1338.2	1220.6	1201.0	1203.8	1201.0
17.5°	8608.8	8208.5	6304.7	3852.3	1970.9	1279.4	1150.6	1122.6	1131.0	1142.2	1139.4
20°	8802.0	8230.9	5750.4	2939.6	1394.2	1122.6	1080.7	1075.1	1083.5	1091.8	1091.8
22.5°	9012.0	8247.7	5092.5	2035.3	1139.4	1044.3	1021.9	1021.9	1033.1	1044.3	1047.1
25°	9168.7	8155.3	4305.8	1461.4	1005.1	968.7	957.5	960.3	971.5	977.1	974.3
27.5°	9193.9	7894.9	3471.5	1119.8	912.7	876.3	865.1	876.3	862.3	870.7	865.1
30°	9216.3	7564.6	2626.0	943.5	828.7	772.7	755.9	739.1	727.9	713.9	711.1
32.5°	9286.3	7175.4	1917.7	848.3	750.3	688.7	649.5	601.9	565.5	554.3	551.5
35°	9317.1	6707.9	1408.2	772.7	680.3	613.1	543.1	475.9	422.7	403.1	417.1
37.5°	9434.7	6254.3	1091.8	716.7	618.7	534.7	445.1	361.2	310.8	299.6	305.2
40°	9675.5	5761.6	915.5	669.1	565.5	461.9	352.8	271.6	238.0	226.8	224.0
42.5°	10061.8	5271.7	814.7	624.3	512.3	389.1	277.2	212.8	184.8	176.4	176.4
45°	10532.1	4801.3	744.7	576.7	456.3	313.6	218.4	170.8	154.0	148.4	148.4
47.5°	11150.9	4389.8	685.9	529.1	394.7	249.2	176.4	148.4	137.2	140.0	142.8
50°	11778.0	4084.6	621.5	475.9	324.8	204.4	151.2	131.6	128.8	131.6	131.6
52.5°	12251.1	3905.5	534.7	403.1	254.8	170.8	134.4	123.2	120.4	114.8	114.8
55°	12889.4	3866.3	425.5	327.6	201.6	142.8	120.4	112.0	103.6	98.0	95.2
57.5°	13709.7	3911.1	327.6	254.8	156.8	117.6	106.4	92.4	81.2	70.0	70.0
60°	14219.2	3810.3	254.8	196.0	114.8	95.2	81.2	67.2	53.2	44.8	42.0
62.5°	14056.9	3384.7	201.6	145.6	81.2	70.0	53.2	44.8	30.8	22.4	19.6
65°	13219.8	2732.4	162.4	100.8	58.8	42.0	28.0	28.0	14.0	2.8	0.0
67.5°	11570.8	2024.1	128.8	67.2	33.6	19.6	14.0	8.4	0.0	0.0	0.0
70°	9417.9	1461.4	100.8	42.0	19.6	14.0	5.6	2.8	0.0	0.0	0.0
72.5°	5980.0	837.1	78.4	25.2	14.0	5.6	0.0	0.0	0.0	0.0	0.0
75°	2312.5	327.6	53.2	16.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	655.1	154.0	30.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.8	67.2	16.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.2	28.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.6	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	2.8	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)