

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: P458279

Luminaire Tested: **GALN-SA9C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36638 lumens
Efficiency: N/A
Efficacy: 76.2 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): 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

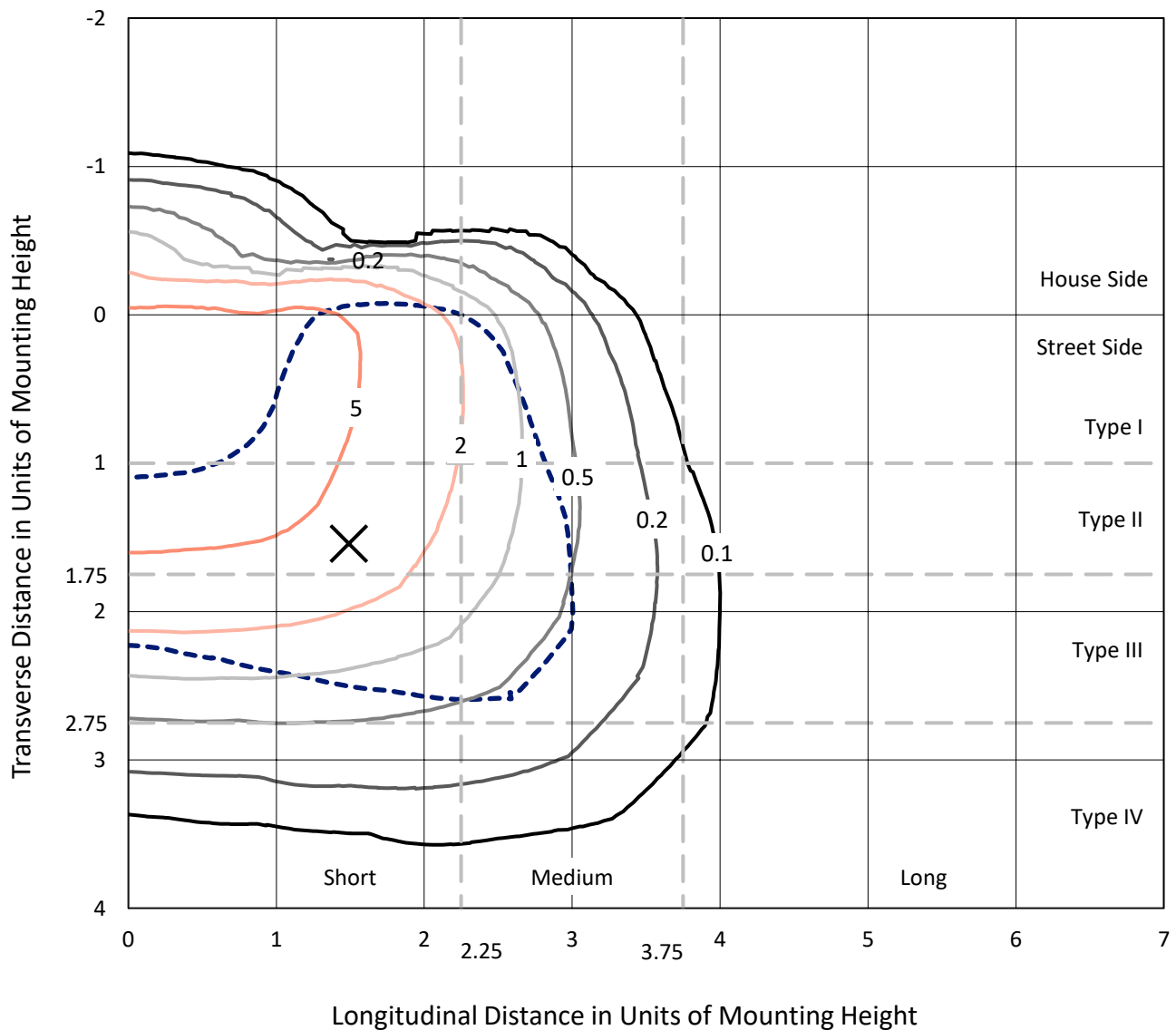


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Iso-Footcandle Lines of Horizontal Illumination

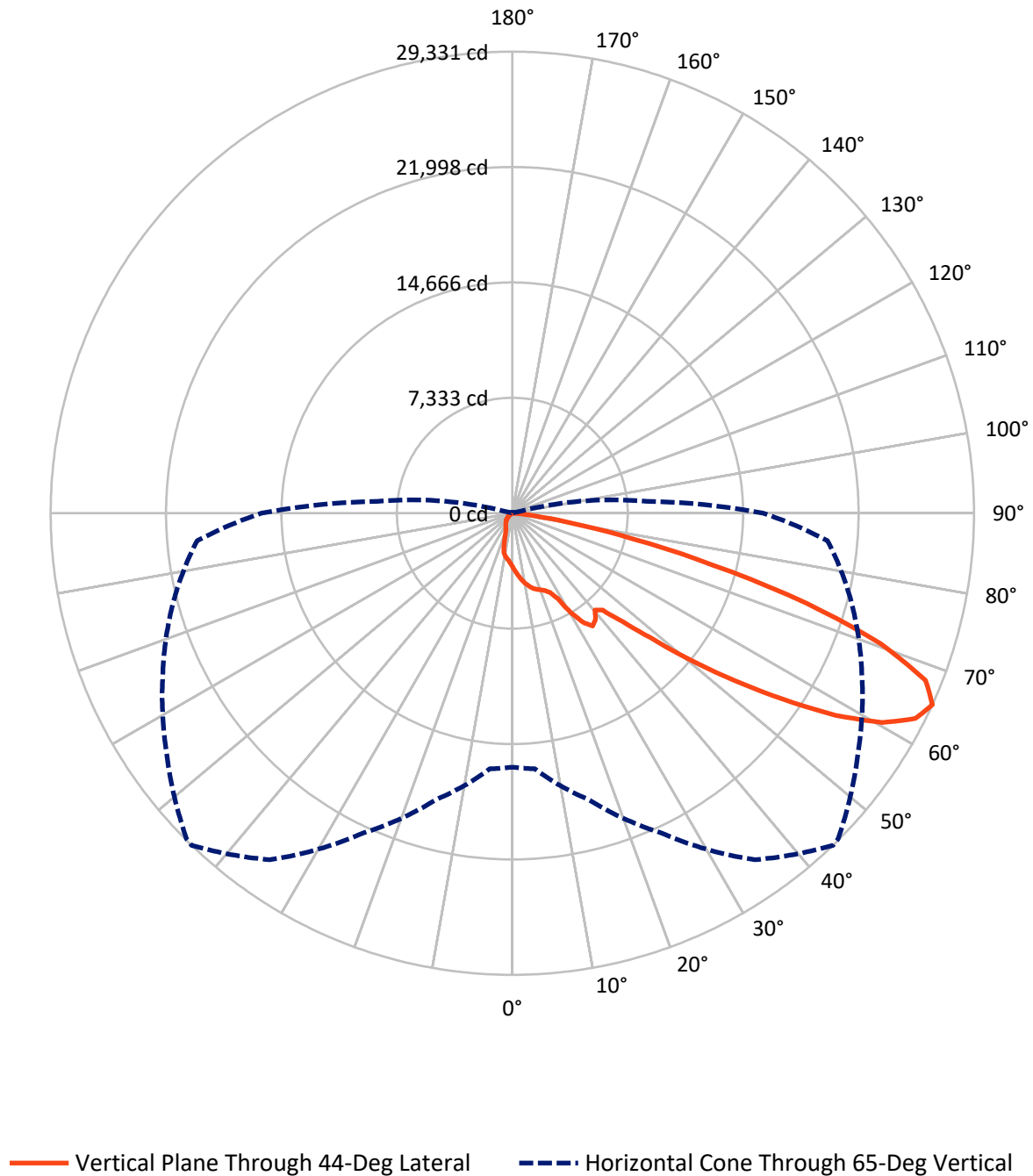
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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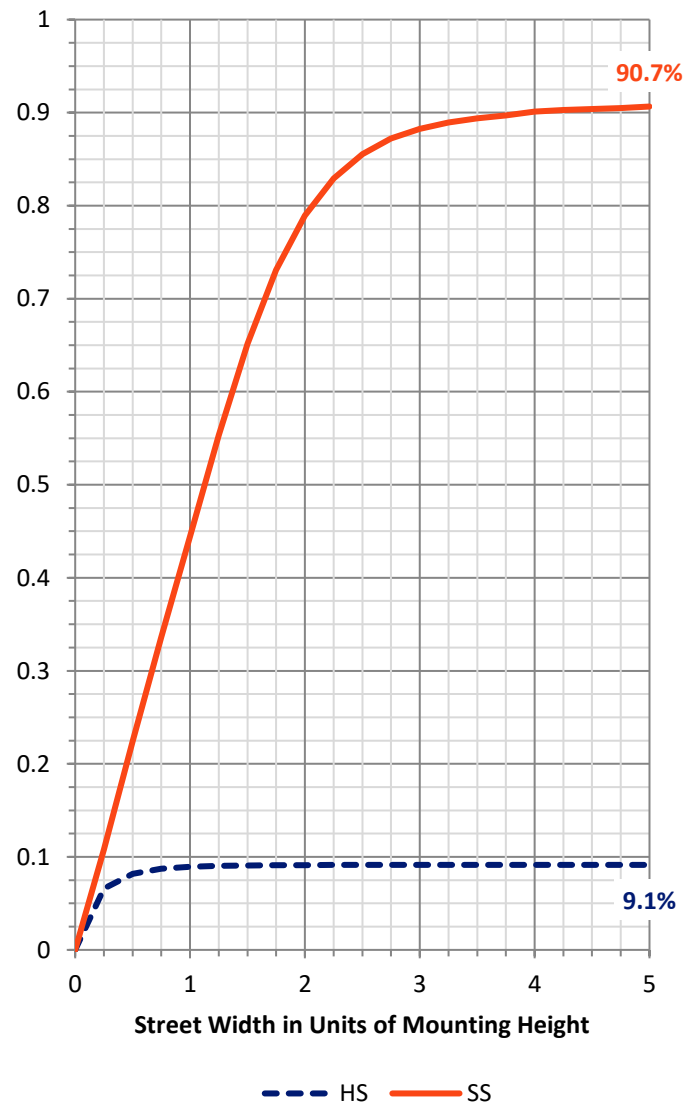
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3375.7	0.0	3375.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	33262.4	0.0	33262.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	36638.0	0.0	36638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.1	0.9
10°-20°	1020.7	2.8
20°-30°	1730.8	4.7
30°-40°	2877.7	7.9
40°-50°	5024.6	13.7
50°-60°	9816.3	26.8
60°-70°	11389.2	31.1
70°-80°	4147.4	11.3
80°-90°	292.2	0.8
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°	36638.0	100.0
0°-180°	36638.0	100.0

Coefficient of Utilization



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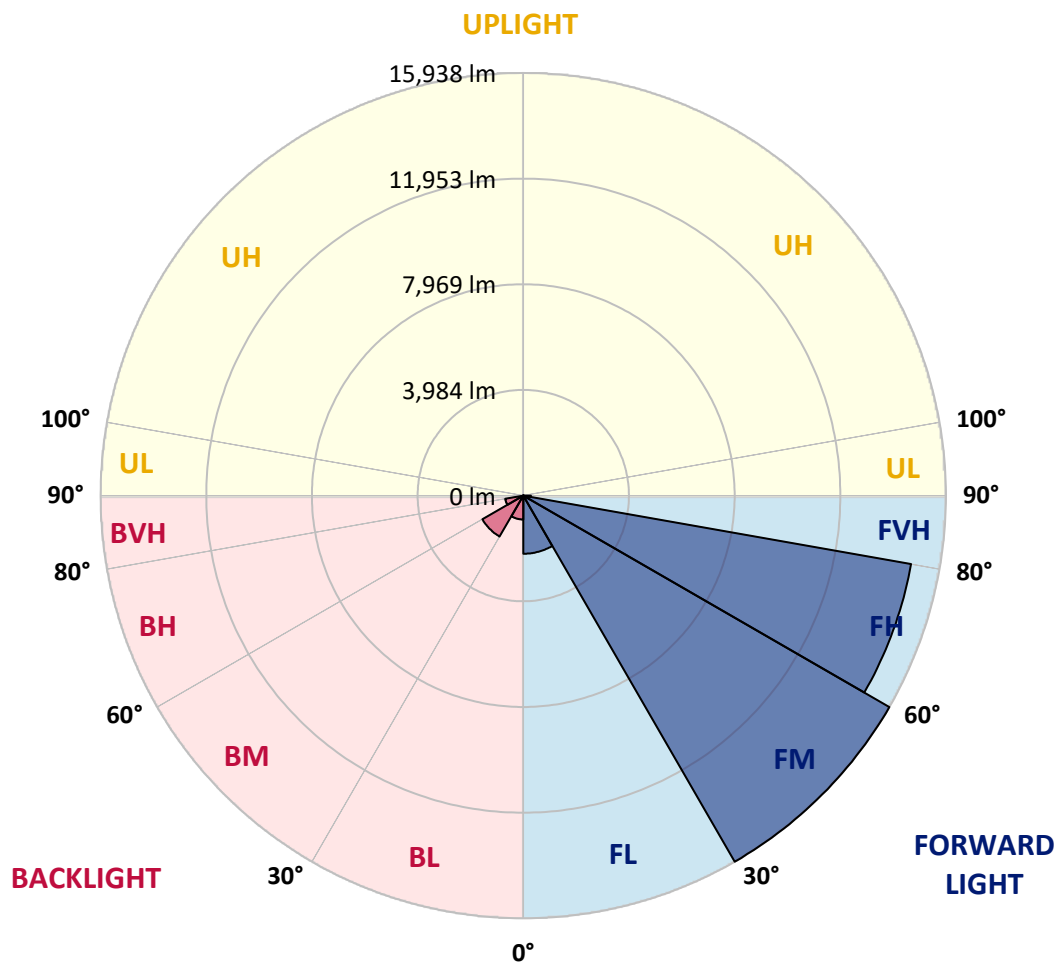
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2191.3	6.0			
FM	(30°-60°)	15937.6	43.5			
FH	(60°-80°)	14845.2	40.5			G5
FVH	(80°-90°)	288.2	0.8			G3/500
BL	(0°-30°)	899.4	2.5	B2/1000		
BM	(30°-60°)	1781.0	4.9	B2/2500		
BH	(60°-80°)	691.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9
2.5°	3838.2	3821.4	3813.0	3768.3	3734.7	3692.7	3692.7	3639.5	3577.9	3510.7	3449.1
5°	4266.6	4238.6	4202.2	4163.0	4084.6	3972.6	3972.6	3860.6	3731.9	3617.1	3491.1
7.5°	4678.1	4652.9	4591.3	4515.7	4387.0	4269.4	4261.0	4098.6	3944.6	3771.1	3591.9
10°	5039.3	5019.7	4966.5	4820.9	4686.5	4532.5	4529.7	4347.8	4168.6	3955.8	3734.7
12.5°	5291.2	5294.0	5224.0	5084.1	4910.5	4764.9	4753.7	4574.5	4387.0	4157.4	3885.8
15°	5470.4	5470.4	5397.6	5240.8	5084.1	4955.3	4944.1	4787.3	4594.1	4345.0	4051.0
17.5°	5520.8	5537.6	5459.2	5319.2	5193.2	5081.3	5078.5	4946.9	4792.9	4552.1	4219.0
20°	5501.2	5518.0	5456.4	5347.2	5260.4	5196.0	5187.6	5134.5	4991.7	4764.9	4398.2
22.5°	5459.2	5476.0	5431.2	5366.8	5324.8	5344.4	5330.4	5375.2	5299.6	5025.3	4610.9
25°	5467.6	5484.4	5450.8	5414.4	5450.8	5571.2	5607.6	5800.8	5733.6	5355.6	4840.5
27.5°	5730.8	5764.4	5716.8	5733.6	5862.3	6142.3	6212.3	6545.5	6248.7	5775.6	5198.8
30°	6315.9	6293.5	6203.9	6285.1	6733.0	7326.5	7306.9	7253.7	6789.0	6259.9	5624.4
32.5°	6847.8	6828.2	6822.6	7172.6	7984.4	8272.8	8258.8	7743.7	7273.3	6814.2	6044.3
35°	7063.4	6987.8	6971.0	7819.3	9177.1	8796.3	8709.5	7945.2	7861.3	7418.9	6472.7
37.5°	7712.9	7659.7	7399.3	7925.6	8701.1	8575.2	8508.0	8292.4	8488.4	7953.6	6957.0
40°	9051.1	8902.7	8667.5	8152.4	8026.4	8079.6	8146.8	8737.5	9230.3	8684.3	7603.7
42.5°	10714.0	10680.5	10243.7	9283.5	8340.0	8412.8	8499.6	9667.0	10296.9	9784.6	8659.1
45°	12710.2	12757.7	12127.8	10994.0	9756.6	9818.2	9944.2	11038.8	11741.5	11495.1	10319.3
47.5°	14524.3	14487.9	14275.1	13096.5	11954.3	11817.1	12021.5	12799.7	13740.4	13779.6	12379.8
50°	16349.6	16542.8	16226.4	15764.5	14916.2	14627.9	14552.3	14933.0	16366.4	16178.9	14854.6
52.5°	18972.8	19073.6	18480.1	18362.5	18555.7	17620.6	17545.1	17637.4	18919.7	18275.7	16708.0
55°	20621.8	20563.0	20341.8	21260.1	22024.4	20857.0	20761.8	20389.4	21038.9	19756.7	18491.3
57.5°	21142.5	21226.5	21741.6	23401.8	25210.3	24219.3	24045.7	22987.5	22567.5	21136.9	20131.9
60°	20910.2	21064.1	22175.6	24644.8	27153.3	27004.9	26856.5	25078.8	23665.0	22290.4	21282.5
62.5°	19255.6	19471.2	21248.9	24423.7	27811.2	28737.8	28553.1	26383.4	24395.7	22850.3	21484.1
65°	16136.9	16296.4	18849.7	22416.3	26876.1	29331.3	29264.2	26792.1	24510.4	22338.0	20103.9
67.5°	11503.5	12046.7	14412.3	18891.7	24110.1	28317.9	28432.7	26302.2	23432.6	20123.5	16649.2
70°	7231.4	7600.9	9297.5	13524.8	19328.4	24843.6	25221.5	24059.7	20336.2	15686.1	11145.2
72.5°	3449.1	3723.5	4932.9	8561.2	13642.4	19546.8	19846.3	19751.1	15725.3	9882.6	5750.4
75°	1537.0	1640.6	2354.5	4370.2	8807.5	13138.5	13914.0	14042.8	9826.6	4834.9	2236.9
77.5°	783.9	786.7	1103.0	2116.5	4398.2	7838.9	7992.8	8443.6	5327.6	2130.5	778.3
80°	417.1	445.1	585.1	999.5	2281.7	3860.6	3841.0	4221.8	2362.9	1044.2	260.4
82.5°	187.6	207.2	330.4	523.5	1114.2	1464.2	1579.0	1727.3	1013.5	666.3	114.8
85°	56.0	67.2	162.4	263.2	403.1	422.7	473.1	610.3	573.9	473.1	58.8
87.5°	8.4	8.4	67.2	72.8	58.8	75.6	78.4	86.8	184.8	173.6	30.8
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°	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9	3409.9
2.5°	3415.5	3395.9	3325.9	3267.1	3216.7	3185.9	3149.5	3127.1	3115.9	3107.5	3110.3
5°	3429.5	3381.9	3261.5	3166.3	3093.6	3015.2	2962.0	2931.2	2917.2	2894.8	2894.8
7.5°	3507.9	3432.3	3264.3	3118.7	2992.8	2886.4	2785.6	2749.2	2724.0	2718.4	2712.8
10°	3619.9	3524.7	3295.1	3093.6	2914.4	2768.8	2626.0	2500.0	2402.1	2343.3	2334.9
12.5°	3759.9	3622.7	3342.7	3076.8	2847.2	2589.6	2211.7	1956.9	1786.1	1732.9	1741.3
15°	3888.6	3740.3	3390.3	3062.8	2724.0	2147.3	1719.0	1427.8	1341.0	1332.6	1335.4
17.5°	4042.6	3866.2	3446.3	3043.2	2385.3	1640.6	1276.6	1198.2	1215.0	1243.0	1240.2
20°	4202.2	4000.6	3513.5	2925.6	1903.7	1234.6	1128.2	1136.6	1161.8	1187.0	1192.6
22.5°	4373.0	4154.6	3591.9	2642.8	1453.0	1075.0	1069.4	1080.6	1105.8	1133.8	1139.4
25°	4608.1	4347.8	3650.7	2273.3	1100.2	993.9	1005.1	1024.7	1047.0	1077.8	1083.4
27.5°	4910.5	4608.1	3681.5	1791.7	951.9	921.1	923.9	951.9	979.9	1007.9	1007.9
30°	5302.4	4918.9	3619.9	1355.0	879.1	851.1	839.9	856.7	893.1	921.1	923.9
32.5°	5652.4	5212.8	3457.5	1035.8	825.9	786.7	758.7	761.5	775.5	792.3	795.1
35°	6002.3	5498.4	3180.3	870.7	769.9	725.1	683.1	660.7	649.5	641.1	649.5
37.5°	6450.3	5854.0	2810.8	792.3	722.3	666.3	607.5	559.9	520.7	495.5	501.1
40°	7027.0	6346.7	2374.1	741.9	677.5	610.3	531.9	470.3	403.1	380.7	369.5
42.5°	7978.8	7094.2	1914.9	699.9	632.7	551.5	453.5	369.5	308.0	285.6	291.2
45°	9482.2	8037.6	1475.4	655.1	587.9	487.1	380.7	291.2	240.8	229.6	235.2
47.5°	11475.5	9258.3	1136.6	604.7	531.9	417.1	299.6	229.6	198.8	196.0	193.2
50°	13351.3	10394.9	949.1	548.7	464.7	347.1	246.4	193.2	173.6	170.8	170.8
52.5°	15047.8	11209.6	772.7	484.3	391.9	285.6	207.2	170.8	154.0	145.6	145.6
55°	16556.8	11741.5	627.1	405.9	308.0	226.8	179.2	154.0	134.4	123.2	120.4
57.5°	17696.2	11805.9	470.3	324.8	229.6	176.4	154.0	134.4	112.0	98.0	92.4
60°	18183.4	11248.8	347.1	246.4	170.8	140.0	123.2	109.2	84.0	70.0	67.2
62.5°	17693.4	10165.3	257.6	187.6	131.6	103.6	86.8	81.2	58.8	42.0	39.2
65°	15938.1	8600.4	204.4	142.8	98.0	75.6	56.0	53.2	36.4	19.6	16.8
67.5°	12768.9	6735.8	162.4	106.4	70.0	50.4	36.4	33.6	19.6	5.6	5.6
70°	8303.6	4305.8	131.6	78.4	44.8	33.6	22.4	16.8	11.2	2.8	0.0
72.5°	4107.0	2012.9	106.4	61.6	30.8	16.8	8.4	5.6	8.4	0.0	0.0
75°	1593.0	716.7	78.4	42.0	16.8	8.4	5.6	0.0	2.8	0.0	0.0
77.5°	529.1	238.0	47.6	22.4	11.2	5.6	0.0	0.0	0.0	0.0	0.0
80°	196.0	92.4	25.2	14.0	5.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	78.4	36.4	16.8	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	22.4	11.2	8.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	16.8	11.2	8.4	5.6	2.8	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)