

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: P457796

Luminaire Tested: **GALN-SA9A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457796
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-SA9A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 27252 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 274
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

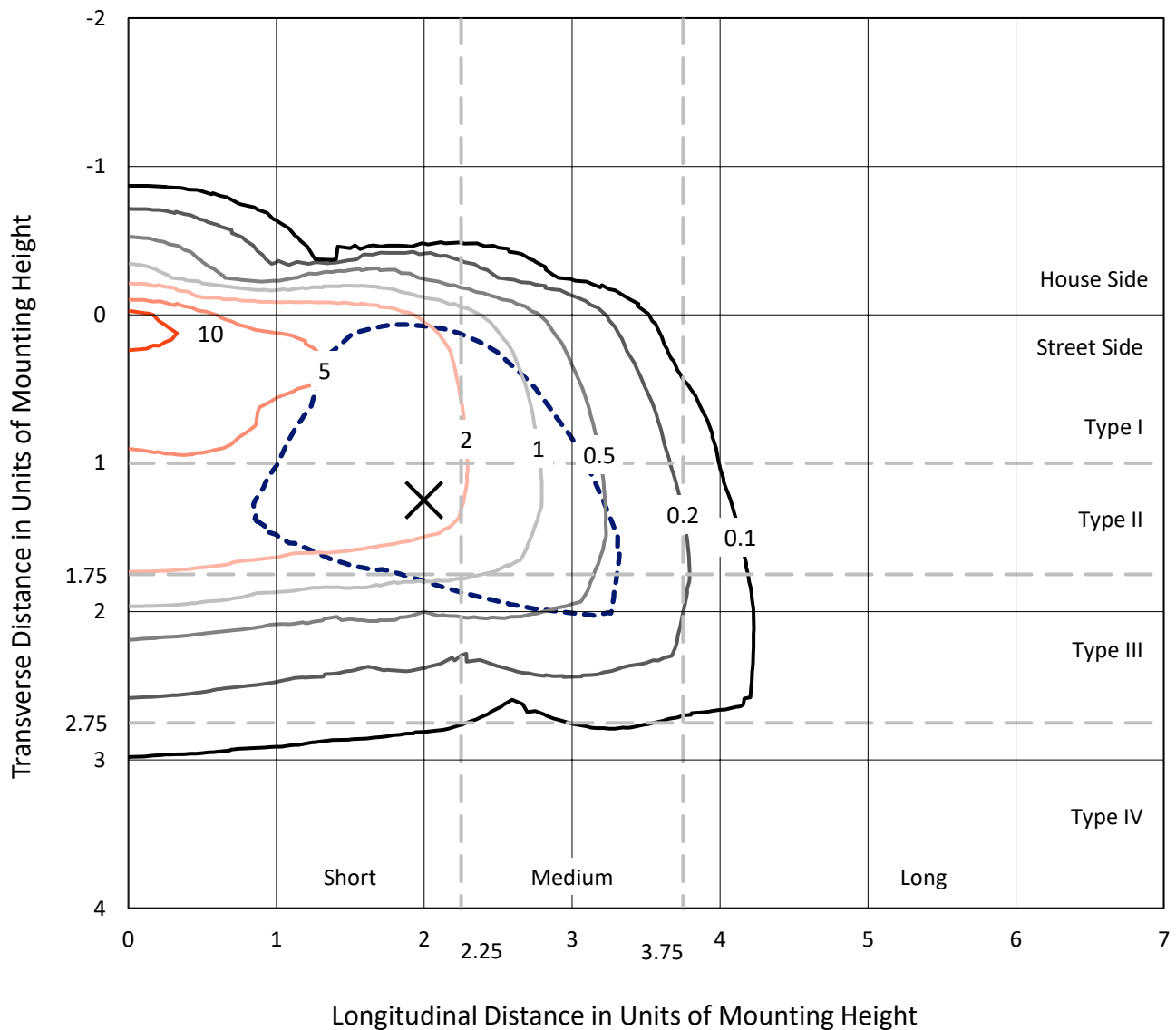


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

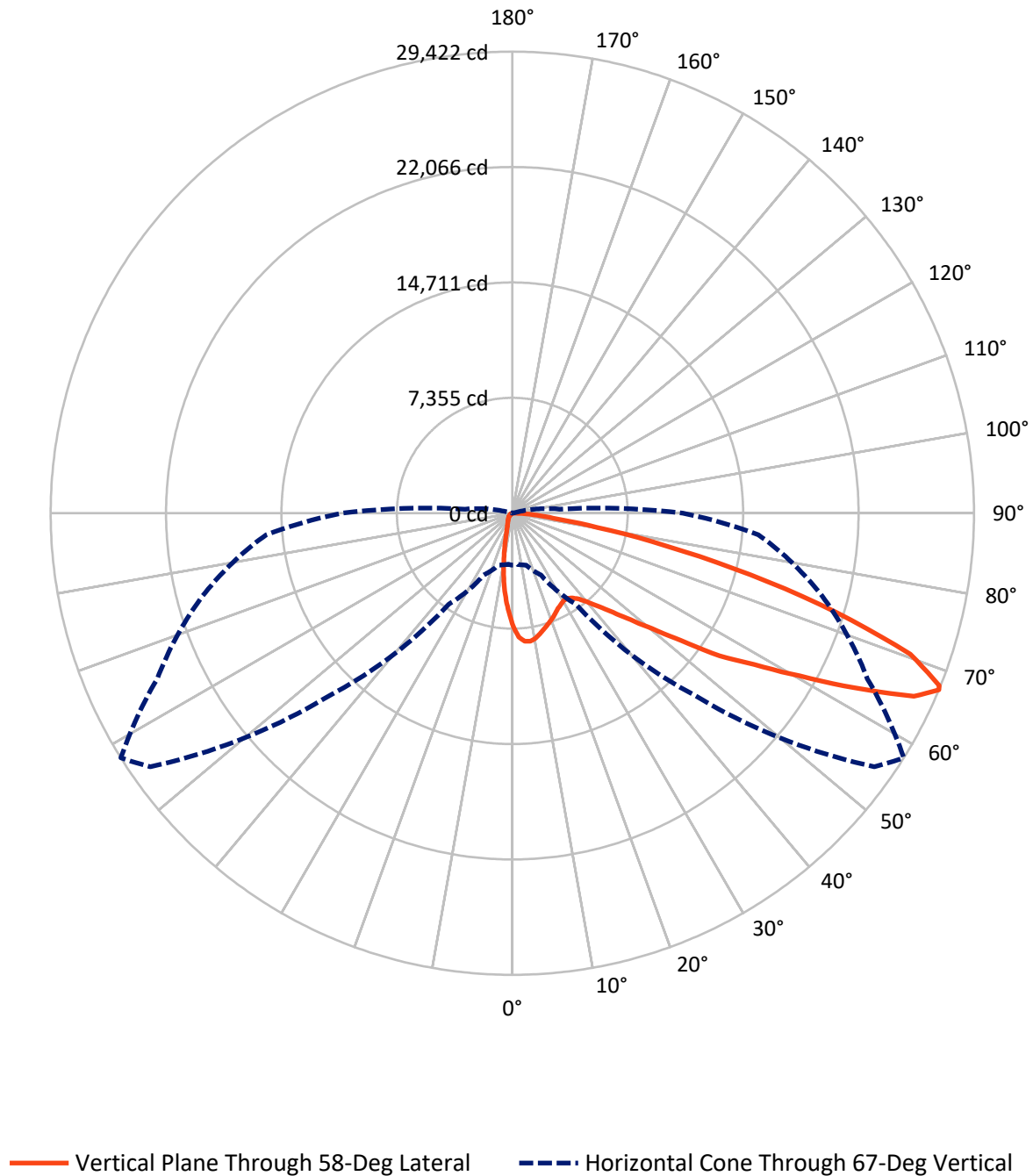


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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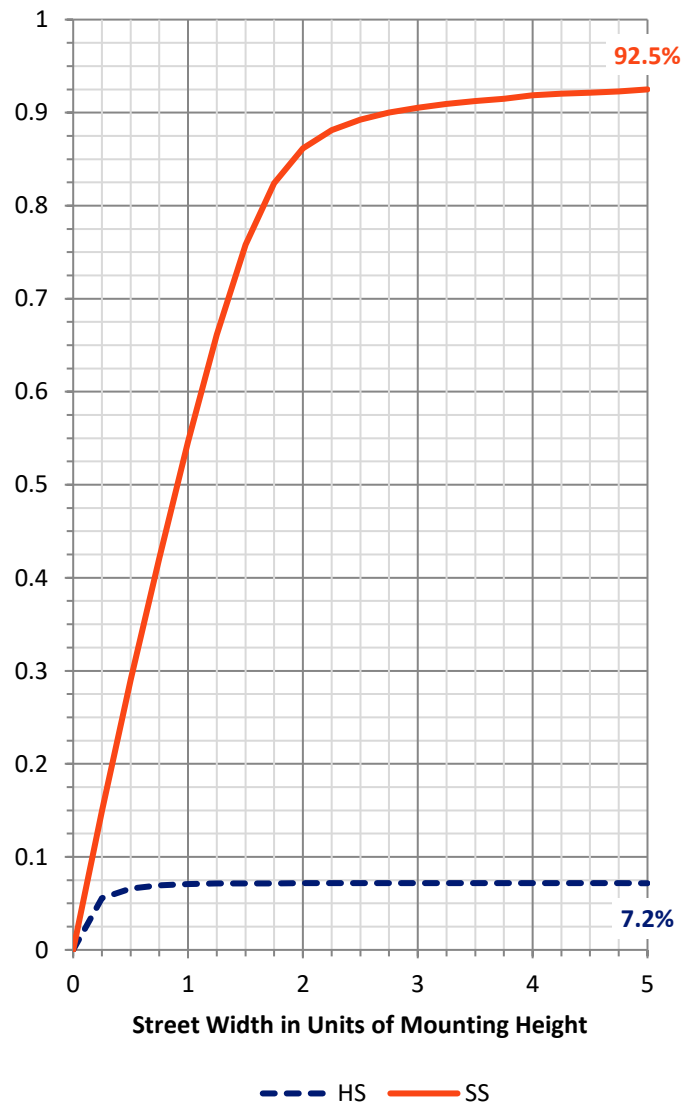
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1966.7	0.0	1966.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25285.3	0.0	25285.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	27252.0	0.0	27252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.2	2.2
10°-20°	1266.1	4.6
20°-30°	1715.7	6.3
30°-40°	2379.5	8.7
40°-50°	3795.1	13.9
50°-60°	6560.1	24.1
60°-70°	7493.7	27.5
70°-80°	3124.2	11.5
80°-90°	331.3	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°	27252.0	100.0
0°-180°	27252.0	100.0

Coefficient of Utilization



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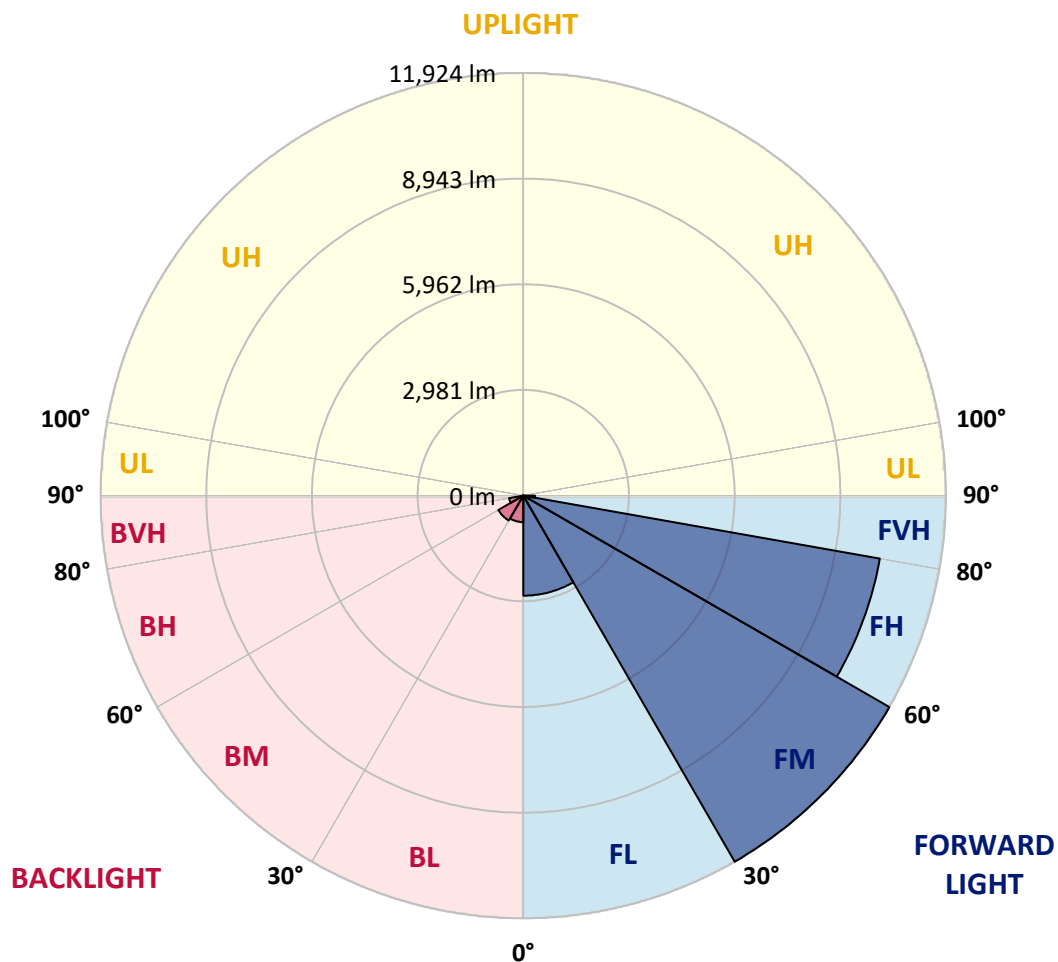
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2821.2	10.4			
FM	(30°-60°)	11923.9	43.8			
FH	(60°-80°)	10211.4	37.5			G4/12000
FVH	(80°-90°)	328.9	1.2			G3/500
BL	(0°-30°)	746.8	2.7	B2/1000		
BM	(30°-60°)	810.9	3.0	B1/1000		
BH	(60°-80°)	406.6	1.5	B1/500		G1/500
BVH	(80°-90°)	2.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3
2.5°	8384.3	8397.0	8349.7	8311.4	8213.1	8107.5	7967.3	7892.6	7765.1	7544.8	7300.7
5°	8581.0	8597.4	8590.1	8581.0	8542.7	8440.7	8262.3	8196.7	8009.1	7650.4	7209.7
7.5°	8143.9	8204.0	8211.3	8282.3	8349.7	8358.8	8291.4	8242.2	8069.2	7648.6	7047.6
10°	7564.8	7604.9	7663.1	7745.1	7907.2	8041.9	8107.5	8100.2	8000.0	7592.1	6858.2
12.5°	6980.2	7002.1	7091.3	7231.5	7430.0	7659.5	7834.3	7868.9	7870.7	7524.7	6699.8
15°	6477.6	6468.5	6537.7	6699.8	6978.4	7266.1	7579.4	7634.0	7721.4	7459.2	6552.3
17.5°	6047.8	6095.2	6106.1	6284.6	6541.3	6914.7	7313.5	7410.0	7584.8	7402.7	6430.3
20°	5782.0	5807.4	5831.1	5931.3	6162.6	6555.9	7064.0	7196.9	7457.4	7351.7	6293.7
22.5°	5703.6	5720.0	5700.0	5731.0	5894.9	6244.5	6792.7	6969.3	7335.3	7304.4	6182.6
25°	5763.7	5780.1	5732.8	5696.4	5752.8	5991.4	6530.4	6745.3	7237.0	7295.3	6098.8
27.5°	5909.4	5940.4	5874.8	5809.3	5776.5	5854.8	6324.6	6574.1	7169.6	7339.0	6060.6
30°	6137.1	6155.3	6106.1	6026.0	5951.3	5873.0	6217.2	6455.8	7151.4	7441.0	6056.9
32.5°	6384.7	6423.0	6395.7	6342.8	6246.3	6060.6	6248.2	6459.4	7195.1	7588.5	6102.5
35°	6690.7	6734.4	6759.9	6749.0	6625.1	6393.8	6444.8	6623.3	7311.7	7859.8	6226.3
37.5°	6991.2	7029.4	7173.3	7222.4	7113.2	6894.6	6827.3	6945.6	7568.4	8214.9	6450.3
40°	7335.3	7386.3	7588.5	7776.0	7723.2	7493.8	7369.9	7468.3	7961.8	8750.3	6874.6
42.5°	7665.0	7756.0	8063.8	8395.2	8444.4	8187.6	8105.7	8138.4	8544.5	9520.6	7466.5
45°	8133.0	8218.6	8615.6	9065.4	9296.7	9096.3	9012.6	9007.1	9344.0	10604.2	8426.2
47.5°	8808.6	8885.1	9353.1	9797.5	10209.0	10236.3	10077.9	10132.5	10349.2	11871.7	9602.6
50°	9637.2	9817.5	10125.2	10587.8	11137.8	11582.1	11631.3	11558.4	11744.2	13339.5	11015.8
52.5°	10840.9	10910.1	11192.4	11573.0	12217.7	12971.6	13556.2	13456.0	13397.7	14738.1	12443.5
55°	11738.7	11831.6	12270.5	12793.1	13738.3	14732.6	16000.1	16034.7	15299.0	16082.0	13840.3
57.5°	11467.4	11609.4	12274.1	13324.9	15402.8	17220.2	18163.5	18187.2	17058.1	17387.7	15417.3
60°	10074.3	10141.6	11094.1	12496.3	15544.8	19915.4	21232.1	21040.8	18848.3	18848.3	16810.5
62.5°	7144.1	7249.8	8021.9	10085.2	14038.8	20851.5	24907.0	24511.8	21314.0	20245.0	17640.9
65°	4565.5	4463.5	4975.2	6366.5	10458.5	19469.2	28106.7	28130.3	23634.1	20804.1	17187.4
67°	3307.1	3267.0	3414.5	4352.4	7091.3	16366.1	28174.0	29421.5	24967.1	20450.8	15737.8
67.5°	3024.8	3055.8	3163.2	3926.3	6443.0	14892.9	27868.1	29345.0	25267.6	20237.7	15213.4
70°	2292.7	2239.9	2356.5	2777.2	3862.5	9395.0	23972.8	26913.9	24894.3	18123.5	12155.8
72.5°	1686.3	1680.9	1842.9	2270.9	2973.8	5004.3	17996.0	21579.9	20337.9	13800.2	7654.0
75°	1138.2	1189.2	1447.8	1897.6	2695.2	3245.2	12268.7	15655.9	14118.9	7836.1	3128.6
77.5°	648.3	651.9	932.4	1524.3	2420.2	2611.4	7269.8	9974.1	7473.7	2606.0	928.8
80°	280.4	307.8	462.6	1107.2	2006.8	2312.8	4168.5	5481.5	3023.0	551.8	300.5
82.5°	103.8	122.0	204.0	681.1	1464.2	1904.9	2518.6	2616.9	1025.3	194.9	187.6
85°	0.0	3.6	74.7	318.7	763.0	850.4	1682.7	1551.6	453.5	92.9	122.0
87.5°	0.0	0.0	0.0	32.8	100.2	316.9	522.7	582.7	109.3	32.8	29.1
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°	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3	7224.3
2.5°	7169.6	7051.3	6754.4	6457.6	6237.2	6053.3	5776.5	5625.3	5545.2	5426.8	5434.1
5°	6989.3	6749.0	6226.3	5685.4	5248.4	4822.2	4312.3	4106.6	3933.5	3835.2	3769.7
7.5°	6721.6	6366.5	5592.6	4871.4	4199.4	3454.6	2895.5	2522.2	2270.9	2178.0	2088.8
10°	6428.4	5956.8	4949.7	3949.9	3017.5	2249.0	1775.6	1433.2	1311.2	1198.3	1209.2
12.5°	6157.1	5583.5	4359.7	3117.7	2114.3	1429.6	1114.5	974.3	934.2	921.5	921.5
15°	5934.9	5226.5	3725.9	2343.7	1449.6	1027.1	892.3	854.1	839.5	835.9	835.9
17.5°	5698.2	4887.8	3154.1	1731.9	1054.4	859.6	814.0	788.5	783.1	779.4	779.4
20°	5486.9	4547.3	2611.4	1289.3	852.3	774.0	744.8	728.4	723.0	719.3	721.2
22.5°	5286.6	4245.0	2101.5	974.3	750.3	704.8	675.6	659.2	648.3	639.2	641.0
25°	5108.2	3953.6	1690.0	797.6	675.6	635.6	606.4	582.7	559.1	548.1	546.3
27.5°	4982.5	3698.6	1316.6	682.9	608.2	564.5	528.1	499.0	468.0	451.6	448.0
30°	4878.7	3440.0	1041.7	602.8	540.9	499.0	453.5	411.6	378.8	362.4	355.1
32.5°	4811.3	3194.2	821.3	537.2	484.4	433.4	382.4	340.5	304.1	287.7	284.1
35°	4800.4	2988.4	672.0	482.6	433.4	378.8	326.0	280.4	249.5	233.1	229.5
37.5°	4878.7	2830.0	562.7	438.9	391.5	331.4	273.2	231.3	204.0	191.2	189.4
40°	5088.1	2729.8	488.1	402.5	353.3	287.7	233.1	196.7	169.4	156.6	156.6
42.5°	5486.9	2733.5	438.9	367.9	315.0	245.8	198.5	163.9	140.2	129.3	125.7
45°	6109.7	2857.3	397.0	333.3	278.6	213.1	169.4	134.8	111.1	102.0	102.0
47.5°	6943.8	3103.1	360.6	298.7	245.8	182.1	143.9	109.3	89.2	80.1	80.1
50°	8034.6	3498.3	329.6	269.5	218.5	156.6	116.5	89.2	69.2	61.9	60.1
52.5°	9174.6	3986.4	293.2	244.0	187.6	132.9	94.7	69.2	52.8	47.3	45.5
55°	10433.0	4463.5	258.6	218.5	153.0	111.1	74.7	54.6	38.2	32.8	32.8
57.5°	11702.3	4931.5	216.7	182.1	120.2	81.9	58.3	40.1	25.5	20.0	20.0
60°	12776.8	5082.7	183.9	147.5	91.1	58.3	41.9	25.5	14.6	9.1	9.1
62.5°	12924.3	4572.8	154.8	112.9	65.6	40.1	21.9	14.6	5.5	3.6	3.6
65°	12123.0	3715.0	129.3	85.6	43.7	20.0	9.1	5.5	1.8	0.0	0.0
67°	10862.8	3012.1	105.6	63.7	31.0	12.7	5.5	1.8	0.0	0.0	0.0
67.5°	10540.5	2871.9	102.0	60.1	27.3	10.9	3.6	1.8	0.0	0.0	0.0
70°	8271.4	2150.7	72.8	36.4	16.4	7.3	0.0	0.0	0.0	0.0	0.0
72.5°	5140.9	1216.5	52.8	21.9	10.9	3.6	0.0	0.0	0.0	0.0	0.0
75°	1943.1	426.1	36.4	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	604.6	162.1	21.9	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	204.0	61.9	14.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.7	25.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.3	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	3.6	1.8	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)