

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: P457798

Luminaire Tested: **GALN-SA9A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27099 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 274
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

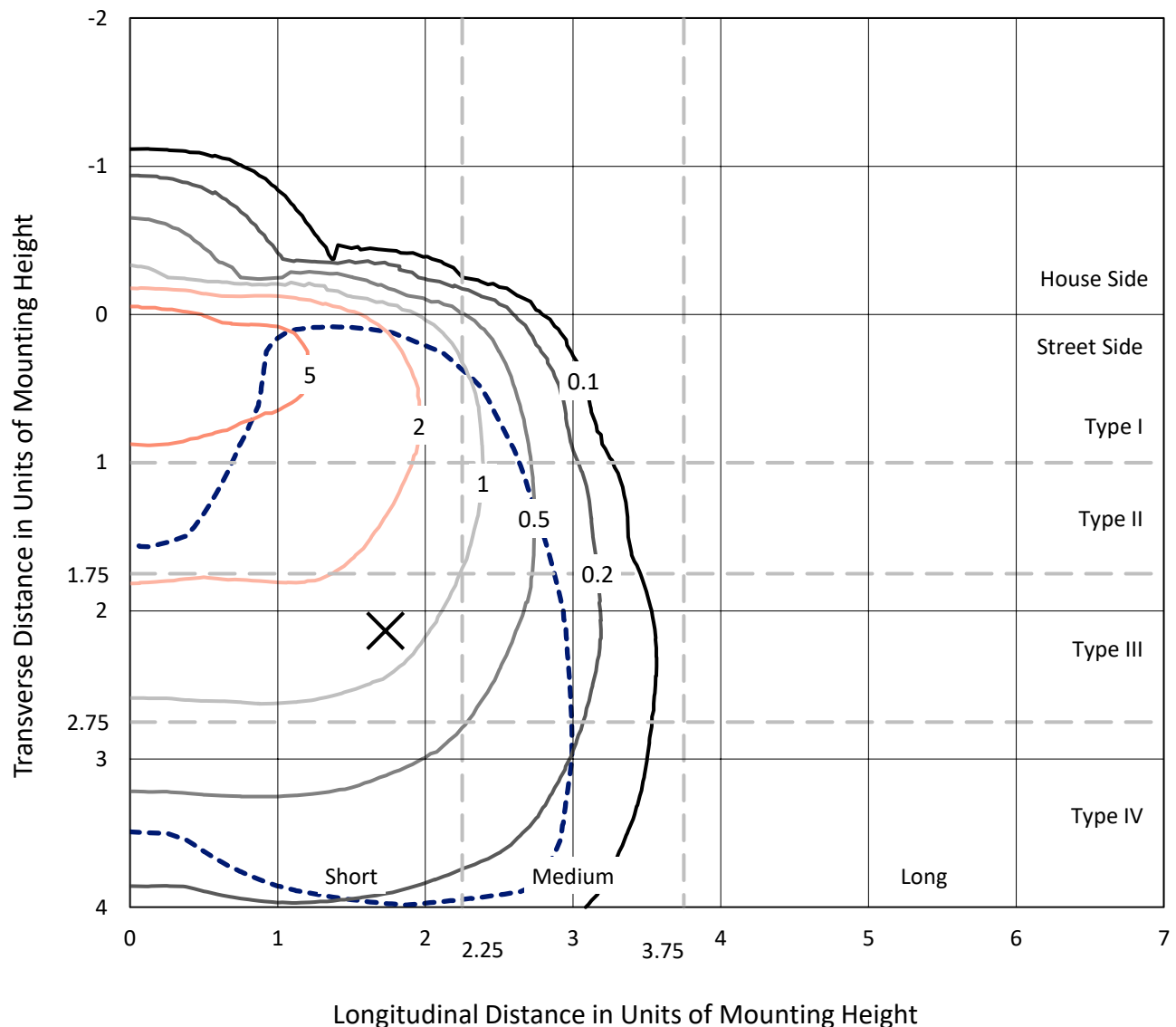


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Iso-Footcandle Lines of Horizontal Illumination

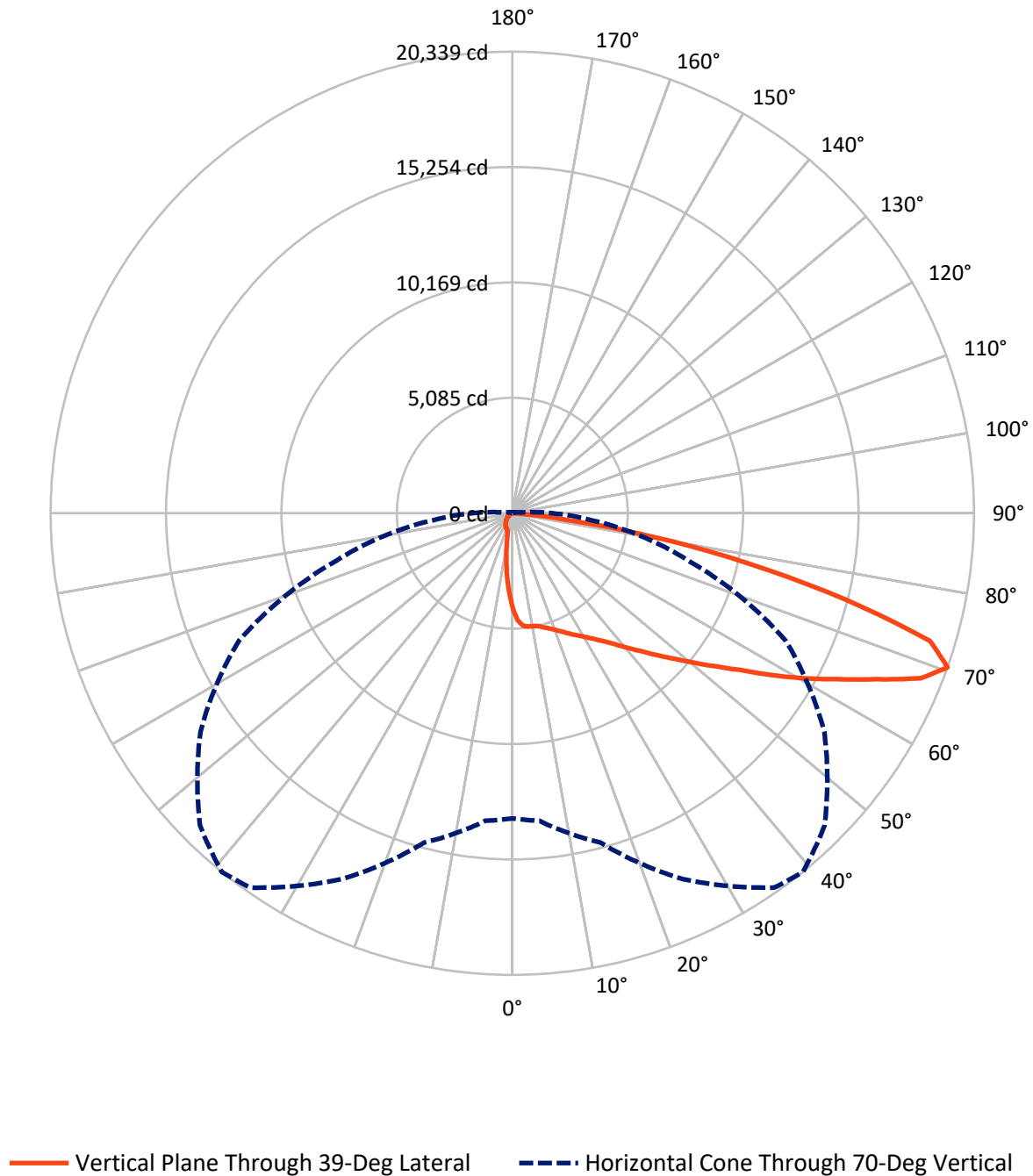
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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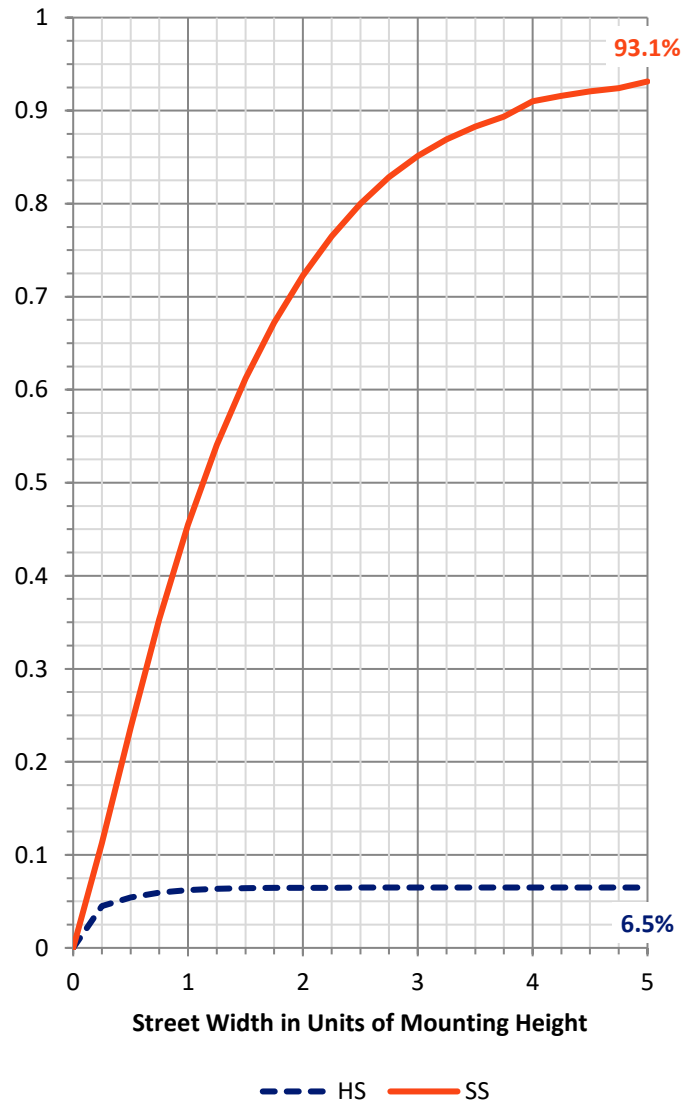
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.0	0.0	1767.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25332.0	0.0	25332.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	27099.0	0.0	27099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	1.3
10°-20°	937.2	3.5
20°-30°	1570.1	5.8
30°-40°	2435.1	9.0
40°-50°	3858.8	14.2
50°-60°	5656.5	20.9
60°-70°	7250.2	26.8
70°-80°	4555.8	16.8
80°-90°	474.6	1.8
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°	27099.0	100.0
0°-180°	27099.0	100.0

Coefficient of Utilization



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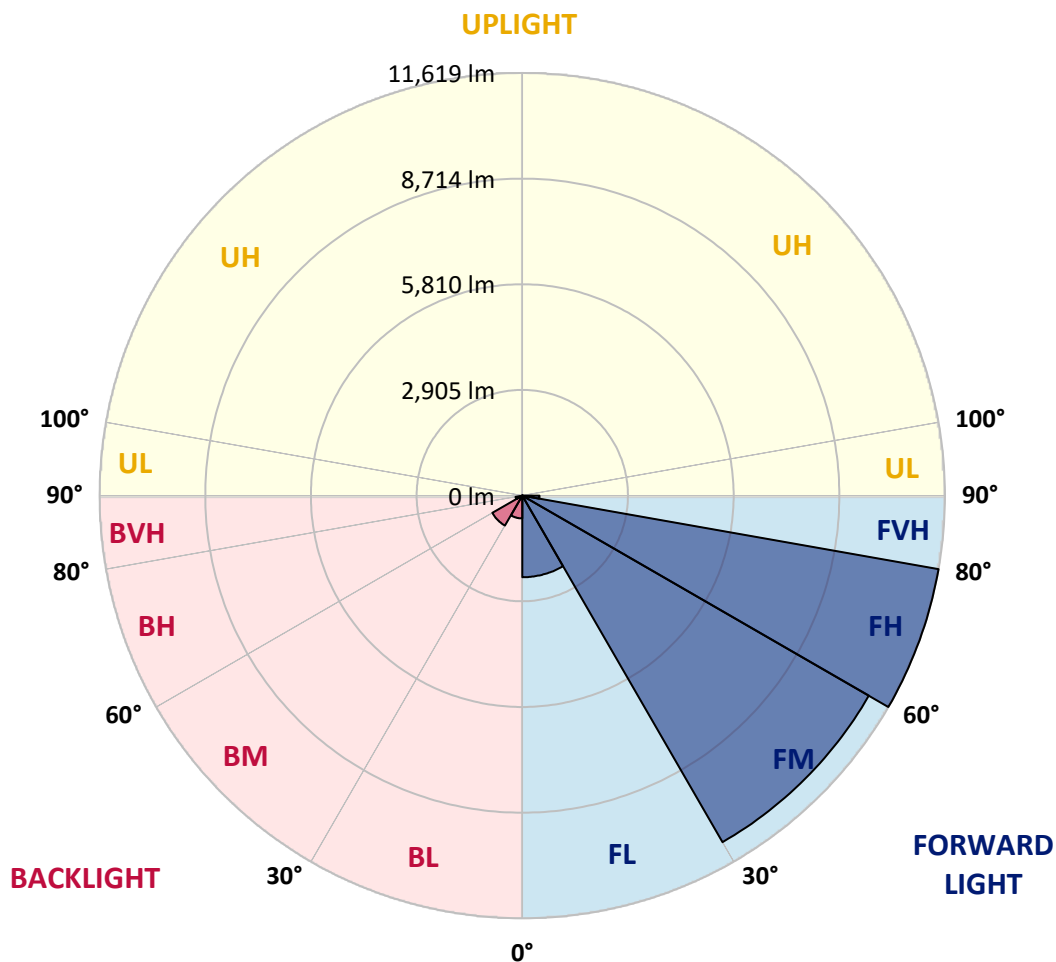
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.3	8.3			
FM	(30°-60°)	10999.4	40.6			
FH	(60°-80°)	11619.2	42.9			G4/12000
FVH	(80°-90°)	471.1	1.7			G3/500
BL	(0°-30°)	625.7	2.3	B2/1000		
BM	(30°-60°)	950.9	3.5	B1/1000		
BH	(60°-80°)	186.9	0.7	B1/500		G1/500
BVH	(80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4
2.5°	4885.8	4869.4	4847.5	4822.0	4749.2	4736.4	4692.7	4599.9	4488.8	4397.7	4272.1
5°	5117.0	5126.1	5109.7	5064.2	5011.4	4980.4	4925.8	4782.0	4638.1	4454.2	4248.4
7.5°	5169.8	5188.0	5168.0	5124.3	5073.3	5040.5	4996.8	4873.0	4705.5	4496.1	4213.8
10°	5164.4	5186.2	5173.5	5133.4	5091.5	5060.6	5013.2	4914.9	4780.1	4559.8	4224.7
12.5°	5155.3	5184.4	5182.6	5162.5	5127.9	5104.3	5075.1	4987.7	4862.1	4652.7	4284.8
15°	5129.8	5166.2	5199.0	5215.4	5217.2	5217.2	5180.8	5087.9	4967.7	4774.7	4363.1
17.5°	5140.7	5182.6	5264.5	5311.9	5344.6	5341.0	5302.8	5202.6	5069.7	4900.3	4445.1
20°	5208.1	5264.5	5379.2	5473.9	5506.7	5495.8	5444.8	5328.3	5177.1	5007.8	4525.2
22.5°	5373.8	5424.8	5568.6	5679.7	5703.4	5674.3	5601.4	5443.0	5306.4	5124.3	4621.7
25°	5621.4	5681.5	5814.5	5898.2	5898.2	5881.8	5779.9	5594.1	5452.1	5286.4	4747.4
27.5°	5921.9	5972.9	6104.0	6178.7	6135.0	6087.6	5985.6	5761.7	5625.1	5490.3	4898.5
30°	6226.0	6258.8	6397.2	6430.0	6384.4	6324.4	6215.1	5991.1	5870.9	5767.1	5117.0
32.5°	6513.7	6584.8	6699.5	6692.2	6630.3	6601.1	6501.0	6262.4	6195.1	6184.1	5423.0
35°	6801.5	6856.1	6958.1	6983.6	6928.9	6923.5	6850.6	6674.0	6675.8	6746.8	5900.1
37.5°	7049.1	7098.3	7218.5	7274.9	7285.8	7313.2	7284.0	7167.5	7333.2	7528.0	6531.9
40°	7256.7	7325.9	7478.9	7577.2	7690.1	7790.3	7795.7	7821.2	8154.5	8489.5	7356.9
42.5°	7418.8	7515.3	7737.5	7919.6	8178.1	8305.6	8407.6	8547.8	9108.7	9609.4	8329.3
45°	7630.0	7741.1	8017.9	8303.8	8708.0	8917.5	9059.5	9434.6	10230.4	10913.3	9327.2
47.5°	7979.6	8037.9	8320.2	8737.2	9268.9	9567.6	9844.4	10412.5	11434.1	12045.9	10157.6
50°	8429.4	8467.7	8680.7	9259.8	9948.2	10341.5	10845.9	11514.2	12683.3	12985.6	10627.4
52.5°	8926.6	8939.3	9099.6	9835.2	10709.3	11204.6	11769.2	12594.1	13701.2	13655.7	10938.8
55°	9503.8	9485.6	9622.2	10459.9	11610.7	12177.1	12834.4	13699.4	14584.4	14131.0	11117.2
57.5°	10164.8	10115.7	10248.6	11288.4	12765.2	13442.7	14111.0	14653.6	15269.1	14529.8	11202.8
60°	10856.8	10758.5	10916.9	12218.9	14125.5	14768.4	15323.8	15469.4	15990.2	14846.7	11055.3
62.5°	11408.6	11410.4	11705.4	13209.6	15524.1	16086.8	16381.8	16512.9	16611.2	14777.5	10279.6
65°	12269.9	12299.1	12770.7	14584.4	17142.9	17631.0	17833.1	17407.0	16638.5	13917.9	9114.1
67.5°	13158.6	13251.5	14114.6	16478.3	19013.1	19406.4	19146.0	17580.0	15895.6	11956.7	6910.7
70°	13448.1	13601.1	15023.3	17782.1	20134.9	20338.8	19457.4	16773.3	13287.9	7994.2	3478.1
72.5°	12322.7	12570.4	14500.7	17306.8	19419.2	19242.6	17408.8	14067.3	8447.6	3035.6	1061.6
75°	8689.8	8799.1	12051.4	14356.8	15618.8	15118.0	13242.3	9068.6	3474.5	852.2	364.2
77.5°	4487.0	4434.1	7167.5	9525.7	11139.1	10620.1	8671.6	4694.6	1316.6	355.1	225.8
80°	2320.0	2358.2	3101.2	4991.4	6799.6	6257.0	4623.5	2176.1	701.1	196.7	173.0
82.5°	1300.2	1220.1	1782.8	2179.7	3179.5	2493.0	1773.7	1540.6	305.9	118.4	163.9
85°	236.7	247.7	977.9	1178.2	1103.5	701.1	571.8	1028.9	89.2	65.6	114.7
87.5°	3.6	3.6	189.4	338.7	214.9	98.3	180.3	147.5	18.2	25.5	20.0
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°	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4	4228.4
2.5°	4208.3	4139.1	4009.9	3882.4	3720.3	3587.4	3498.2	3405.3	3310.6	3317.9	3339.7
5°	4135.5	4015.3	3760.4	3490.9	3232.3	2999.2	2769.7	2564.0	2480.2	2403.7	2407.4
7.5°	4062.7	3893.3	3520.0	3097.5	2706.0	2309.0	2021.3	1784.6	1658.9	1564.2	1536.9
10°	4029.9	3805.9	3299.7	2718.8	2163.4	1730.0	1360.3	1167.3	1017.9	970.6	983.3
12.5°	4044.5	3762.2	3101.2	2376.4	1715.4	1205.5	946.9	848.6	815.8	810.3	806.7
15°	4071.8	3731.2	2906.3	1997.6	1260.1	895.9	795.8	777.6	773.9	770.3	772.1
17.5°	4108.2	3703.9	2698.7	1642.5	967.0	783.0	753.9	744.8	743.0	743.0	743.0
20°	4144.6	3673.0	2467.5	1325.7	806.7	739.3	721.1	715.7	713.8	713.8	712.0
22.5°	4186.5	3645.7	2232.6	1041.6	743.0	708.4	692.0	688.3	686.5	684.7	684.7
25°	4246.6	3611.1	1983.1	852.2	702.9	679.2	662.8	659.2	657.4	650.1	651.9
27.5°	4326.7	3585.6	1726.3	735.7	666.5	642.8	631.9	626.4	622.8	617.3	619.1
30°	4436.0	3563.7	1453.2	672.0	624.6	604.6	593.6	590.0	586.4	580.9	580.9
32.5°	4625.4	3572.8	1165.4	621.0	586.4	562.7	551.8	548.1	544.5	539.0	539.0
35°	4909.4	3625.6	932.4	577.3	540.8	517.2	506.2	506.2	500.8	493.5	491.7
37.5°	5373.8	3760.4	748.4	535.4	497.1	475.3	462.5	458.9	453.4	442.5	440.7
40°	5921.9	3969.8	630.1	493.5	457.1	435.2	424.3	413.4	398.8	387.9	386.1
42.5°	6610.2	4184.7	546.3	451.6	418.8	398.8	386.1	367.8	346.0	331.4	329.6
45°	7327.7	4381.3	489.9	413.4	382.4	366.0	351.5	322.3	295.0	276.8	275.0
47.5°	7863.1	4417.8	444.3	376.9	351.5	335.1	315.0	278.6	242.2	225.8	220.3
50°	8116.2	4241.1	397.0	340.5	320.5	302.3	276.8	234.9	194.8	174.8	171.2
52.5°	8205.4	3935.2	358.7	307.7	289.5	267.7	236.7	189.4	153.0	132.9	131.1
55°	8169.0	3549.1	324.1	276.8	253.1	227.6	196.7	151.1	112.9	96.5	92.9
57.5°	7977.8	3057.5	289.5	245.8	216.7	191.2	156.6	112.9	76.5	61.9	60.1
60°	7462.5	2387.3	254.9	211.2	183.9	156.6	123.8	80.1	47.3	34.6	34.6
62.5°	6592.0	1771.8	222.2	176.6	154.8	125.6	87.4	51.0	25.5	18.2	16.4
65°	5508.5	1307.5	185.7	149.3	129.3	98.3	61.9	31.0	12.7	5.5	3.6
67.5°	3844.1	806.7	154.8	122.0	105.6	71.0	38.2	12.7	5.5	0.0	0.0
70°	1746.3	384.2	118.4	92.9	80.1	51.0	20.0	7.3	3.6	0.0	0.0
72.5°	542.7	202.1	83.8	67.4	54.6	32.8	10.9	5.5	3.6	0.0	0.0
75°	251.3	129.3	52.8	36.4	31.0	16.4	7.3	3.6	1.8	0.0	0.0
77.5°	187.6	100.2	31.0	20.0	16.4	10.9	5.5	3.6	1.8	0.0	0.0
80°	163.9	51.0	18.2	12.7	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	147.5	25.5	10.9	7.3	5.5	3.6	1.8	1.8	0.0	0.0	0.0
85°	80.1	14.6	7.3	5.5	3.6	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.6	7.3	5.5	3.6	3.6	1.8	1.8	1.8	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)