

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: P454311

Luminaire Tested: **GALN-SA5B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18552 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 204
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

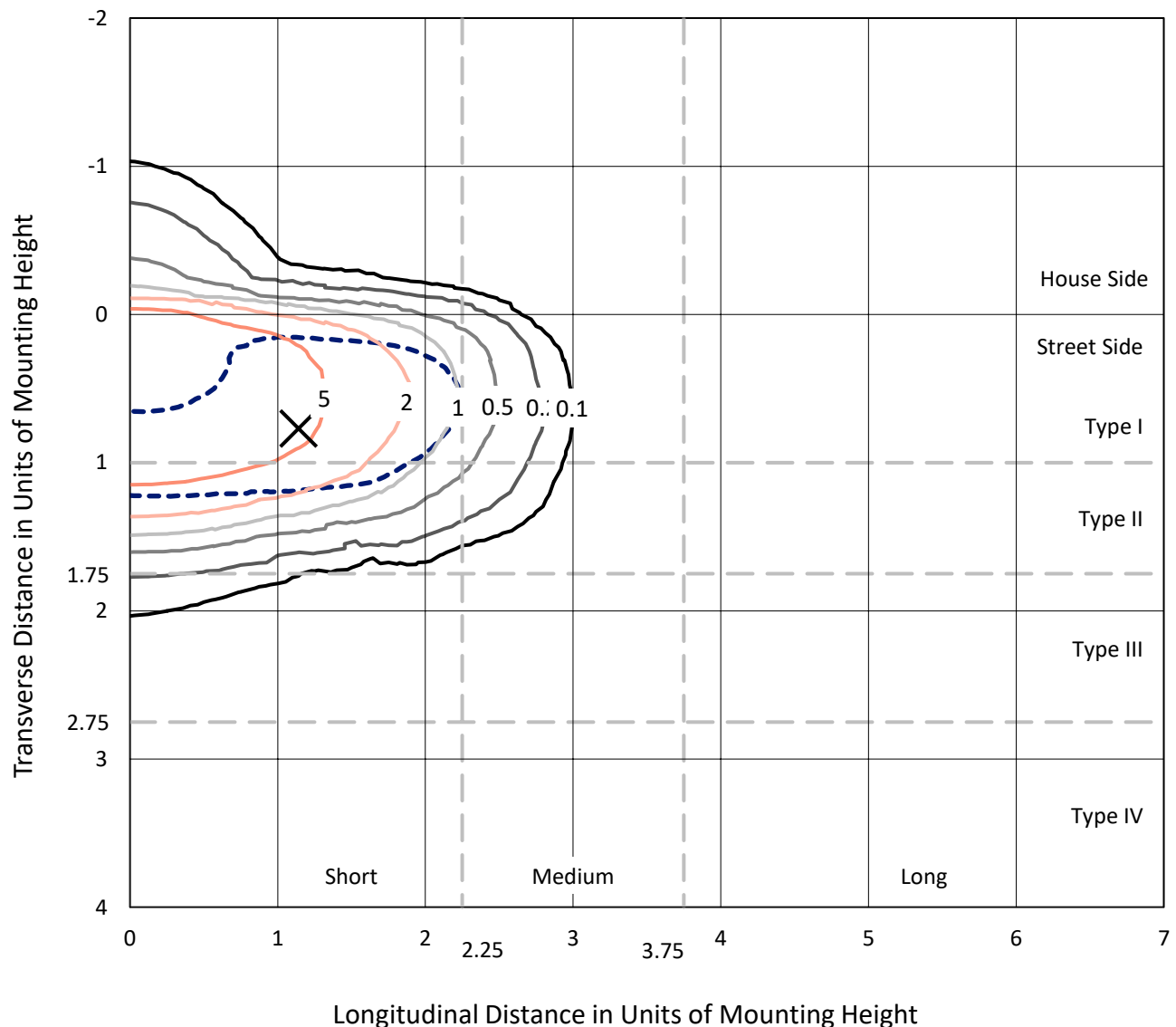


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

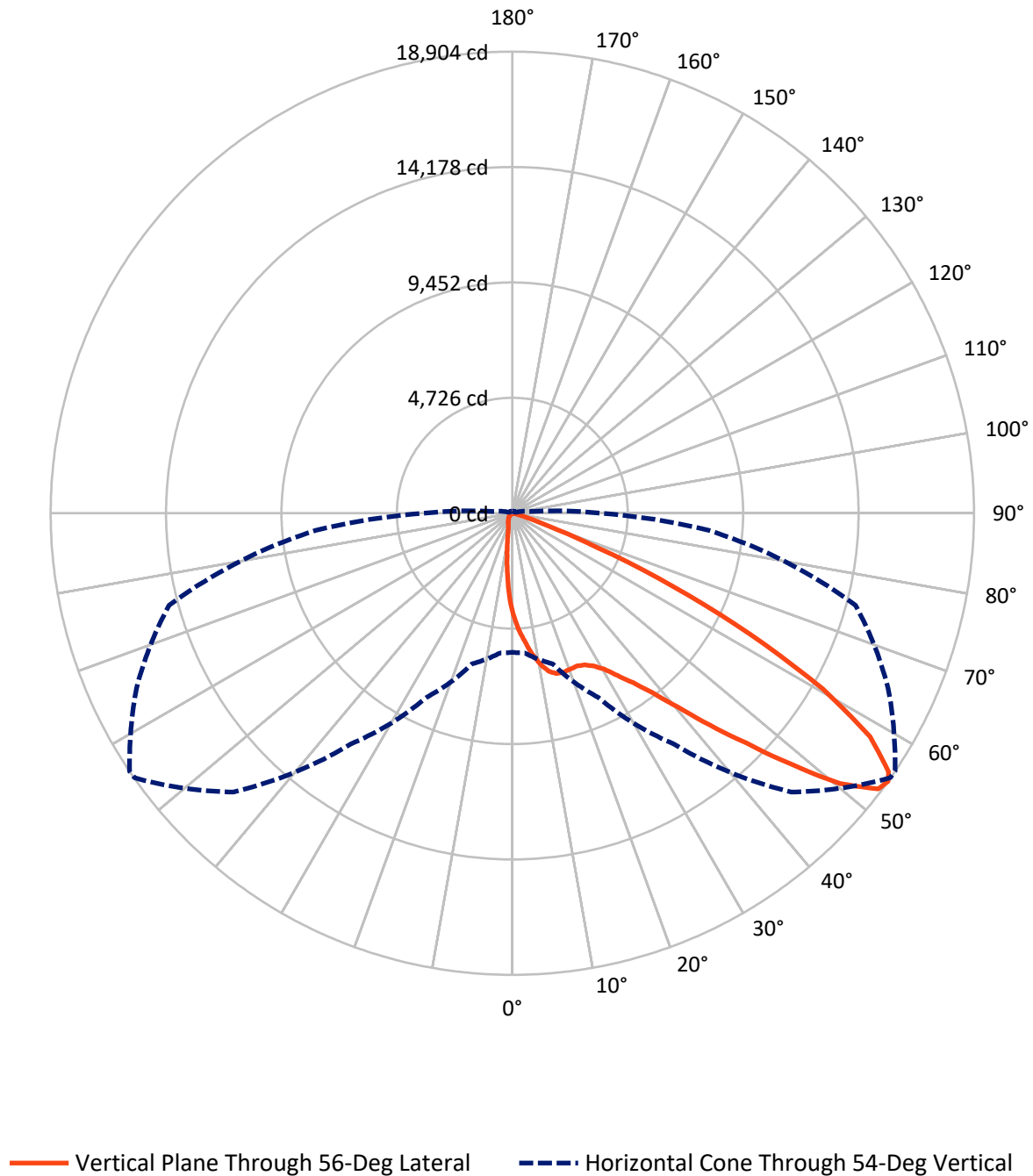


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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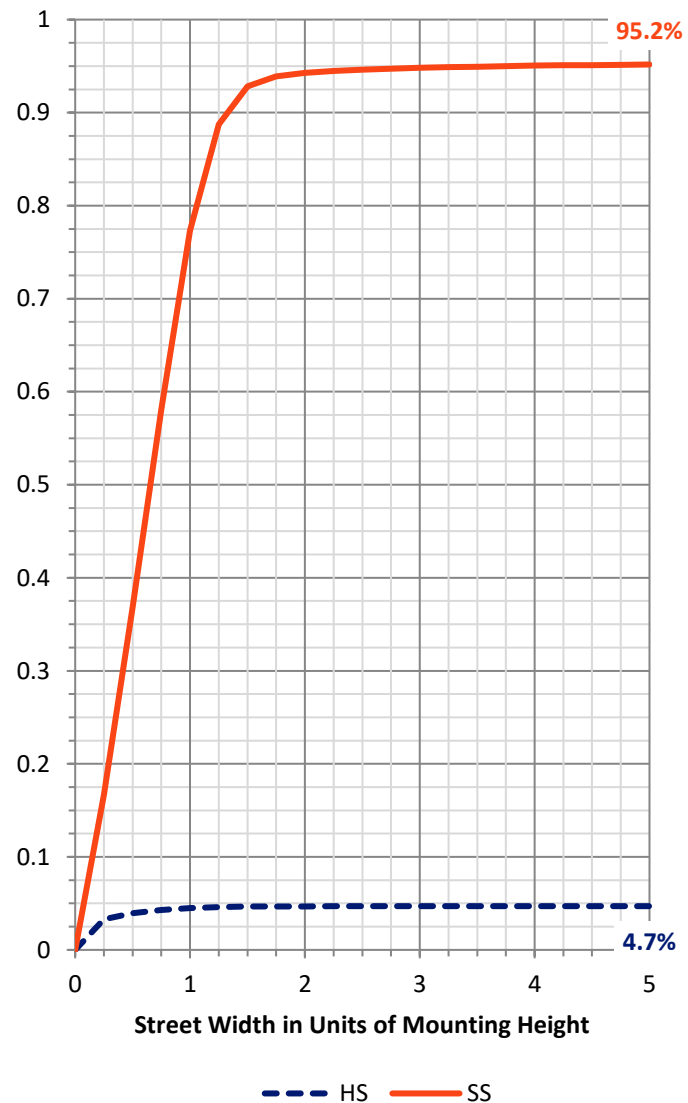
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.3	0.0	877.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17674.7	0.0	17674.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	18552.0	0.0	18552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	2.0
10°-20°	984.6	5.3
20°-30°	1705.3	9.2
30°-40°	2943.5	15.9
40°-50°	5010.0	27.0
50°-60°	4958.0	26.7
60°-70°	2262.9	12.2
70°-80°	290.6	1.6
80°-90°	32.8	0.2
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°	18552.0	100.0
0°-180°	18552.0	100.0

Coefficient of Utilization



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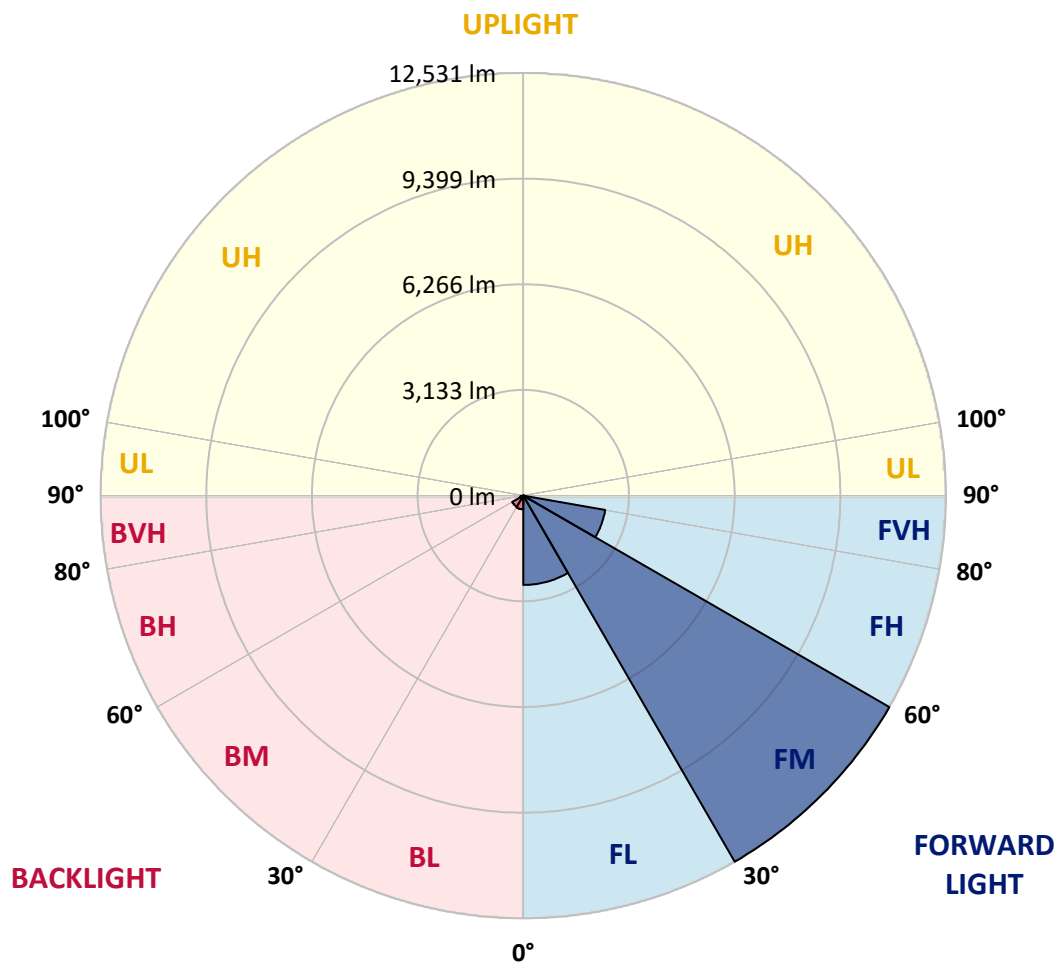
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2648.4	14.3			
FM	(30°-60°)	12531.4	67.5			
FH	(60°-80°)	2465.7	13.3			G2/5000
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	405.7	2.2	B1/500		
BM	(30°-60°)	380.2	2.0	B1/1000		
BH	(60°-80°)	87.8	0.5	B0/110		G0/110
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: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7
2.5°	5238.2	5201.9	5151.8	5113.0	5021.7	4890.2	4751.3	4751.3	4617.4	4430.9	4240.6
5°	6041.8	6018.0	5969.2	5869.0	5766.4	5582.4	5303.3	5254.5	5015.4	4677.5	4322.0
7.5°	6368.5	6379.7	6382.2	6355.9	6307.1	6125.6	5849.0	5815.2	5433.5	4980.4	4428.4
10°	6055.5	6110.6	6164.4	6273.3	6427.3	6471.1	6314.6	6279.6	5904.1	5287.0	4543.5
12.5°	5589.9	5620.0	5650.0	5821.5	6130.6	6484.9	6648.8	6647.6	6329.7	5592.4	4690.0
15°	5373.4	5399.7	5402.2	5478.5	5746.4	6262.1	6791.5	6810.3	6745.2	5969.2	4847.7
17.5°	5418.4	5439.7	5422.2	5441.0	5581.2	6016.7	6775.2	6837.8	7081.9	6330.9	4990.4
20°	5712.6	5753.9	5686.3	5633.7	5676.3	5951.7	6720.2	6807.8	7319.7	6683.9	5120.5
22.5°	6240.8	6263.3	6178.2	6034.3	5959.2	6088.1	6705.2	6791.5	7522.5	6973.0	5195.6
25°	6827.8	6820.3	6726.4	6565.0	6407.3	6363.4	6804.0	6881.6	7690.2	7233.4	5218.2
27.5°	7414.8	7437.4	7279.7	7079.4	6890.4	6776.5	7025.6	7083.2	7879.2	7530.0	5245.7
30°	8097.0	8060.7	7905.5	7676.4	7459.9	7300.9	7382.3	7398.6	8139.6	7923.0	5318.3
32.5°	8984.4	8884.3	8710.3	8309.8	8154.6	7885.5	7905.5	7925.5	8456.2	8312.3	5405.9
35°	10188.5	10183.5	9843.1	9303.6	8925.6	8591.4	8503.8	8520.1	8935.6	8890.6	5599.9
37.5°	11637.9	11658.0	11270.0	10726.7	10030.8	9500.1	9319.9	9322.4	9664.1	9689.1	5895.3
40°	12818.3	12870.8	12639.3	12272.5	11585.4	10755.5	10452.6	10425.1	10687.9	10656.6	6317.1
42.5°	13326.4	13375.3	13461.6	13589.3	13211.3	12526.6	11811.9	11849.5	11929.6	11710.5	6790.3
45°	13077.4	13155.0	13494.2	14282.7	14638.2	14407.9	13555.5	13424.1	13084.9	12855.8	7265.9
47.5°	12039.7	12228.7	12795.7	14108.7	15352.9	16131.4	15523.1	15349.1	14241.4	13691.9	7568.8
50°	10333.7	10345.0	11134.8	12813.3	14982.4	17219.1	17532.0	17401.8	15319.1	14161.3	7721.5
52.5°	7491.2	7737.8	8461.2	10405.1	13377.8	17053.9	18812.5	18758.6	16430.6	14401.6	7941.8
54°	5695.1	5742.6	6386.0	8314.8	11534.1	16146.4	18891.3	18903.8	16982.5	14546.8	8072.0
55°	4668.7	4554.8	5230.7	7083.2	10276.1	15344.1	18633.5	18693.6	17230.4	14621.9	8168.3
57.5°	2212.9	2214.2	2731.1	3736.2	6436.0	11914.6	17057.6	17270.4	17257.9	14750.8	8465.0
60°	1120.2	1127.7	1241.6	1724.8	3179.2	7920.5	14103.7	14610.6	15929.9	14769.6	8562.6
62.5°	783.5	774.8	756.0	829.9	1338.0	4025.3	10500.2	10940.8	13534.2	14054.9	8252.2
65°	670.9	652.1	599.5	588.3	675.9	1603.4	6539.9	7258.4	10333.7	12169.9	7368.5
67.5°	573.3	565.8	518.2	489.4	478.1	698.4	3374.5	3752.5	7063.1	8747.9	5581.2
70°	486.9	483.1	454.4	418.1	386.8	418.1	1251.7	1550.8	3936.5	4710.0	2633.5
72.5°	395.5	399.3	404.3	358.0	325.4	296.6	534.5	622.1	1647.2	1683.5	921.2
75°	346.7	343.0	343.0	311.7	271.6	220.3	294.1	316.7	504.4	468.1	214.0
77.5°	244.1	235.3	275.4	256.6	226.6	156.5	167.7	177.7	209.0	179.0	100.1
80°	169.0	169.0	176.5	230.3	204.0	113.9	102.6	110.1	123.9	106.4	57.6
82.5°	95.1	97.6	115.2	122.7	118.9	76.4	67.6	68.8	82.6	72.6	36.3
85°	11.3	18.8	66.3	65.1	48.8	33.8	37.5	38.8	51.3	45.1	21.3
87.5°	1.3	2.5	13.8	17.5	12.5	13.8	13.8	13.8	17.5	20.0	15.0
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°	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7	4121.7
2.5°	4138.0	4042.9	3816.3	3553.5	3385.7	3112.9	2882.6	2716.1	2674.8	2594.7	2618.5
5°	4133.0	3935.2	3473.4	2985.2	2464.5	2076.5	1787.4	1559.6	1459.4	1393.1	1346.8
7.5°	4135.5	3826.3	3085.3	2308.1	1686.0	1305.5	1037.6	898.7	806.1	767.3	772.3
10°	4143.0	3703.7	2634.7	1709.8	1137.8	843.6	679.7	613.3	582.0	577.0	575.8
12.5°	4160.5	3569.7	2204.2	1269.2	796.1	613.3	550.7	528.2	518.2	518.2	514.4
15°	4179.3	3422.0	1846.2	943.8	613.3	526.9	498.2	486.9	480.6	480.6	479.4
17.5°	4179.3	3251.8	1512.0	732.2	528.2	484.4	461.9	446.8	441.8	441.8	440.6
20°	4153.0	3054.1	1215.4	589.5	479.4	444.3	421.8	405.5	399.3	396.8	395.5
22.5°	4061.6	2790.0	967.5	506.9	439.3	409.3	380.5	361.7	356.7	354.2	355.5
25°	3898.9	2492.1	766.0	445.6	403.0	366.7	341.7	327.9	322.9	322.9	324.2
27.5°	3731.2	2180.4	607.1	399.3	359.2	326.7	306.7	297.9	296.6	300.4	301.7
30°	3576.0	1867.5	491.9	361.7	320.4	292.9	279.1	276.6	276.6	277.9	279.1
32.5°	3403.3	1593.4	411.8	329.2	289.1	265.4	257.8	257.8	260.3	260.3	262.8
35°	3294.4	1358.1	361.7	297.9	265.4	245.3	240.3	241.6	245.3	250.3	252.8
37.5°	3235.5	1170.3	329.2	272.9	242.8	229.1	224.0	226.6	235.3	244.1	245.3
40°	3240.6	1028.9	302.9	251.6	225.3	210.3	206.5	214.0	222.8	231.6	232.8
42.5°	3295.6	923.7	277.9	226.6	210.3	189.0	187.7	195.3	199.0	207.8	209.0
45°	3360.7	847.4	251.6	200.3	182.7	164.0	165.2	171.5	176.5	190.3	192.8
47.5°	3380.7	794.8	221.5	170.2	150.2	143.9	145.2	148.9	159.0	171.5	172.7
50°	3403.3	762.3	192.8	143.9	127.7	126.4	127.7	130.2	136.4	141.4	140.2
52.5°	3499.6	761.0	169.0	125.2	108.9	111.4	112.6	111.4	106.4	98.9	96.4
54°	3589.8	764.8	157.7	116.4	100.1	103.9	102.6	96.4	83.9	76.4	72.6
55°	3662.4	768.5	151.5	110.1	95.1	96.4	97.6	85.1	68.8	61.3	58.8
57.5°	3805.1	759.8	136.4	96.4	83.9	78.9	77.6	56.3	37.5	32.5	30.0
60°	3733.7	685.9	123.9	82.6	71.3	63.8	52.6	31.3	18.8	13.8	13.8
62.5°	3453.3	582.0	110.1	67.6	58.8	48.8	27.5	17.5	8.8	5.0	3.8
65°	3089.1	489.4	98.9	53.8	46.3	31.3	15.0	11.3	3.8	0.0	0.0
67.5°	2296.8	363.0	83.9	42.6	35.0	20.0	10.0	6.3	1.3	0.0	0.0
70°	1063.9	221.5	71.3	32.5	25.0	15.0	7.5	3.8	0.0	0.0	0.0
72.5°	305.4	138.9	58.8	23.8	17.5	12.5	6.3	2.5	1.3	0.0	0.0
75°	106.4	111.4	43.8	17.5	13.8	8.8	5.0	2.5	1.3	0.0	0.0
77.5°	63.8	90.1	27.5	15.0	11.3	7.5	5.0	2.5	1.3	1.3	0.0
80°	36.3	60.1	17.5	12.5	10.0	6.3	3.8	2.5	1.3	1.3	0.0
82.5°	20.0	28.8	13.8	11.3	8.8	6.3	3.8	2.5	1.3	1.3	1.3
85°	16.3	15.0	11.3	10.0	7.5	5.0	3.8	1.3	0.0	0.0	0.0
87.5°	12.5	10.0	10.0	10.0	7.5	5.0	3.8	1.3	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)