

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: P453418

Luminaire Tested: **GALN-SA4C-722-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-722-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20264 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 213
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

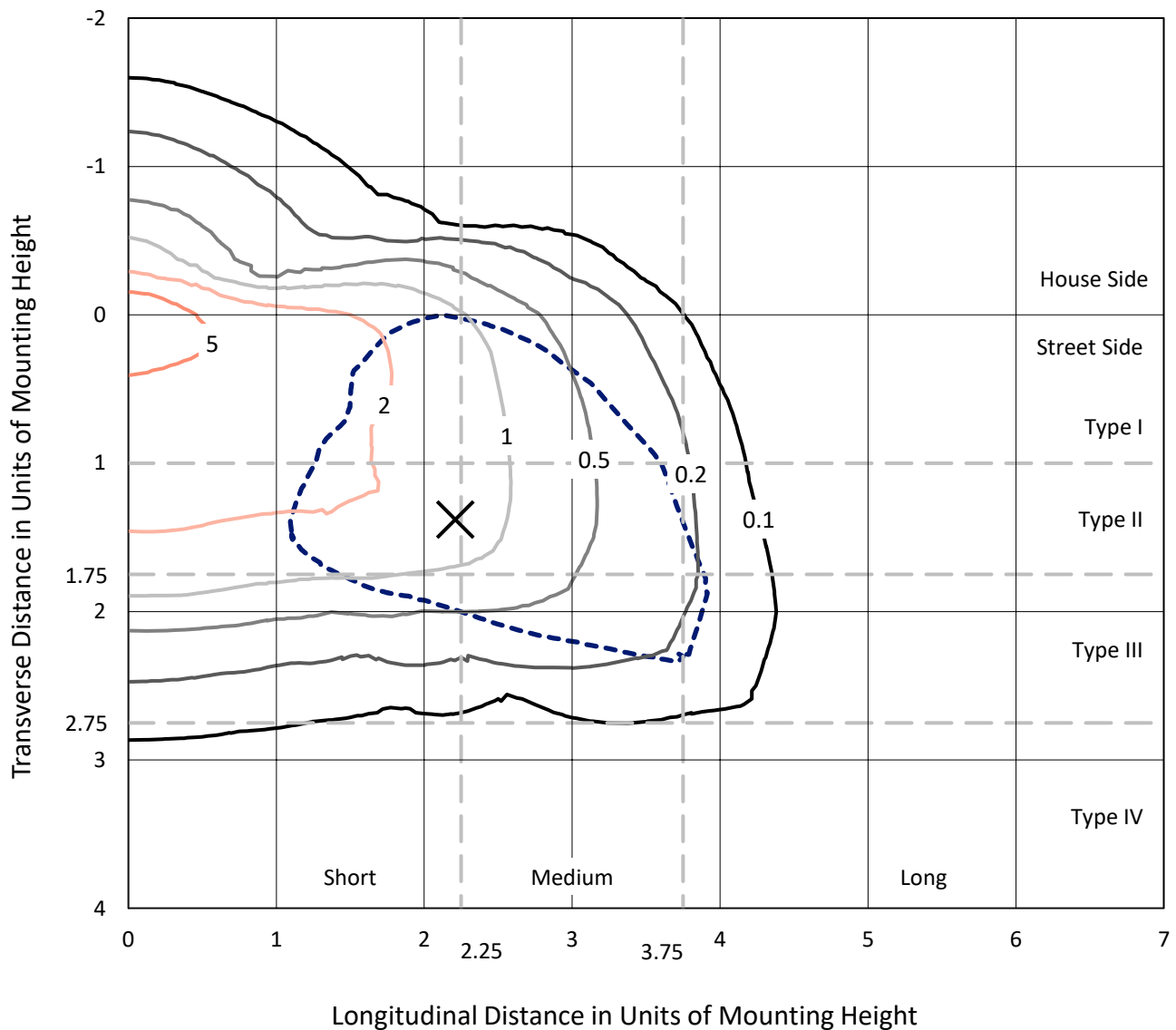


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Iso-Footcandle Lines of Horizontal Illumination

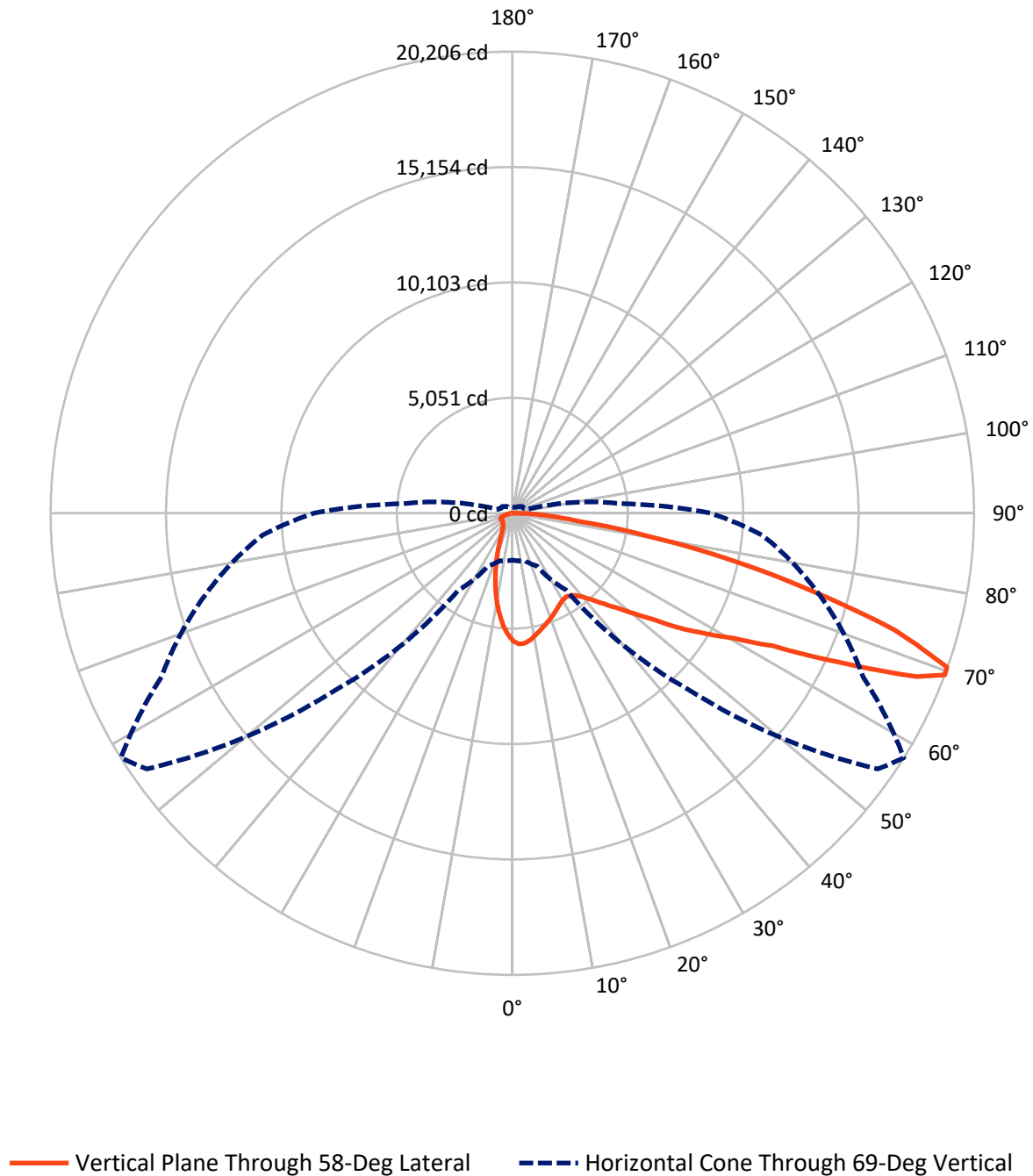
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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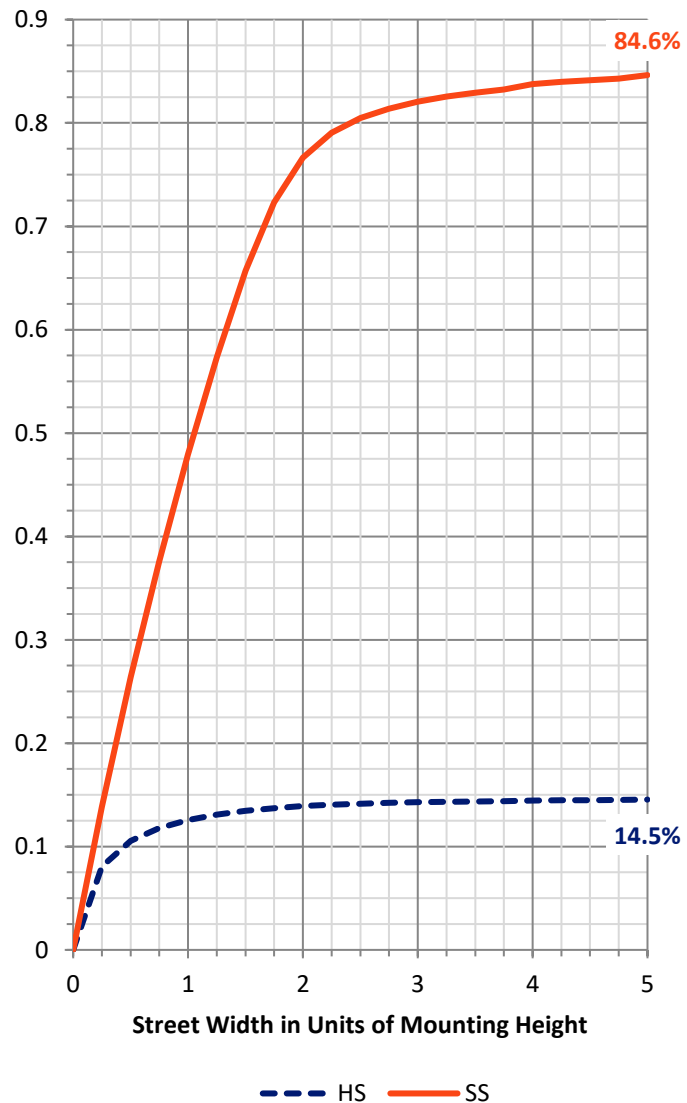
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2969.7	0.0	2969.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17294.3	0.0	17294.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	20264.0	0.0	20264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.6	2.3
10°-20°	1044.2	5.2
20°-30°	1349.2	6.7
30°-40°	1752.3	8.6
40°-50°	2547.6	12.6
50°-60°	4065.2	20.1
60°-70°	5430.6	26.8
70°-80°	3130.5	15.4
80°-90°	468.9	2.3
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°	20264.0	100.0
0°-180°	20264.0	100.0

Coefficient of Utilization



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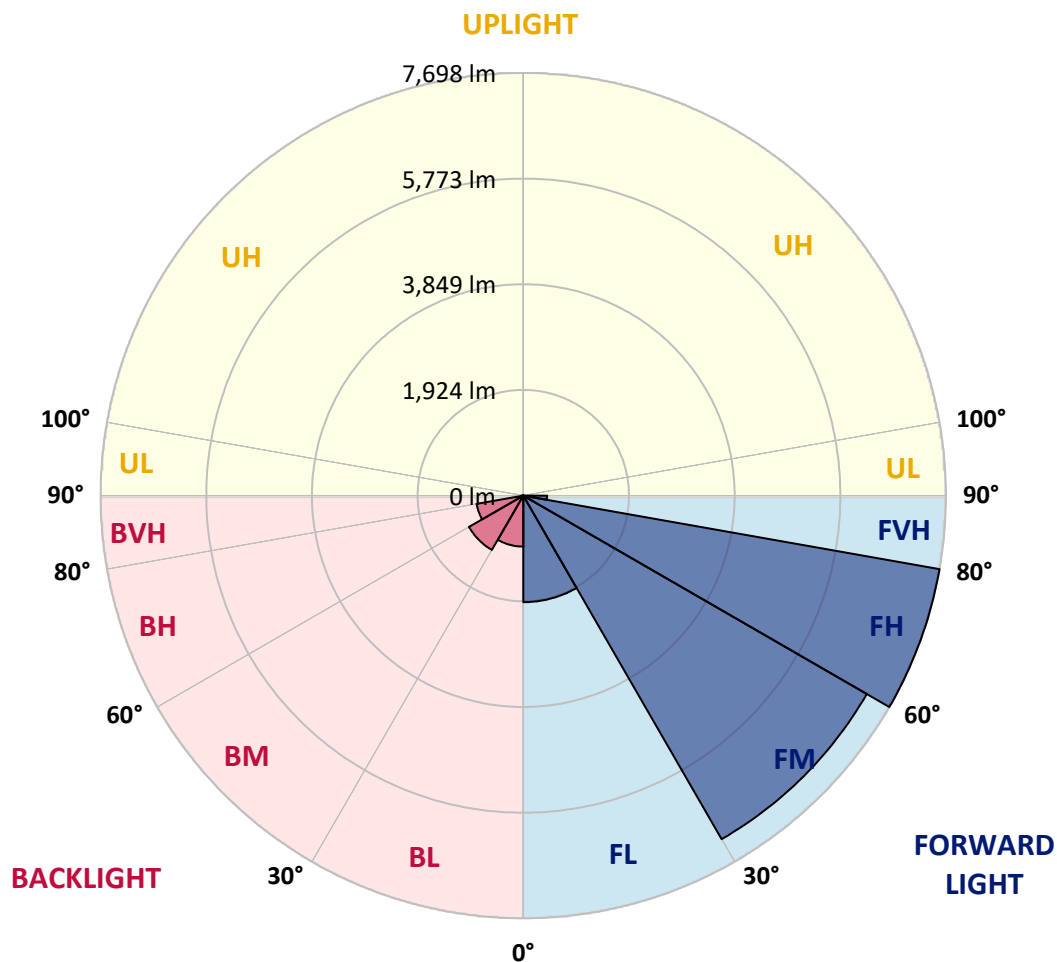
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1940.8	9.6			
FM	(30°-60°)	7223.1	35.6			
FH	(60°-80°)	7697.5	38.0			G4/12000
FVH	(80°-90°)	433.0	2.1			G3/500
BL	(0°-30°)	928.2	4.6	B2/1000		
BM	(30°-60°)	1142.0	5.6	B2/2500		
BH	(60°-80°)	863.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	35.9	0.2			G1/100
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°	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8
2.5°	5807.7	5823.5	5819.0	5813.4	5804.3	5779.5	5738.8	5732.0	5706.0	5650.6	5581.7
5°	5718.4	5732.0	5733.1	5741.0	5752.4	5747.8	5718.4	5715.1	5676.6	5602.0	5486.8
7.5°	5412.2	5430.3	5469.8	5513.9	5553.4	5590.7	5599.8	5605.4	5581.7	5495.8	5342.1
10°	5067.5	5085.6	5103.7	5169.2	5266.4	5359.1	5435.9	5446.1	5451.7	5372.6	5185.0
12.5°	4685.5	4722.8	4761.2	4858.4	4988.4	5134.2	5269.8	5291.3	5329.7	5269.8	5049.4
15°	4361.2	4399.6	4455.0	4542.0	4699.1	4909.3	5100.3	5135.3	5211.0	5180.5	4922.8
17.5°	4136.3	4149.8	4188.3	4287.7	4457.2	4678.7	4934.1	5004.2	5125.1	5117.2	4814.3
20°	3958.8	3975.8	3999.5	4060.5	4236.8	4470.8	4779.3	4869.7	5033.6	5060.7	4707.0
22.5°	3884.2	3896.7	3893.3	3926.1	4045.9	4280.9	4622.2	4729.6	4952.2	5022.3	4607.5
25°	3888.8	3900.1	3883.1	3875.2	3946.4	4113.7	4458.4	4595.1	4886.7	4996.3	4517.1
27.5°	3964.5	3972.4	3940.8	3909.1	3914.8	4009.7	4322.7	4474.2	4831.3	5007.6	4441.4
30°	4066.2	4080.9	4060.5	4022.1	3980.3	3984.8	4235.7	4384.9	4805.3	5047.2	4405.2
32.5°	4197.3	4210.9	4201.8	4171.3	4117.1	4057.2	4214.2	4352.1	4807.6	5127.4	4397.3
35°	4335.2	4362.3	4377.0	4374.7	4330.6	4226.7	4299.0	4413.1	4861.8	5261.9	4443.7
37.5°	4491.1	4513.7	4577.0	4617.7	4577.0	4456.1	4490.0	4569.1	4981.6	5456.3	4545.4
40°	4642.6	4676.5	4769.1	4895.7	4879.9	4773.7	4781.6	4833.6	5192.9	5745.6	4744.3
42.5°	4800.8	4841.5	5003.1	5190.7	5228.0	5145.5	5166.9	5213.3	5493.6	6146.8	5085.6
45°	5004.2	5052.8	5251.7	5485.6	5632.6	5581.7	5642.7	5665.3	5895.9	6668.9	5535.4
47.5°	5266.4	5322.9	5568.1	5859.7	6067.7	6114.0	6220.2	6206.7	6394.3	7287.1	6118.5
50°	5708.3	5739.9	5971.6	6268.8	6554.7	6763.8	6879.1	6900.6	7012.4	7888.3	6770.6
52.5°	6233.8	6262.0	6429.3	6689.2	7047.5	7490.5	7775.3	7705.2	7732.3	8620.6	7533.4
55°	6824.8	6872.3	6978.5	7151.4	7615.9	8268.0	8839.9	8856.8	8556.2	9321.3	8264.6
57.5°	7282.5	7362.8	7544.7	7791.1	8379.9	9132.6	9901.0	9912.4	9528.1	10069.4	9071.5
60°	7052.0	7146.9	7562.8	8162.9	9382.3	10641.3	11169.1	11104.6	10474.0	10921.6	10055.9
62.5°	6057.5	6074.4	6679.1	7617.1	9690.8	12659.7	13056.4	12784.0	11736.4	12002.0	11056.0
65°	3920.4	4031.2	4510.3	5824.7	8677.1	13779.6	16363.1	15733.6	13506.2	13228.1	11893.5
67.5°	2475.0	2446.7	2645.6	3326.0	5968.2	12793.0	19185.0	19085.6	15820.7	14002.3	11693.4
69°	2052.3	2084.0	2151.8	2549.6	4106.9	10922.7	19518.4	20205.6	16942.9	13941.3	10966.8
70°	1861.3	1876.0	1947.2	2260.3	3168.9	9148.4	18971.5	20175.0	17383.6	13685.8	10440.1
72.5°	1477.1	1475.9	1598.0	1880.5	2368.7	5222.3	15577.7	17515.9	16890.9	12497.0	8626.3
75°	1122.2	1140.3	1274.8	1591.2	2182.3	2853.6	10870.7	13489.2	13490.3	9870.5	5382.8
77.5°	809.2	820.5	977.6	1335.8	2055.7	2313.4	7240.7	9675.0	9095.3	4522.8	1691.8
80°	530.0	536.8	656.6	1057.8	1853.4	2182.3	4293.4	5921.9	4290.0	1200.2	559.4
82.5°	290.4	324.3	401.2	684.9	1487.2	2016.1	2609.5	2997.1	1609.3	534.6	291.6
85°	145.8	154.8	226.0	400.1	971.9	1668.1	1817.2	1718.9	830.6	265.6	151.4
87.5°	42.9	54.2	93.8	154.8	394.4	869.1	1011.5	907.5	319.8	96.1	31.6
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°	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8	5599.8
2.5°	5553.4	5533.1	5442.7	5361.3	5286.7	5207.6	5141.0	5082.2	5087.8	5089.0	5029.1
5°	5426.9	5380.5	5208.8	5048.3	4912.7	4740.9	4594.0	4499.0	4451.6	4388.3	4410.9
7.5°	5255.1	5165.8	4927.4	4660.6	4410.9	4188.3	3946.4	3780.3	3674.0	3571.2	3584.8
10°	5077.7	4934.1	4587.2	4234.6	3911.4	3555.4	3246.9	2982.4	2785.8	2712.3	2663.7
12.5°	4895.7	4707.0	4266.2	3797.2	3350.8	2924.8	2487.4	2203.7	1986.8	1871.5	1886.2
15°	4729.6	4500.2	3931.7	3359.9	2780.1	2272.7	1836.5	1566.4	1414.9	1383.3	1401.4
17.5°	4575.9	4275.3	3618.7	2934.9	2258.0	1704.2	1379.9	1227.3	1166.3	1149.3	1148.2
20°	4417.7	4084.3	3267.2	2480.6	1759.6	1321.1	1132.4	1061.2	1049.9	1056.7	1057.8
22.5°	4257.2	3848.1	2905.6	2029.7	1401.4	1080.4	990.0	970.8	979.8	995.6	997.9
25°	4109.1	3640.1	2557.5	1634.2	1118.8	949.3	905.2	905.2	925.6	949.3	950.4
27.5°	3987.1	3439.0	2210.5	1297.4	936.9	854.4	839.7	847.6	875.8	893.9	895.1
30°	3886.5	3251.4	1882.8	1039.7	823.9	778.7	775.3	788.8	809.2	826.1	827.3
32.5°	3810.8	3086.4	1576.5	873.6	745.9	721.0	719.9	730.1	741.4	745.9	750.4
35°	3781.4	2949.6	1296.3	768.5	693.9	678.1	678.1	676.9	681.5	683.7	686.0
37.5°	3805.1	2844.5	1079.3	700.7	655.5	644.2	637.4	630.6	628.4	628.4	629.5
40°	3905.7	2789.2	917.7	656.6	628.4	611.4	599.0	591.1	583.1	585.4	587.7
42.5°	4119.3	2799.3	808.0	627.2	604.6	580.9	562.8	553.8	548.1	554.9	553.8
45°	4459.5	2901.0	738.0	606.9	580.9	550.4	533.4	524.4	524.4	534.6	537.9
47.5°	4935.3	3095.4	700.7	591.1	562.8	526.6	509.7	502.9	505.2	522.1	523.2
50°	5516.2	3433.3	693.9	583.1	553.8	509.7	490.5	483.7	489.3	507.4	509.7
52.5°	6156.9	3868.4	726.7	584.3	545.9	499.5	474.7	464.5	470.1	484.8	489.3
55°	6916.4	4413.1	811.4	588.8	534.6	493.9	463.4	440.7	447.5	457.7	458.8
57.5°	7691.6	5100.3	960.6	589.9	525.5	483.7	444.1	414.8	414.8	421.5	424.9
60°	8638.7	5848.4	1157.3	591.1	526.6	469.0	418.1	385.4	380.9	384.2	385.4
62.5°	9579.0	6474.5	1190.0	587.7	537.9	454.3	389.9	356.0	348.1	346.9	344.7
65°	9993.7	6358.1	975.3	571.8	550.4	445.3	367.3	327.7	314.2	309.7	309.7
67.5°	9317.9	5378.3	733.5	550.4	542.5	436.2	345.8	304.0	288.2	279.1	279.1
69°	8682.8	4783.8	658.9	535.7	522.1	421.5	332.3	291.6	272.4	262.2	258.8
70°	8192.3	4374.7	627.2	523.2	502.9	404.6	322.1	282.5	261.1	249.8	247.5
72.5°	6537.8	3432.2	549.2	475.8	428.3	340.2	285.9	254.3	233.9	221.5	218.1
75°	3767.8	1860.2	455.4	413.6	344.7	264.4	241.8	221.5	205.7	194.4	191.0
77.5°	1159.5	718.8	330.0	326.6	253.1	204.6	193.3	185.3	174.0	161.6	159.3
80°	488.2	366.2	223.8	220.4	168.4	142.4	139.0	137.9	133.4	123.2	119.8
82.5°	267.8	206.8	156.0	135.6	101.7	82.5	85.9	87.0	83.6	73.5	66.7
85°	131.1	113.0	75.7	61.0	46.3	29.4	28.3	33.9	31.6	22.6	24.9
87.5°	26.0	31.6	20.3	9.0	4.5	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)