

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: P453620

Luminaire Tested: **GALN-SA4C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453620
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-SA4C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 18282 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

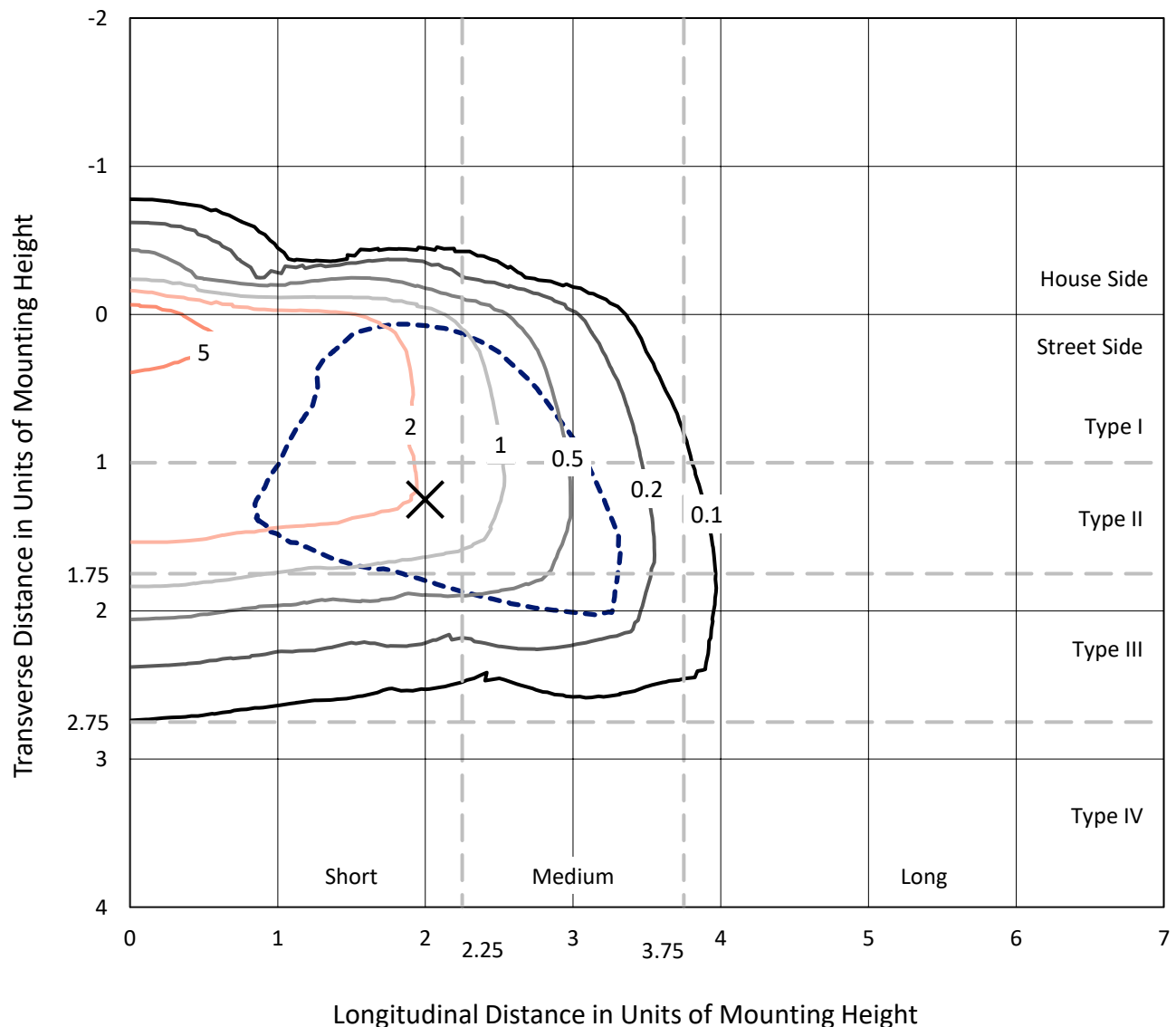


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Iso-Footcandle Lines of Horizontal Illumination

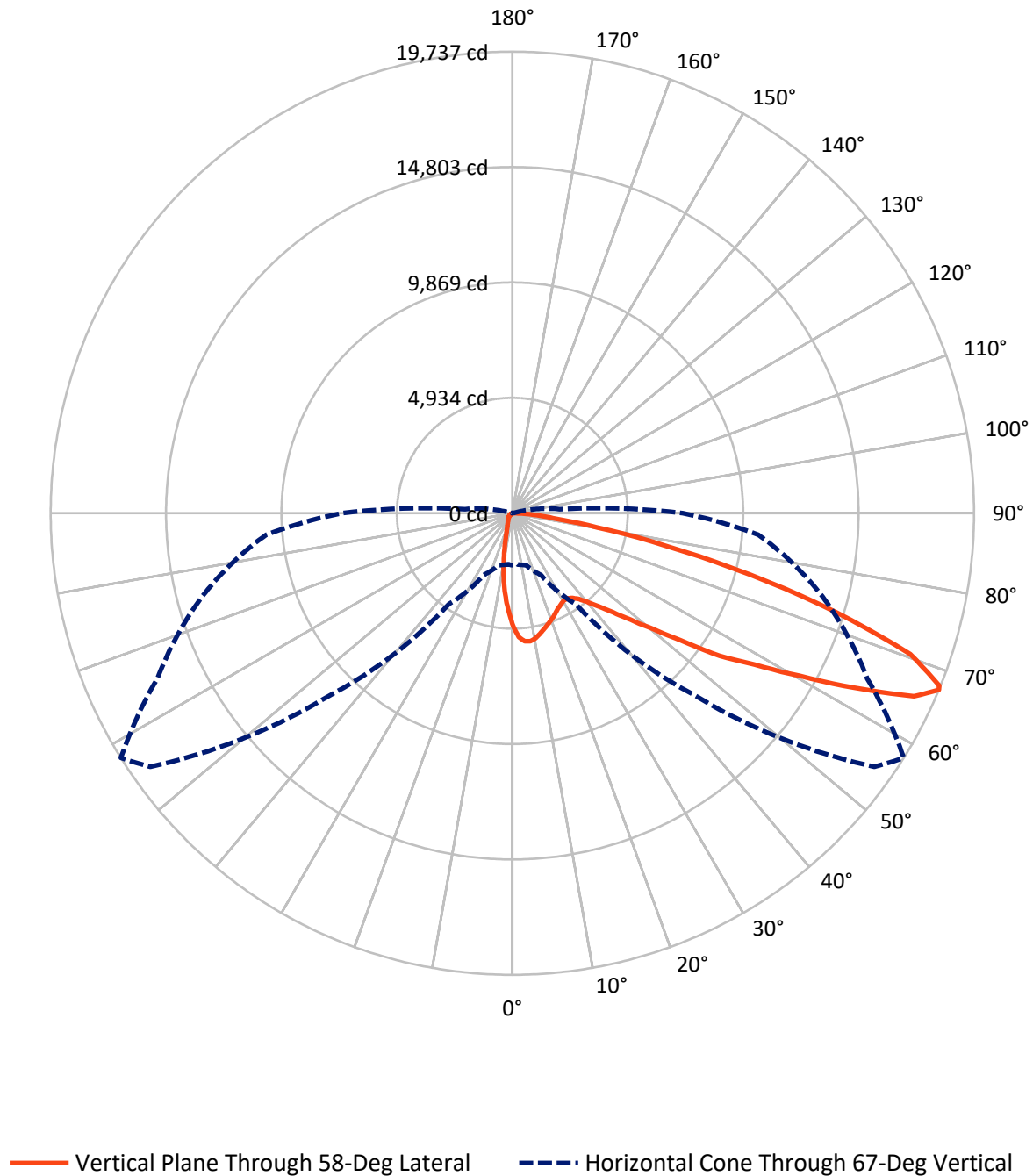
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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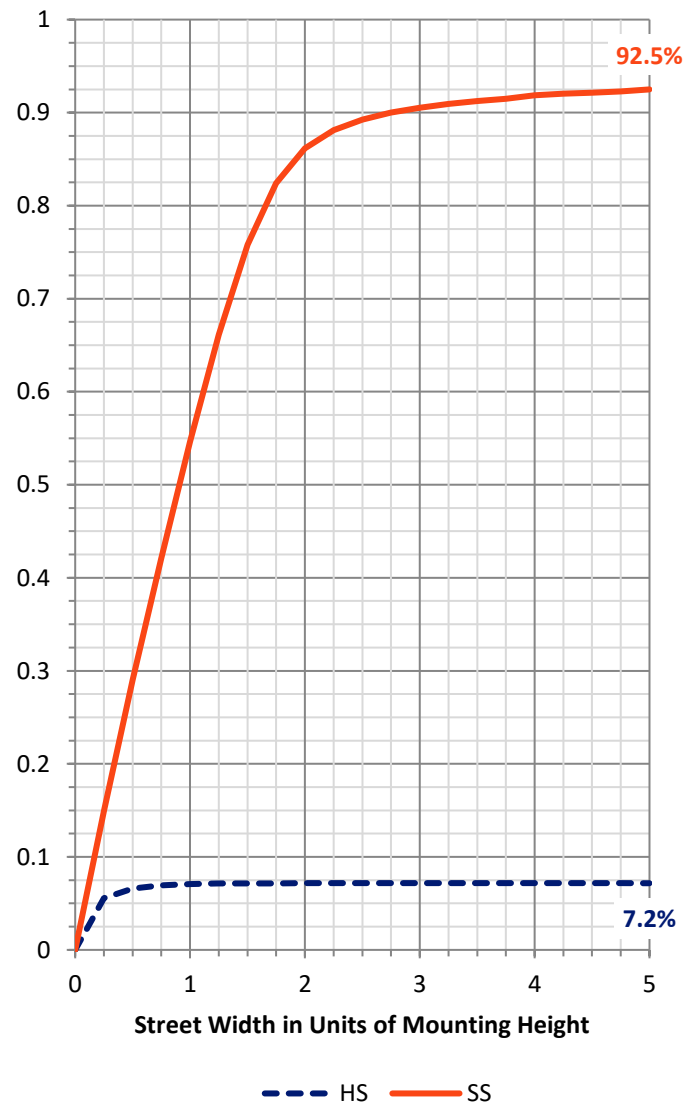
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1319.3	0.0	1319.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16962.7	0.0	16962.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	18282.0	0.0	18282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	2.2
10°-20°	849.4	4.6
20°-30°	1151.0	6.3
30°-40°	1596.3	8.7
40°-50°	2545.9	13.9
50°-60°	4400.9	24.1
60°-70°	5027.2	27.5
70°-80°	2095.9	11.5
80°-90°	222.2	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°	18282.0	100.0
0°-180°	18282.0	100.0

Coefficient of Utilization



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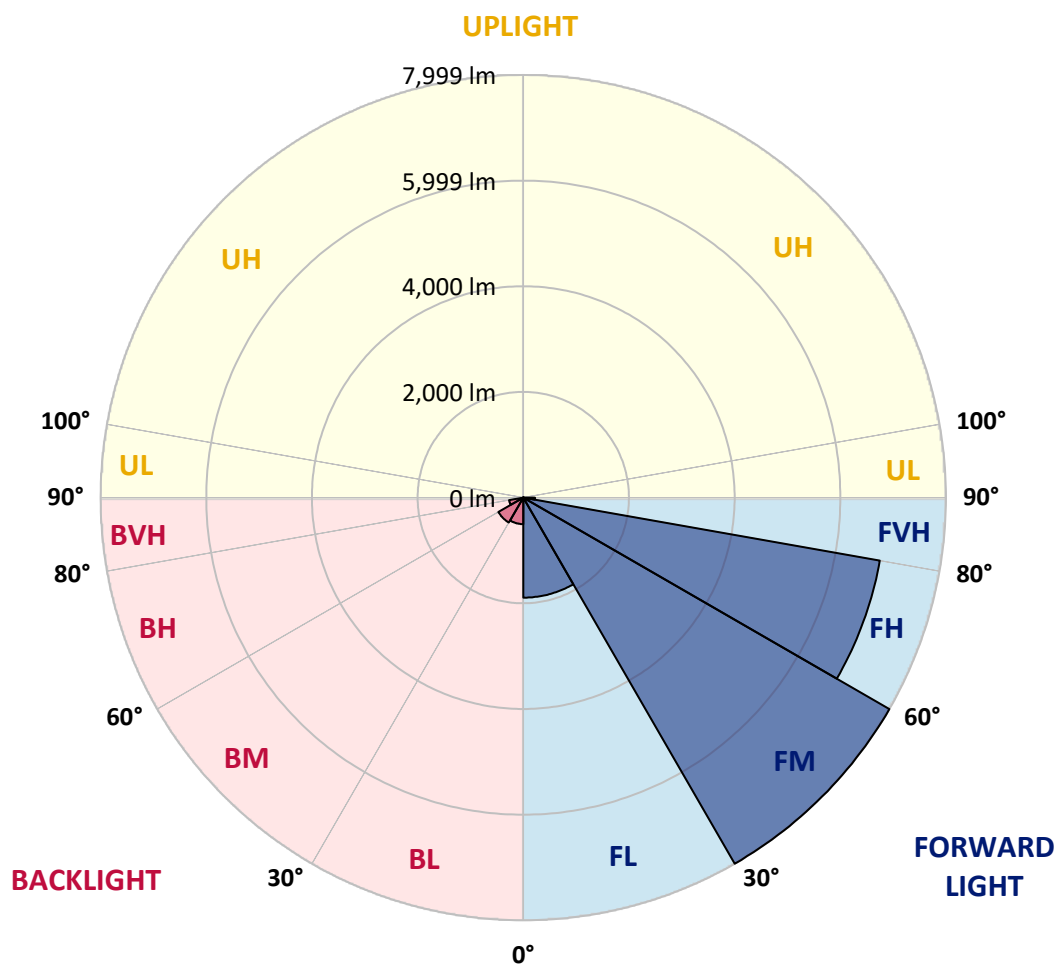
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.6	10.4			
FM	(30°-60°)	7999.1	43.8			
FH	(60°-80°)	6850.3	37.5			G3/7500
FVH	(80°-90°)	220.6	1.2			G2/225
BL	(0°-30°)	501.0	2.7	B2/1000		
BM	(30°-60°)	544.0	3.0	B1/1000		
BH	(60°-80°)	272.7	1.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4
2.5°	5624.6	5633.1	5601.4	5575.7	5509.8	5438.9	5344.8	5294.7	5209.2	5061.4	4897.7
5°	5756.5	5767.5	5762.6	5756.5	5730.9	5662.5	5542.7	5498.8	5372.9	5132.3	4836.6
7.5°	5463.3	5503.7	5508.5	5556.2	5601.4	5607.5	5562.3	5529.3	5413.2	5131.0	4727.9
10°	5074.8	5101.7	5140.8	5195.8	5304.5	5394.9	5438.9	5434.0	5366.8	5093.2	4600.8
12.5°	4682.7	4697.3	4757.2	4851.3	4984.4	5138.4	5255.7	5278.9	5280.1	5048.0	4494.5
15°	4345.5	4339.4	4385.8	4494.5	4681.5	4874.5	5084.6	5121.3	5179.9	5004.0	4395.6
17.5°	4057.2	4089.0	4096.3	4216.0	4388.3	4638.7	4906.3	4971.0	5088.3	4966.1	4313.7
20°	3878.8	3895.9	3911.8	3979.0	4134.2	4398.0	4738.9	4828.1	5002.8	4931.9	4222.1
22.5°	3826.3	3837.3	3823.8	3844.6	3954.6	4189.1	4556.9	4675.4	4920.9	4900.1	4147.6
25°	3866.6	3877.6	3845.8	3821.4	3859.3	4019.3	4380.9	4525.1	4854.9	4894.0	4091.4
27.5°	3964.3	3985.1	3941.1	3897.1	3875.2	3927.7	4242.9	4410.3	4809.7	4923.4	4065.7
30°	4117.0	4129.3	4096.3	4042.5	3992.4	3939.9	4170.8	4330.8	4797.5	4991.8	4063.3
32.5°	4283.2	4308.9	4290.5	4255.1	4190.4	4065.7	4191.6	4333.3	4826.8	5090.7	4093.8
35°	4488.4	4517.8	4534.9	4527.5	4444.5	4289.3	4323.5	4443.2	4905.0	5272.8	4176.9
37.5°	4690.0	4715.7	4812.2	4845.2	4771.9	4625.3	4580.1	4659.5	5077.3	5511.0	4327.2
40°	4920.9	4955.1	5090.7	5216.6	5181.1	5027.2	4944.1	5010.1	5341.2	5870.2	4611.8
42.5°	5142.0	5203.1	5409.6	5631.9	5664.9	5492.7	5437.7	5459.7	5732.1	6386.9	5008.9
45°	5456.0	5513.4	5779.8	6081.5	6236.7	6102.3	6046.1	6042.4	6268.4	7113.8	5652.7
47.5°	5909.2	5960.6	6274.5	6572.6	6848.7	6867.0	6760.8	6797.4	6942.8	7964.1	6441.9
50°	6465.1	6586.1	6792.5	7102.8	7471.8	7769.9	7802.8	7754.0	7878.6	8948.8	7389.9
52.5°	7272.6	7319.1	7508.4	7763.8	8196.2	8702.0	9094.2	9027.0	8987.9	9887.0	8347.7
55°	7874.9	7937.2	8231.7	8582.3	9216.3	9883.4	10733.6	10756.9	10263.3	10788.6	9284.7
57.5°	7692.9	7788.2	8234.1	8939.0	10332.9	11552.2	12185.0	12200.9	11443.4	11664.6	10342.7
60°	6758.3	6803.5	7442.5	8383.1	10428.2	13360.3	14243.5	14115.2	12644.4	12644.4	11277.3
62.5°	4792.6	4863.5	5381.5	6765.6	9417.9	13988.2	16708.9	16443.8	14298.5	13581.4	11834.4
65°	3062.7	2994.3	3337.6	4271.0	7016.1	13060.9	18855.4	18871.2	15854.9	13956.4	11530.2
67°	2218.6	2191.7	2290.6	2919.8	4757.2	10979.2	18900.6	19737.4	16749.2	13719.4	10557.7
67.5°	2029.2	2050.0	2122.1	2633.9	4322.3	9990.9	18695.3	19686.1	16950.8	13576.5	10205.9
70°	1538.1	1502.7	1580.8	1863.1	2591.2	6302.6	16082.1	18055.2	16700.3	12158.1	8154.7
72.5°	1131.3	1127.6	1236.3	1523.4	1995.0	3357.2	12072.6	14476.9	13643.7	9257.9	5134.7
75°	763.5	797.8	971.2	1273.0	1808.1	2177.0	8230.4	10502.8	9471.7	5256.9	2098.8
77.5°	434.9	437.4	625.5	1022.5	1623.6	1751.9	4876.9	6691.1	5013.8	1748.2	623.1
80°	188.1	206.5	310.3	742.8	1346.3	1551.5	2796.4	3677.2	2028.0	370.2	201.6
82.5°	69.6	81.9	136.8	456.9	982.2	1277.9	1689.6	1755.5	687.8	130.7	125.8
85°	0.0	2.4	50.1	213.8	511.9	570.5	1128.8	1040.9	304.2	62.3	81.9
87.5°	0.0	0.0	0.0	22.0	67.2	212.6	350.6	390.9	73.3	22.0	19.5
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°	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4	4846.4
2.5°	4809.7	4730.3	4531.2	4332.1	4184.2	4060.9	3875.2	3773.8	3720.0	3640.6	3645.5
5°	4688.8	4527.5	4176.9	3814.1	3520.9	3235.0	2892.9	2754.9	2638.8	2572.9	2528.9
7.5°	4509.2	4271.0	3751.8	3268.0	2817.2	2317.5	1942.5	1692.0	1523.4	1461.1	1401.3
10°	4312.5	3996.1	3320.5	2649.8	2024.3	1508.8	1191.1	961.5	879.6	803.9	811.2
12.5°	4130.5	3745.7	2924.7	2091.5	1418.4	959.0	747.7	653.6	626.7	618.2	618.2
15°	3981.4	3506.2	2499.5	1572.3	972.5	689.0	598.6	573.0	563.2	560.7	560.7
17.5°	3822.6	3279.0	2115.9	1161.8	707.4	576.6	546.1	529.0	525.3	522.9	522.9
20°	3680.9	3050.5	1751.9	864.9	571.7	519.2	499.7	488.7	485.0	482.6	483.8
22.5°	3546.5	2847.7	1409.8	653.6	503.3	472.8	453.2	442.2	434.9	428.8	430.0
25°	3426.8	2652.3	1133.7	535.1	453.2	426.4	406.8	390.9	375.1	367.7	366.5
27.5°	3342.5	2481.2	883.3	458.1	408.0	378.7	354.3	334.7	314.0	303.0	300.5
30°	3272.9	2307.7	698.8	404.4	362.8	334.7	304.2	276.1	254.1	243.1	238.2
32.5°	3227.7	2142.8	551.0	360.4	325.0	290.8	256.6	228.5	204.0	193.0	190.6
35°	3220.3	2004.8	450.8	323.7	290.8	254.1	218.7	188.1	167.4	156.4	153.9
37.5°	3272.9	1898.5	377.5	294.4	262.7	222.3	183.3	155.2	136.8	128.3	127.1
40°	3413.4	1831.3	327.4	270.0	237.0	193.0	156.4	131.9	113.6	105.1	105.1
42.5°	3680.9	1833.7	294.4	246.8	211.4	164.9	133.2	110.0	94.1	86.7	84.3
45°	4098.7	1916.8	266.3	223.6	186.9	142.9	113.6	90.4	74.5	68.4	68.4
47.5°	4658.3	2081.7	241.9	200.4	164.9	122.2	96.5	73.3	59.9	53.8	53.8
50°	5390.0	2346.8	221.1	180.8	146.6	105.1	78.2	59.9	46.4	41.5	40.3
52.5°	6154.8	2674.2	196.7	163.7	125.8	89.2	63.5	46.4	35.4	31.8	30.5
55°	6999.0	2994.3	173.5	146.6	102.6	74.5	50.1	36.7	25.7	22.0	22.0
57.5°	7850.5	3308.3	145.4	122.2	80.6	55.0	39.1	26.9	17.1	13.4	13.4
60°	8571.3	3409.7	123.4	99.0	61.1	39.1	28.1	17.1	9.8	6.1	6.1
62.5°	8670.2	3067.6	103.8	75.7	44.0	26.9	14.7	9.8	3.7	2.4	2.4
65°	8132.7	2492.2	86.7	57.4	29.3	13.4	6.1	3.7	1.2	0.0	0.0
67°	7287.3	2020.7	70.9	42.8	20.8	8.6	3.7	1.2	0.0	0.0	0.0
67.5°	7071.1	1926.6	68.4	40.3	18.3	7.3	2.4	1.2	0.0	0.0	0.0
70°	5548.9	1442.8	48.9	24.4	11.0	4.9	0.0	0.0	0.0	0.0	0.0
72.5°	3448.8	816.1	35.4	14.7	7.3	2.4	0.0	0.0	0.0	0.0	0.0
75°	1303.5	285.9	24.4	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	405.6	108.7	14.7	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	136.8	41.5	9.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	84.3	17.1	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.5	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	2.4	1.2	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)