

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: P530185

Luminaire Tested: **GALN-SA5B-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11581 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

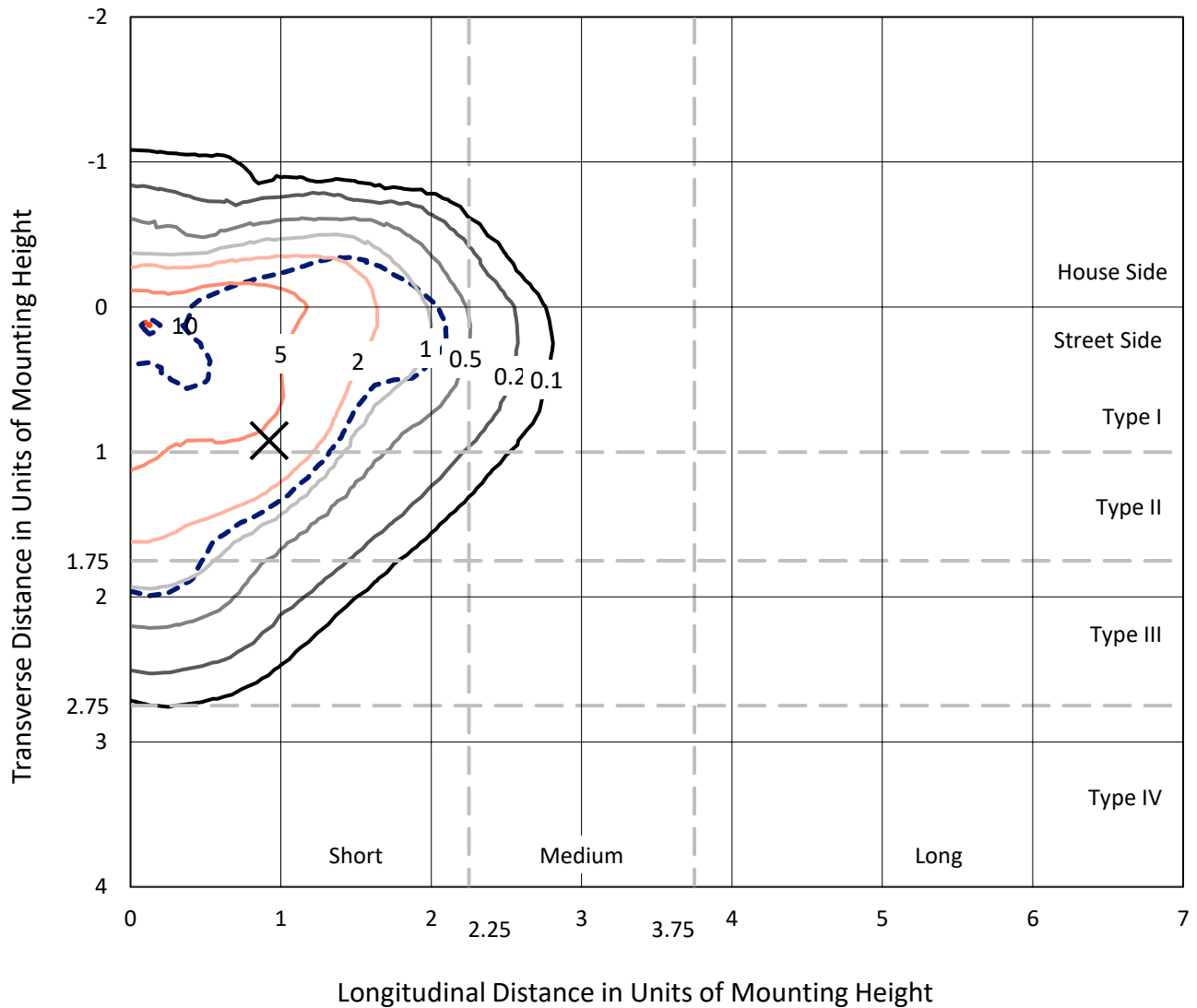
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

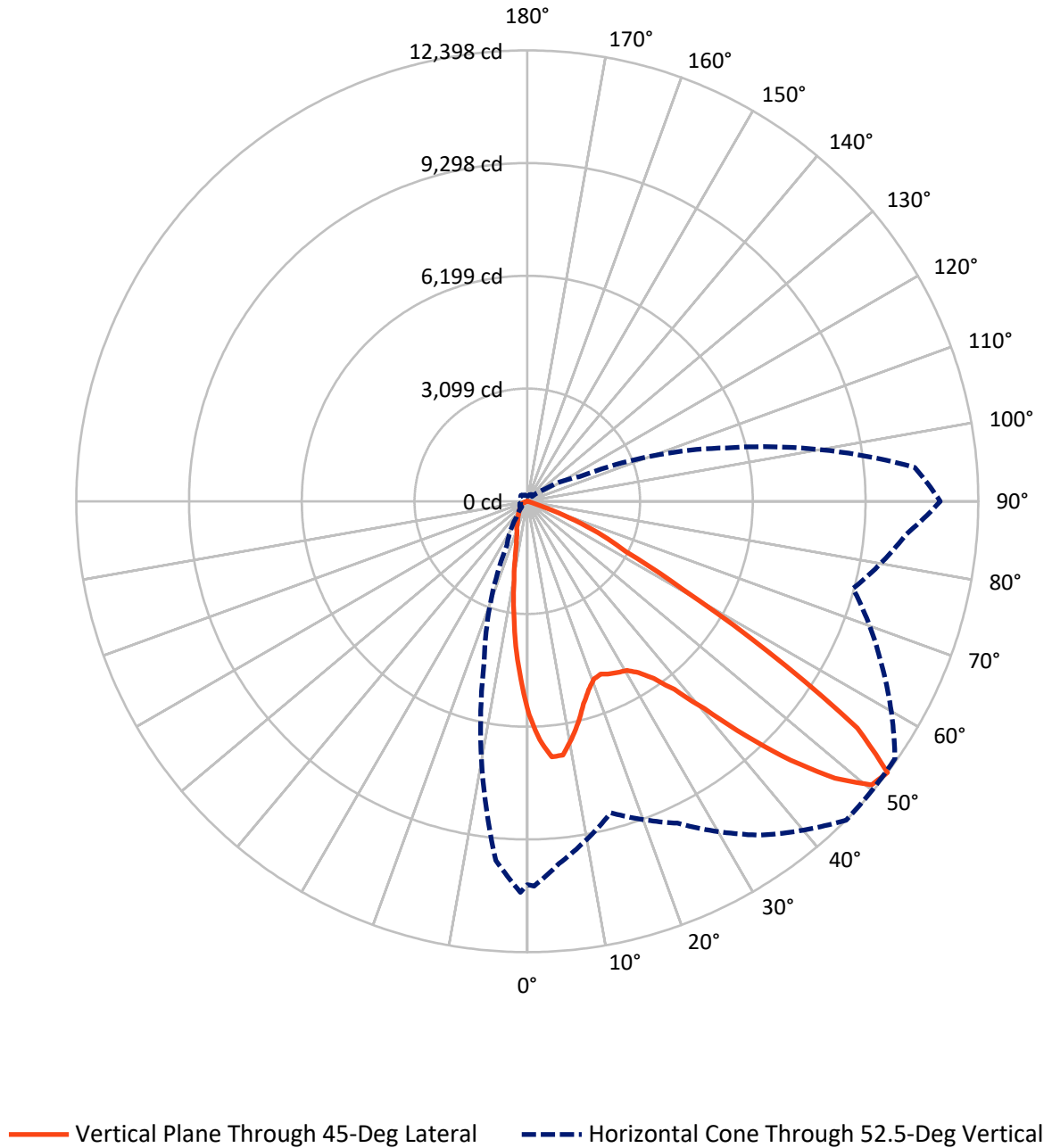
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	2350.4	0.0	2350.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9230.6	0.0	9230.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	11581.0	0.0	11581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	3.7
10°-20°	844.9	7.3
20°-30°	1285.8	11.1
30°-40°	1921.8	16.6
40°-50°	2736.8	23.6
50°-60°	2942.0	25.4
60°-70°	1303.7	11.3
70°-80°	105.5	0.9
80°-90°	12.3	0.1
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°	11581.0	100.0
0°-180°	11581.0	100.0

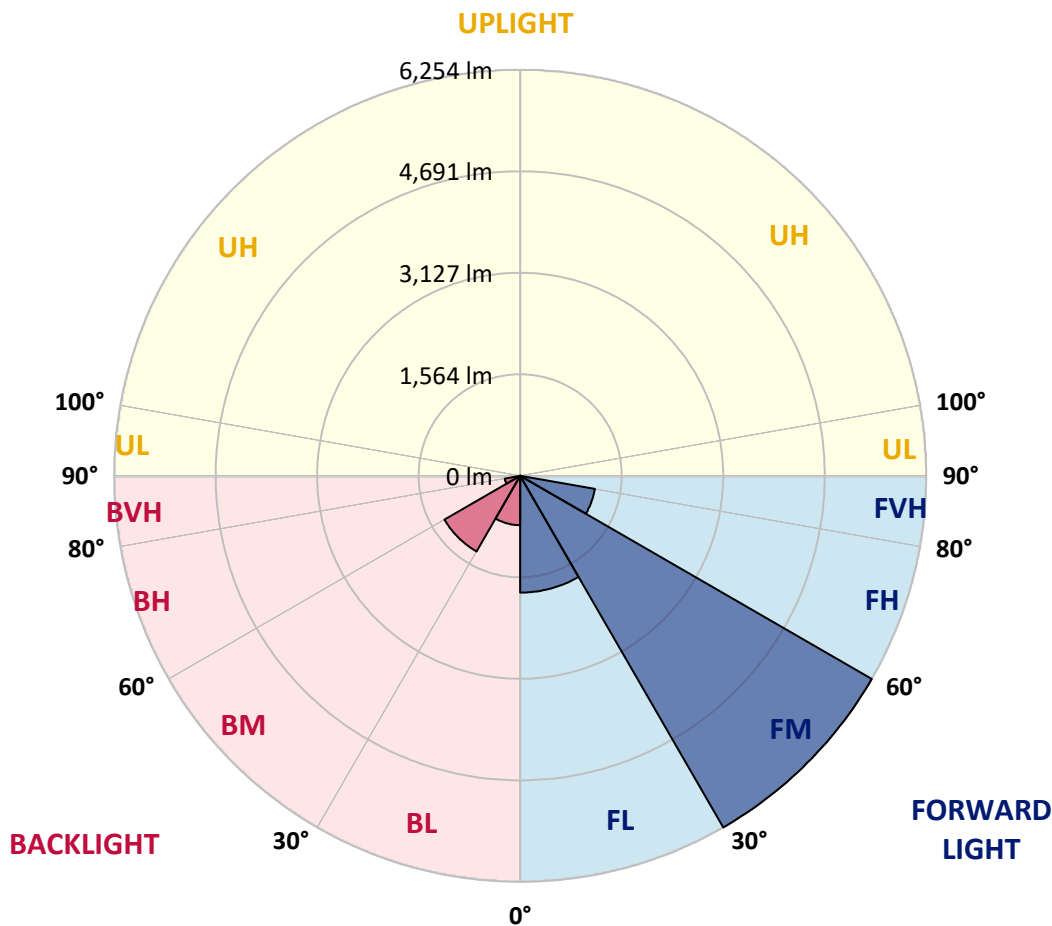


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.8	15.5			
FM (30°-60°)	6254.1	54.0			
FH (60°-80°)	1168.7	10.1			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	760.2	6.6	B2/1000		
BM (30°-60°)	1346.5	11.6	B2/2500		
BH (60°-80°)	240.5	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1
2.5°	6213.8	6232.0	6332.2	6457.5	6523.5	6673.9	6569.1	6596.4	6539.5	6339.0	6181.9
5°	6024.7	6022.4	6150.0	6459.8	6753.6	7052.0	7061.1	6901.7	6621.5	6314.0	5874.4
7.5°	5455.3	5544.1	5676.2	6170.5	6714.9	6938.1	7045.2	6858.4	6427.9	5988.3	5512.2
10°	5024.8	5070.3	5293.6	5890.3	6288.9	6587.3	6653.4	6546.3	6216.0	5667.1	5134.1
12.5°	4776.5	4799.3	5061.2	5562.3	5983.7	6204.7	6236.5	6286.7	6049.8	5535.0	4894.9
15°	4778.8	4797.0	5150.1	5569.2	5735.4	5676.2	5781.0	5778.7	5881.2	5509.9	5095.4
17.5°	5122.7	5143.2	5462.1	5669.4	5596.5	5457.6	5450.7	5555.5	5771.9	5822.0	5398.3
20°	5714.9	5762.8	5997.4	5986.0	5576.0	5295.8	5218.4	5298.1	5801.5	6086.2	6008.8
22.5°	6512.2	6578.2	6742.2	6427.9	5669.4	5186.5	5161.4	5316.3	5997.4	6676.2	6701.2
25°	7436.9	7548.5	7628.3	7225.1	6001.9	5375.6	5257.1	5523.6	6261.6	7316.2	7582.7
27.5°	8049.7	8165.8	8147.6	7571.3	6225.2	5425.7	5325.4	5573.7	6491.7	7468.8	8042.8
30°	8528.0	8598.6	8726.2	7758.1	6448.4	5566.9	5396.1	5785.5	6566.8	7733.0	8598.6
32.5°	9086.0	9133.9	9143.0	8088.4	6792.3	5744.5	5614.7	6049.8	6899.4	7985.9	9090.6
35°	9648.7	9719.3	9571.2	8496.1	7004.2	6074.8	5979.2	6507.6	7165.9	8247.8	9632.7
37.5°	10259.1	10295.5	9953.9	8664.7	7307.1	6612.4	6560.0	7001.9	7628.3	8721.6	10234.0
40°	10771.6	10805.8	10361.6	8871.9	7626.0	7364.0	7498.4	7944.9	8256.9	9029.1	10534.7
42.5°	11056.3	11136.0	10498.3	8758.0	8266.0	8215.9	8812.7	8969.9	8985.8	9115.7	10803.5
45°	11133.8	11097.3	10272.8	8851.4	8826.4	9616.8	10158.9	10366.2	9710.2	9275.1	10871.8
47.5°	10776.2	10824.0	9940.2	8769.4	9562.1	10678.2	11379.8	11764.7	10250.0	9136.2	10703.3
50°	10486.9	10425.4	9833.2	8710.2	9760.3	11179.3	12261.3	12347.8	10746.5	9307.0	10518.8
52.5°	10543.8	10582.5	10004.0	8867.4	9764.8	11208.9	12397.9	12338.7	10762.5	9268.3	10452.7
55°	10664.5	10493.7	9931.1	8521.2	9111.1	10382.1	11003.9	10912.8	9933.4	8856.0	10291.0
57.5°	9202.2	9466.4	9131.6	7607.8	7477.9	7821.9	7810.5	8090.7	7409.6	7621.4	9368.5
60°	7468.8	7514.4	7639.7	6507.6	5175.1	5056.7	4892.7	4715.0	4986.1	6516.7	8521.2
62.5°	6569.1	6514.4	6960.9	5919.9	3653.6	3059.1	3031.7	3141.1	3847.2	6216.0	7992.7
65°	4774.2	4842.6	5166.0	4594.3	2742.4	2334.7	2293.7	2617.2	3113.7	4981.5	6099.9
67.5°	2915.6	3047.7	3077.3	2833.6	1860.9	1478.3	1419.1	1712.9	2248.2	3223.1	3576.1
70°	1346.2	1505.6	1655.9	1546.6	1077.4	608.2	574.0	719.8	1134.3	1854.1	1897.4
72.5°	407.7	410.0	574.0	599.1	348.5	136.7	120.7	159.4	384.9	612.7	644.6
75°	29.6	31.9	77.4	88.8	66.1	34.2	36.4	43.3	82.0	136.7	102.5
77.5°	2.3	2.3	2.3	11.4	20.5	22.8	29.6	34.2	43.3	50.1	45.6
80°	2.3	0.0	2.3	9.1	15.9	22.8	27.3	31.9	34.2	38.7	34.2
82.5°	0.0	0.0	0.0	6.8	15.9	22.8	25.1	34.2	38.7	45.6	38.7
85°	0.0	0.0	0.0	6.8	15.9	25.1	22.8	11.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1
2.5°	6209.2	6120.4	5917.7	5815.2	5573.7	5539.6	5302.7	5263.9	5184.2	5140.9	5036.2
5°	5680.8	5573.7	5243.4	4965.6	4642.1	4416.6	4243.5	4086.3	3995.2	3910.9	3949.7
7.5°	5250.3	4938.2	4571.5	4106.8	3733.3	3491.8	3227.6	3011.2	2883.7	2797.1	2817.6
10°	4799.3	4596.6	4086.3	3564.7	3113.7	2942.9	2735.6	2569.3	2389.4	2234.5	2161.6
12.5°	4658.1	4357.4	3717.3	3186.6	2844.9	2678.7	2441.8	2250.4	2020.4	1831.3	1765.3
15°	4683.1	4393.8	3617.1	3049.9	2646.8	2359.8	2077.3	1840.4	1587.6	1455.5	1387.2
17.5°	5090.8	4589.7	3683.2	2906.4	2371.2	1972.6	1624.1	1323.4	1134.3	997.7	968.1
20°	5591.9	5013.4	3824.4	2801.7	2145.7	1569.4	1186.7	927.1	769.9	747.1	740.3
22.5°	6325.4	5705.8	4127.3	2731.1	1870.1	1223.2	813.2	674.2	630.9	626.4	628.7
25°	7350.4	6573.7	4457.6	2671.8	1662.8	943.0	665.1	571.7	558.1	551.2	562.6
27.5°	7794.5	7097.5	4633.0	2544.3	1473.7	849.6	656.0	567.2	528.4	517.1	523.9
30°	8343.5	7446.0	4908.6	2325.6	1195.8	699.3	612.7	617.3	599.1	542.1	523.9
32.5°	9072.4	7881.1	5047.6	2170.7	1068.3	578.6	448.7	412.3	460.1	469.2	485.2
35°	9539.3	8323.0	5118.2	2079.6	1002.2	494.3	380.4	346.2	334.8	337.1	346.2
37.5°	10407.2	8919.8	5207.0	1983.9	952.1	430.5	343.9	312.1	296.1	296.1	305.2
40°	10926.5	9393.5	5327.7	1931.6	902.0	391.8	312.1	284.7	271.1	271.1	275.6
42.5°	11056.3	9628.2	5286.7	1913.3	845.1	382.7	284.7	264.2	248.3	246.0	243.7
45°	11288.7	9985.8	5293.6	1892.8	785.8	348.5	268.8	246.0	223.2	220.9	218.7
47.5°	11543.8	10243.2	5307.2	1813.1	728.9	291.6	280.2	227.8	200.4	195.9	195.9
50°	11325.1	10448.2	5425.7	1733.4	656.0	236.9	275.6	214.1	177.7	170.8	173.1
52.5°	11352.4	10689.6	5676.2	1621.8	564.9	189.1	223.2	202.7	161.7	150.3	152.6
55°	10915.1	10434.5	5710.4	1503.3	441.9	145.8	170.8	177.7	136.7	132.1	132.1
57.5°	9395.8	8835.5	5038.4	1218.6	291.6	120.7	123.0	154.9	118.4	113.9	116.2
60°	8040.5	7093.0	4054.4	804.1	182.2	95.7	88.8	157.2	104.8	102.5	109.3
62.5°	7329.9	5828.8	3075.0	498.8	125.3	72.9	61.5	127.6	91.1	91.1	100.2
65°	5295.8	3915.5	1788.1	261.9	88.8	56.9	45.6	72.9	75.2	77.4	82.0
67.5°	3280.0	1977.1	753.9	127.6	59.2	38.7	29.6	45.6	50.1	50.1	54.7
70°	1619.5	788.1	250.6	72.9	45.6	31.9	20.5	25.1	25.1	22.8	25.1
72.5°	501.1	236.9	63.8	45.6	31.9	20.5	11.4	9.1	4.6	0.0	2.3
75°	56.9	45.6	41.0	31.9	20.5	9.1	2.3	0.0	0.0	0.0	0.0
77.5°	34.2	38.7	38.7	31.9	20.5	6.8	0.0	0.0	0.0	0.0	0.0
80°	27.3	29.6	31.9	29.6	18.2	9.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.2	38.7	43.3	38.7	25.1	11.4	4.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.8	2.3	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1
2.5°	4992.9	4942.8	5013.4	4908.6	4906.3	4908.6	4879.0	4851.7	4894.9	5011.1	5022.5
5°	3810.7	3917.8	3951.9	4063.6	4002.1	3910.9	3929.2	3867.7	4018.0	4084.1	4031.7
7.5°	2774.3	2767.5	2997.6	3011.2	3040.8	3043.1	3038.6	2917.8	2794.8	2822.2	2904.2
10°	2152.5	2036.3	2147.9	2136.6	2209.4	2188.9	2218.6	2088.7	2132.0	2132.0	2184.4
12.5°	1753.9	1630.9	1610.4	1580.8	1610.4	1621.8	1633.2	1608.1	1681.0	1715.2	1751.6
15°	1339.3	1271.0	1252.8	1195.8	1204.9	1236.8	1264.2	1275.6	1252.8	1305.2	1309.7
17.5°	972.6	970.3	981.7	979.4	970.3	963.5	961.2	931.6	922.5	927.1	945.3
20°	738.0	756.2	794.9	833.7	854.2	829.1	794.9	744.8	724.3	728.9	731.2
22.5°	630.9	658.3	710.7	753.9	774.4	728.9	667.4	624.1	615.0	612.7	610.4
25°	571.7	603.6	642.3	656.0	653.7	626.4	580.8	562.6	558.1	553.5	533.0
27.5°	539.8	551.2	558.1	574.0	580.8	562.6	551.2	523.9	519.3	519.3	505.7
30°	521.6	514.8	523.9	512.5	521.6	507.9	510.2	510.2	498.8	503.4	503.4
32.5°	485.2	487.4	487.4	464.7	471.5	455.6	471.5	485.2	487.4	489.7	507.9
35°	355.3	396.3	416.8	416.8	423.7	412.3	410.0	394.1	373.6	353.1	343.9
37.5°	312.1	328.0	355.3	371.3	382.7	373.6	353.1	328.0	316.6	307.5	298.4
40°	277.9	291.6	309.8	328.0	350.8	339.4	307.5	296.1	282.4	282.4	273.3
42.5°	250.6	257.4	268.8	296.1	321.2	298.4	275.6	266.5	259.7	257.4	255.1
45°	225.5	227.8	239.2	261.9	291.6	268.8	246.0	234.6	236.9	239.2	236.9
47.5°	202.7	207.3	214.1	241.4	259.7	248.3	223.2	216.4	216.4	216.4	218.7
50°	175.4	186.8	200.4	223.2	236.9	230.1	209.6	200.4	195.9	195.9	198.2
52.5°	157.2	166.3	184.5	211.8	230.1	218.7	198.2	184.5	175.4	173.1	177.7
55°	136.7	152.6	182.2	202.7	227.8	216.4	193.6	177.7	161.7	159.4	159.4
57.5°	123.0	148.1	175.4	200.4	220.9	211.8	193.6	173.1	152.6	150.3	150.3
60°	116.2	143.5	170.8	193.6	220.9	207.3	191.3	168.6	145.8	145.8	143.5
62.5°	109.3	134.4	161.7	184.5	211.8	200.4	184.5	161.7	138.9	138.9	134.4
65°	91.1	116.2	134.4	154.9	184.5	173.1	157.2	141.2	123.0	118.4	120.7
67.5°	63.8	79.7	97.9	118.4	136.7	132.1	125.3	113.9	97.9	95.7	93.4
70°	31.9	43.3	59.2	79.7	95.7	91.1	86.6	77.4	68.3	66.1	66.1
72.5°	4.6	13.7	25.1	36.4	50.1	52.4	50.1	47.8	45.6	43.3	45.6
75°	0.0	0.0	0.0	9.1	20.5	25.1	29.6	34.2	34.2	29.6	36.4
77.5°	0.0	0.0	0.0	0.0	2.3	11.4	22.8	29.6	36.4	31.9	43.3
80°	0.0	0.0	0.0	0.0	2.3	13.7	22.8	31.9	36.4	31.9	45.6
82.5°	0.0	0.0	0.0	0.0	2.3	15.9	22.8	29.6	34.2	31.9	41.0
85°	0.0	0.0	0.0	0.0	6.8	13.7	9.1	4.6	2.3	2.3	6.8
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1	5872.1
2.5°	5086.3	5248.0	5421.1	5487.2	5692.2	5847.0	5951.8	6177.3	6211.5	6213.8
5°	4086.3	4168.3	4464.4	4603.4	4908.6	5145.5	5398.3	5762.8	6006.5	6024.7
7.5°	2904.2	3131.9	3257.2	3619.4	3995.2	4366.5	4742.3	5166.0	5448.4	5455.3
10°	2337.0	2485.1	2708.3	2979.3	3295.9	3674.1	4175.2	4667.2	4954.2	5024.8
12.5°	1881.4	2141.1	2396.2	2676.4	2917.8	3202.6	3742.4	4398.4	4635.3	4776.5
15°	1448.7	1685.6	1986.2	2314.2	2587.6	2967.9	3582.9	4332.3	4730.9	4778.8
17.5°	1068.3	1280.1	1558.0	1867.8	2277.8	2817.6	3610.3	4667.2	5043.0	5122.7
20°	767.6	890.6	1109.3	1469.2	1990.8	2642.2	3637.6	5006.6	5578.3	5714.9
22.5°	608.2	658.3	801.8	1120.7	1669.6	2457.7	3831.2	5655.7	6314.0	6512.2
25°	528.4	555.8	624.1	883.8	1466.9	2439.5	4141.0	6434.7	7293.4	7436.9
27.5°	510.2	514.8	574.0	810.9	1357.6	2318.8	4259.4	6988.2	7903.9	8049.7
30°	537.6	610.4	615.0	685.6	1154.8	2079.6	4320.9	7523.5	8420.9	8528.0
32.5°	464.7	441.9	457.8	530.7	1015.9	1940.7	4437.1	7990.4	9010.9	9086.0
35°	323.4	339.4	375.8	460.1	888.3	1794.9	4466.7	8505.2	9571.2	9648.7
37.5°	298.4	307.5	337.1	391.8	781.3	1712.9	4425.7	8881.0	10152.0	10259.1
40°	277.9	289.3	305.2	355.3	701.6	1621.8	4368.8	9220.4	10507.4	10771.6
42.5°	261.9	271.1	284.7	339.4	633.2	1530.7	4289.1	9698.8	10826.3	11056.3
45°	243.7	257.4	273.3	330.3	594.5	1469.2	4229.8	9669.2	11010.8	11133.8
47.5°	225.5	248.3	266.5	307.5	583.1	1439.6	4254.9	9557.5	10860.4	10776.2
50°	207.3	236.9	268.8	255.1	555.8	1380.3	4284.5	9710.2	10502.8	10486.9
52.5°	191.3	225.5	250.6	209.6	494.3	1323.4	4571.5	9910.6	10755.7	10543.8
55°	168.6	202.7	200.4	168.6	400.9	1280.1	4797.0	9915.2	10584.8	10664.5
57.5°	152.6	179.9	157.2	141.2	296.1	1070.6	4430.3	8313.9	9061.0	9202.2
60°	141.2	175.4	118.4	111.6	193.6	772.2	3867.7	6439.3	7202.3	7468.8
62.5°	129.8	166.3	93.4	91.1	134.4	548.9	3179.8	5389.2	6206.9	6569.1
65°	113.9	118.4	75.2	70.6	95.7	296.1	1936.1	3710.5	4639.8	4774.2
67.5°	93.4	91.1	61.5	56.9	63.8	143.5	854.2	1858.7	2690.1	2915.6
70°	75.2	75.2	52.4	45.6	45.6	66.1	223.2	740.3	1216.3	1346.2
72.5°	54.7	56.9	41.0	36.4	34.2	31.9	36.4	148.1	318.9	407.7
75°	47.8	50.1	41.0	31.9	25.1	20.5	15.9	13.7	18.2	29.6
77.5°	52.4	52.4	43.3	29.6	22.8	15.9	9.1	4.6	4.6	2.3
80°	66.1	68.3	56.9	38.7	27.3	18.2	11.4	4.6	2.3	2.3
82.5°	70.6	77.4	63.8	47.8	34.2	20.5	11.4	2.3	0.0	0.0
85°	18.2	29.6	50.1	43.3	34.2	20.5	11.4	2.3	0.0	0.0
87.5°	0.0	2.3	6.8	6.8	9.1	9.1	6.8	2.3	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

(END OF REPORT)