

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: P528443

Luminaire Tested: **GALN-SA3C-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528443
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-SA3C-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 10808 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

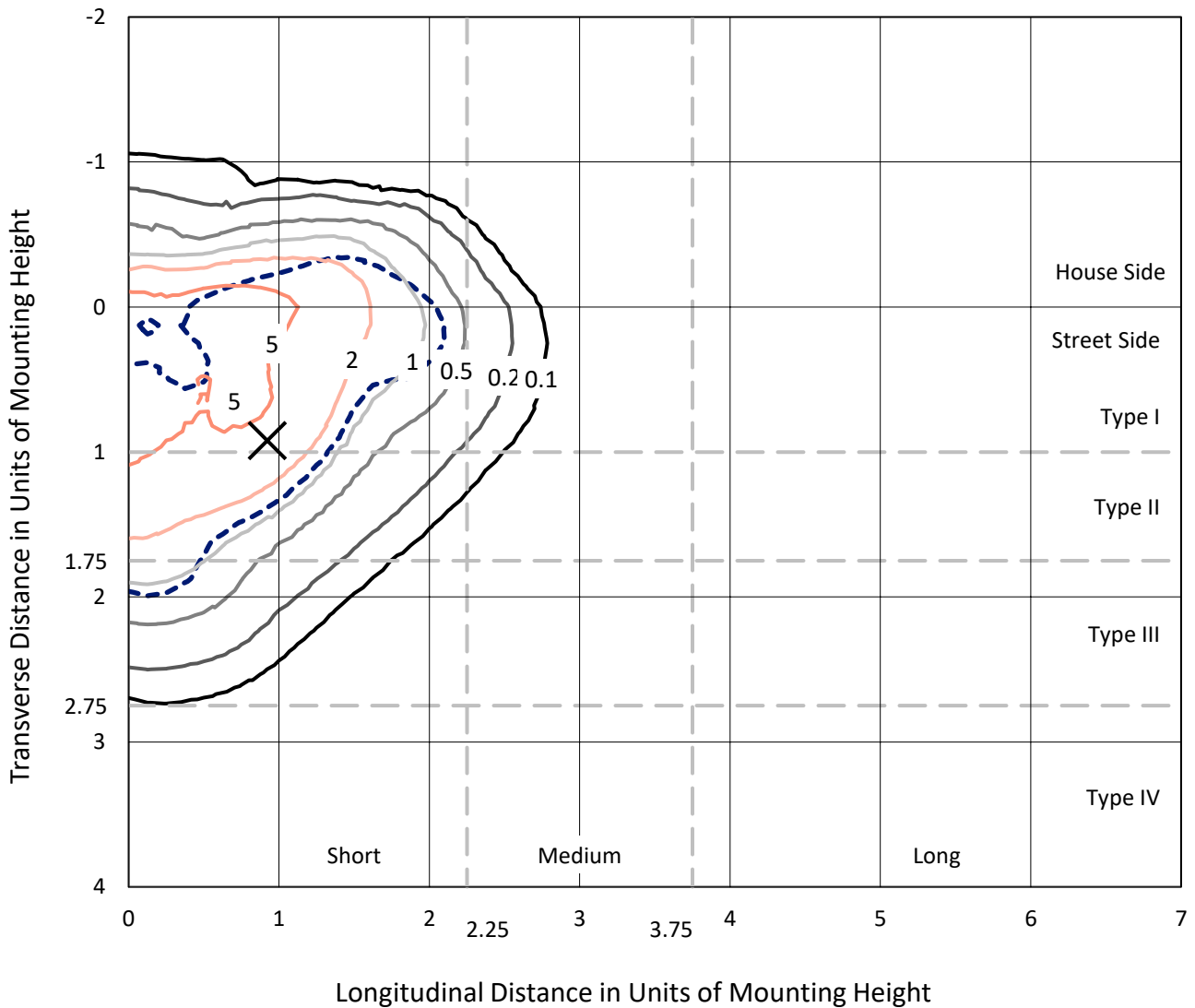
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

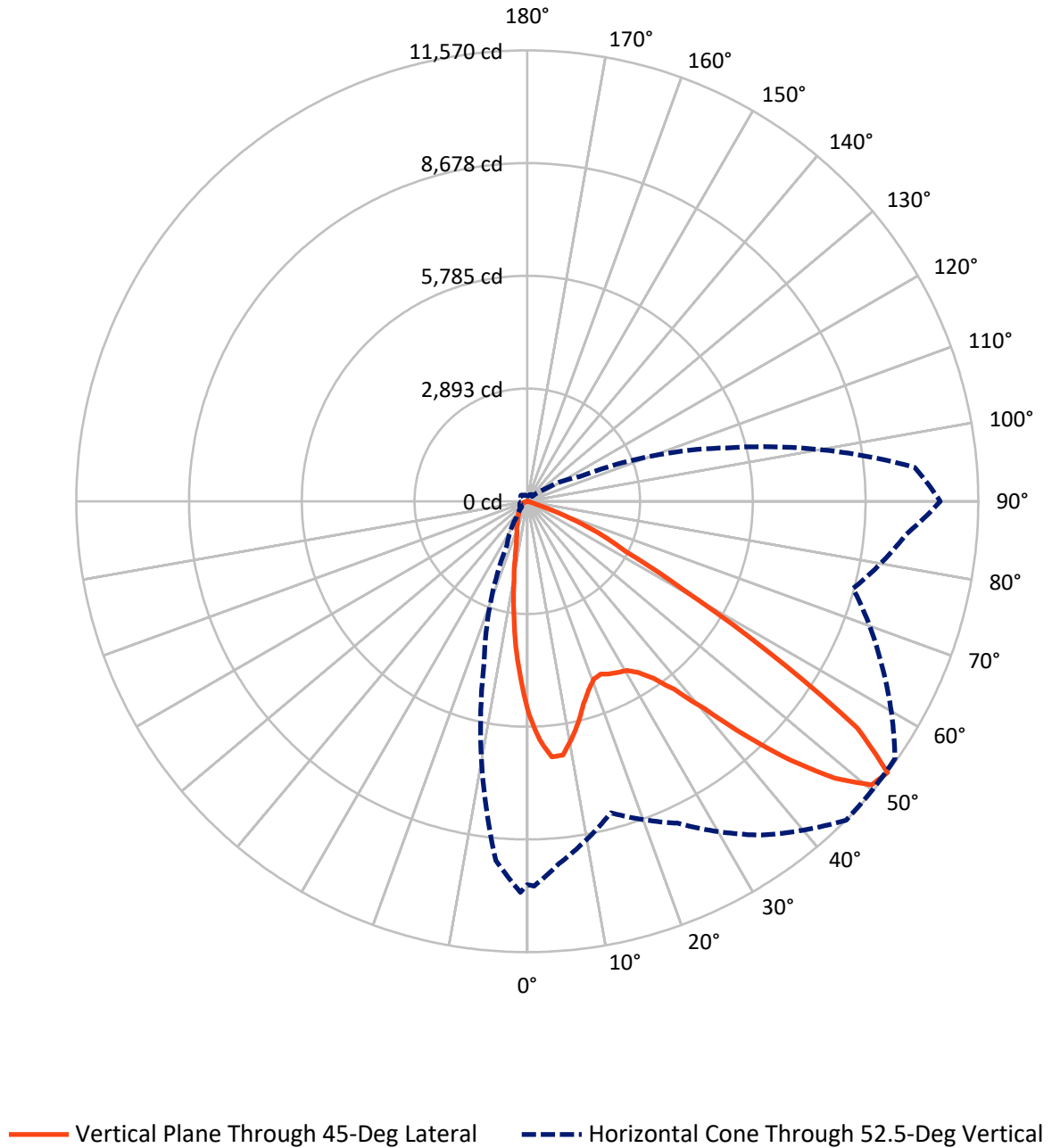
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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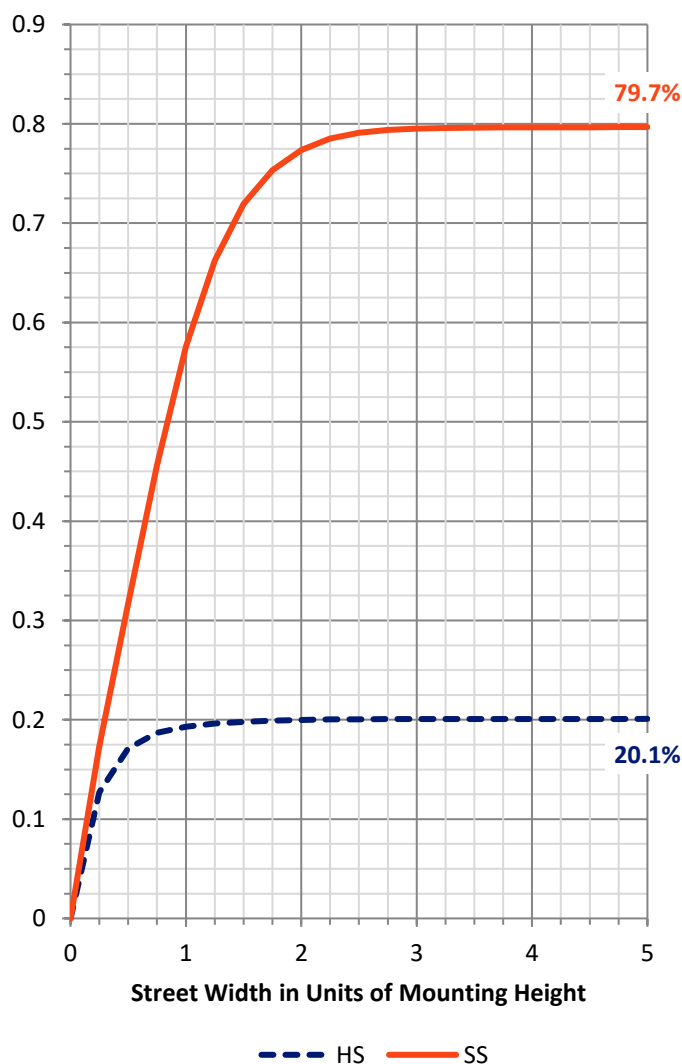
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2193.5	0.0	2193.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8614.5	0.0	8614.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	10808.0	0.0	10808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	3.7
10°-20°	788.5	7.3
20°-30°	1200.0	11.1
30°-40°	1793.5	16.6
40°-50°	2554.1	23.6
50°-60°	2745.6	25.4
60°-70°	1216.6	11.3
70°-80°	98.4	0.9
80°-90°	11.5	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°	10808.0	100.0
0°-180°	10808.0	100.0

Coefficient of Utilization



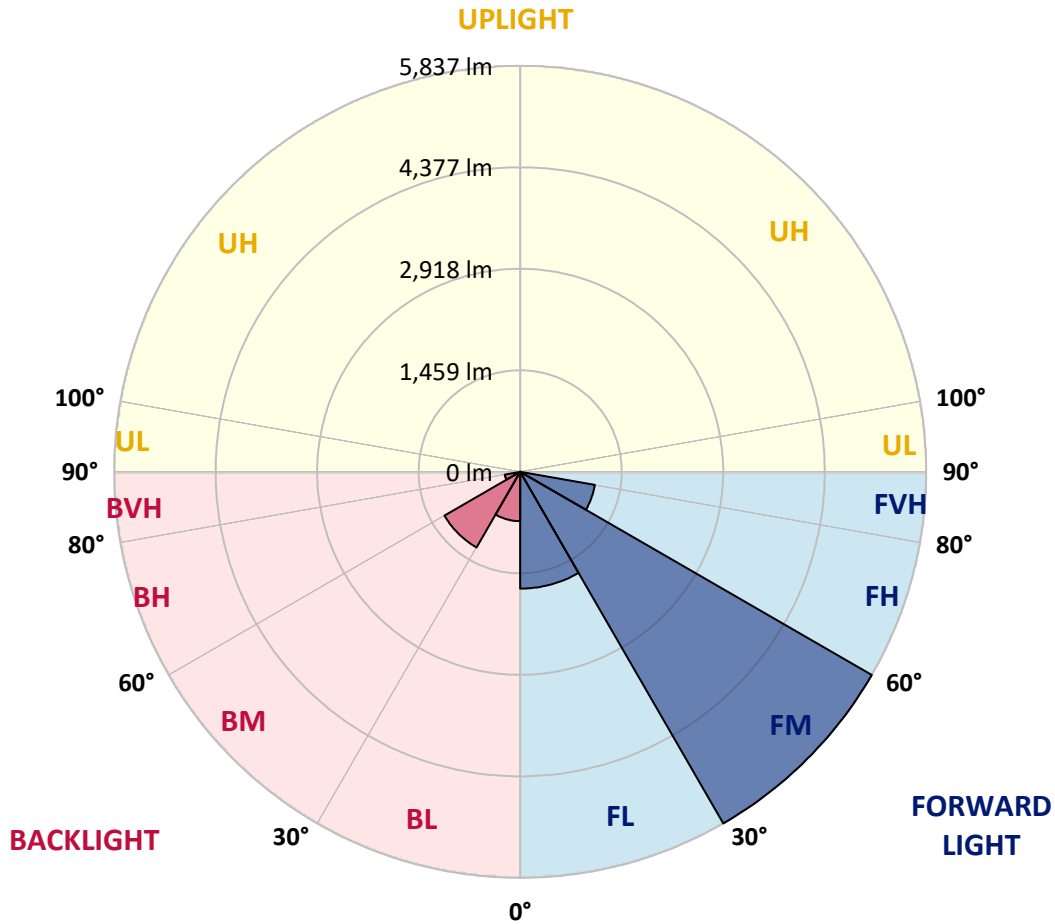
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.7	15.5			
FM (30°-60°)	5836.7	54.0			
FH (60°-80°)	1090.7	10.1			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	709.5	6.6	B2/1000		
BM (30°-60°)	1256.6	11.6	B2/2500		
BH (60°-80°)	224.4	2.1	B1/500		G1/500
BVH (80°-90°)	3.0	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°	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2
2.5°	5799.0	5816.0	5909.6	6026.5	6088.1	6228.4	6130.6	6156.1	6103.0	5915.9	5769.3
5°	5622.6	5620.5	5739.5	6028.6	6302.8	6581.3	6589.8	6441.0	6179.5	5892.6	5482.3
7.5°	5091.1	5174.1	5297.3	5758.6	6266.7	6475.0	6574.9	6400.6	5998.8	5588.6	5144.3
10°	4689.4	4731.9	4940.2	5497.2	5869.2	6147.6	6209.3	6109.4	5801.1	5288.8	4791.4
12.5°	4457.7	4478.9	4723.4	5191.1	5584.3	5790.5	5820.3	5867.0	5646.0	5165.5	4568.2
15°	4459.8	4476.8	4806.3	5197.4	5352.6	5297.3	5395.1	5393.0	5488.7	5142.2	4755.3
17.5°	4780.8	4799.9	5097.5	5291.0	5222.9	5093.3	5086.9	5184.7	5386.6	5433.4	5038.0
20°	5333.5	5378.1	5597.1	5586.4	5203.8	4942.3	4870.1	4944.5	5414.3	5680.0	5607.7
22.5°	6077.5	6139.1	6292.2	5998.8	5291.0	4840.3	4816.9	4961.5	5597.1	6230.5	6253.9
25°	6940.5	7044.7	7119.1	6742.8	5601.3	5016.7	4906.2	5154.9	5843.7	6827.9	7076.6
27.5°	7512.4	7620.8	7603.8	7066.0	5809.6	5063.5	4970.0	5201.7	6058.4	6970.3	7506.0
30°	7958.8	8024.7	8143.7	7240.3	6018.0	5195.3	5035.9	5399.4	6128.5	7216.9	8024.7
32.5°	8479.6	8524.2	8532.7	7548.5	6339.0	5361.1	5239.9	5646.0	6438.9	7452.8	8483.8
35°	9004.6	9070.5	8932.4	7929.0	6536.7	5669.3	5580.1	6073.2	6687.6	7697.3	8989.8
37.5°	9574.3	9608.3	9289.5	8086.3	6819.4	6171.0	6122.1	6534.5	7119.1	8139.5	9551.0
40°	10052.6	10084.5	9670.0	8279.8	7117.0	6872.5	6997.9	7414.6	7705.8	8426.4	9831.5
42.5°	10318.3	10392.7	9797.5	8173.5	7714.3	7667.5	8224.5	8371.2	8386.0	8507.2	10082.4
45°	10390.6	10356.6	9587.1	8260.6	8237.2	8974.9	9480.8	9674.2	9062.0	8656.0	10146.2
47.5°	10056.9	10101.5	9276.7	8184.1	8923.9	9965.5	10620.2	10979.4	9565.8	8526.3	9988.9
50°	9786.9	9729.5	9176.8	8128.8	9108.8	10433.1	11442.9	11523.6	10029.2	8685.8	9816.7
52.5°	9840.1	9876.2	9336.3	8275.5	9113.0	10460.8	11570.4	11515.1	10044.1	8649.6	9755.0
55°	9952.7	9793.3	9268.2	7952.4	8503.0	9689.1	10269.5	10184.4	9270.4	8264.9	9604.1
57.5°	8588.0	8834.6	8522.1	7100.0	6978.8	7299.8	7289.2	7550.6	6915.0	7112.7	8743.2
60°	6970.3	7012.8	7129.7	6073.2	4829.7	4719.1	4566.1	4400.3	4653.2	6081.7	7952.4
62.5°	6130.6	6079.6	6496.3	5524.8	3409.7	2854.9	2829.4	2931.4	3590.4	5801.1	7459.2
65°	4455.6	4519.3	4821.2	4287.6	2559.4	2178.9	2140.6	2442.5	2905.9	4649.0	5692.7
67.5°	2720.9	2844.2	2871.9	2644.4	1736.7	1379.6	1324.3	1598.6	2098.1	3007.9	3337.4
70°	1256.3	1405.1	1545.4	1443.4	1005.5	567.6	535.7	671.7	1058.6	1730.4	1770.7
72.5°	380.5	382.6	535.7	559.1	325.2	127.5	112.7	148.8	359.3	571.8	601.6
75°	27.6	29.8	72.3	82.9	61.6	31.9	34.0	40.4	76.5	127.5	95.7
77.5°	2.1	2.1	2.1	10.6	19.1	21.3	27.6	31.9	40.4	46.8	42.5
80°	2.1	0.0	2.1	8.5	14.9	21.3	25.5	29.8	31.9	36.1	31.9
82.5°	0.0	0.0	0.0	6.4	14.9	21.3	23.4	31.9	36.1	42.5	36.1
85°	0.0	0.0	0.0	6.4	14.9	23.4	21.3	10.6	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°	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2
2.5°	5794.8	5711.9	5522.7	5427.0	5201.7	5169.8	4948.7	4912.6	4838.2	4797.8	4700.0
5°	5301.6	5201.7	4893.5	4634.1	4332.3	4121.8	3960.3	3813.6	3728.5	3649.9	3686.0
7.5°	4899.8	4608.6	4266.4	3832.7	3484.1	3258.8	3012.2	2810.2	2691.2	2610.4	2629.5
10°	4478.9	4289.7	3813.6	3326.8	2905.9	2746.5	2553.0	2397.8	2229.9	2085.4	2017.3
12.5°	4347.1	4066.5	3469.2	2973.9	2655.0	2499.9	2278.8	2100.2	1885.5	1709.1	1647.4
15°	4370.5	4100.6	3375.7	2846.4	2470.1	2202.3	1938.7	1717.6	1481.6	1358.3	1294.6
17.5°	4751.0	4283.4	3437.3	2712.4	2212.9	1840.9	1515.7	1235.1	1058.6	931.1	903.4
20°	5218.7	4678.8	3569.1	2614.7	2002.4	1464.6	1107.5	865.2	718.5	697.2	690.9
22.5°	5903.2	5325.0	3851.8	2548.8	1745.2	1141.5	758.9	629.2	588.8	584.6	586.7
25°	6859.8	6134.9	4160.1	2493.5	1551.8	880.1	620.7	533.6	520.8	514.4	525.1
27.5°	7274.3	6623.8	4323.8	2374.5	1375.4	792.9	612.2	529.3	493.2	482.5	488.9
30°	7786.6	6949.0	4581.0	2170.4	1116.0	652.6	571.8	576.1	559.1	505.9	488.9
32.5°	8466.8	7355.1	4710.6	2025.8	997.0	539.9	418.8	384.8	429.4	437.9	452.8
35°	8902.6	7767.5	4776.5	1940.8	935.3	461.3	355.0	323.1	312.5	314.6	323.1
37.5°	9712.5	8324.4	4859.4	1851.5	888.6	401.8	321.0	291.2	276.3	276.3	284.8
40°	10197.2	8766.6	4972.1	1802.6	841.8	365.6	291.2	265.7	253.0	253.0	257.2
42.5°	10318.3	8985.5	4933.8	1785.6	788.6	357.1	265.7	246.6	231.7	229.6	227.5
45°	10535.2	9319.2	4940.2	1766.5	733.4	325.2	250.8	229.6	208.3	206.2	204.1
47.5°	10773.3	9559.5	4953.0	1692.1	680.2	272.1	261.5	212.6	187.1	182.8	182.8
50°	10569.2	9750.8	5063.5	1617.7	612.2	221.1	257.2	199.8	165.8	159.4	161.6
52.5°	10594.7	9976.1	5297.3	1513.5	527.2	176.4	208.3	189.2	150.9	140.3	142.4
55°	10186.5	9738.0	5329.2	1403.0	412.4	136.0	159.4	165.8	127.5	123.3	123.3
57.5°	8768.7	8245.7	4702.1	1137.3	272.1	112.7	114.8	144.6	110.5	106.3	108.4
60°	7503.9	6619.6	3783.8	750.4	170.1	89.3	82.9	146.7	97.8	95.7	102.0
62.5°	6840.6	5439.8	2869.7	465.5	116.9	68.0	57.4	119.0	85.0	85.0	93.5
65°	4942.3	3654.1	1668.7	244.5	82.9	53.1	42.5	68.0	70.1	72.3	76.5
67.5°	3061.1	1845.1	703.6	119.0	55.3	36.1	27.6	42.5	46.8	46.8	51.0
70°	1511.4	735.5	233.8	68.0	42.5	29.8	19.1	23.4	23.4	21.3	23.4
72.5°	467.7	221.1	59.5	42.5	29.8	19.1	10.6	8.5	4.3	0.0	2.1
75°	53.1	42.5	38.3	29.8	19.1	8.5	2.1	0.0	0.0	0.0	0.0
77.5°	31.9	36.1	36.1	29.8	19.1	6.4	0.0	0.0	0.0	0.0	0.0
80°	25.5	27.6	29.8	27.6	17.0	8.5	0.0	0.0	0.0	0.0	0.0
82.5°	31.9	36.1	40.4	36.1	23.4	10.6	4.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.4	2.1	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°	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2
2.5°	4659.6	4612.9	4678.8	4581.0	4578.8	4581.0	4553.3	4527.8	4568.2	4676.6	4687.3
5°	3556.4	3656.3	3688.2	3792.3	3734.9	3649.9	3666.9	3609.5	3749.8	3811.5	3762.6
7.5°	2589.2	2582.8	2797.5	2810.2	2837.9	2840.0	2835.7	2723.1	2608.3	2633.8	2710.3
10°	2008.8	1900.4	2004.6	1993.9	2062.0	2042.8	2070.5	1949.3	1989.7	1989.7	2038.6
12.5°	1636.8	1522.0	1502.9	1475.3	1502.9	1513.5	1524.2	1500.8	1568.8	1600.7	1634.7
15°	1249.9	1186.2	1169.2	1116.0	1124.5	1154.3	1179.8	1190.4	1169.2	1218.0	1222.3
17.5°	907.7	905.6	916.2	914.1	905.6	899.2	897.1	869.4	860.9	865.2	882.2
20°	688.7	705.7	741.9	778.0	797.2	773.8	741.9	695.1	676.0	680.2	682.4
22.5°	588.8	614.3	663.2	703.6	722.8	680.2	622.8	582.5	573.9	571.8	569.7
25°	533.6	563.3	599.5	612.2	610.1	584.6	542.1	525.1	520.8	516.6	497.4
27.5°	503.8	514.4	520.8	535.7	542.1	525.1	514.4	488.9	484.7	484.7	471.9
30°	486.8	480.4	488.9	478.3	486.8	474.0	476.2	476.2	465.5	469.8	469.8
32.5°	452.8	454.9	454.9	433.7	440.0	425.1	440.0	452.8	454.9	457.0	474.0
35°	331.6	369.9	389.0	389.0	395.4	384.8	382.6	367.8	348.6	329.5	321.0
37.5°	291.2	306.1	331.6	346.5	357.1	348.6	329.5	306.1	295.5	287.0	278.5
40°	259.3	272.1	289.1	306.1	327.4	316.7	287.0	276.3	263.6	263.6	255.1
42.5°	233.8	240.2	250.8	276.3	299.7	278.5	257.2	248.7	242.3	240.2	238.1
45°	210.4	212.6	223.2	244.5	272.1	250.8	229.6	219.0	221.1	223.2	221.1
47.5°	189.2	193.4	199.8	225.3	242.3	231.7	208.3	201.9	201.9	201.9	204.1
50°	163.7	174.3	187.1	208.3	221.1	214.7	195.6	187.1	182.8	182.8	184.9
52.5°	146.7	155.2	172.2	197.7	214.7	204.1	184.9	172.2	163.7	161.6	165.8
55°	127.5	142.4	170.1	189.2	212.6	201.9	180.7	165.8	150.9	148.8	148.8
57.5°	114.8	138.2	163.7	187.1	206.2	197.7	180.7	161.6	142.4	140.3	140.3
60°	108.4	133.9	159.4	180.7	206.2	193.4	178.6	157.3	136.0	136.0	133.9
62.5°	102.0	125.4	150.9	172.2	197.7	187.1	172.2	150.9	129.7	129.7	125.4
65°	85.0	108.4	125.4	144.6	172.2	161.6	146.7	131.8	114.8	110.5	112.7
67.5°	59.5	74.4	91.4	110.5	127.5	123.3	116.9	106.3	91.4	89.3	87.2
70°	29.8	40.4	55.3	74.4	89.3	85.0	80.8	72.3	63.8	61.6	61.6
72.5°	4.3	12.8	23.4	34.0	46.8	48.9	46.8	44.6	42.5	40.4	42.5
75°	0.0	0.0	0.0	8.5	19.1	23.4	27.6	31.9	31.9	27.6	34.0
77.5°	0.0	0.0	0.0	0.0	2.1	10.6	21.3	27.6	34.0	29.8	40.4
80°	0.0	0.0	0.0	0.0	2.1	12.8	21.3	29.8	34.0	29.8	42.5
82.5°	0.0	0.0	0.0	0.0	2.1	14.9	21.3	27.6	31.9	29.8	38.3
85°	0.0	0.0	0.0	0.0	6.4	12.8	8.5	4.3	2.1	2.1	6.4
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°	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2	5480.2
2.5°	4746.8	4897.7	5059.3	5120.9	5312.2	5456.8	5554.6	5765.0	5796.9	5799.0
5°	3813.6	3890.1	4166.5	4296.1	4581.0	4802.0	5038.0	5378.1	5605.6	5622.6
7.5°	2710.3	2922.9	3039.8	3377.8	3728.5	4075.0	4425.8	4821.2	5084.8	5091.1
10°	2181.0	2319.2	2527.5	2780.5	3075.9	3428.8	3896.5	4355.6	4623.5	4689.4
12.5°	1755.9	1998.2	2236.3	2497.7	2723.1	2988.8	3492.6	4104.8	4325.9	4457.7
15°	1352.0	1573.0	1853.6	2159.8	2414.8	2769.8	3343.8	4043.2	4415.2	4459.8
17.5°	997.0	1194.7	1454.0	1743.1	2125.7	2629.5	3369.3	4355.6	4706.4	4780.8
20°	716.4	831.2	1035.2	1371.1	1857.9	2465.9	3394.8	4672.4	5205.9	5333.5
22.5°	567.6	614.3	748.3	1045.9	1558.2	2293.7	3575.5	5278.2	5892.6	6077.5
25°	493.2	518.7	582.5	824.8	1369.0	2276.7	3864.6	6005.2	6806.6	6940.5
27.5°	476.2	480.4	535.7	756.8	1266.9	2164.0	3975.1	6521.8	7376.3	7512.4
30°	501.7	569.7	573.9	639.8	1077.8	1940.8	4032.5	7021.3	7858.9	7958.8
32.5°	433.7	412.4	427.3	495.3	948.1	1811.1	4140.9	7457.1	8409.4	8479.6
35°	301.9	316.7	350.7	429.4	829.0	1675.1	4168.6	7937.5	8932.4	9004.6
37.5°	278.5	287.0	314.6	365.6	729.1	1598.6	4130.3	8288.3	9474.4	9574.3
40°	259.3	270.0	284.8	331.6	654.7	1513.5	4077.2	8605.0	9806.0	10052.6
42.5°	244.5	253.0	265.7	316.7	591.0	1428.5	4002.8	9051.4	10103.6	10318.3
45°	227.5	240.2	255.1	308.2	554.8	1371.1	3947.5	9023.8	10275.8	10390.6
47.5°	210.4	231.7	248.7	287.0	544.2	1343.5	3970.9	8919.6	10135.5	10056.9
50°	193.4	221.1	250.8	238.1	518.7	1288.2	3998.5	9062.0	9801.8	9786.9
52.5°	178.6	210.4	233.8	195.6	461.3	1235.1	4266.4	9249.1	10037.7	9840.1
55°	157.3	189.2	187.1	157.3	374.1	1194.7	4476.8	9253.3	9878.3	9952.7
57.5°	142.4	167.9	146.7	131.8	276.3	999.1	4134.6	7759.0	8456.2	8588.0
60°	131.8	163.7	110.5	104.2	180.7	720.6	3609.5	6009.5	6721.6	6970.3
62.5°	121.2	155.2	87.2	85.0	125.4	512.3	2967.5	5029.5	5792.6	6130.6
65°	106.3	110.5	70.1	65.9	89.3	276.3	1806.9	3462.8	4330.1	4455.6
67.5°	87.2	85.0	57.4	53.1	59.5	133.9	797.2	1734.6	2510.5	2720.9
70°	70.1	70.1	48.9	42.5	42.5	61.6	208.3	690.9	1135.1	1256.3
72.5°	51.0	53.1	38.3	34.0	31.9	29.8	34.0	138.2	297.6	380.5
75°	44.6	46.8	38.3	29.8	23.4	19.1	14.9	12.8	17.0	27.6
77.5°	48.9	48.9	40.4	27.6	21.3	14.9	8.5	4.3	4.3	2.1
80°	61.6	63.8	53.1	36.1	25.5	17.0	10.6	4.3	2.1	2.1
82.5°	65.9	72.3	59.5	44.6	31.9	19.1	10.6	2.1	0.0	0.0
85°	17.0	27.6	46.8	40.4	31.9	19.1	10.6	2.1	0.0	0.0
87.5°	0.0	2.1	6.4	6.4	8.5	8.5	6.4	2.1	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)