

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: P648599

Luminaire Tested: **GALN-SA8B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648599
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-SA8B-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 19889.8 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

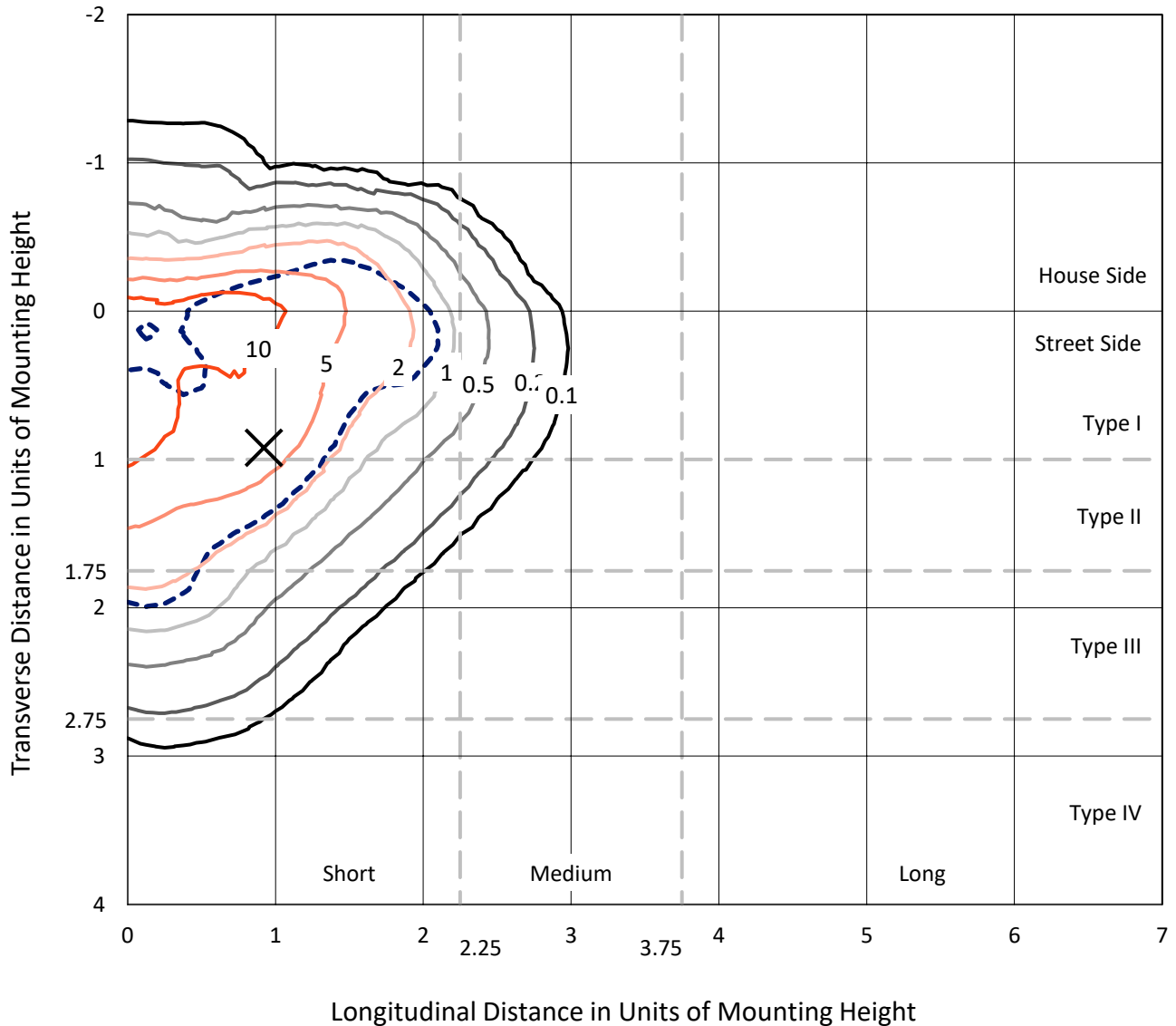
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

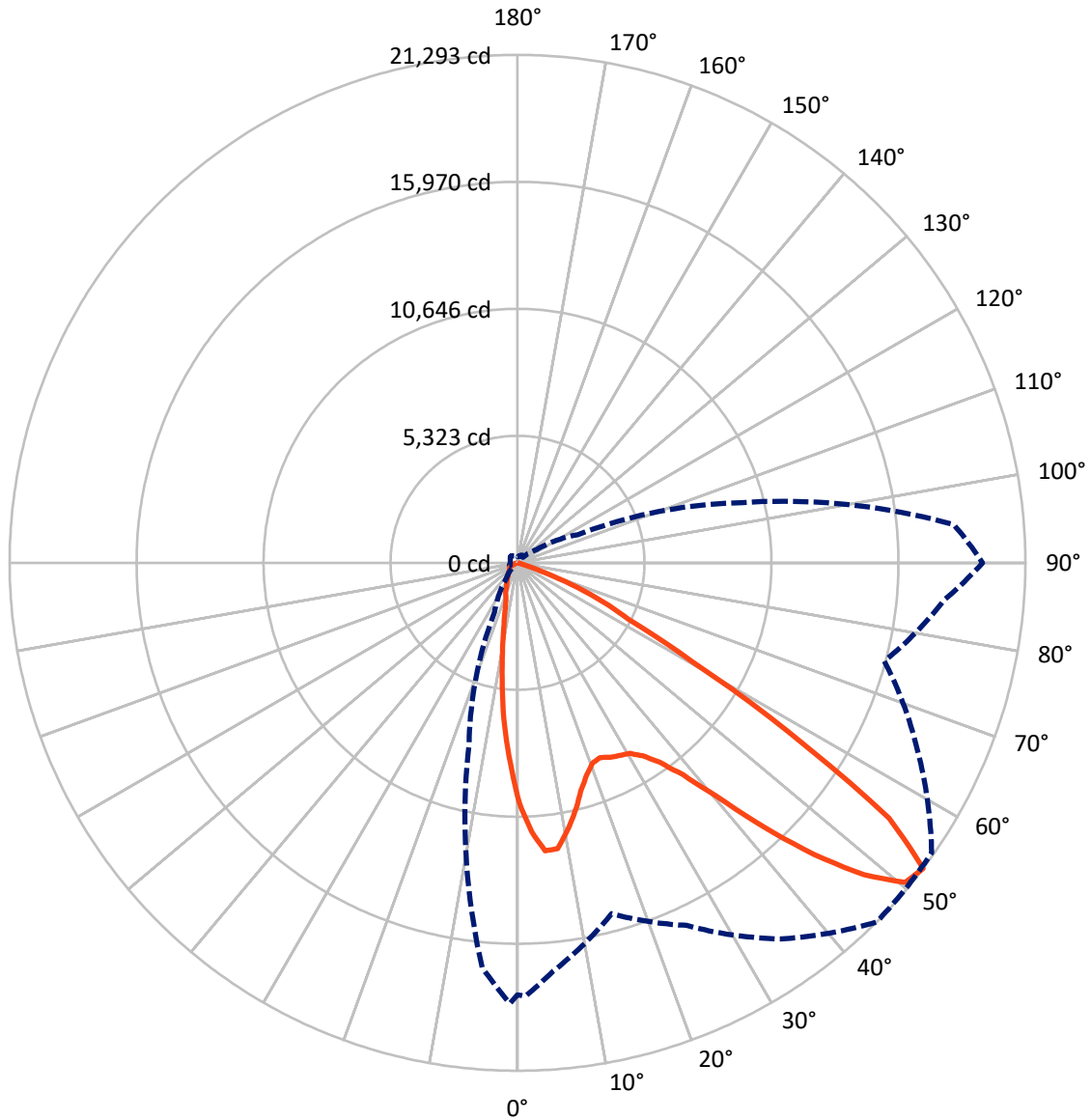
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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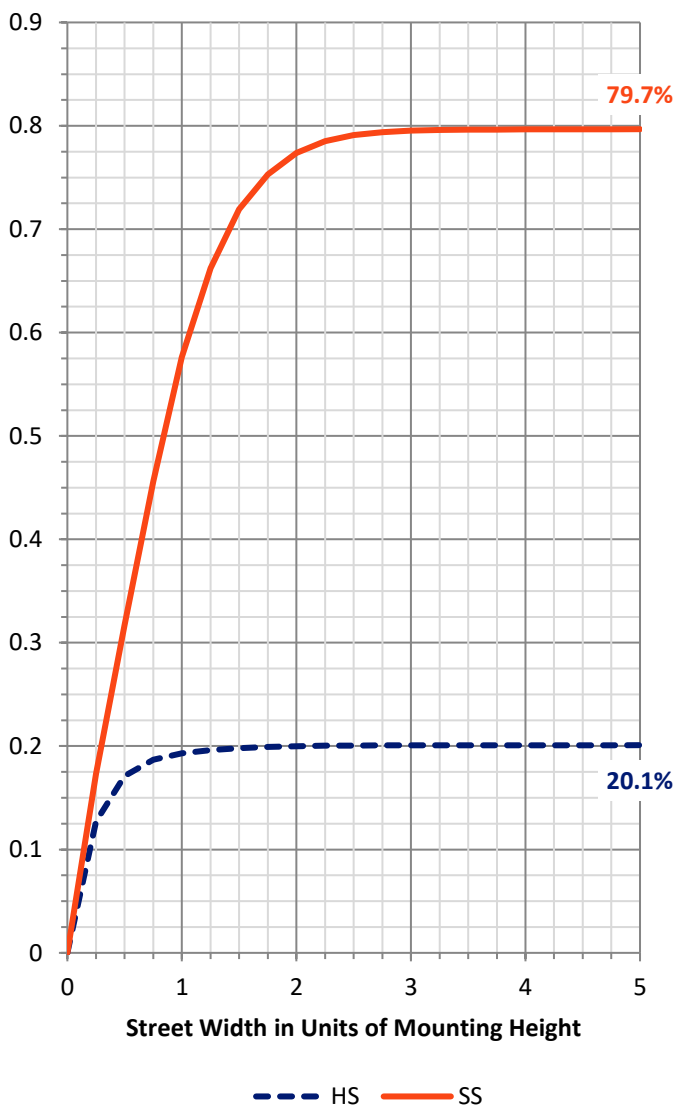
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4036.6	0.0	4036.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15853.1	0.0	15853.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	19889.8	0.0	19889.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.5	3.7
10°-20°	1451.1	7.3
20°-30°	2208.3	11.1
30°-40°	3300.6	16.6
40°-50°	4700.3	23.6
50°-60°	5052.7	25.4
60°-70°	2239.0	11.3
70°-80°	181.1	0.9
80°-90°	21.1	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°	19889.8	100.0
0°-180°	19889.8	100.0

Coefficient of Utilization



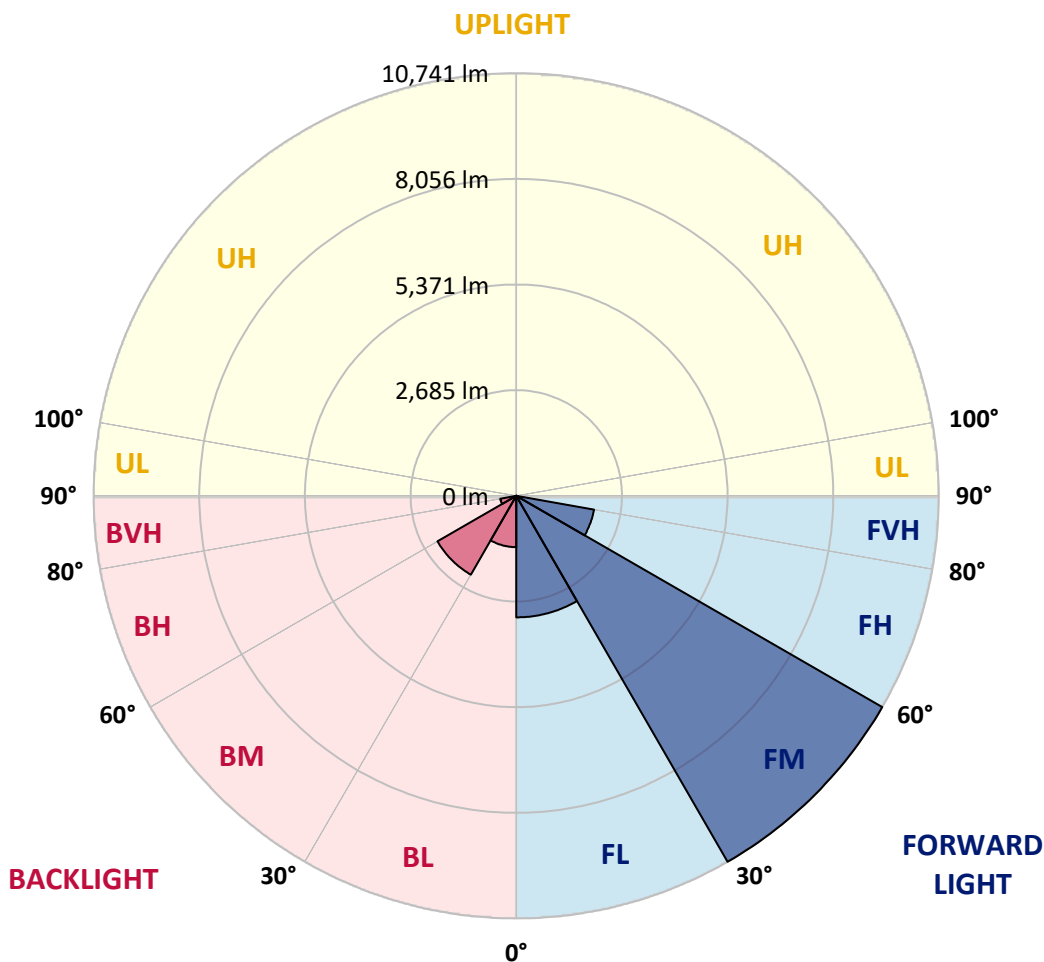
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3089.3	15.5			
FM (30°-60°)	10741.1	54.0			
FH (60°-80°)	2007.1	10.1			G2/5000
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1305.6	6.6	B3/2500		
BM (30°-60°)	2312.5	11.6	B2/2500		
BH (60°-80°)	413.0	2.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0
2.5°	10671.8	10703.1	10875.2	11090.4	11203.9	11462.0	11282.1	11329.1	11231.3	10887.0	10617.1
5°	10347.1	10343.2	10562.3	11094.3	11599.0	12111.4	12127.1	11853.2	11372.1	10843.9	10089.0
7.5°	9369.1	9521.7	9748.6	10597.5	11532.5	11915.9	12099.7	11778.9	11039.5	10284.5	9466.9
10°	8629.8	8708.1	9091.4	10116.4	10800.9	11313.4	11426.9	11242.9	10675.7	9732.9	8817.6
12.5°	8203.4	8242.5	8692.4	9553.0	10276.7	10656.2	10711.0	10797.0	10390.2	9506.1	8406.8
15°	8207.3	8238.6	8844.9	9564.7	9850.3	9748.6	9928.5	9924.7	10100.7	9463.0	8751.0
17.5°	8798.0	8833.2	9380.9	9736.8	9611.7	9373.1	9361.3	9541.2	9912.9	9999.0	9271.3
20°	9815.1	9897.3	10300.2	10280.6	9576.5	9095.3	8962.3	9099.2	9963.8	10452.7	10319.8
22.5°	11184.3	11297.8	11579.4	11039.5	9736.8	8907.6	8864.5	9130.5	10300.2	11465.9	11509.0
25°	12772.5	12964.2	13101.2	12408.7	10308.0	9232.2	9028.8	9486.5	10754.0	12565.2	13022.9
27.5°	13824.9	14024.4	13993.1	13003.4	10691.4	9318.3	9146.1	9572.6	11149.1	12827.3	13813.1
30°	14646.4	14767.6	14986.7	13324.2	11074.8	9560.8	9267.4	9936.3	11278.2	13281.1	14767.6
32.5°	15604.8	15686.9	15702.6	13891.4	11665.4	9866.0	9643.0	10390.2	11849.3	13715.3	15612.6
35°	16571.1	16692.3	16438.1	14591.6	12029.3	10433.2	10268.9	11176.5	12307.0	14165.2	16543.7
37.5°	17619.5	17682.1	17095.2	14881.1	12549.5	11356.4	11266.4	12025.4	13101.2	14978.9	17576.5
40°	18499.6	18558.4	17795.5	15237.1	13097.2	12647.4	12878.2	13644.9	14180.8	15507.0	18092.9
42.5°	18988.7	19125.6	18030.2	15041.5	14196.5	14110.4	15135.4	15405.3	15432.7	15655.7	18554.4
45°	19121.6	19059.1	17642.9	15201.9	15158.9	16516.3	17447.4	17803.3	16676.7	15929.5	18671.8
47.5°	18507.5	18589.7	17071.8	15061.1	16422.4	18339.3	19544.1	20205.3	17603.8	15690.9	18382.3
50°	18010.6	17905.0	16887.9	14959.4	16762.8	19199.9	21058.1	21206.8	18456.6	15984.2	18065.5
52.5°	18108.4	18175.0	17181.4	15229.3	16770.6	19250.8	21292.8	21191.1	18484.0	15917.8	17952.0
55°	18315.8	18022.4	17056.2	14634.7	15647.9	17830.7	18898.7	18742.2	17060.1	15209.7	17674.3
57.5°	15804.3	16258.1	15683.0	13065.9	12843.0	13433.7	13414.1	13895.3	12725.6	13089.4	16089.9
60°	12827.3	12905.6	13120.7	11176.5	8888.0	8684.6	8402.9	8097.8	8563.3	11192.1	14634.7
62.5°	11282.1	11188.2	11954.9	10167.2	6274.8	5253.8	5206.8	5394.6	6607.3	10675.7	13727.1
65°	8199.5	8316.8	8872.3	7890.4	4710.0	4009.7	3939.4	4494.8	5347.7	8555.4	10476.2
67.5°	5007.3	5234.2	5285.1	4866.5	3196.0	2538.9	2437.2	2941.8	3861.1	5535.4	6141.8
70°	2312.0	2585.8	2844.0	2656.2	1850.4	1044.5	985.8	1236.2	1948.2	3184.3	3258.7
72.5°	700.2	704.2	985.8	1028.9	598.5	234.7	207.3	273.8	661.1	1052.4	1107.1
75°	50.8	54.7	133.0	152.5	113.5	58.6	62.6	74.3	140.9	234.7	176.0
77.5°	3.9	3.9	3.9	19.6	35.2	39.2	50.8	58.6	74.3	86.1	78.2
80°	3.9	0.0	3.9	15.7	27.4	39.2	47.0	54.7	58.6	66.5	58.6
82.5°	0.0	0.0	0.0	11.7	27.4	39.2	43.1	58.6	66.5	78.2	66.5
85°	0.0	0.0	0.0	11.7	27.4	43.1	39.2	19.6	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°	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0
2.5°	10664.0	10511.5	10163.3	9987.2	9572.6	9513.9	9107.1	9040.5	8903.6	8829.3	8649.3
5°	9756.4	9572.6	9005.4	8528.0	7972.6	7585.3	7288.0	7018.0	6861.6	6716.8	6783.4
7.5°	9017.1	8481.1	7851.3	7053.3	6411.7	5997.1	5543.2	5171.6	4952.6	4803.9	4839.1
10°	8242.5	7894.4	7018.0	6122.2	5347.7	5054.3	4698.2	4412.7	4103.6	3837.6	3712.4
12.5°	8000.0	7483.6	6384.3	5472.9	4886.1	4600.4	4193.6	3865.0	3469.9	3145.2	3031.8
15°	8043.0	7546.2	6212.2	5238.1	4545.7	4052.8	3567.7	3160.9	2726.6	2499.7	2382.4
17.5°	8743.2	7882.6	6325.6	4991.6	4072.4	3387.7	2789.2	2272.8	1948.2	1713.4	1662.6
20°	9603.9	8610.3	6568.2	4811.7	3685.0	2695.3	2038.1	1592.2	1322.3	1283.1	1271.4
22.5°	10863.5	9799.5	7088.5	4690.4	3211.7	2100.7	1396.6	1158.0	1083.6	1075.8	1079.7
25°	12623.9	11289.9	7655.7	4588.7	2855.8	1619.6	1142.3	981.9	958.4	946.7	966.2
27.5°	13386.7	12189.7	7956.9	4369.7	2531.0	1459.2	1126.7	974.1	907.6	888.0	899.7
30°	14329.5	12788.2	8430.2	3994.1	2053.8	1201.0	1052.4	1060.1	1028.9	931.1	899.7
32.5°	15581.3	13535.4	8668.9	3728.1	1834.7	993.6	770.6	708.1	790.2	805.9	833.3
35°	16383.3	14294.3	8790.2	3571.7	1721.3	848.9	653.3	594.6	575.0	579.0	594.6
37.5°	17873.8	15319.2	8942.7	3407.3	1635.2	739.4	590.7	536.0	508.6	508.6	524.2
40°	18765.7	16132.9	9150.1	3317.3	1549.2	672.8	536.0	489.0	465.5	465.5	473.3
42.5°	18988.7	16535.9	9079.7	3286.0	1451.4	657.2	489.0	453.7	426.4	422.5	418.6
45°	19387.7	17150.0	9091.4	3250.9	1349.7	598.5	461.6	422.5	383.4	379.4	375.5
47.5°	19825.8	17592.1	9114.9	3113.9	1251.9	500.7	481.2	391.2	344.3	336.5	336.5
50°	19450.3	17944.2	9318.3	2977.0	1126.7	406.8	473.3	367.7	305.1	293.4	297.3
52.5°	19497.2	18358.8	9748.6	2785.3	970.1	324.7	383.4	348.2	277.7	258.2	262.1
55°	18746.1	17920.7	9807.3	2581.9	758.9	250.4	293.4	305.1	234.7	226.9	226.9
57.5°	16136.8	15174.5	8653.2	2092.9	500.7	207.3	211.3	266.0	203.4	195.6	199.5
60°	13809.2	12181.8	6963.3	1380.9	313.0	164.3	152.5	269.9	179.9	176.0	187.8
62.5°	12588.7	10010.7	5281.2	856.8	215.2	125.2	105.6	219.1	156.4	156.4	172.1
65°	9095.3	6724.6	3070.9	449.9	152.5	97.8	78.2	125.2	129.1	133.0	140.9
67.5°	5633.2	3395.6	1294.8	219.1	101.7	66.5	50.8	78.2	86.1	86.1	93.9
70°	2781.4	1353.6	430.3	125.2	78.2	54.7	35.2	43.1	43.1	39.2	43.1
72.5°	860.6	406.8	109.5	78.2	54.7	35.2	19.6	15.7	7.8	0.0	3.9
75°	97.8	78.2	70.4	54.7	35.2	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	58.6	66.5	66.5	54.7	35.2	11.7	0.0	0.0	0.0	0.0	0.0
80°	47.0	50.8	54.7	50.8	31.3	15.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.6	66.5	74.3	66.5	43.1	19.6	7.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.7	3.9	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°	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0
2.5°	8575.0	8489.0	8610.3	8430.2	8426.3	8430.2	8379.4	8332.5	8406.8	8606.3	8625.8
5°	6544.7	6728.6	6787.3	6979.0	6873.3	6716.8	6748.1	6642.5	6900.7	7014.1	6924.1
7.5°	4764.8	4753.0	5148.1	5171.6	5222.5	5226.4	5218.5	5011.2	4799.9	4846.9	4987.8
10°	3696.8	3497.3	3688.9	3669.5	3794.6	3759.4	3810.2	3587.2	3661.6	3661.6	3751.6
12.5°	3012.2	2800.9	2765.8	2714.9	2765.8	2785.3	2804.9	2761.9	2887.0	2945.7	3008.3
15°	2300.2	2182.8	2151.6	2053.8	2069.4	2124.2	2171.1	2190.7	2151.6	2241.6	2249.4
17.5°	1670.4	1666.5	1686.0	1682.1	1666.5	1654.8	1650.9	1600.0	1584.3	1592.2	1623.5
20°	1267.4	1298.8	1365.2	1431.8	1467.0	1424.0	1365.2	1279.2	1244.0	1251.9	1255.8
22.5°	1083.6	1130.6	1220.5	1294.8	1330.1	1251.9	1146.2	1071.8	1056.3	1052.4	1048.4
25°	981.9	1036.7	1103.2	1126.7	1122.7	1075.8	997.5	966.2	958.4	950.6	915.4
27.5°	927.2	946.7	958.4	985.8	997.5	966.2	946.7	899.7	891.9	891.9	868.4
30°	895.8	884.1	899.7	880.2	895.8	872.3	876.3	876.3	856.8	864.5	864.5
32.5°	833.3	837.2	837.2	798.0	809.8	782.4	809.8	833.3	837.2	841.1	872.3
35°	610.3	680.7	715.9	715.9	727.6	708.1	704.2	676.7	641.6	606.4	590.7
37.5°	536.0	563.3	610.3	637.7	657.2	641.6	606.4	563.3	543.8	528.1	512.5
40°	477.2	500.7	532.0	563.3	602.4	582.9	528.1	508.6	485.1	485.1	469.4
42.5°	430.3	442.1	461.6	508.6	551.6	512.5	473.3	457.7	446.0	442.1	438.2
45°	387.3	391.2	410.8	449.9	500.7	461.6	422.5	402.9	406.8	410.8	406.8
47.5°	348.2	356.0	367.7	414.7	446.0	426.4	383.4	371.6	371.6	371.6	375.5
50°	301.2	320.8	344.3	383.4	406.8	395.1	359.9	344.3	336.5	336.5	340.4
52.5°	269.9	285.6	316.9	363.8	395.1	375.5	340.4	316.9	301.2	297.3	305.1
55°	234.7	262.1	313.0	348.2	391.2	371.6	332.5	305.1	277.7	273.8	273.8
57.5°	211.3	254.2	301.2	344.3	379.4	363.8	332.5	297.3	262.1	258.2	258.2
60°	199.5	246.5	293.4	332.5	379.4	356.0	328.6	289.5	250.4	250.4	246.5
62.5°	187.8	230.8	277.7	316.9	363.8	344.3	316.9	277.7	238.7	238.7	230.8
65°	156.4	199.5	230.8	266.0	316.9	297.3	269.9	242.6	211.3	203.4	207.3
67.5°	109.5	136.9	168.2	203.4	234.7	226.9	215.2	195.6	168.2	164.3	160.4
70°	54.7	74.3	101.7	136.9	164.3	156.4	148.7	133.0	117.4	113.5	113.5
72.5°	7.8	23.5	43.1	62.6	86.1	90.0	86.1	82.1	78.2	74.3	78.2
75°	0.0	0.0	0.0	15.7	35.2	43.1	50.8	58.6	58.6	50.8	62.6
77.5°	0.0	0.0	0.0	0.0	3.9	19.6	39.2	50.8	62.6	54.7	74.3
80°	0.0	0.0	0.0	0.0	3.9	23.5	39.2	54.7	62.6	54.7	78.2
82.5°	0.0	0.0	0.0	0.0	3.9	27.4	39.2	50.8	58.6	54.7	70.4
85°	0.0	0.0	0.0	0.0	11.7	23.5	15.7	7.8	3.9	3.9	11.7
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°	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0	10085.0
2.5°	8735.4	9013.2	9310.5	9424.0	9776.0	10042.0	10222.0	10609.3	10667.9	10671.8
5°	7018.0	7158.9	7667.4	7906.1	8430.2	8837.1	9271.3	9897.3	10315.9	10347.1
7.5°	4987.8	5379.0	5594.1	6216.1	6861.6	7499.3	8144.7	8872.3	9357.4	9369.1
10°	4013.7	4268.0	4651.3	5116.8	5660.6	6310.0	7170.6	8015.6	8508.5	8629.8
12.5°	3231.3	3677.3	4115.4	4596.5	5011.2	5500.2	6427.3	7554.0	7960.8	8203.4
15°	2488.0	2894.8	3411.2	3974.6	4444.0	5097.3	6153.5	7440.5	8125.1	8207.3
17.5°	1834.7	2198.5	2675.7	3207.8	3911.9	4839.1	6200.4	8015.6	8661.1	8798.0
20°	1318.3	1529.6	1905.1	2523.2	3419.0	4537.9	6247.4	8598.5	9580.4	9815.1
22.5°	1044.5	1130.6	1377.0	1924.7	2867.5	4221.0	6579.9	9713.4	10843.9	11184.3
25°	907.6	954.6	1071.8	1517.8	2519.3	4189.7	7111.9	11051.3	12526.1	12772.5
27.5°	876.3	884.1	985.8	1392.6	2331.5	3982.3	7315.3	12001.9	13574.5	13824.9
30°	923.2	1048.4	1056.3	1177.5	1983.3	3571.7	7421.0	12921.2	14462.6	14646.4
32.5°	798.0	758.9	786.3	911.5	1744.8	3333.0	7620.5	13723.2	15475.7	15604.8
35°	555.5	582.9	645.5	790.2	1525.7	3082.6	7671.4	14607.3	16438.1	16571.1
37.5°	512.5	528.1	579.0	672.8	1341.8	2941.8	7601.0	15252.8	17435.6	17619.5
40°	477.2	496.8	524.2	610.3	1204.9	2785.3	7503.2	15835.6	18045.9	18499.6
42.5°	449.9	465.5	489.0	582.9	1087.5	2628.8	7366.2	16657.2	18593.6	18988.7
45°	418.6	442.1	469.4	567.2	1021.0	2523.2	7264.5	16606.3	18910.4	19121.6
47.5°	387.3	426.4	457.7	528.1	1001.5	2472.3	7307.6	16414.6	18652.2	18507.5
50°	356.0	406.8	461.6	438.2	954.6	2370.6	7358.4	16676.7	18038.0	18010.6
52.5°	328.6	387.3	430.3	359.9	848.9	2272.8	7851.3	17020.9	18472.3	18108.4
55°	289.5	348.2	344.3	289.5	688.5	2198.5	8238.6	17028.8	18178.9	18315.8
57.5°	262.1	309.1	269.9	242.6	508.6	1838.6	7608.8	14278.6	15561.8	15804.3
60°	242.6	301.2	203.4	191.7	332.5	1326.2	6642.5	11059.1	12369.6	12827.3
62.5°	223.0	285.6	160.4	156.4	230.8	942.8	5461.1	9255.7	10660.1	11282.1
65°	195.6	203.4	129.1	121.3	164.3	508.6	3325.2	6372.6	7968.7	8199.5
67.5°	160.4	156.4	105.6	97.8	109.5	246.5	1467.0	3192.1	4620.0	5007.3
70°	129.1	129.1	90.0	78.2	78.2	113.5	383.4	1271.4	2089.0	2312.0
72.5°	93.9	97.8	70.4	62.6	58.6	54.7	62.6	254.2	547.7	700.2
75°	82.1	86.1	70.4	54.7	43.1	35.2	27.4	23.5	31.3	50.8
77.5°	90.0	90.0	74.3	50.8	39.2	27.4	15.7	7.8	7.8	3.9
80°	113.5	117.4	97.8	66.5	47.0	31.3	19.6	7.8	3.9	3.9
82.5°	121.3	133.0	109.5	82.1	58.6	35.2	19.6	3.9	0.0	0.0
85°	31.3	50.8	86.1	74.3	58.6	35.2	19.6	3.9	0.0	0.0
87.5°	0.0	3.9	11.7	11.7	15.7	15.7	11.7	3.9	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)