

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: P652398

Luminaire Tested: **GALN-SA5B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13249.1 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

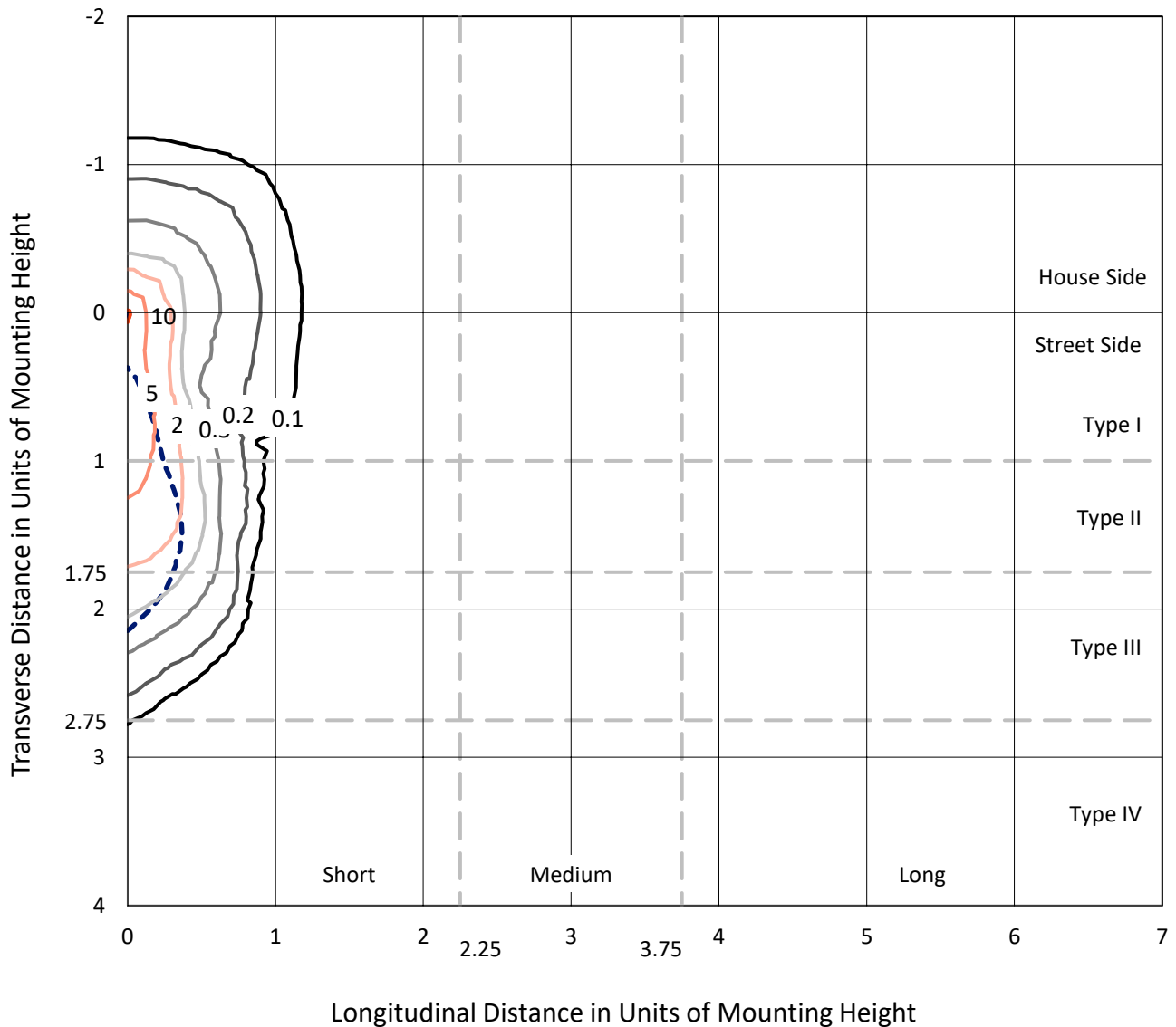
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

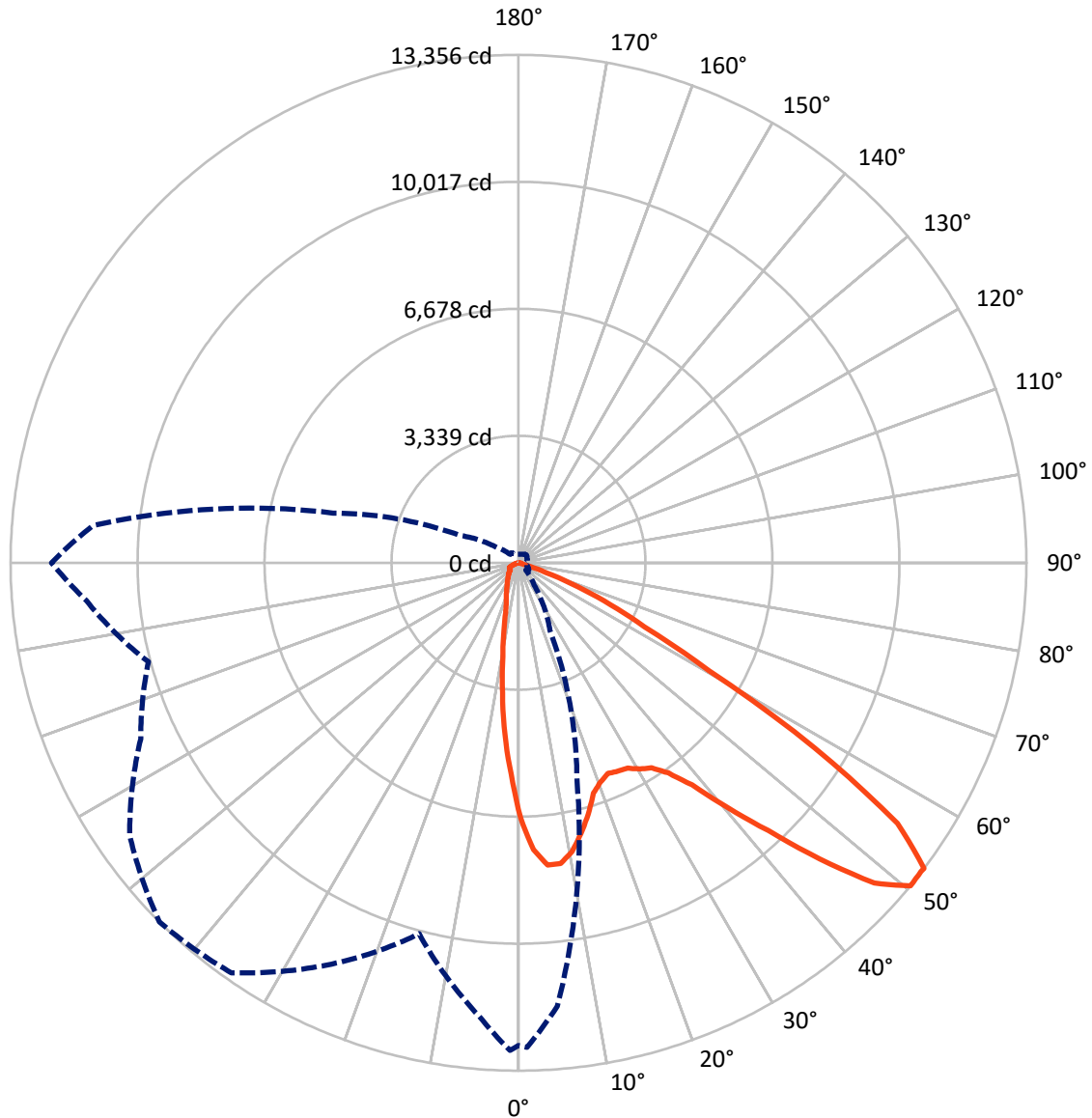
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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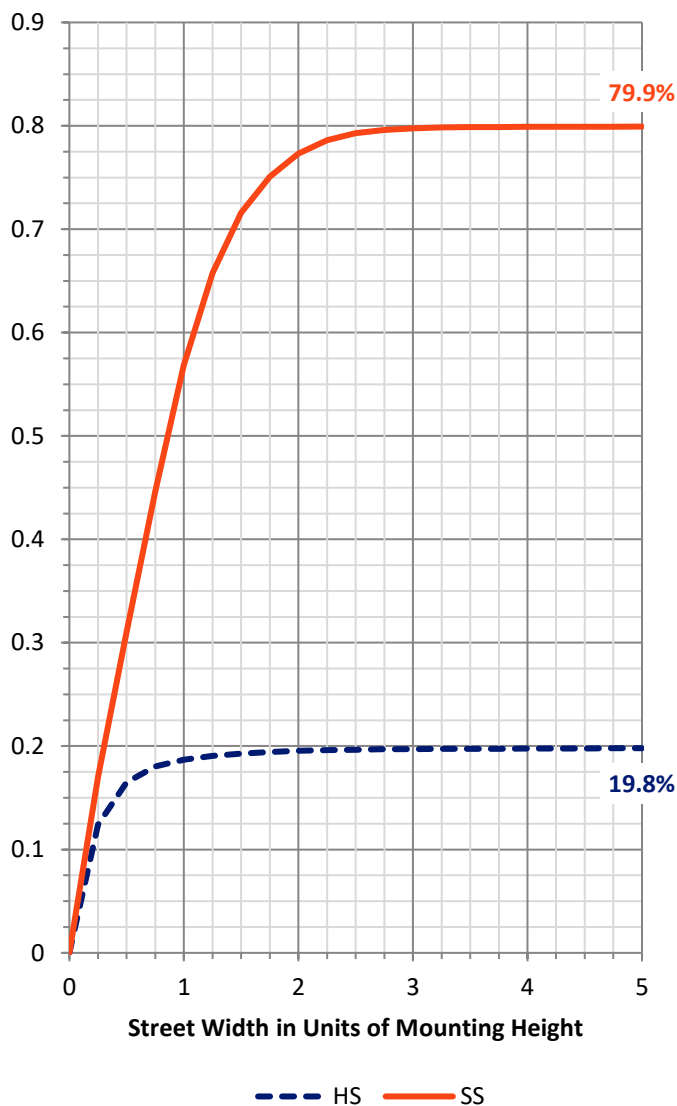
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.8	0.0	2653.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10595.3	0.0	10595.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	13249.1	0.0	13249.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	3.7
10°-20°	973.3	7.3
20°-30°	1462.3	11.0
30°-40°	2194.8	16.6
40°-50°	3084.6	23.3
50°-60°	3327.3	25.1
60°-70°	1544.9	11.7
70°-80°	145.3	1.1
80°-90°	26.8	0.2
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°	13249.1	100.0
0°-180°	13249.1	100.0

Coefficient of Utilization



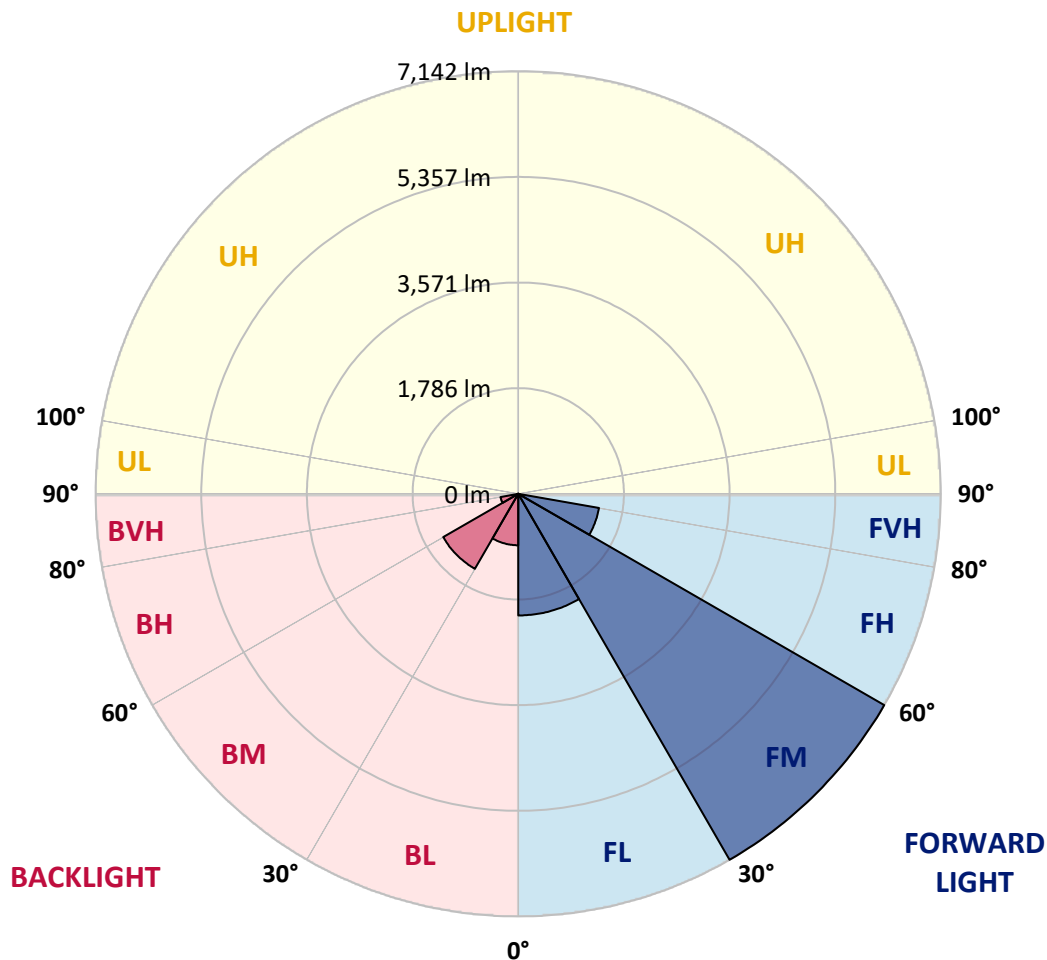
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.5	15.5			
FM	(30°-60°)	7142.3	53.9			
FH	(60°-80°)	1385.5	10.5			G1/1800
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	869.8	6.6	B2/1000		
BM	(30°-60°)	1464.5	11.1	B2/2500		
BH	(60°-80°)	304.7	2.3	B1/500		G1/500
BVH	(80°-90°)	14.7	0.1			G1/100
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°	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0
2.5°	6984.5	6876.7	6740.0	6627.0	6458.7	6119.6	6027.6	5917.2	5825.2	5701.6	5528.1
5°	6351.0	6316.8	6253.7	5827.9	5520.2	5110.2	4773.8	4631.8	4445.1	4292.7	4182.3
7.5°	5867.2	5730.6	5530.8	5102.3	4610.8	4171.8	3798.5	3580.3	3333.2	3249.1	3099.3
10°	5349.4	5381.0	5086.5	4484.5	3890.5	3535.6	3304.3	3094.0	2870.6	2723.3	2510.4
12.5°	5183.8	5081.3	4855.2	4111.3	3603.9	3272.8	2991.4	2731.2	2494.7	2258.1	2053.0
15°	5291.6	5133.9	4818.4	4032.4	3383.2	2970.4	2618.2	2265.9	2047.8	1745.5	1532.6
17.5°	5678.0	5551.9	5128.6	4116.5	3270.1	2681.3	2158.2	1795.4	1461.6	1188.2	1080.4
20°	6322.0	6143.3	5612.2	4224.3	3101.9	2331.7	1750.7	1303.8	988.4	872.7	812.2
22.5°	6953.0	6855.7	6185.3	4432.0	2952.0	2021.5	1314.3	878.0	738.7	717.6	678.2
25°	8154.3	7862.4	7060.7	4807.9	2836.4	1729.7	991.0	707.1	625.6	609.9	615.1
27.5°	8869.3	8624.8	7870.3	5057.6	2707.6	1506.2	838.6	649.3	594.1	559.9	546.7
30°	9555.4	9271.4	8272.5	5204.9	2431.6	1269.7	743.9	623.0	609.9	559.9	544.1
32.5°	10083.7	9805.1	8853.5	5425.6	2318.6	1117.2	612.5	486.4	452.1	446.9	494.2
35°	10893.4	10596.3	9350.3	5546.6	2231.8	1038.3	531.0	433.7	394.3	378.5	381.1
37.5°	11647.8	11445.4	9810.3	5593.9	2139.8	1014.7	475.8	389.0	354.9	344.4	341.7
40°	12278.7	11826.6	10246.7	5643.9	2100.3	970.0	441.6	354.9	331.2	315.5	315.5
42.5°	12567.8	12107.8	10735.6	5614.9	2089.8	899.0	441.6	326.0	307.6	291.8	289.1
45°	12504.7	12318.1	10953.9	5601.7	2089.8	828.0	402.2	318.1	291.8	270.7	265.5
47.5°	12667.7	12423.3	11227.2	5657.0	2047.8	778.1	339.1	333.9	276.0	249.7	244.5
50°	12696.7	12743.9	11703.0	5943.5	1955.7	715.0	265.5	328.6	265.5	226.1	220.8
52°	12885.9	12591.5	11847.6	6096.0	1858.5	667.7	223.5	281.2	255.0	210.3	205.0
52.5°	12625.7	12817.6	11881.7	6151.2	1869.0	636.1	215.5	276.0	249.7	210.3	197.1
55°	12333.9	12517.9	11742.5	6269.5	1713.9	499.5	168.2	199.8	226.1	184.0	176.1
57.5°	10719.9	10906.5	10204.6	5741.1	1395.8	352.2	139.4	149.9	199.8	170.9	163.0
60°	9529.0	9395.0	8564.3	4789.5	991.0	197.1	110.4	115.6	218.2	157.7	155.1
62.5°	8708.9	8422.4	7158.0	3698.5	604.6	131.4	86.7	89.4	168.2	147.2	147.2
65°	6443.0	6122.2	4755.4	2237.1	297.0	92.0	65.7	71.0	105.1	126.2	126.2
67.5°	3677.5	3554.0	2297.5	1009.5	123.5	57.9	50.0	55.2	81.5	102.5	97.3
70°	1690.2	1516.7	883.2	212.9	57.9	39.4	39.4	44.7	65.7	76.2	71.0
72.5°	494.2	467.9	215.5	34.1	23.6	23.6	26.3	34.1	50.0	57.9	52.6
75°	36.8	23.6	15.8	10.5	10.5	15.8	21.0	34.1	50.0	55.2	44.7
77.5°	2.6	5.3	2.6	2.6	7.9	15.8	23.6	42.0	65.7	68.4	50.0
80°	2.6	2.6	0.0	2.6	7.9	15.8	26.3	47.3	73.6	78.9	42.0
82.5°	0.0	0.0	0.0	2.6	10.5	21.0	31.5	50.0	68.4	84.1	44.7
85°	0.0	0.0	0.0	2.6	15.8	28.9	36.8	13.1	7.9	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°	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0
2.5°	5651.7	5583.4	5557.1	5580.7	5572.9	5565.0	5709.5	5678.0	5672.7	5720.1	5709.5
5°	4242.8	4121.8	4453.0	4319.0	4458.3	4542.4	4558.1	4566.0	4663.3	4560.8	4694.9
7.5°	3023.0	3054.6	3051.9	3141.3	3301.7	3443.6	3527.7	3462.0	3456.8	3443.6	3385.8
10°	2415.8	2360.6	2350.1	2329.1	2378.9	2499.9	2602.4	2520.9	2463.1	2541.9	2518.3
12.5°	1974.2	1897.9	1855.8	1771.7	1774.3	1855.8	1855.8	1855.8	1913.7	1958.4	1992.6
15°	1514.1	1451.1	1451.1	1367.0	1348.5	1351.2	1393.2	1398.5	1490.5	1516.7	1529.9
17.5°	1059.4	1025.2	1064.6	1098.8	1077.7	1083.0	1098.8	1104.1	1117.2	1106.7	1133.0
20°	814.9	809.6	820.1	880.6	925.3	951.6	933.2	906.9	891.1	854.3	854.3
22.5°	691.4	701.9	720.2	770.2	828.0	843.8	822.8	762.4	715.0	709.7	712.4
25°	615.1	625.6	654.6	686.1	717.6	743.9	722.9	678.2	651.9	628.2	628.2
27.5°	567.8	573.1	588.9	612.5	638.7	659.8	651.9	628.2	599.4	588.9	565.2
30°	531.0	538.9	557.2	562.5	586.2	596.7	583.6	578.4	559.9	546.7	538.9
32.5°	512.6	510.0	523.1	528.4	531.0	538.9	523.1	531.0	528.4	507.4	499.5
35°	386.4	407.5	441.6	470.5	478.4	489.0	486.4	475.8	446.9	423.2	394.3
37.5°	347.0	360.1	378.5	402.2	433.7	446.9	441.6	415.4	381.1	365.4	360.1
40°	320.7	328.6	344.4	360.1	391.7	415.4	397.0	373.2	347.0	333.9	326.0
42.5°	297.0	299.6	307.6	323.4	347.0	383.8	352.2	320.7	310.2	302.3	297.0
45°	270.7	270.7	281.2	289.1	315.5	349.6	318.1	289.1	283.9	278.6	276.0
47.5°	249.7	252.4	257.6	268.1	289.1	312.9	291.8	268.1	255.0	252.4	247.1
50°	223.5	226.1	236.6	247.1	273.4	286.5	273.4	247.1	234.0	226.1	226.1
52°	202.4	210.3	220.8	241.9	260.2	281.2	265.5	236.6	220.8	212.9	207.6
52.5°	199.8	205.0	215.5	239.2	260.2	278.6	262.9	234.0	215.5	210.3	205.0
55°	178.7	186.6	205.0	234.0	257.6	278.6	257.6	231.4	205.0	191.9	186.6
57.5°	170.9	176.1	199.8	236.6	255.0	278.6	257.6	231.4	205.0	181.4	176.1
60°	163.0	173.5	199.8	228.7	252.4	281.2	260.2	228.7	199.8	170.9	170.9
62.5°	155.1	163.0	197.1	223.5	241.9	270.7	249.7	223.5	191.9	163.0	160.4
65°	134.1	147.2	173.5	186.6	207.6	234.0	212.9	194.5	168.2	144.6	142.0
67.5°	102.5	107.8	128.8	144.6	157.7	181.4	170.9	147.2	128.8	110.4	110.4
70°	71.0	76.2	92.0	99.9	113.0	126.2	118.3	99.9	86.7	76.2	73.6
72.5°	50.0	52.6	57.9	63.1	68.4	73.6	71.0	57.9	50.0	47.3	44.7
75°	39.4	44.7	47.3	44.7	42.0	39.4	39.4	34.1	28.9	26.3	26.3
77.5°	39.4	42.0	39.4	34.1	28.9	26.3	23.6	21.0	15.8	13.1	15.8
80°	34.1	34.1	34.1	28.9	26.3	23.6	21.0	18.4	15.8	13.1	13.1
82.5°	36.8	36.8	34.1	28.9	28.9	23.6	23.6	21.0	18.4	13.1	13.1
85°	0.0	0.0	0.0	5.3	13.1	23.6	23.6	21.0	18.4	15.8	15.8
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	10.5	13.1	15.8	15.8	15.8
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°	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0
2.5°	5804.2	5904.1	6093.3	6282.6	6398.2	6535.0	6782.1	6913.5	7084.3	7168.5	7334.1
5°	4676.5	4913.0	4997.1	5212.7	5444.0	5675.4	6043.4	6448.2	6784.7	7016.0	7315.7
7.5°	3412.0	3467.3	3793.2	3937.8	4316.3	4736.9	5239.0	5749.0	6174.8	6553.3	6782.1
10°	2557.7	2760.2	2965.2	3241.2	3546.2	3979.9	4460.9	5023.5	5575.5	5954.0	6243.2
12.5°	2055.7	2216.0	2489.4	2786.4	3162.3	3448.9	3932.5	4489.8	5204.9	5575.5	5956.6
15°	1556.2	1761.2	2071.4	2378.9	2775.9	3078.2	3567.2	4269.0	5189.1	5699.0	6027.6
17.5°	1154.0	1293.3	1572.0	1916.3	2321.2	2747.0	3406.8	4245.4	5365.2	5972.4	6311.5
20°	883.2	930.6	1106.7	1414.2	1853.2	2410.6	3146.6	4347.9	5885.7	6637.5	6981.8
22.5°	715.0	736.0	804.4	1017.3	1443.2	2116.1	3023.0	4418.9	6471.8	7434.0	7894.0
25°	623.0	617.7	662.5	754.5	1127.7	1840.1	2865.3	4687.0	7189.5	8369.8	8782.5
27.5°	567.8	567.8	588.9	654.6	935.8	1661.3	2765.4	4878.9	7912.4	9192.6	9416.0
30°	538.9	544.1	604.6	625.6	778.1	1448.5	2599.8	5073.4	8603.8	9718.3	10025.9
32.5°	499.5	478.4	465.2	517.9	654.6	1256.5	2434.2	5154.9	9163.7	10362.4	10625.2
35°	383.8	373.2	389.0	428.5	562.5	1093.6	2250.2	5246.9	9807.7	11108.9	11161.5
37.5°	347.0	344.4	354.9	389.0	473.1	951.6	2118.7	5223.2	10299.3	11726.7	11584.7
40°	320.7	320.7	328.6	357.5	423.2	851.7	1982.1	5202.2	10775.1	12420.6	12005.3
42.5°	299.6	299.6	312.9	331.2	402.2	786.0	1879.6	5173.3	11174.6	12846.4	12252.4
45°	270.7	278.6	299.6	318.1	407.5	741.3	1803.3	5062.9	11311.3	12841.2	12134.1
47.5°	249.7	260.2	281.2	307.6	368.0	728.1	1750.7	4965.6	11264.0	12525.8	11763.5
50°	226.1	239.2	268.1	312.9	312.9	701.9	1695.5	5052.4	11229.8	12281.3	11408.6
52°	210.3	220.8	257.6	304.9	273.4	646.6	1661.3	5220.6	11369.1	12249.8	11250.9
52.5°	207.6	215.5	249.7	299.6	260.2	636.1	1637.7	5260.0	11413.8	12170.9	11358.6
55°	184.0	194.5	228.7	234.0	212.9	523.1	1561.5	5349.4	11193.0	12015.8	11256.1
57.5°	173.5	178.7	202.4	191.9	184.0	394.3	1343.2	5210.1	9941.8	10672.5	10472.7
60°	160.4	165.6	189.2	149.9	155.1	276.0	1009.5	4524.0	7983.4	8892.9	9253.0
62.5°	155.1	152.5	178.7	120.9	131.4	199.8	712.4	3677.5	6151.2	7320.9	7943.9
65°	136.7	134.1	128.8	102.5	113.0	155.1	425.9	2400.0	4334.8	5538.7	5880.4
67.5°	105.1	110.4	94.6	81.5	94.6	120.9	236.6	1075.1	2273.8	3322.7	3598.7
70°	73.6	78.9	76.2	71.0	84.1	99.9	136.7	368.0	941.1	1745.5	1924.2
72.5°	44.7	55.2	57.9	60.5	73.6	86.7	97.3	118.3	249.7	617.7	767.6
75°	26.3	36.8	44.7	52.6	60.5	73.6	81.5	84.1	86.7	115.6	186.6
77.5°	18.4	26.3	39.4	50.0	60.5	73.6	86.7	92.0	86.7	81.5	86.7
80°	15.8	26.3	36.8	47.3	63.1	76.2	86.7	86.7	84.1	73.6	78.9
82.5°	15.8	26.3	39.4	50.0	60.5	73.6	84.1	86.7	78.9	73.6	76.2
85°	18.4	28.9	42.0	52.6	65.7	60.5	55.2	44.7	42.0	34.1	36.8
87.5°	18.4	26.3	26.3	28.9	31.5	31.5	31.5	28.9	23.6	21.0	21.0
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°	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0	6719.0
2.5°	7342.0	7552.3	7544.4	7549.7	7518.1	7305.2	7202.7	6942.4	7016.0	6984.5
5°	7623.2	7830.9	8009.7	7988.7	7746.8	7457.7	7029.2	6624.3	6514.0	6351.0
7.5°	7342.0	7841.4	8007.1	7983.4	7625.9	7255.2	6571.7	6167.0	5975.1	5867.2
10°	6895.1	7473.4	7678.4	7720.5	7478.7	6916.1	6287.9	5638.6	5536.1	5349.4
12.5°	6640.1	7060.7	7186.8	7299.9	7215.8	6795.2	6072.3	5449.3	5307.4	5183.8
15°	6432.5	6682.2	6734.7	6863.6	6913.5	6687.5	6185.3	5654.4	5304.7	5291.6
17.5°	6624.3	6521.8	6330.0	6369.3	6527.1	6690.1	6477.1	6059.2	5720.1	5678.0
20°	6942.4	6490.2	6056.5	6153.8	6285.2	6784.7	6918.7	6624.3	6429.8	6322.0
22.5°	7307.8	6545.5	5969.8	6017.1	6266.8	6997.6	7633.8	7470.8	7108.0	6953.0
25°	7983.4	6698.0	6038.1	6069.7	6411.4	7294.7	8280.4	8401.3	8185.8	8154.3
27.5°	8643.2	7092.2	6188.0	6117.0	6485.0	7583.8	8672.1	9321.4	8942.9	8869.3
30°	8979.7	7412.9	6411.4	6290.5	6790.0	7759.9	8908.7	9920.8	9589.5	9555.4
32.5°	9494.9	7704.7	6584.9	6429.8	6960.8	7978.1	9350.3	10575.3	10254.6	10083.7
35°	9710.4	8022.8	6966.1	6784.7	7449.7	8283.0	9576.4	11158.9	11059.0	10893.4
37.5°	10125.8	8364.5	7415.6	7405.1	8041.2	8680.0	9983.8	11952.7	11934.3	11647.8
40°	10160.0	8737.8	8125.3	8456.5	8956.0	9371.3	10341.4	12173.6	12473.2	12278.7
42.5°	10212.5	9392.4	9352.9	9626.3	10054.8	9965.4	10354.5	12226.1	12683.5	12567.8
45°	10236.1	10046.9	10601.6	11106.2	11285.0	10743.5	10230.9	12126.2	12793.9	12504.7
47.5°	10046.9	10609.5	11611.0	12586.2	12638.8	11222.0	10178.4	12023.7	12859.6	12667.7
50°	10073.2	10961.7	12483.7	13356.4	13164.6	11645.2	10096.9	11960.6	12825.4	12696.7
52°	10010.1	10969.6	12607.3	13340.7	13206.6	11411.2	9957.5	11718.7	12793.9	12885.9
52.5°	10081.1	10922.2	12478.5	13351.2	13177.7	11526.9	9939.1	11852.8	12812.3	12625.7
55°	9836.6	10359.7	11724.0	12094.7	12068.4	10462.2	9374.0	11408.6	12331.2	12333.9
57.5°	8890.3	8979.7	9195.2	9187.3	9066.4	8225.2	8017.6	10491.1	10993.2	10719.9
60°	7833.6	6574.4	5993.5	5756.9	5622.8	5486.1	7092.2	9597.4	9644.8	9529.0
62.5°	6769.0	4558.1	3785.3	3719.7	3751.2	4250.6	6855.7	9242.5	8958.7	8708.9
65°	5462.5	3322.7	2749.6	2662.9	2970.4	3509.3	5549.2	7087.0	6650.6	6443.0
67.5°	3430.4	2423.7	1858.5	1695.5	2066.2	2415.8	3646.0	4453.0	3964.1	3677.5
70°	2034.6	1353.8	841.2	754.5	849.1	1288.1	2042.5	2221.2	1837.5	1690.2
72.5°	801.7	496.9	234.0	199.8	207.6	452.1	751.8	733.4	554.6	494.2
75°	215.5	149.9	81.5	65.7	55.2	84.1	120.9	78.9	28.9	36.8
77.5°	99.9	89.4	71.0	55.2	42.0	31.5	15.8	5.3	5.3	2.6
80°	86.7	76.2	65.7	55.2	42.0	26.3	13.1	2.6	2.6	2.6
82.5°	81.5	71.0	60.5	50.0	39.4	26.3	13.1	2.6	0.0	0.0
85°	34.1	44.7	50.0	47.3	42.0	26.3	13.1	2.6	0.0	0.0
87.5°	18.4	15.8	13.1	10.5	7.9	5.3	5.3	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

(END OF REPORT)