

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: P647393

Luminaire Tested: **GALN-SA4D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647393
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-SA4D-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 13246.8 lumens
Efficiency: N/A
Efficacy: 54.1 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): 245
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

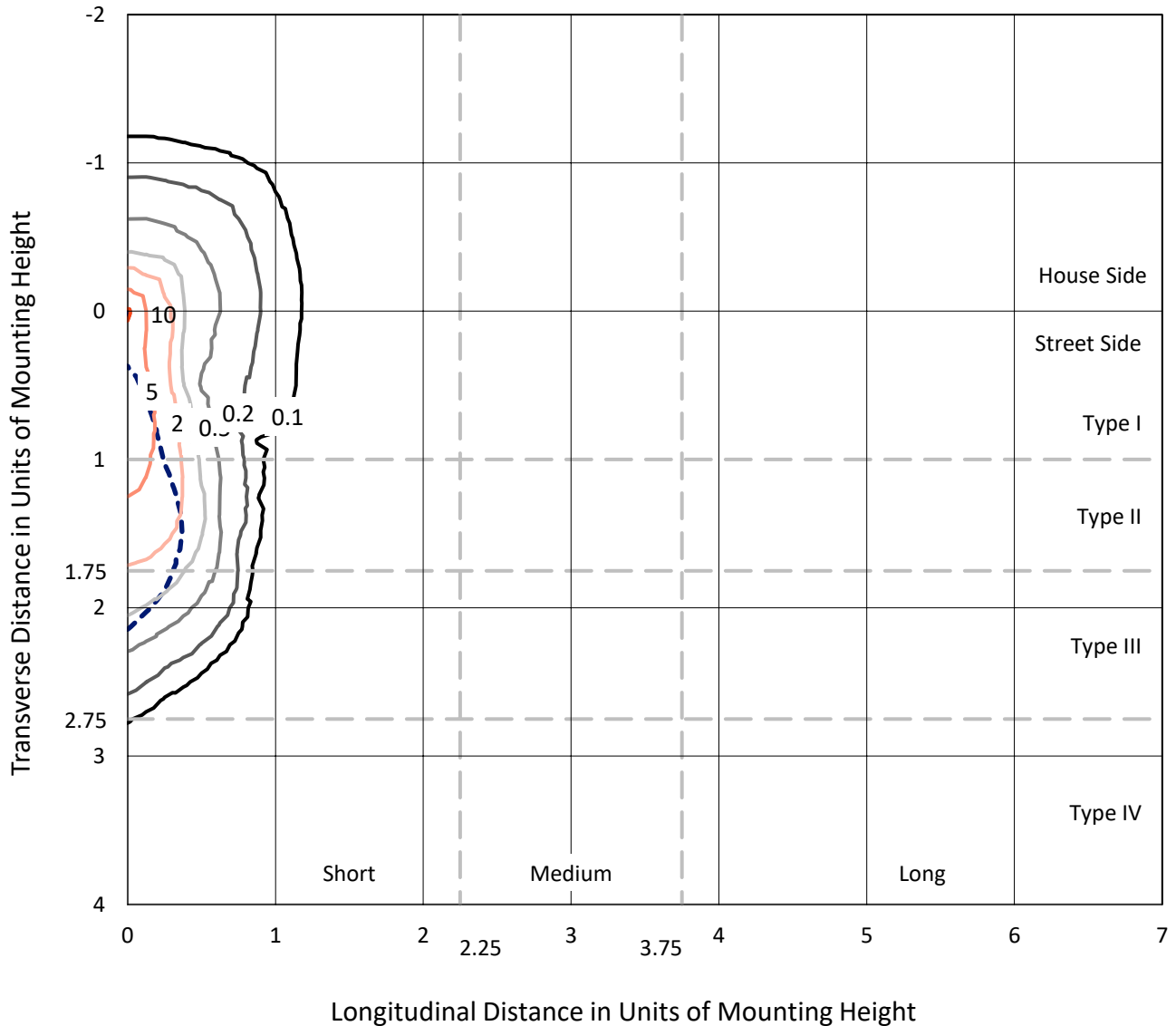




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Iso-Footcandle Lines of Horizontal Illumination

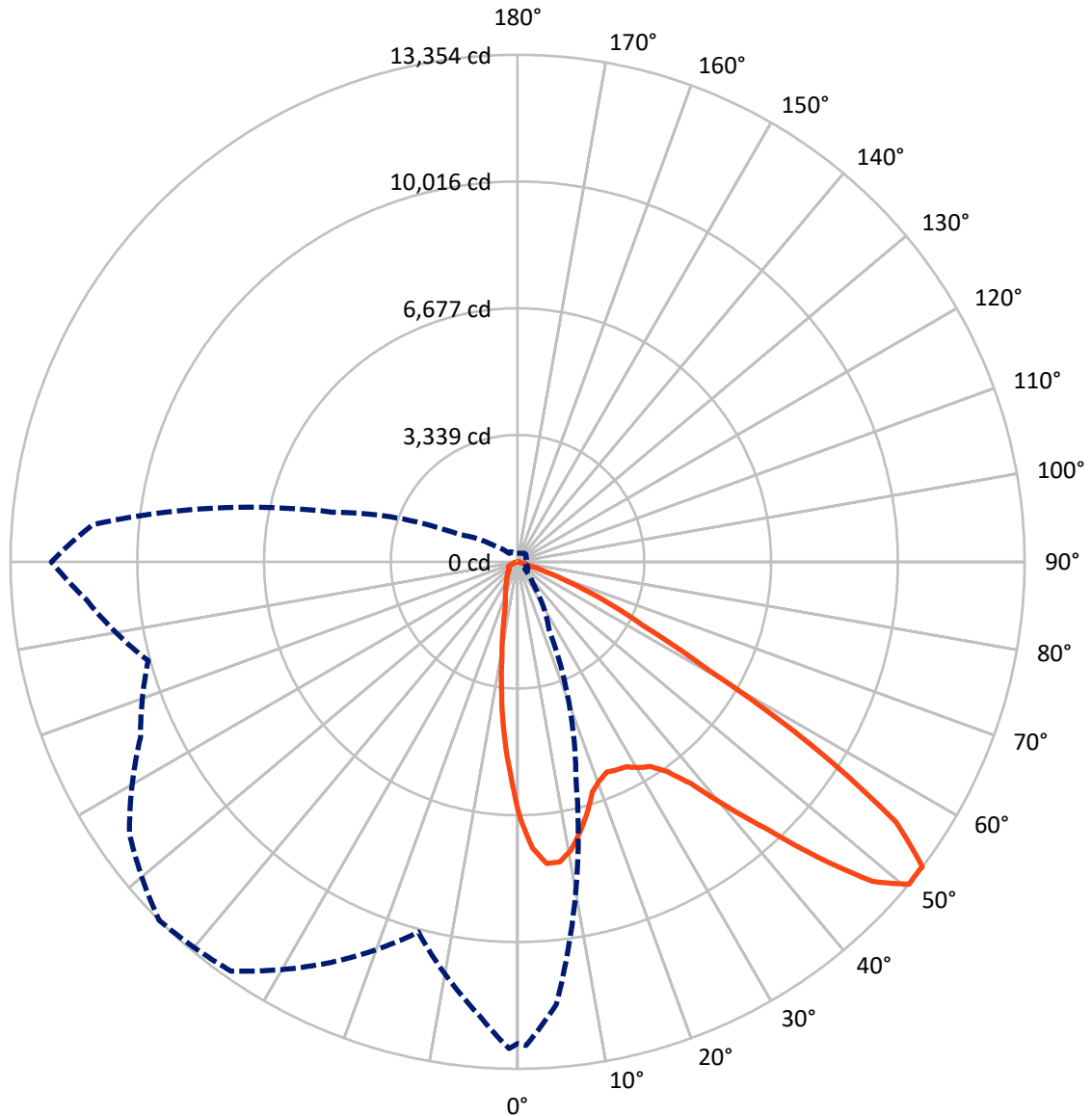
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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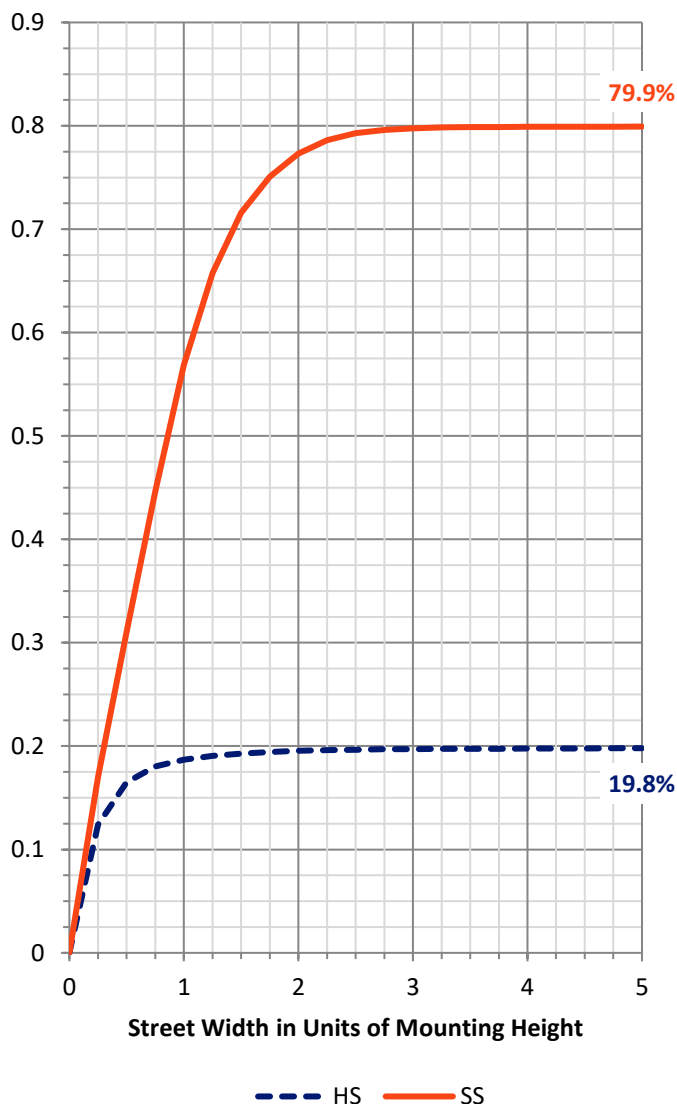
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2653.3	0.0	2653.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10593.5	0.0	10593.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	13246.8	0.0	13246.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	3.7
10°-20°	973.2	7.3
20°-30°	1462.0	11.0
30°-40°	2194.4	16.6
40°-50°	3084.1	23.3
50°-60°	3326.7	25.1
60°-70°	1544.6	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°	13246.8	100.0
0°-180°	13246.8	100.0

Coefficient of Utilization

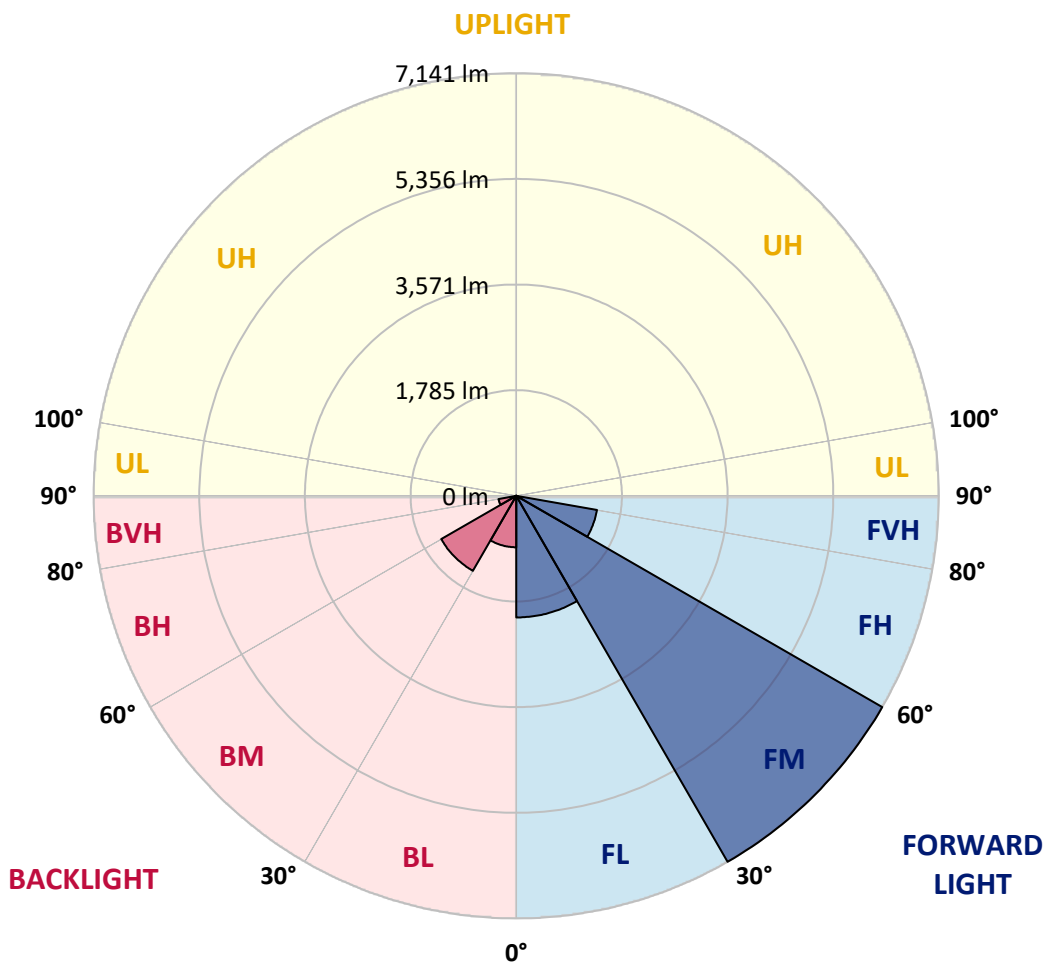


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.1	15.5			
FM	(30°-60°)	7141.0	53.9			
FH	(60°-80°)	1385.2	10.5			G1/1800
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	869.7	6.6	B2/1000		
BM	(30°-60°)	1464.2	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°	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8
2.5°	6983.3	6875.5	6738.8	6625.8	6457.6	6118.5	6026.6	5916.2	5824.2	5700.6	5527.2
5°	6349.8	6315.7	6252.6	5826.9	5519.3	5109.3	4772.9	4631.0	4444.4	4291.9	4181.5
7.5°	5866.2	5729.6	5529.9	5101.4	4609.9	4171.0	3797.8	3579.6	3332.6	3248.5	3098.7
10°	5348.5	5380.0	5085.7	4483.8	3889.8	3535.0	3303.7	3093.5	2870.0	2722.9	2510.0
12.5°	5182.9	5080.4	4854.4	4110.6	3603.3	3272.2	2991.0	2730.7	2494.2	2257.6	2052.6
15°	5290.7	5133.0	4817.6	4031.7	3382.6	2969.9	2617.7	2265.5	2047.4	1745.2	1532.3
17.5°	5677.0	5550.8	5127.7	4115.8	3269.6	2680.8	2157.8	1795.1	1461.3	1188.0	1080.2
20°	6320.9	6142.2	5611.3	4223.6	3101.3	2331.2	1750.4	1303.6	988.2	872.6	812.1
22.5°	6951.7	6854.5	6184.3	4431.2	2951.5	2021.2	1314.1	877.8	738.5	717.5	678.1
25°	8152.8	7861.1	7059.4	4807.1	2835.9	1729.4	990.9	707.0	625.5	609.7	615.0
27.5°	8867.7	8623.3	7869.0	5056.8	2707.1	1506.0	838.4	649.2	594.0	559.8	546.7
30°	9553.7	9269.9	8271.1	5203.9	2431.1	1269.5	743.8	622.9	609.7	559.8	544.0
32.5°	10082.0	9803.3	8851.9	5424.7	2318.1	1117.0	612.4	486.2	452.0	446.8	494.1
35°	10891.5	10594.5	9348.7	5545.6	2231.4	1038.2	530.9	433.6	394.2	378.5	381.1
37.5°	11645.7	11443.4	9808.6	5592.9	2139.4	1014.5	475.8	389.0	354.8	344.3	341.7
40°	12276.5	11824.5	10244.9	5642.8	2100.0	969.8	441.5	354.8	331.1	315.4	315.4
42.5°	12565.7	12105.7	10733.8	5614.0	2089.4	898.9	441.5	325.9	307.5	291.7	289.1
45°	12502.6	12316.0	10951.9	5600.8	2089.4	827.9	402.1	318.1	291.7	270.7	265.4
47.5°	12665.5	12421.1	11225.2	5656.0	2047.4	778.0	339.0	333.8	275.9	249.7	244.5
50°	12694.4	12741.8	11700.9	5942.5	1955.4	714.9	265.4	328.5	265.4	226.1	220.8
52°	12883.6	12589.3	11845.5	6094.9	1858.1	667.6	223.4	281.3	254.9	210.2	205.0
52.5°	12623.4	12815.4	11879.7	6150.1	1868.7	636.0	215.5	275.9	249.7	210.2	197.1
55°	12331.7	12515.7	11740.4	6268.4	1713.6	499.4	168.2	199.7	226.1	184.0	176.1
57.5°	10718.0	10904.6	10202.9	5740.1	1395.6	352.2	139.3	149.8	199.7	170.9	162.9
60°	9527.4	9393.3	8562.8	4788.7	990.9	197.1	110.4	115.6	218.1	157.7	155.0
62.5°	8707.4	8420.9	7156.7	3698.0	604.5	131.4	86.8	89.3	168.2	147.2	147.2
65°	6441.8	6121.2	4754.5	2236.6	297.0	92.0	65.7	70.9	105.2	126.1	126.1
67.5°	3676.9	3553.4	2297.1	1009.2	123.6	57.8	50.0	55.2	81.5	102.5	97.2
70°	1689.9	1516.5	883.1	212.9	57.8	39.4	39.4	44.7	65.7	76.2	70.9
72.5°	494.1	467.8	215.5	34.1	23.6	23.6	26.3	34.1	50.0	57.8	52.5
75°	36.8	23.6	15.7	10.5	10.5	15.7	21.1	34.1	50.0	55.2	44.7
77.5°	2.7	5.2	2.7	2.7	7.9	15.7	23.6	42.0	65.7	68.4	50.0
80°	2.7	2.7	0.0	2.7	7.9	15.7	26.3	47.3	73.6	78.8	42.0
82.5°	0.0	0.0	0.0	2.7	10.5	21.1	31.6	50.0	68.4	84.1	44.7
85°	0.0	0.0	0.0	2.7	15.7	28.9	36.8	13.2	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°	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8
2.5°	5650.8	5582.4	5556.1	5579.7	5571.9	5564.0	5708.5	5677.0	5671.7	5719.0	5708.5
5°	4242.0	4121.1	4452.2	4318.2	4457.5	4541.6	4557.4	4565.3	4662.5	4560.0	4694.0
7.5°	3022.5	3054.0	3051.4	3140.8	3301.0	3443.0	3527.1	3461.4	3456.2	3443.0	3385.1
10°	2415.3	2360.2	2349.6	2328.6	2378.6	2499.5	2602.0	2520.5	2462.7	2541.5	2517.9
12.5°	1973.8	1897.6	1855.6	1771.5	1774.0	1855.6	1855.6	1855.6	1913.3	1958.0	1992.2
15°	1513.9	1450.8	1450.8	1366.7	1348.3	1350.9	1393.0	1398.2	1490.2	1516.5	1529.7
17.5°	1059.2	1025.0	1064.4	1098.6	1077.6	1082.8	1098.6	1103.9	1117.0	1106.5	1132.8
20°	814.8	809.5	820.0	880.5	925.1	951.4	933.0	906.7	891.0	854.2	854.2
22.5°	691.2	701.7	720.1	770.1	827.9	843.7	822.6	762.2	714.9	709.6	712.2
25°	615.0	625.5	654.4	686.0	717.5	743.8	722.8	678.1	651.8	628.1	628.1
27.5°	567.7	572.9	588.7	612.4	638.7	659.7	651.8	628.1	599.2	588.7	565.1
30°	530.9	538.8	557.2	562.4	586.1	596.6	583.5	578.2	559.8	546.7	538.8
32.5°	512.5	509.9	523.0	528.3	530.9	538.8	523.0	530.9	528.3	507.2	499.4
35°	386.3	407.4	441.5	470.4	478.3	488.8	486.2	475.8	446.8	423.1	394.2
37.5°	346.9	360.1	378.5	402.1	433.6	446.8	441.5	415.2	381.1	365.3	360.1
40°	320.6	328.5	344.3	360.1	391.6	415.2	396.9	373.2	346.9	333.8	325.9
42.5°	297.0	299.7	307.5	323.3	346.9	383.7	352.2	320.6	310.1	302.2	297.0
45°	270.7	270.7	281.3	289.1	315.4	349.5	318.1	289.1	283.8	278.6	275.9
47.5°	249.7	252.3	257.6	268.1	289.1	312.7	291.7	268.1	254.9	252.3	247.0
50°	223.4	226.1	236.5	247.0	273.3	286.5	273.3	247.0	233.9	226.1	226.1
52°	202.4	210.2	220.8	241.8	260.2	281.3	265.4	236.5	220.8	212.9	207.7
52.5°	199.7	205.0	215.5	239.2	260.2	278.6	262.9	233.9	215.5	210.2	205.0
55°	178.8	186.6	205.0	233.9	257.6	278.6	257.6	231.3	205.0	191.8	186.6
57.5°	170.9	176.1	199.7	236.5	254.9	278.6	257.6	231.3	205.0	181.3	176.1
60°	162.9	173.4	199.7	228.6	252.3	281.3	260.2	228.6	199.7	170.9	170.9
62.5°	155.0	162.9	197.1	223.4	241.8	270.7	249.7	223.4	191.8	162.9	160.4
65°	134.0	147.2	173.4	186.6	207.7	233.9	212.9	194.5	168.2	144.5	142.0
67.5°	102.5	107.7	128.8	144.5	157.7	181.3	170.9	147.2	128.8	110.4	110.4
70°	70.9	76.2	92.0	99.9	113.0	126.1	118.2	99.9	86.8	76.2	73.6
72.5°	50.0	52.5	57.8	63.1	68.4	73.6	70.9	57.8	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	21.1	15.7	13.2	15.7
80°	34.1	34.1	34.1	28.9	26.3	23.6	21.1	18.4	15.7	13.2	13.2
82.5°	36.8	36.8	34.1	28.9	28.9	23.6	23.6	21.1	18.4	13.2	13.2
85°	0.0	0.0	0.0	5.2	13.2	23.6	23.6	21.1	18.4	15.7	15.7
87.5°	0.0	0.0	0.0	0.0	2.7	5.2	10.5	13.2	15.7	15.7	15.7
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°	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8
2.5°	5803.1	5903.0	6092.3	6281.5	6397.1	6533.8	6780.9	6912.2	7083.1	7167.2	7332.8
5°	4675.7	4912.2	4996.3	5211.8	5443.1	5674.4	6042.3	6447.1	6783.5	7014.8	7314.4
7.5°	3411.5	3466.7	3792.5	3937.1	4315.6	4736.1	5238.1	5748.0	6173.7	6552.2	6780.9
10°	2557.3	2759.7	2964.7	3240.6	3545.5	3979.1	4460.1	5022.6	5574.5	5953.0	6242.1
12.5°	2055.3	2215.6	2488.9	2785.9	3161.8	3448.3	3931.8	4489.0	5203.9	5574.5	5955.6
15°	1555.9	1760.9	2071.0	2378.6	2775.4	3077.7	3566.6	4268.3	5188.2	5698.0	6026.6
17.5°	1153.8	1293.1	1571.7	1916.0	2320.7	2746.5	3406.2	4244.6	5364.3	5971.4	6310.4
20°	883.1	930.4	1106.5	1414.0	1852.9	2410.1	3146.0	4347.1	5884.6	6636.3	6980.6
22.5°	714.9	735.9	804.2	1017.1	1442.9	2115.7	3022.5	4418.1	6470.7	7432.7	7892.6
25°	622.9	617.6	662.3	754.3	1127.5	1839.7	2864.8	4686.2	7188.3	8368.3	8781.0
27.5°	567.7	567.7	588.7	654.4	935.7	1661.1	2764.9	4878.0	7911.0	9191.0	9414.4
30°	538.8	544.0	604.5	625.5	778.0	1448.2	2599.3	5072.5	8602.3	9716.6	10024.1
32.5°	499.4	478.3	465.2	517.8	654.4	1256.3	2433.7	5154.0	9162.0	10360.6	10623.4
35°	383.7	373.2	389.0	428.4	562.4	1093.4	2249.8	5245.9	9806.0	11106.9	11159.6
37.5°	346.9	344.3	354.8	389.0	473.1	951.4	2118.3	5222.3	10297.5	11724.6	11582.7
40°	320.6	320.6	328.5	357.4	423.1	851.5	1981.7	5201.3	10773.1	12418.5	12003.2
42.5°	299.7	299.7	312.7	331.1	402.1	785.8	1879.2	5172.4	11172.7	12844.3	12250.3
45°	270.7	278.6	299.7	318.1	407.4	741.2	1803.0	5062.0	11309.3	12839.0	12132.0
47.5°	249.7	260.2	281.3	307.5	367.9	728.0	1750.4	4964.8	11262.0	12523.6	11761.4
50°	226.1	239.2	268.1	312.7	312.7	701.7	1695.2	5051.5	11227.8	12279.2	11406.6
52°	210.2	220.8	257.6	304.9	273.3	646.5	1661.1	5219.7	11367.1	12247.6	11248.9
52.5°	207.7	215.5	249.7	299.7	260.2	636.0	1637.4	5259.1	11411.8	12168.8	11356.6
55°	184.0	194.5	228.6	233.9	212.9	523.0	1561.1	5348.5	11191.1	12013.7	11254.1
57.5°	173.4	178.8	202.4	191.8	184.0	394.2	1343.0	5209.2	9940.0	10670.6	10470.9
60°	160.4	165.6	189.3	149.8	155.0	275.9	1009.2	4523.2	7982.0	8891.4	9251.5
62.5°	155.0	152.5	178.8	120.9	131.4	199.7	712.2	3676.9	6150.1	7319.6	7942.6
65°	136.6	134.0	128.8	102.5	113.0	155.0	425.8	2399.6	4334.0	5537.7	5879.4
67.5°	105.2	110.4	94.6	81.5	94.6	120.9	236.5	1075.0	2273.4	3322.1	3598.0
70°	73.6	78.8	76.2	70.9	84.1	99.9	136.6	367.9	940.9	1745.2	1923.9
72.5°	44.7	55.2	57.8	60.4	73.6	86.8	97.2	118.2	249.7	617.6	767.4
75°	26.3	36.8	44.7	52.5	60.4	73.6	81.5	84.1	86.8	115.6	186.6
77.5°	18.4	26.3	39.4	50.0	60.4	73.6	86.8	92.0	86.8	81.5	86.8
80°	15.7	26.3	36.8	47.3	63.1	76.2	86.8	86.8	84.1	73.6	78.8
82.5°	15.7	26.3	39.4	50.0	60.4	73.6	84.1	86.8	78.8	73.6	76.2
85°	18.4	28.9	42.0	52.5	65.7	60.4	55.2	44.7	42.0	34.1	36.8
87.5°	18.4	26.3	26.3	28.9	31.6	31.6	31.6	28.9	23.6	21.1	21.1
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°	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8	6717.8
2.5°	7340.7	7550.9	7543.0	7548.4	7516.8	7303.9	7201.4	6941.2	7014.8	6983.3
5°	7621.9	7829.5	8008.3	7987.2	7745.4	7456.4	7027.9	6623.2	6512.8	6349.8
7.5°	7340.7	7840.0	8005.6	7982.0	7624.5	7253.9	6570.6	6165.9	5974.0	5866.2
10°	6893.9	7472.1	7677.1	7719.1	7477.3	6914.9	6286.8	5637.6	5535.1	5348.5
12.5°	6639.0	7059.4	7185.6	7298.7	7214.6	6794.0	6071.2	5448.3	5306.4	5182.9
15°	6431.3	6681.0	6733.6	6862.4	6912.2	6686.3	6184.3	5653.3	5303.8	5290.7
17.5°	6623.2	6520.7	6328.8	6368.2	6525.9	6688.9	6476.0	6058.1	5719.0	5677.0
20°	6941.2	6489.1	6055.5	6152.7	6284.1	6783.5	6917.6	6623.2	6428.7	6320.9
22.5°	7306.5	6544.3	5968.7	6016.0	6265.7	6996.4	7632.4	7469.5	7106.7	6951.7
25°	7982.0	6696.8	6037.1	6068.6	6410.3	7293.4	8279.0	8399.9	8184.4	8152.8
27.5°	8641.7	7091.0	6186.9	6115.9	6483.9	7582.5	8670.6	9319.7	8941.3	8867.7
30°	8978.1	7411.6	6410.3	6289.4	6788.8	7758.6	8907.1	9919.0	9587.8	9553.7
32.5°	9493.2	7703.4	6583.8	6428.7	6959.6	7976.7	9348.7	10573.4	10252.8	10082.0
35°	9708.7	8021.4	6964.9	6783.5	7448.4	8281.6	9574.7	11156.9	11057.1	10891.5
37.5°	10124.0	8363.1	7414.3	7403.7	8039.8	8678.5	9982.1	11950.6	11932.2	11645.7
40°	10158.2	8736.3	8123.9	8455.1	8954.5	9369.7	10339.5	12171.4	12471.0	12276.5
42.5°	10210.7	9390.8	9351.3	9624.6	10053.0	9963.7	10352.7	12224.0	12681.3	12565.7
45°	10234.4	10045.2	10599.7	11104.3	11283.0	10741.7	10229.1	12124.1	12791.6	12502.6
47.5°	10045.2	10607.6	11609.0	12584.1	12636.6	11220.0	10176.6	12021.6	12857.4	12665.5
50°	10071.4	10959.8	12481.6	13354.1	13162.2	11643.1	10095.1	11958.5	12823.2	12694.4
52°	10008.4	10967.6	12605.0	13338.3	13204.3	11409.2	9955.8	11716.7	12791.6	12883.6
52.5°	10079.3	10920.3	12476.2	13348.8	13175.4	11524.8	9937.4	11850.8	12810.0	12623.4
55°	9834.9	10357.9	11722.0	12092.6	12066.3	10460.4	9372.4	11406.6	12329.1	12331.7
57.5°	8888.7	8978.1	9193.6	9185.7	9064.8	8223.8	8016.1	10489.3	10991.3	10718.0
60°	7832.2	6573.2	5992.4	5755.8	5621.8	5485.1	7091.0	9595.7	9643.0	9527.4
62.5°	6767.7	4557.4	3784.7	3718.9	3750.5	4249.9	6854.5	9240.9	8957.1	8707.4
65°	5461.5	3322.1	2749.1	2662.4	2969.9	3508.7	5548.3	7085.8	6649.5	6441.8
67.5°	3429.9	2423.2	1858.1	1695.2	2065.8	2415.3	3645.4	4452.2	3963.4	3676.9
70°	2034.2	1353.6	841.0	754.3	848.9	1287.9	2042.1	2220.9	1837.2	1689.9
72.5°	801.6	496.7	233.9	199.7	207.7	452.0	751.7	733.3	554.5	494.1
75°	215.5	149.8	81.5	65.7	55.2	84.1	120.9	78.8	28.9	36.8
77.5°	99.9	89.3	70.9	55.2	42.0	31.6	15.7	5.2	5.2	2.7
80°	86.8	76.2	65.7	55.2	42.0	26.3	13.2	2.7	2.7	2.7
82.5°	81.5	70.9	60.4	50.0	39.4	26.3	13.2	2.7	0.0	0.0
85°	34.1	44.7	50.0	47.3	42.0	26.3	13.2	2.7	0.0	0.0
87.5°	18.4	15.7	13.2	10.5	7.9	5.2	5.2	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)