

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: P648159

Luminaire Tested: **GALN-SA9A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648159
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-SA9A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 17945.6 lumens
Efficiency: N/A
Efficacy: 65.5 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

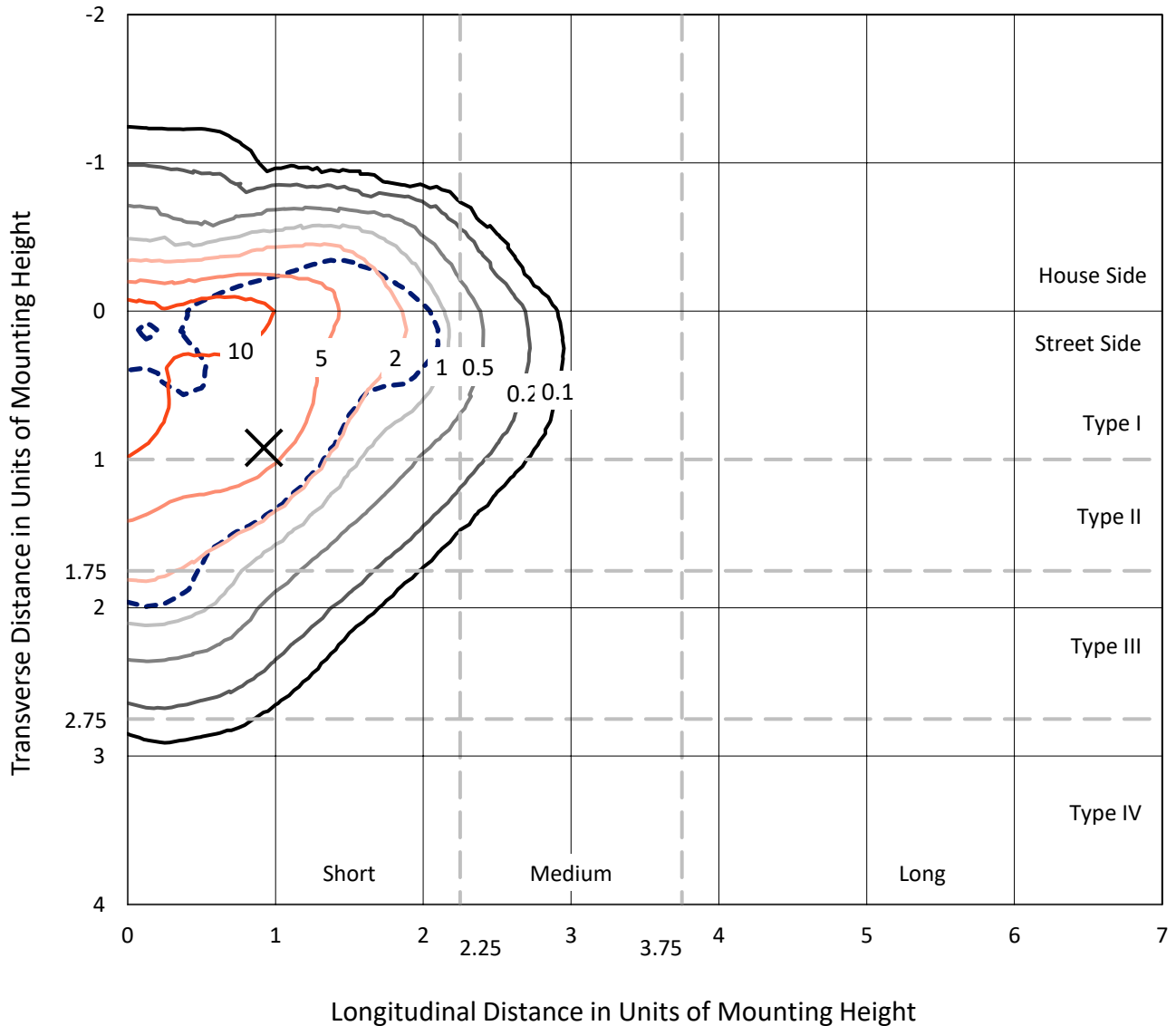
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

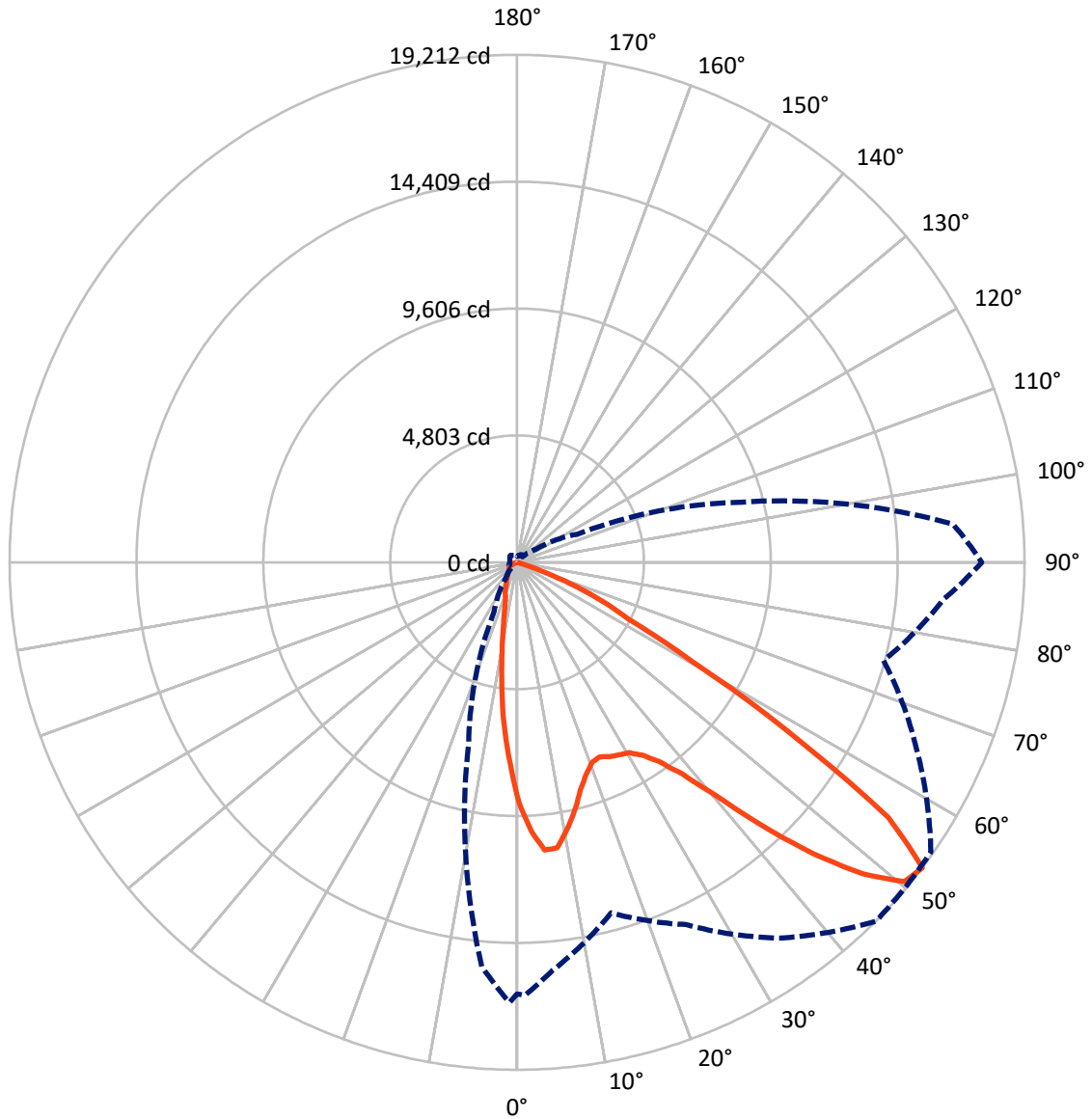
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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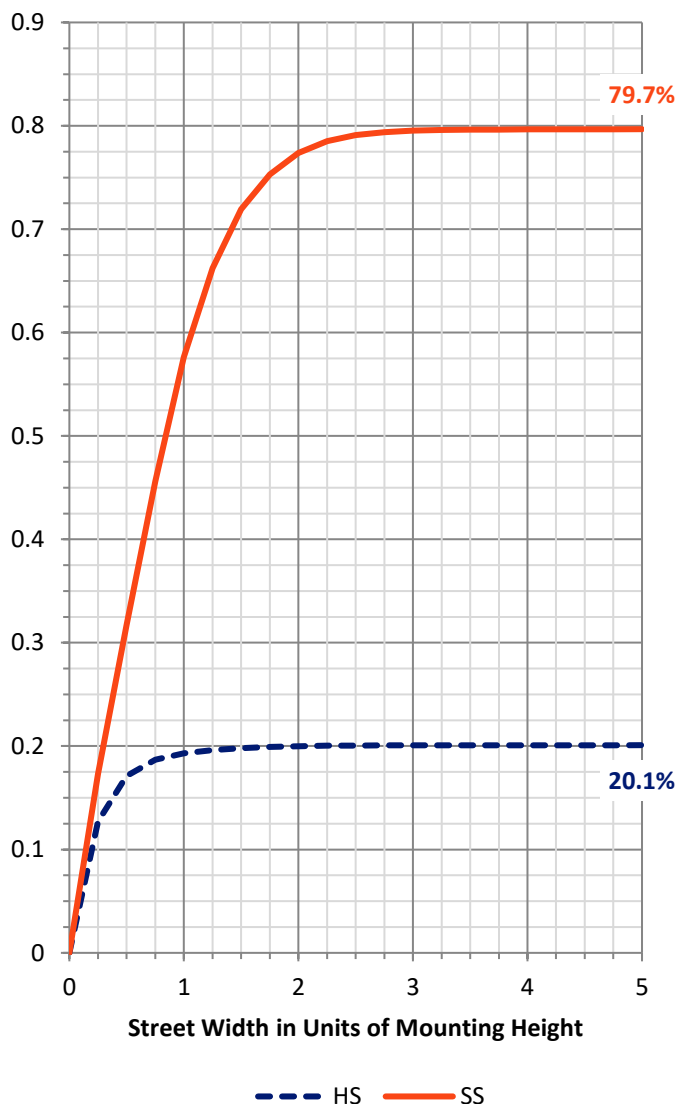
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3642.1	0.0	3642.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14303.5	0.0	14303.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	17945.6	0.0	17945.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.6	3.7
10°-20°	1309.2	7.3
20°-30°	1992.5	11.1
30°-40°	2978.0	16.6
40°-50°	4240.9	23.6
50°-60°	4558.8	25.4
60°-70°	2020.1	11.3
70°-80°	163.4	0.9
80°-90°	19.0	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°	17945.6	100.0
0°-180°	17945.6	100.0

Coefficient of Utilization



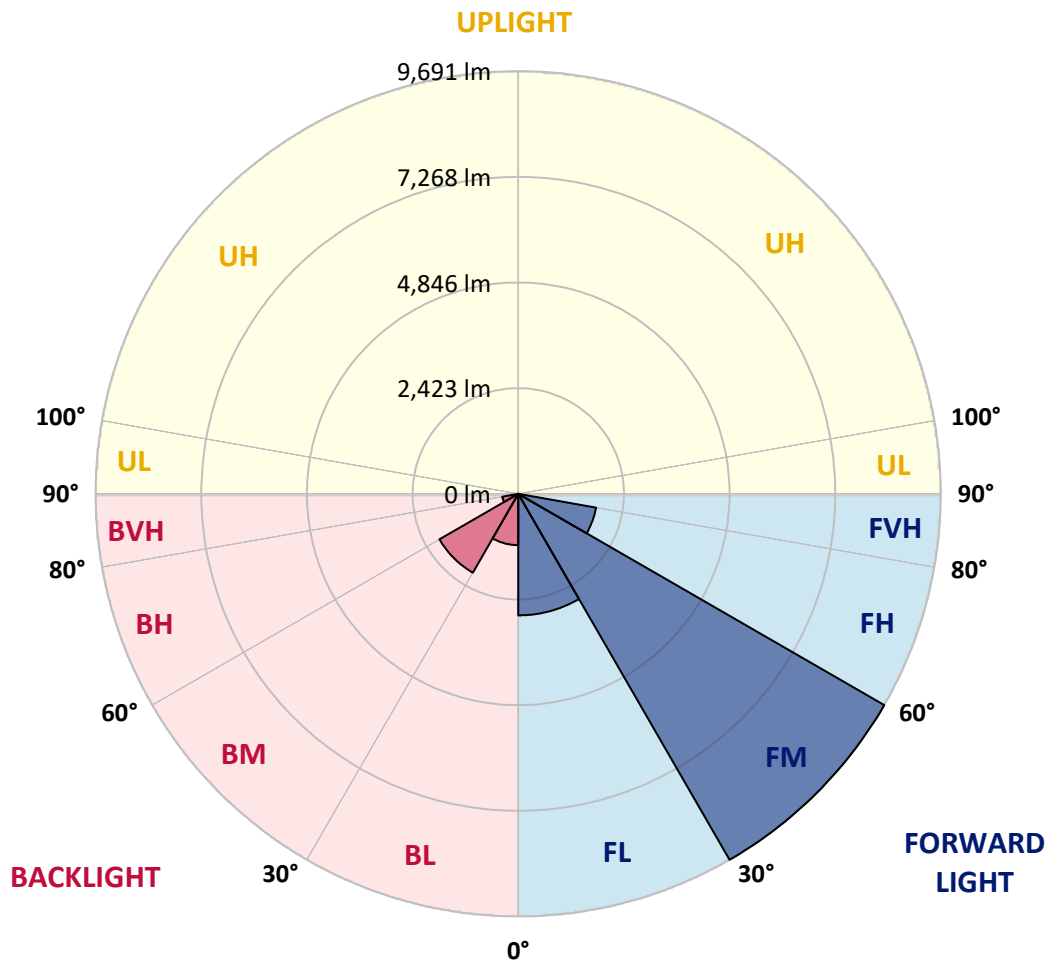
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.3	15.5			
FM (30°-60°)	9691.2	54.0			
FH (60°-80°)	1810.9	10.1			G2/5000
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1178.0	6.6	B3/2500		
BM (30°-60°)	2086.5	11.6	B2/2500		
BH (60°-80°)	372.6	2.1	B1/500		G1/500
BVH (80°-90°)	4.9	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°	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2
2.5°	9628.7	9656.9	9812.2	10006.3	10108.7	10341.6	10179.3	10221.7	10133.4	9822.8	9579.3
5°	9335.7	9332.2	9529.8	10009.9	10465.2	10927.5	10941.6	10694.6	10260.5	9784.0	9102.8
7.5°	8453.3	8591.0	8795.7	9561.6	10405.2	10751.1	10917.0	10627.6	9960.5	9279.3	8541.6
10°	7786.2	7856.9	8202.7	9127.5	9745.1	10207.5	10309.9	10144.0	9632.2	8781.6	7955.7
12.5°	7401.5	7436.8	7842.7	8619.2	9272.2	9614.5	9663.9	9741.6	9374.5	8576.9	7585.1
15°	7405.1	7433.3	7980.3	8629.8	8887.4	8795.7	8958.1	8954.5	9113.3	8538.1	7895.7
17.5°	7938.0	7969.8	8463.9	8785.1	8672.2	8456.9	8446.3	8608.6	8944.0	9021.6	8365.1
20°	8855.7	8929.8	9293.3	9275.7	8640.4	8206.2	8086.3	8209.8	8989.9	9431.0	9311.0
22.5°	10091.1	10193.4	10447.6	9960.5	8785.1	8036.9	7998.0	8238.0	9293.3	10345.2	10384.0
25°	11524.0	11697.0	11820.6	11195.8	9300.4	8329.8	8146.3	8559.2	9702.8	11337.0	11749.9
27.5°	12473.5	12653.5	12625.2	11732.3	9646.3	8407.5	8252.1	8636.9	10059.3	11573.4	12462.9
30°	13214.7	13324.2	13521.8	12021.7	9992.3	8626.3	8361.6	8965.1	10175.8	11982.9	13324.2
32.5°	14079.4	14153.6	14167.7	12533.5	10525.2	8901.6	8700.4	9374.5	10691.1	12374.7	14086.6
35°	14951.3	15060.7	14831.3	13165.3	10853.5	9413.4	9265.2	10084.0	11104.0	12780.6	14926.6
37.5°	15897.2	15953.7	15424.2	13426.5	11322.9	10246.3	10165.1	10849.9	11820.6	13514.7	15858.4
40°	16691.4	16744.3	16056.0	13747.7	11817.0	11411.1	11619.3	12311.2	12794.7	13991.2	16324.3
42.5°	17132.6	17256.1	16267.8	13571.2	12808.9	12731.2	13655.9	13899.4	13924.2	14125.3	16740.8
45°	17252.5	17196.1	15918.4	13715.9	13677.1	14901.9	15741.9	16063.1	15046.6	14372.4	16846.6
47.5°	16698.4	16772.6	15403.1	13588.9	14817.2	16546.7	17633.8	18230.3	15883.1	14157.1	16585.5
50°	16250.1	16154.9	15237.2	13497.1	15124.2	17323.2	18999.7	19133.9	16652.5	14421.8	16299.6
52.5°	16338.4	16398.4	15501.9	13740.6	15131.3	17369.1	19211.5	19119.7	16677.3	14361.9	16197.2
55°	16525.4	16260.7	15388.9	13204.1	14118.3	16087.8	17051.4	16910.2	15392.4	13723.0	15946.6
57.5°	14259.4	14668.9	14150.1	11788.8	11587.6	12120.5	12102.9	12537.1	11481.7	11810.0	14517.1
60°	11573.4	11644.1	11838.2	10084.0	8019.2	7835.6	7581.6	7306.3	7726.3	10098.1	13204.1
62.5°	10179.3	10094.6	10786.4	9173.4	5661.4	4740.2	4697.8	4867.3	5961.4	9632.2	12385.3
65°	7398.0	7503.9	8005.1	7119.1	4249.6	3617.9	3554.3	4055.5	4824.9	7719.2	9452.2
67.5°	4517.8	4722.6	4768.5	4390.8	2883.6	2290.7	2198.9	2654.2	3483.7	4994.4	5541.4
70°	2086.0	2333.0	2566.0	2396.6	1669.5	942.4	889.5	1115.4	1757.8	2873.1	2940.2
72.5°	631.8	635.3	889.5	928.2	540.0	211.8	187.1	247.0	596.5	949.5	998.9
75°	45.9	49.4	120.0	137.7	102.3	52.9	56.5	67.0	127.1	211.8	158.8
77.5°	3.5	3.5	3.5	17.6	31.8	35.3	45.9	52.9	67.0	77.7	70.6
80°	3.5	0.0	3.5	14.1	24.7	35.3	42.4	49.4	52.9	60.0	52.9
82.5°	0.0	0.0	0.0	10.6	24.7	35.3	38.8	52.9	60.0	70.6	60.0
85°	0.0	0.0	0.0	10.6	24.7	38.8	35.3	17.6	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°	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2
2.5°	9621.6	9483.9	9169.9	9011.0	8636.9	8584.0	8216.9	8156.8	8033.3	7966.2	7803.9
5°	8802.7	8636.9	8125.1	7694.5	7193.3	6843.8	6575.6	6332.0	6190.9	6060.3	6120.3
7.5°	8135.7	7652.1	7083.9	6363.8	5785.0	5410.8	5001.4	4666.1	4468.4	4334.3	4366.1
10°	7436.8	7122.7	6332.0	5523.8	4824.9	4560.2	4239.0	3981.4	3702.5	3462.5	3349.6
12.5°	7218.0	6752.0	5760.3	4937.9	4408.4	4150.8	3783.7	3487.2	3130.7	2837.7	2735.4
15°	7256.8	6808.6	5604.9	4726.1	4101.4	3656.6	3219.0	2851.9	2460.1	2255.4	2149.5
17.5°	7888.6	7112.1	5707.3	4503.7	3674.3	3056.6	2516.6	2050.7	1757.8	1546.0	1500.1
20°	8665.1	7768.6	5926.1	4341.3	3324.9	2431.8	1838.9	1436.6	1193.0	1157.7	1147.1
22.5°	9801.6	8841.6	6395.6	4232.0	2897.8	1895.4	1260.1	1044.8	977.7	970.6	974.1
25°	11389.9	10186.4	6907.4	4140.2	2576.6	1461.2	1030.7	885.9	864.7	854.2	871.8
27.5°	12078.2	10998.2	7179.2	3942.6	2283.6	1316.5	1016.5	878.8	818.9	801.2	811.8
30°	12928.8	11538.2	7606.2	3603.7	1853.0	1083.6	949.5	956.5	928.2	840.0	811.8
32.5°	14058.3	12212.3	7821.5	3363.7	1655.3	896.5	695.3	638.8	713.0	727.1	751.8
35°	14781.9	12897.0	7930.9	3222.5	1553.0	765.9	589.4	536.5	518.8	522.3	536.5
37.5°	16126.6	13821.8	8068.6	3074.3	1475.3	667.1	533.0	483.6	458.8	458.8	472.9
40°	16931.4	14556.0	8255.6	2993.1	1397.7	607.1	483.6	441.2	420.0	420.0	427.0
42.5°	17132.6	14919.5	8192.1	2964.8	1309.5	593.0	441.2	409.4	384.7	381.2	377.6
45°	17492.5	15473.6	8202.7	2933.0	1217.7	540.0	416.5	381.2	345.9	342.4	338.8
47.5°	17887.9	15872.5	8223.9	2809.6	1129.5	451.8	434.2	353.0	310.6	303.6	303.6
50°	17549.1	16190.2	8407.5	2686.0	1016.5	367.1	427.0	331.8	275.3	264.7	268.3
52.5°	17591.4	16564.3	8795.7	2513.0	875.3	292.9	345.9	314.1	250.6	232.9	236.5
55°	16913.7	16169.0	8848.6	2329.5	684.7	225.9	264.7	275.3	211.8	204.7	204.7
57.5°	14559.5	13691.2	7807.4	1888.4	451.8	187.1	190.6	240.0	183.5	176.5	180.0
60°	12459.4	10991.1	6282.6	1245.9	282.3	148.2	137.7	243.5	162.4	158.8	169.4
62.5°	11358.2	9032.2	4764.9	773.0	194.1	112.9	95.3	197.6	141.2	141.2	155.3
65°	8206.2	6067.3	2770.7	405.9	137.7	88.2	70.6	112.9	116.5	120.0	127.1
67.5°	5082.6	3063.6	1168.3	197.6	91.8	60.0	45.9	70.6	77.7	77.7	84.7
70°	2509.5	1221.2	388.3	112.9	70.6	49.4	31.8	38.8	38.8	35.3	38.8
72.5°	776.5	367.1	98.8	70.6	49.4	31.8	17.6	14.1	7.0	0.0	3.5
75°	88.2	70.6	63.5	49.4	31.8	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	52.9	60.0	60.0	49.4	31.8	10.6	0.0	0.0	0.0	0.0	0.0
80°	42.4	45.9	49.4	45.9	28.3	14.1	0.0	0.0	0.0	0.0	0.0
82.5°	52.9	60.0	67.0	60.0	38.8	17.6	7.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.6	3.5	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°	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2
2.5°	7736.8	7659.1	7768.6	7606.2	7602.7	7606.2	7560.3	7518.0	7585.1	7765.1	7782.7
5°	5905.0	6070.8	6123.8	6296.7	6201.4	6060.3	6088.5	5993.2	6226.2	6328.5	6247.3
7.5°	4299.0	4288.4	4644.9	4666.1	4712.0	4715.5	4708.4	4521.4	4330.8	4373.1	4500.2
10°	3335.4	3155.4	3328.4	3310.8	3423.7	3392.0	3437.8	3236.6	3303.7	3303.7	3384.8
12.5°	2717.8	2527.2	2495.4	2449.5	2495.4	2513.0	2530.7	2491.9	2604.8	2657.7	2714.3
15°	2075.4	1969.5	1941.3	1853.0	1867.1	1916.5	1958.9	1976.5	1941.3	2022.4	2029.5
17.5°	1507.1	1503.6	1521.2	1517.7	1503.6	1493.0	1489.5	1443.6	1429.4	1436.6	1464.8
20°	1143.6	1171.8	1231.8	1291.8	1323.6	1284.7	1231.8	1154.1	1122.4	1129.5	1133.0
22.5°	977.7	1020.0	1101.2	1168.3	1200.0	1129.5	1034.2	967.1	953.0	949.5	945.9
25°	885.9	935.4	995.3	1016.5	1013.0	970.6	900.1	871.8	864.7	857.7	825.9
27.5°	836.5	854.2	864.7	889.5	900.1	871.8	854.2	811.8	804.8	804.8	783.5
30°	808.3	797.7	811.8	794.1	808.3	787.1	790.6	790.6	773.0	780.0	780.0
32.5°	751.8	755.4	755.4	720.0	730.6	706.0	730.6	751.8	755.4	758.9	787.1
35°	550.6	614.1	645.9	645.9	656.5	638.8	635.3	610.6	578.9	547.1	533.0
37.5°	483.6	508.2	550.6	575.3	593.0	578.9	547.1	508.2	490.6	476.5	462.4
40°	430.6	451.8	480.1	508.2	543.6	525.9	476.5	458.8	437.7	437.7	423.5
42.5°	388.3	398.9	416.5	458.8	497.7	462.4	427.0	413.0	402.4	398.9	395.3
45°	349.5	353.0	370.6	405.9	451.8	416.5	381.2	363.5	367.1	370.6	367.1
47.5°	314.1	321.2	331.8	374.1	402.4	384.7	345.9	335.3	335.3	335.3	338.8
50°	271.8	289.4	310.6	345.9	367.1	356.5	324.7	310.6	303.6	303.6	307.1
52.5°	243.5	257.7	285.9	328.2	356.5	338.8	307.1	285.9	271.8	268.3	275.3
55°	211.8	236.5	282.3	314.1	353.0	335.3	300.0	275.3	250.6	247.0	247.0
57.5°	190.6	229.4	271.8	310.6	342.4	328.2	300.0	268.3	236.5	232.9	232.9
60°	180.0	222.4	264.7	300.0	342.4	321.2	296.5	261.2	225.9	225.9	222.4
62.5°	169.4	208.3	250.6	285.9	328.2	310.6	285.9	250.6	215.3	215.3	208.3
65°	141.2	180.0	208.3	240.0	285.9	268.3	243.5	218.8	190.6	183.5	187.1
67.5°	98.8	123.6	151.7	183.5	211.8	204.7	194.1	176.5	151.7	148.2	144.7
70°	49.4	67.0	91.8	123.6	148.2	141.2	134.1	120.0	105.9	102.3	102.3
72.5°	7.0	21.1	38.8	56.5	77.7	81.2	77.7	74.2	70.6	67.0	70.6
75°	0.0	0.0	0.0	14.1	31.8	38.8	45.9	52.9	52.9	45.9	56.5
77.5°	0.0	0.0	0.0	0.0	3.5	17.6	35.3	45.9	56.5	49.4	67.0
80°	0.0	0.0	0.0	0.0	3.5	21.1	35.3	49.4	56.5	49.4	70.6
82.5°	0.0	0.0	0.0	0.0	3.5	24.7	35.3	45.9	52.9	49.4	63.5
85°	0.0	0.0	0.0	0.0	10.6	21.1	14.1	7.0	3.5	3.5	10.6
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°	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2	9099.2
2.5°	7881.5	8132.2	8400.4	8502.8	8820.4	9060.4	9222.8	9572.2	9625.2	9628.7
5°	6332.0	6459.1	6918.0	7133.3	7606.2	7973.3	8365.1	8929.8	9307.5	9335.7
7.5°	4500.2	4853.2	5047.3	5608.5	6190.9	6766.2	7348.6	8005.1	8442.8	8453.3
10°	3621.4	3850.8	4196.6	4616.6	5107.3	5693.2	6469.7	7232.1	7676.8	7786.2
12.5°	2915.4	3317.8	3713.1	4147.2	4521.4	4962.6	5799.1	6815.6	7182.7	7401.5
15°	2244.8	2611.9	3077.8	3586.1	4009.6	4599.0	5552.0	6713.3	7330.9	7405.1
17.5°	1655.3	1983.7	2414.2	2894.3	3529.6	4366.1	5594.4	7232.1	7814.5	7938.0
20°	1189.5	1380.0	1718.9	2276.6	3084.9	4094.3	5636.7	7758.0	8643.9	8855.7
22.5°	942.4	1020.0	1242.4	1736.5	2587.2	3808.4	5936.7	8764.0	9784.0	10091.1
25°	818.9	861.2	967.1	1369.5	2273.0	3780.2	6416.8	9971.0	11301.7	11524.0
27.5°	790.6	797.7	889.5	1256.6	2103.6	3593.1	6600.3	10828.7	12247.6	12473.5
30°	833.0	945.9	953.0	1062.4	1789.5	3222.5	6695.6	11658.2	13048.9	13214.7
32.5°	720.0	684.7	709.5	822.4	1574.2	3007.2	6875.6	12381.7	13963.0	14079.4
35°	501.2	525.9	582.4	713.0	1376.5	2781.3	6921.5	13179.5	14831.3	14951.3
37.5°	462.4	476.5	522.3	607.1	1210.7	2654.2	6858.0	13761.8	15731.3	15897.2
40°	430.6	448.3	472.9	550.6	1087.1	2513.0	6769.7	14287.7	16281.9	16691.4
42.5°	405.9	420.0	441.2	525.9	981.3	2371.9	6646.2	15028.9	16776.1	17132.6
45°	377.6	398.9	423.5	511.8	921.2	2276.6	6554.4	14983.0	17062.0	17252.5
47.5°	349.5	384.7	413.0	476.5	903.6	2230.7	6593.3	14810.1	16829.0	16698.4
50°	321.2	367.1	416.5	395.3	861.2	2138.9	6639.1	15046.6	16274.9	16250.1
52.5°	296.5	349.5	388.3	324.7	765.9	2050.7	7083.9	15357.2	16666.6	16338.4
55°	261.2	314.1	310.6	261.2	621.2	1983.7	7433.3	15364.3	16401.9	16525.4
57.5°	236.5	278.8	243.5	218.8	458.8	1658.9	6865.0	12882.9	14040.7	14259.4
60°	218.8	271.8	183.5	173.0	300.0	1196.5	5993.2	9978.1	11160.5	11573.4
62.5°	201.2	257.7	144.7	141.2	208.3	850.7	4927.3	8351.0	9618.1	10179.3
65°	176.5	183.5	116.5	109.4	148.2	458.8	3000.1	5749.6	7189.7	7398.0
67.5°	144.7	141.2	95.3	88.2	98.8	222.4	1323.6	2880.1	4168.5	4517.8
70°	116.5	116.5	81.2	70.6	70.6	102.3	345.9	1147.1	1884.8	2086.0
72.5°	84.7	88.2	63.5	56.5	52.9	49.4	56.5	229.4	494.2	631.8
75°	74.2	77.7	63.5	49.4	38.8	31.8	24.7	21.1	28.3	45.9
77.5°	81.2	81.2	67.0	45.9	35.3	24.7	14.1	7.0	7.0	3.5
80°	102.3	105.9	88.2	60.0	42.4	28.3	17.6	7.0	3.5	3.5
82.5°	109.4	120.0	98.8	74.2	52.9	31.8	17.6	3.5	0.0	0.0
85°	28.3	45.9	77.7	67.0	52.9	31.8	17.6	3.5	0.0	0.0
87.5°	0.0	3.5	10.6	10.6	14.1	14.1	10.6	3.5	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)