

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: P531745

Luminaire Tested: **GALN-SA7A-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531745
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-SA7A-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 17609 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

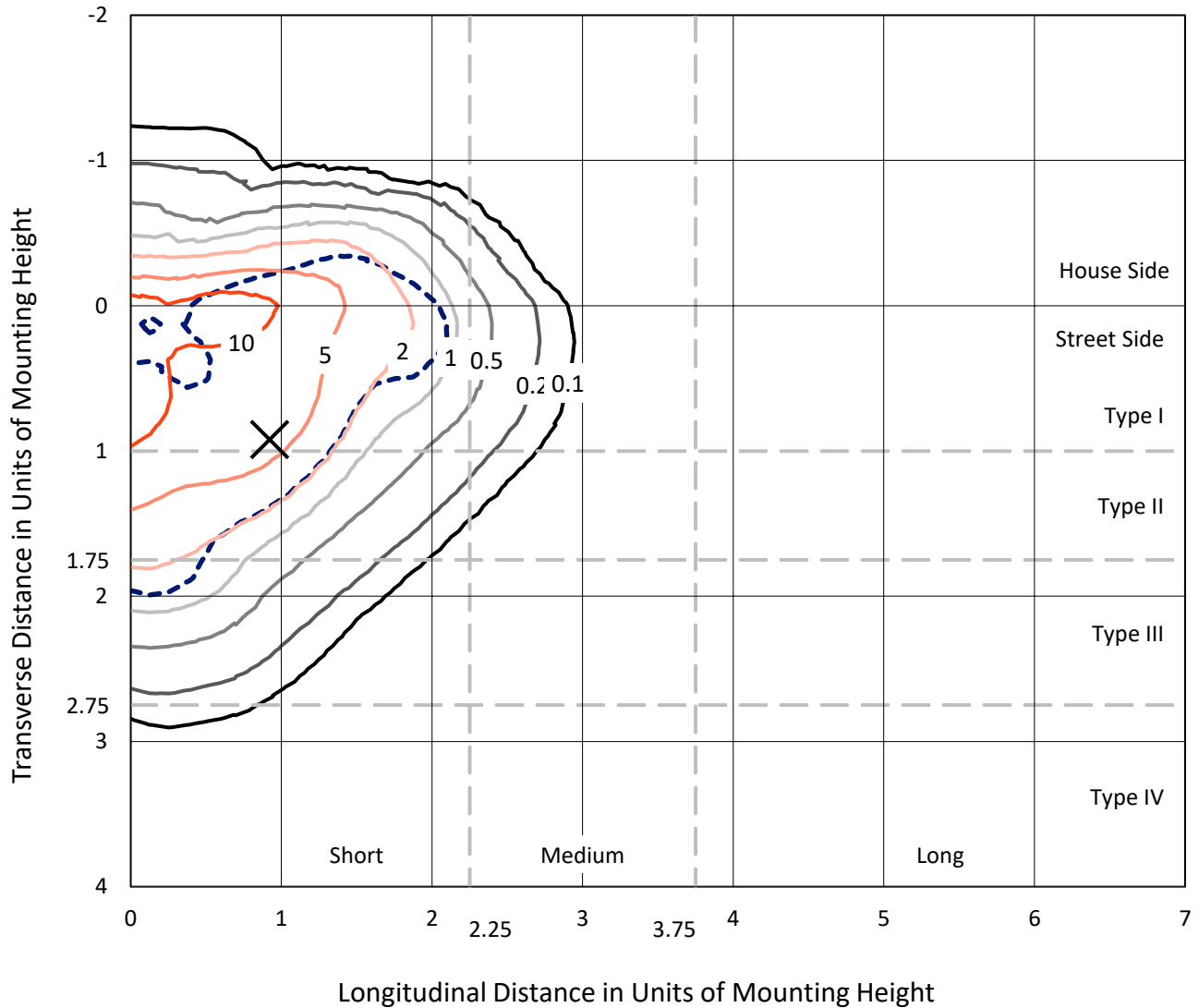
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

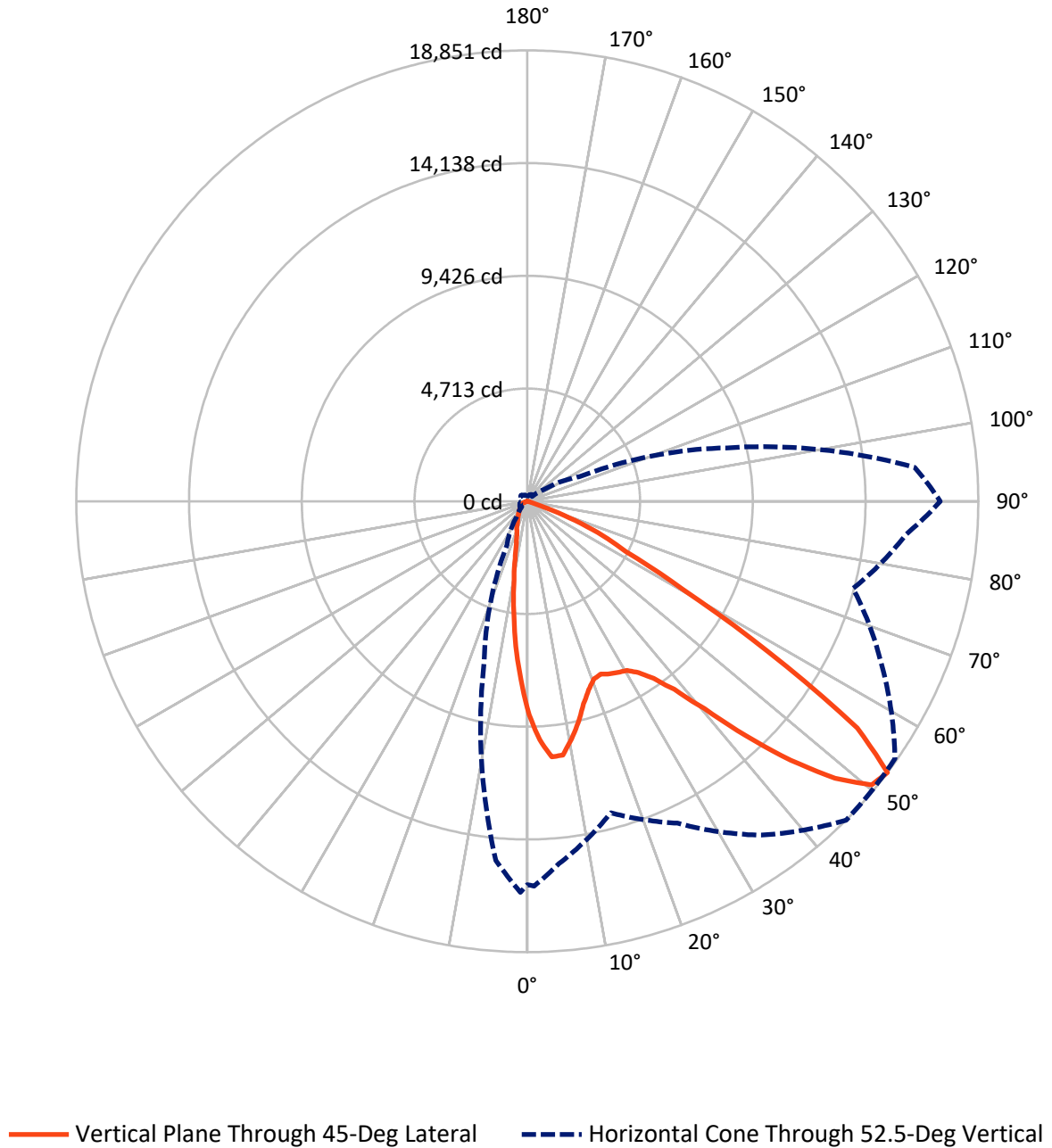
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	3573.8	0.0	3573.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14035.3	0.0	14035.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	17609.0	0.0	17609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.2	3.7
10°-20°	1284.7	7.3
20°-30°	1955.1	11.1
30°-40°	2922.1	16.6
40°-50°	4161.4	23.6
50°-60°	4473.3	25.4
60°-70°	1982.2	11.3
70°-80°	160.4	0.9
80°-90°	18.7	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°	17609.0	100.0
0°-180°	17609.0	100.0

Coefficient of Utilization



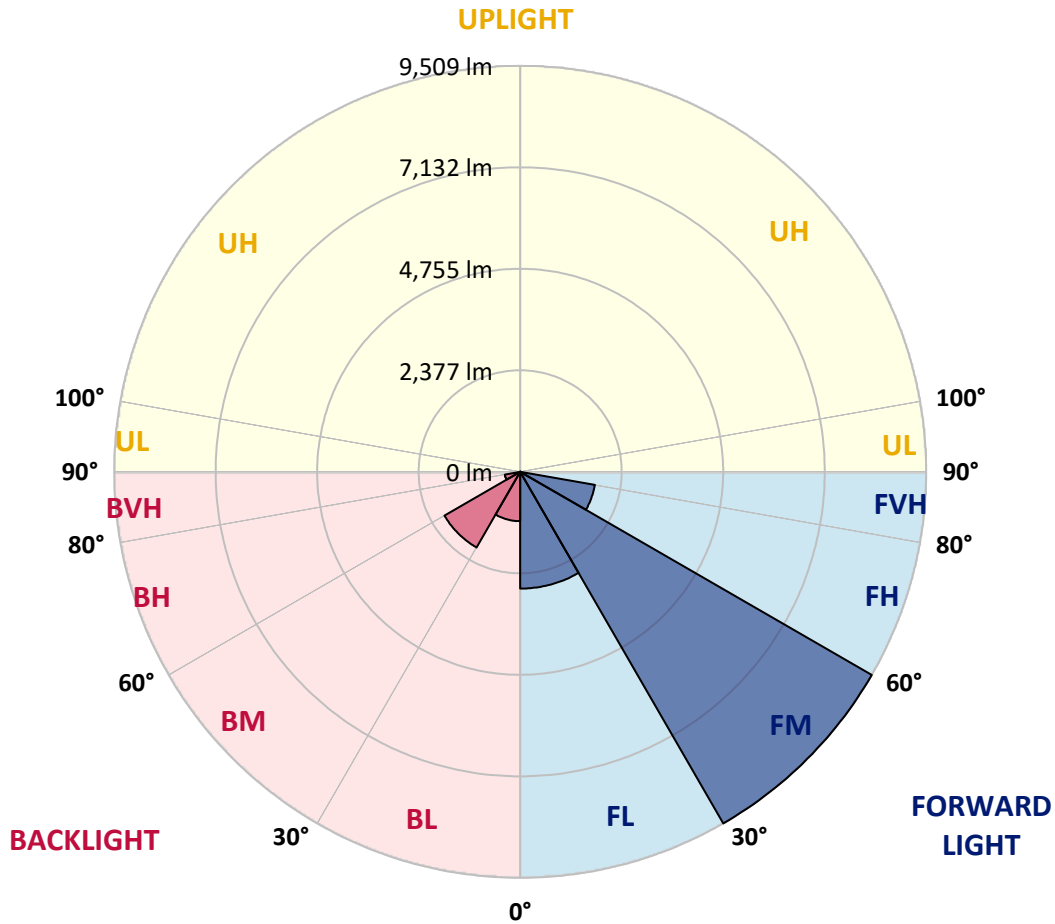
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.0	15.5			
FM (30°-60°)	9509.4	54.0			
FH (60°-80°)	1777.0	10.1			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1155.9	6.6	B3/2500		
BM (30°-60°)	2047.4	11.6	B2/2500		
BH (60°-80°)	365.7	2.1	B1/500		G1/500
BVH (80°-90°)	4.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6
2.5°	9448.1	9475.8	9628.2	9818.7	9919.1	10147.7	9988.4	10029.9	9943.4	9638.6	9399.6
5°	9160.6	9157.2	9351.1	9822.1	10268.9	10722.6	10736.5	10494.0	10068.0	9600.5	8932.0
7.5°	8294.8	8429.9	8630.7	9382.3	10210.0	10549.4	10712.2	10428.2	9773.6	9105.2	8381.4
10°	7640.2	7709.5	8048.9	8956.3	9562.4	10016.1	10116.5	9953.7	9451.6	8616.9	7806.4
12.5°	7262.7	7297.3	7695.6	8457.6	9098.3	9434.2	9482.7	9558.9	9198.7	8416.0	7442.8
15°	7266.2	7293.9	7830.7	8468.0	8720.8	8630.7	8790.0	8786.6	8942.4	8377.9	7747.6
17.5°	7789.1	7820.3	8305.2	8620.3	8509.5	8298.2	8287.9	8447.2	8776.2	8852.4	8208.2
20°	8689.6	8762.3	9119.1	9101.8	8478.3	8052.3	7934.6	8055.8	8821.2	9254.1	9136.4
22.5°	9901.8	10002.2	10251.6	9773.6	8620.3	7886.1	7848.0	8083.5	9119.1	10151.2	10189.3
25°	11307.9	11477.6	11598.8	10985.8	9126.0	8173.6	7993.5	8398.7	9520.8	11124.4	11529.6
27.5°	12239.6	12416.2	12388.5	11512.3	9465.4	8249.8	8097.4	8474.9	9870.6	11356.4	12229.2
30°	12966.9	13074.2	13268.2	11796.3	9804.8	8464.5	8204.7	8797.0	9984.9	11758.2	13074.2
32.5°	13815.4	13888.1	13902.0	12298.4	10327.8	8734.6	8537.2	9198.7	10490.6	12142.6	13822.3
35°	14670.9	14778.2	14553.1	12918.4	10649.9	9236.8	9091.4	9894.9	10895.8	12540.9	14646.6
37.5°	15599.0	15654.5	15135.0	13174.7	11110.5	10054.2	9974.5	10646.4	11598.8	13261.3	15560.9
40°	16378.3	16430.3	15754.9	13489.8	11595.4	11197.1	11401.4	12080.3	12554.7	13728.8	16018.1
42.5°	16811.2	16932.4	15962.7	13316.7	12568.6	12492.4	13399.8	13638.8	13663.0	13860.4	16426.8
45°	16929.0	16873.6	15619.8	13458.7	13420.6	14622.4	15446.7	15761.8	14764.4	14102.9	16530.7
47.5°	16385.2	16458.0	15114.2	13334.0	14539.2	16236.3	17303.0	17888.3	15585.2	13891.6	16274.4
50°	15945.4	15851.9	14951.4	13243.9	14840.6	16998.2	18643.3	18775.0	16340.2	14151.4	15993.9
52.5°	16032.0	16090.8	15211.1	13482.9	14847.5	17043.3	18851.2	18761.1	16364.4	14092.5	15893.4
55°	16215.5	15955.8	15100.3	12956.5	13853.5	15786.1	16731.6	16593.0	15103.8	13465.6	15647.5
57.5°	13992.0	14393.8	13884.7	11567.7	11370.3	11893.2	11875.9	12301.9	11266.4	11588.5	14244.9
60°	11356.4	11425.7	11616.2	9894.9	7868.8	7688.7	7439.3	7169.2	7581.3	9908.7	12956.5
62.5°	9988.4	9905.3	10584.1	9001.3	5555.3	4651.3	4609.8	4776.0	5849.6	9451.6	12153.0
65°	7259.2	7363.1	7854.9	6985.6	4169.9	3550.0	3487.6	3979.4	4734.4	7574.4	9274.9
67.5°	4433.1	4634.0	4679.0	4308.4	2829.6	2247.7	2157.7	2604.5	3418.4	4900.7	5437.5
70°	2046.9	2289.3	2517.9	2351.6	1638.2	924.7	872.8	1094.4	1724.8	2819.2	2885.0
72.5°	619.9	623.4	872.8	910.9	529.9	207.8	183.6	242.4	585.3	931.6	980.1
75°	45.0	48.5	117.8	135.1	100.4	52.0	55.4	65.8	124.7	207.8	155.9
77.5°	3.5	3.5	3.5	17.3	31.2	34.6	45.0	52.0	65.8	76.2	69.3
80°	3.5	0.0	3.5	13.9	24.2	34.6	41.6	48.5	52.0	58.9	52.0
82.5°	0.0	0.0	0.0	10.4	24.2	34.6	38.1	52.0	58.9	69.3	58.9
85°	0.0	0.0	0.0	10.4	24.2	38.1	34.6	17.3	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°	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6
2.5°	9441.2	9306.1	8997.8	8842.0	8474.9	8422.9	8062.7	8003.9	7882.6	7816.8	7657.5
5°	8637.7	8474.9	7972.7	7550.2	7058.4	6715.5	6452.3	6213.3	6074.8	5946.6	6005.5
7.5°	7983.1	7508.6	6951.0	6244.5	5676.5	5309.4	4907.6	4578.6	4384.6	4253.0	4284.2
10°	7297.3	6989.1	6213.3	5420.2	4734.4	4474.7	4159.5	3906.7	3633.1	3397.6	3286.7
12.5°	7082.6	6625.4	5652.2	4845.3	4325.8	4072.9	3712.7	3421.8	3072.0	2784.6	2684.1
15°	7120.7	6680.9	5499.8	4637.5	4024.4	3588.1	3158.6	2798.4	2414.0	2213.1	2109.2
17.5°	7740.6	6978.7	5600.3	4419.3	3605.4	2999.3	2469.4	2012.2	1724.8	1517.0	1471.9
20°	8502.6	7622.9	5815.0	4260.0	3262.5	2386.3	1804.4	1409.6	1170.6	1136.0	1125.6
22.5°	9617.8	8675.8	6275.6	4152.6	2843.4	1859.8	1236.4	1025.2	959.4	952.4	955.9
25°	11176.3	9995.3	6777.8	4062.5	2528.3	1433.8	1011.3	869.3	848.5	838.1	855.5
27.5°	11851.7	10791.9	7044.5	3868.6	2240.8	1291.8	997.5	862.4	803.5	786.2	796.6
30°	12686.3	11321.8	7463.6	3536.1	1818.3	1063.3	931.6	938.6	910.9	824.3	796.6
32.5°	13794.6	11983.3	7674.8	3300.6	1624.3	879.7	682.3	626.9	699.6	713.5	737.7
35°	14504.6	12655.2	7782.2	3162.1	1523.9	751.6	578.4	526.4	509.1	512.6	526.4
37.5°	15824.2	13562.6	7917.3	3016.6	1447.7	654.6	523.0	474.5	450.2	450.2	464.1
40°	16613.8	14283.0	8100.8	2936.9	1371.5	595.7	474.5	432.9	412.1	412.1	419.1
42.5°	16811.2	14639.7	8038.5	2909.2	1284.9	581.8	432.9	401.8	377.5	374.0	370.6
45°	17164.5	15183.4	8048.9	2878.1	1194.9	529.9	408.7	374.0	339.4	335.9	332.5
47.5°	17552.4	15574.8	8069.7	2756.8	1108.3	443.3	426.0	346.3	304.8	297.9	297.9
50°	17219.9	15886.5	8249.8	2635.6	997.5	360.2	419.1	325.6	270.1	259.8	263.2
52.5°	17261.5	16253.6	8630.7	2465.9	858.9	287.5	339.4	308.2	245.9	228.6	232.0
55°	16596.5	15865.7	8682.7	2285.8	671.9	221.7	259.8	270.1	207.8	200.9	200.9
57.5°	14286.4	13434.4	7661.0	1852.9	443.3	183.6	187.0	235.5	180.1	173.2	176.6
60°	12225.7	10785.0	6164.8	1222.6	277.1	145.5	135.1	239.0	159.3	155.9	166.2
62.5°	11145.1	8862.8	4675.6	758.5	190.5	110.8	93.5	193.9	138.5	138.5	152.4
65°	8052.3	5953.5	2718.7	398.3	135.1	86.6	69.3	110.8	114.3	117.8	124.7
67.5°	4987.3	3006.2	1146.4	193.9	90.0	58.9	45.0	69.3	76.2	76.2	83.1
70°	2462.5	1198.3	381.0	110.8	69.3	48.5	31.2	38.1	38.1	34.6	38.1
72.5°	761.9	360.2	97.0	69.3	48.5	31.2	17.3	13.9	6.9	0.0	3.5
75°	86.6	69.3	62.3	48.5	31.2	13.9	3.5	0.0	0.0	0.0	0.0
77.5°	52.0	58.9	58.9	48.5	31.2	10.4	0.0	0.0	0.0	0.0	0.0
80°	41.6	45.0	48.5	45.0	27.7	13.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.0	58.9	65.8	58.9	38.1	17.3	6.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.4	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°	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6
2.5°	7591.7	7515.5	7622.9	7463.6	7460.1	7463.6	7418.5	7377.0	7442.8	7619.4	7636.7
5°	5794.2	5957.0	6009.0	6178.7	6085.2	5946.6	5974.3	5880.8	6109.4	6209.8	6130.2
7.5°	4218.4	4208.0	4557.8	4578.6	4623.6	4627.1	4620.1	4436.6	4249.6	4291.1	4415.8
10°	3272.9	3096.3	3266.0	3248.6	3359.5	3328.3	3373.3	3175.9	3241.7	3241.7	3321.4
12.5°	2666.8	2479.8	2448.6	2403.6	2448.6	2465.9	2483.2	2445.1	2556.0	2607.9	2663.3
15°	2036.5	1932.6	1904.9	1818.3	1832.1	1880.6	1922.2	1939.5	1904.9	1984.5	1991.4
17.5°	1478.9	1475.4	1492.7	1489.3	1475.4	1465.0	1461.5	1416.5	1402.7	1409.6	1437.3
20°	1122.1	1149.8	1208.7	1267.6	1298.8	1260.7	1208.7	1132.5	1101.4	1108.3	1111.7
22.5°	959.4	1000.9	1080.6	1146.4	1177.5	1108.3	1014.8	949.0	935.1	931.6	928.2
25°	869.3	917.8	976.7	997.5	994.0	952.4	883.2	855.5	848.5	841.6	810.4
27.5°	820.8	838.1	848.5	872.8	883.2	855.5	838.1	796.6	789.6	789.6	768.9
30°	793.1	782.7	796.6	779.3	793.1	772.3	775.8	775.8	758.5	765.4	765.4
32.5°	737.7	741.2	741.2	706.5	716.9	692.7	716.9	737.7	741.2	744.6	772.3
35°	540.3	602.6	633.8	633.8	644.2	626.9	623.4	599.2	568.0	536.8	523.0
37.5°	474.5	498.7	540.3	564.5	581.8	568.0	536.8	498.7	481.4	467.6	453.7
40°	422.5	443.3	471.0	498.7	533.4	516.0	467.6	450.2	429.5	429.5	415.6
42.5°	381.0	391.4	408.7	450.2	488.3	453.7	419.1	405.2	394.8	391.4	387.9
45°	342.9	346.3	363.7	398.3	443.3	408.7	374.0	356.7	360.2	363.7	360.2
47.5°	308.2	315.2	325.6	367.1	394.8	377.5	339.4	329.0	329.0	329.0	332.5
50°	266.7	284.0	304.8	339.4	360.2	349.8	318.6	304.8	297.9	297.9	301.3
52.5°	239.0	252.8	280.5	322.1	349.8	332.5	301.3	280.5	266.7	263.2	270.1
55°	207.8	232.0	277.1	308.2	346.3	329.0	294.4	270.1	245.9	242.4	242.4
57.5°	187.0	225.1	266.7	304.8	335.9	322.1	294.4	263.2	232.0	228.6	228.6
60°	176.6	218.2	259.8	294.4	335.9	315.2	290.9	256.3	221.7	221.7	218.2
62.5°	166.2	204.3	245.9	280.5	322.1	304.8	280.5	245.9	211.3	211.3	204.3
65°	138.5	176.6	204.3	235.5	280.5	263.2	239.0	214.7	187.0	180.1	183.6
67.5°	97.0	121.2	148.9	180.1	207.8	200.9	190.5	173.2	148.9	145.5	142.0
70°	48.5	65.8	90.0	121.2	145.5	138.5	131.6	117.8	103.9	100.4	100.4
72.5°	6.9	20.8	38.1	55.4	76.2	79.7	76.2	72.7	69.3	65.8	69.3
75°	0.0	0.0	0.0	13.9	31.2	38.1	45.0	52.0	52.0	45.0	55.4
77.5°	0.0	0.0	0.0	0.0	3.5	17.3	34.6	45.0	55.4	48.5	65.8
80°	0.0	0.0	0.0	0.0	3.5	20.8	34.6	48.5	55.4	48.5	69.3
82.5°	0.0	0.0	0.0	0.0	3.5	24.2	34.6	45.0	52.0	48.5	62.3
85°	0.0	0.0	0.0	0.0	10.4	20.8	13.9	6.9	3.5	3.5	10.4
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°	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6	8928.6
2.5°	7733.7	7979.6	8242.8	8343.3	8655.0	8890.5	9049.8	9392.7	9444.6	9448.1
5°	6213.3	6338.0	6788.2	6999.5	7463.6	7823.8	8208.2	8762.3	9132.9	9160.6
7.5°	4415.8	4762.1	4952.6	5503.3	6074.8	6639.3	7210.7	7854.9	8284.4	8294.8
10°	3553.4	3778.5	4118.0	4530.1	5011.5	5586.4	6348.4	7096.5	7532.8	7640.2
12.5°	2860.7	3255.6	3643.5	4069.5	4436.6	4869.5	5690.3	6687.8	7048.0	7262.7
15°	2202.7	2562.9	3020.1	3518.8	3934.4	4512.8	5447.9	6587.3	7193.4	7266.2
17.5°	1624.3	1946.4	2368.9	2840.0	3463.4	4284.2	5489.4	7096.5	7667.9	7789.1
20°	1167.2	1354.2	1686.7	2233.9	3027.0	4017.5	5531.0	7612.5	8481.8	8689.6
22.5°	924.7	1000.9	1219.1	1704.0	2538.7	3737.0	5825.4	8599.6	9600.5	9901.8
25°	803.5	845.1	949.0	1343.8	2230.4	3709.3	6296.4	9784.0	11089.7	11307.9
27.5°	775.8	782.7	872.8	1233.0	2064.2	3525.7	6476.5	10625.6	12017.9	12239.6
30°	817.4	928.2	935.1	1042.5	1755.9	3162.1	6570.0	11439.5	12804.1	12966.9
32.5°	706.5	671.9	696.1	807.0	1544.7	2950.8	6746.7	12149.5	13701.1	13815.4
35°	491.8	516.0	571.5	699.6	1350.7	2729.1	6791.7	12932.2	14553.1	14670.9
37.5°	453.7	467.6	512.6	595.7	1187.9	2604.5	6729.3	13503.7	15436.3	15599.0
40°	422.5	439.8	464.1	540.3	1066.7	2465.9	6642.8	14019.7	15976.6	16378.3
42.5°	398.3	412.1	432.9	516.0	962.8	2327.4	6521.5	14747.1	16461.4	16811.2
45°	370.6	391.4	415.6	502.2	903.9	2233.9	6431.5	14702.0	16742.0	16929.0
47.5°	342.9	377.5	405.2	467.6	886.6	2188.9	6469.6	14532.3	16513.4	16385.2
50°	315.2	360.2	408.7	387.9	845.1	2098.8	6514.6	14764.4	15969.6	15945.4
52.5°	290.9	342.9	381.0	318.6	751.6	2012.2	6951.0	15069.1	16354.1	16032.0
55°	256.3	308.2	304.8	256.3	609.6	1946.4	7293.9	15076.1	16094.3	16215.5
57.5°	232.0	273.6	239.0	214.7	450.2	1627.8	6736.3	12641.3	13777.3	13992.0
60°	214.7	266.7	180.1	169.7	294.4	1174.1	5880.8	9791.0	10951.2	11356.4
62.5°	197.4	252.8	142.0	138.5	204.3	834.7	4834.9	8194.3	9437.7	9988.4
65°	173.2	180.1	114.3	107.4	145.5	450.2	2943.9	5641.8	7054.9	7259.2
67.5°	142.0	138.5	93.5	86.6	97.0	218.2	1298.8	2826.1	4090.2	4433.1
70°	114.3	114.3	79.7	69.3	69.3	100.4	339.4	1125.6	1849.4	2046.9
72.5°	83.1	86.6	62.3	55.4	52.0	48.5	55.4	225.1	484.9	619.9
75°	72.7	76.2	62.3	48.5	38.1	31.2	24.2	20.8	27.7	45.0
77.5°	79.7	79.7	65.8	45.0	34.6	24.2	13.9	6.9	6.9	3.5
80°	100.4	103.9	86.6	58.9	41.6	27.7	17.3	6.9	3.5	3.5
82.5°	107.4	117.8	97.0	72.7	52.0	31.2	17.3	3.5	0.0	0.0
85°	27.7	45.0	76.2	65.8	52.0	31.2	17.3	3.5	0.0	0.0
87.5°	0.0	3.5	10.4	10.4	13.9	13.9	10.4	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)