

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: P531589

Luminaire Tested: **GALN-SA6D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531589
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-SA6D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 18643 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

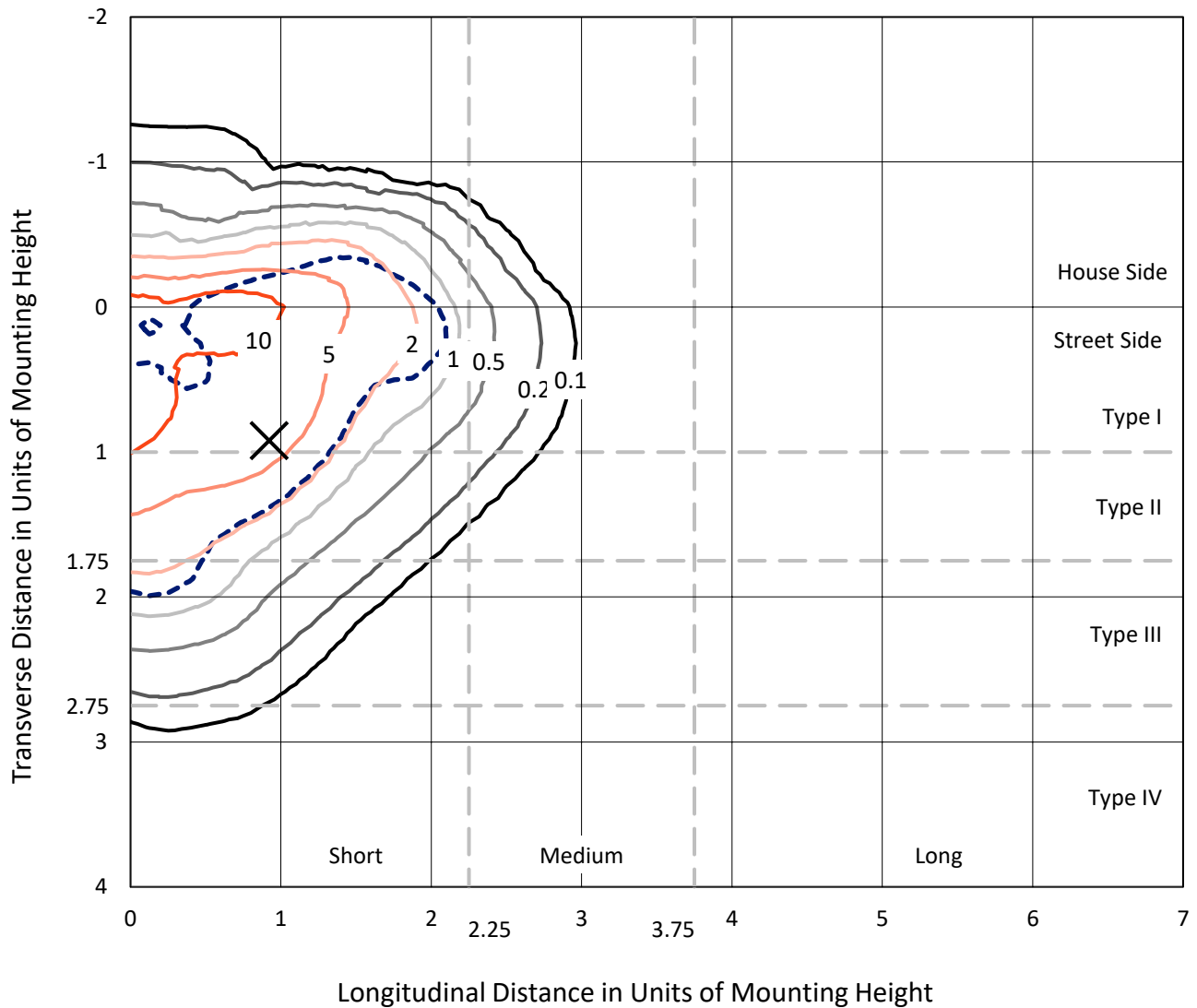
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

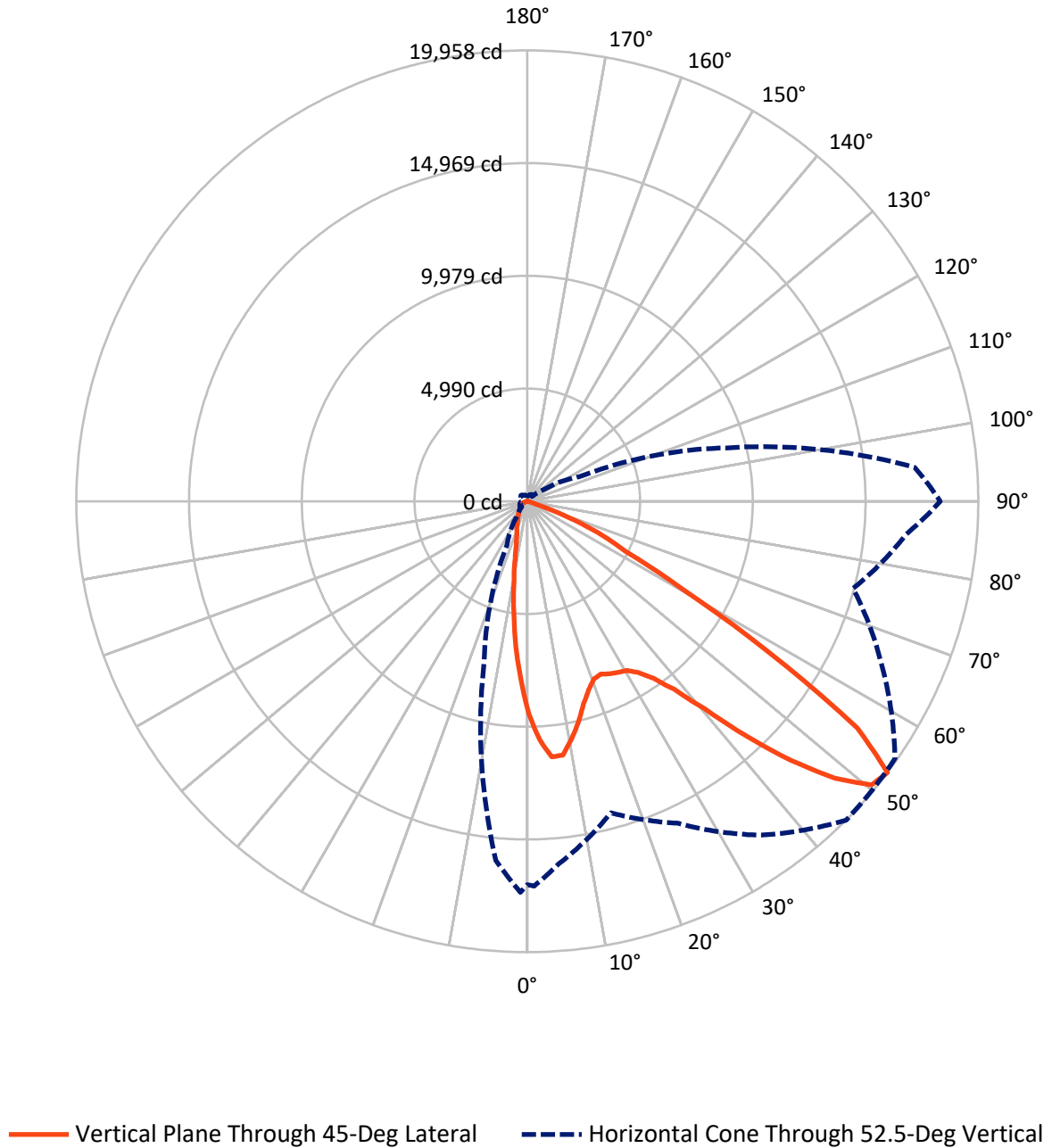
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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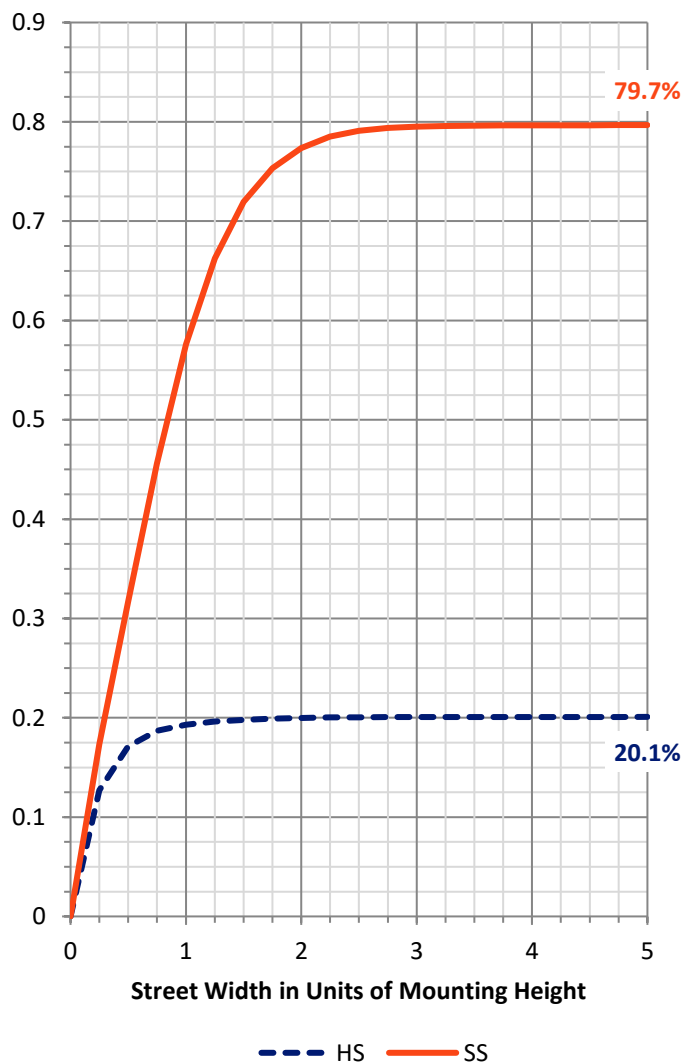
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3783.6	0.0	3783.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14859.4	0.0	14859.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	18643.0	0.0	18643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.4	3.7
10°-20°	1360.1	7.3
20°-30°	2069.9	11.1
30°-40°	3093.7	16.6
40°-50°	4405.7	23.6
50°-60°	4736.0	25.4
60°-70°	2098.6	11.3
70°-80°	169.8	0.9
80°-90°	19.8	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°	18643.0	100.0
0°-180°	18643.0	100.0

Coefficient of Utilization



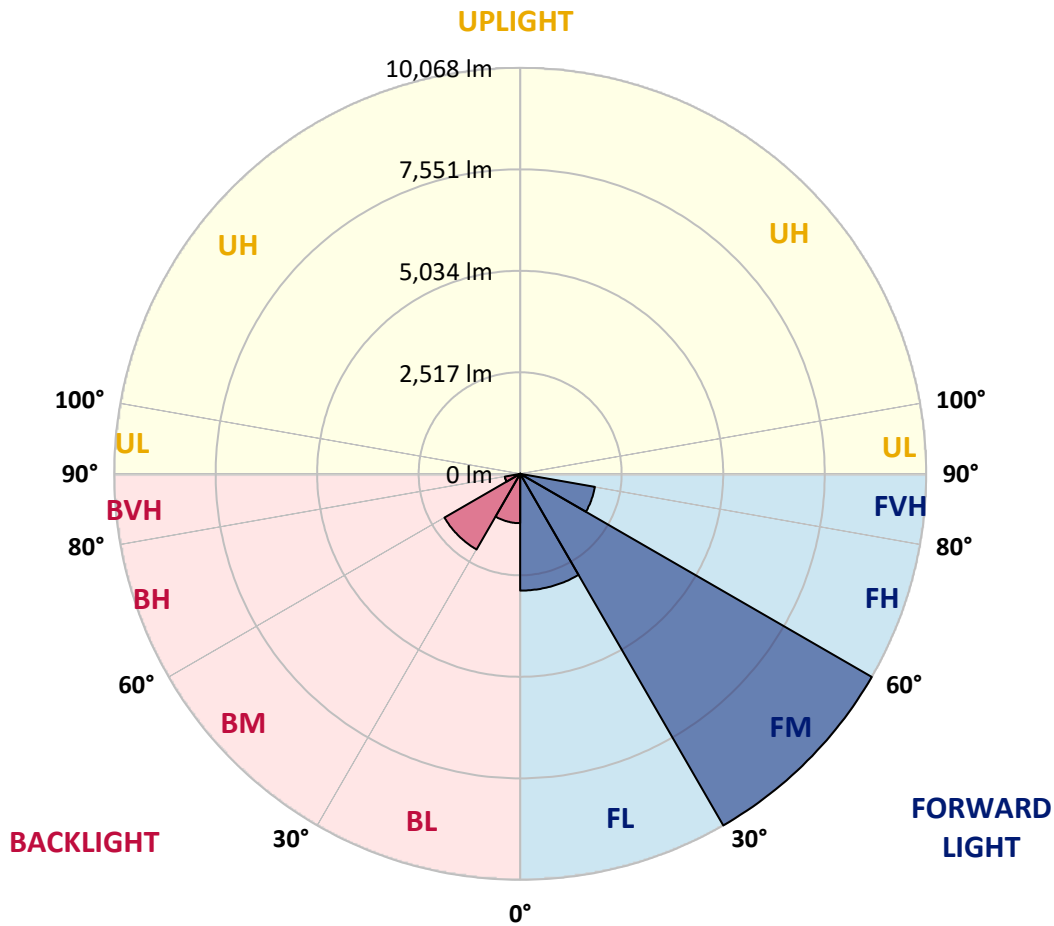
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2895.6	15.5			
FM (30°-60°)	10067.8	54.0			
FH (60°-80°)	1881.3	10.1			G2/5000
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	1223.8	6.6	B3/2500		
BM (30°-60°)	2167.6	11.6	B2/2500		
BH (60°-80°)	387.1	2.1	B1/500		G1/500
BVH (80°-90°)	5.1	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°	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9
2.5°	10002.9	10032.2	10193.5	10395.2	10501.6	10743.6	10574.9	10618.9	10527.2	10204.6	9951.5
5°	9698.5	9694.9	9900.2	10398.9	10871.9	11352.2	11366.9	11110.2	10659.2	10164.2	9456.5
7.5°	8781.9	8924.9	9137.5	9933.2	10809.6	11168.9	11341.2	11040.6	10347.6	9639.9	8873.5
10°	8088.8	8162.2	8521.5	9482.2	10123.9	10604.2	10710.6	10538.2	10006.5	9122.9	8264.8
12.5°	7689.2	7725.8	8147.5	8954.2	9632.5	9988.2	10039.5	10120.2	9738.9	8910.2	7879.8
15°	7692.8	7722.2	8290.5	8965.2	9232.9	9137.5	9306.2	9302.5	9467.5	8869.9	8202.5
17.5°	8246.5	8279.5	8792.9	9126.5	9009.2	8785.5	8774.5	8943.2	9291.5	9372.2	8690.2
20°	9199.9	9276.9	9654.5	9636.2	8976.2	8525.2	8400.5	8528.8	9339.2	9797.5	9672.9
22.5°	10483.2	10589.6	10853.6	10347.6	9126.5	8349.2	8308.8	8558.2	9654.5	10747.2	10787.6
25°	11971.9	12151.6	12279.9	11630.9	9661.9	8653.5	8462.8	8891.9	10079.9	11777.6	12206.6
27.5°	12958.3	13145.3	13115.9	12188.3	10021.2	8734.2	8572.8	8972.5	10450.2	12023.3	12947.3
30°	13728.3	13842.0	14047.3	12488.9	10380.6	8961.5	8686.5	9313.5	10571.2	12448.6	13842.0
32.5°	14626.6	14703.6	14718.3	13020.6	10934.2	9247.5	9038.5	9738.9	11106.6	12855.6	14634.0
35°	15532.3	15646.0	15407.7	13677.0	11275.2	9779.2	9625.2	10475.9	11535.6	13277.3	15506.7
37.5°	16515.0	16573.7	16023.7	13948.3	11762.9	10644.6	10560.2	11271.6	12279.9	14040.0	16474.7
40°	17340.0	17395.0	16680.0	14282.0	12276.3	11854.6	12070.9	12789.6	13291.9	14535.0	16958.7
42.5°	17798.4	17926.7	16900.0	14098.6	13306.6	13225.9	14186.6	14439.6	14465.3	14674.3	17391.4
45°	17923.0	17864.4	16537.0	14249.0	14208.6	15481.0	16353.7	16687.4	15631.3	14931.0	17501.4
47.5°	17347.4	17424.4	16001.7	14117.0	15393.0	17189.7	18319.1	18938.7	16500.4	14707.3	17230.0
50°	16881.7	16782.7	15829.3	14021.6	15712.0	17996.4	19738.1	19877.4	17299.7	14982.3	16933.0
52.5°	16973.4	17035.7	16104.3	14274.6	15719.3	18044.1	19958.1	19862.8	17325.4	14920.0	16826.7
55°	17167.7	16892.7	15987.0	13717.3	14667.0	16713.0	17714.0	17567.4	15990.7	14256.3	16566.4
57.5°	14813.6	15239.0	14700.0	12246.9	12037.9	12591.6	12573.3	13024.3	11927.9	12268.9	15081.3
60°	12023.3	12096.6	12298.3	10475.9	8330.8	8140.2	7876.2	7590.2	8026.5	10490.6	13717.3
62.5°	10574.9	10486.9	11205.6	9529.9	5881.5	4924.4	4880.4	5056.4	6193.1	10006.5	12866.6
65°	7685.5	7795.5	8316.2	7395.8	4414.8	3758.4	3692.4	4213.1	5012.4	8019.2	9819.5
67.5°	4693.4	4906.1	4953.8	4561.4	2995.7	2379.7	2284.4	2757.4	3619.1	5188.4	5756.8
70°	2167.0	2423.7	2665.7	2489.7	1734.4	979.0	924.0	1158.7	1826.0	2984.7	3054.4
72.5°	656.3	660.0	924.0	964.4	561.0	220.0	194.3	256.7	619.7	986.4	1037.7
75°	47.7	51.3	124.7	143.0	106.3	55.0	58.7	69.7	132.0	220.0	165.0
77.5°	3.7	3.7	3.7	18.3	33.0	36.7	47.7	55.0	69.7	80.7	73.3
80°	3.7	0.0	3.7	14.7	25.7	36.7	44.0	51.3	55.0	62.3	55.0
82.5°	0.0	0.0	0.0	11.0	25.7	36.7	40.3	55.0	62.3	73.3	62.3
85°	0.0	0.0	0.0	11.0	25.7	40.3	36.7	18.3	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°	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9
2.5°	9995.5	9852.5	9526.2	9361.2	8972.5	8917.5	8536.2	8473.8	8345.5	8275.8	8107.2
5°	9144.9	8972.5	8440.8	7993.5	7472.8	7109.8	6831.1	6578.1	6431.5	6295.8	6358.1
7.5°	8451.8	7949.5	7359.2	6611.1	6009.8	5621.1	5195.8	4847.4	4642.1	4502.8	4535.8
10°	7725.8	7399.5	6578.1	5738.5	5012.4	4737.4	4403.8	4136.1	3846.4	3597.1	3479.7
12.5°	7498.5	7014.5	5984.1	5129.8	4579.8	4312.1	3930.8	3622.7	3252.4	2948.1	2841.7
15°	7538.8	7073.2	5822.8	4909.8	4260.8	3798.7	3344.1	2962.7	2555.7	2343.0	2233.0
17.5°	8195.2	7388.5	5929.1	4678.8	3817.1	3175.4	2614.4	2130.4	1826.0	1606.0	1558.4
20°	9001.9	8070.5	6156.5	4510.1	3454.1	2526.4	1910.4	1492.4	1239.4	1202.7	1191.7
22.5°	10182.5	9185.2	6644.1	4396.4	3010.4	1969.0	1309.0	1085.4	1015.7	1008.4	1012.0
25°	11832.6	10582.2	7175.8	4301.1	2676.7	1518.0	1070.7	920.4	898.4	887.4	905.7
27.5°	12547.6	11425.6	7458.2	4095.8	2372.4	1367.7	1056.0	913.0	850.7	832.4	843.4
30°	13431.3	11986.6	7901.8	3743.7	1925.0	1125.7	986.4	993.7	964.4	872.7	843.4
32.5°	14604.6	12686.9	8125.5	3494.4	1719.7	931.4	722.3	663.7	740.7	755.3	781.0
35°	15356.3	13398.3	8239.2	3347.7	1613.4	795.7	612.3	557.3	539.0	542.7	557.3
37.5°	16753.4	14359.0	8382.2	3193.7	1532.7	693.0	553.7	502.3	476.7	476.7	491.3
40°	17589.4	15121.7	8576.5	3109.4	1452.0	630.7	502.3	458.3	436.3	436.3	443.7
42.5°	17798.4	15499.3	8510.5	3080.1	1360.4	616.0	458.3	425.3	399.7	396.0	392.3
45°	18172.4	16075.0	8521.5	3047.1	1265.0	561.0	432.7	396.0	359.3	355.7	352.0
47.5°	18583.1	16489.4	8543.5	2918.7	1173.4	469.3	451.0	366.7	322.7	315.3	315.3
50°	18231.1	16819.4	8734.2	2790.4	1056.0	381.3	443.7	344.7	286.0	275.0	278.7
52.5°	18275.1	17208.0	9137.5	2610.7	909.4	304.3	359.3	326.3	260.3	242.0	245.7
55°	17571.0	16797.4	9192.5	2420.1	711.3	234.7	275.0	286.0	220.0	212.7	212.7
57.5°	15125.3	14223.3	8110.8	1961.7	469.3	194.3	198.0	249.3	190.7	183.3	187.0
60°	12943.6	11418.2	6526.8	1294.4	293.3	154.0	143.0	253.0	168.7	165.0	176.0
62.5°	11799.6	9383.2	4950.1	803.0	201.7	117.3	99.0	205.3	146.7	146.7	161.3
65°	8525.2	6303.1	2878.4	421.7	143.0	91.7	73.3	117.3	121.0	124.7	132.0
67.5°	5280.1	3182.7	1213.7	205.3	95.3	62.3	47.7	73.3	80.7	80.7	88.0
70°	2607.1	1268.7	403.3	117.3	73.3	51.3	33.0	40.3	40.3	36.7	40.3
72.5°	806.7	381.3	102.7	73.3	51.3	33.0	18.3	14.7	7.3	0.0	3.7
75°	91.7	73.3	66.0	51.3	33.0	14.7	3.7	0.0	0.0	0.0	0.0
77.5°	55.0	62.3	62.3	51.3	33.0	11.0	0.0	0.0	0.0	0.0	0.0
80°	44.0	47.7	51.3	47.7	29.3	14.7	0.0	0.0	0.0	0.0	0.0
82.5°	55.0	62.3	69.7	62.3	40.3	18.3	7.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.0	3.7	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°	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9
2.5°	8037.5	7956.8	8070.5	7901.8	7898.2	7901.8	7854.2	7810.2	7879.8	8066.8	8085.2
5°	6134.5	6306.8	6361.8	6541.5	6442.5	6295.8	6325.1	6226.1	6468.1	6574.5	6490.1
7.5°	4466.1	4455.1	4825.4	4847.4	4895.1	4898.8	4891.4	4697.1	4499.1	4543.1	4675.1
10°	3465.1	3278.1	3457.7	3439.4	3556.7	3523.7	3571.4	3362.4	3432.1	3432.1	3516.4
12.5°	2823.4	2625.4	2592.4	2544.7	2592.4	2610.7	2629.1	2588.7	2706.1	2761.1	2819.7
15°	2156.0	2046.0	2016.7	1925.0	1939.7	1991.0	2035.0	2053.4	2016.7	2101.0	2108.4
17.5°	1565.7	1562.0	1580.4	1576.7	1562.0	1551.0	1547.4	1499.7	1485.0	1492.4	1521.7
20°	1188.0	1217.4	1279.7	1342.0	1375.0	1334.7	1279.7	1199.0	1166.0	1173.4	1177.0
22.5°	1015.7	1059.7	1144.0	1213.7	1246.7	1173.4	1074.4	1004.7	990.0	986.4	982.7
25°	920.4	971.7	1034.0	1056.0	1052.4	1008.4	935.0	905.7	898.4	891.0	858.0
27.5°	869.0	887.4	898.4	924.0	935.0	905.7	887.4	843.4	836.0	836.0	814.0
30°	839.7	828.7	843.4	825.0	839.7	817.7	821.4	821.4	803.0	810.4	810.4
32.5°	781.0	784.7	784.7	748.0	759.0	733.3	759.0	781.0	784.7	788.4	817.7
35°	572.0	638.0	671.0	671.0	682.0	663.7	660.0	634.3	601.3	568.3	553.7
37.5°	502.3	528.0	572.0	597.7	616.0	601.3	568.3	528.0	509.7	495.0	480.3
40°	447.3	469.3	498.7	528.0	564.7	546.3	495.0	476.7	454.7	454.7	440.0
42.5°	403.3	414.3	432.7	476.7	517.0	480.3	443.7	429.0	418.0	414.3	410.7
45°	363.0	366.7	385.0	421.7	469.3	432.7	396.0	377.7	381.3	385.0	381.3
47.5°	326.3	333.7	344.7	388.7	418.0	399.7	359.3	348.3	348.3	348.3	352.0
50°	282.3	300.7	322.7	359.3	381.3	370.3	337.3	322.7	315.3	315.3	319.0
52.5°	253.0	267.7	297.0	341.0	370.3	352.0	319.0	297.0	282.3	278.7	286.0
55°	220.0	245.7	293.3	326.3	366.7	348.3	311.7	286.0	260.3	256.7	256.7
57.5°	198.0	238.3	282.3	322.7	355.7	341.0	311.7	278.7	245.7	242.0	242.0
60°	187.0	231.0	275.0	311.7	355.7	333.7	308.0	271.3	234.7	234.7	231.0
62.5°	176.0	216.3	260.3	297.0	341.0	322.7	297.0	260.3	223.7	223.7	216.3
65°	146.7	187.0	216.3	249.3	297.0	278.7	253.0	227.3	198.0	190.7	194.3
67.5°	102.7	128.3	157.7	190.7	220.0	212.7	201.7	183.3	157.7	154.0	150.3
70°	51.3	69.7	95.3	128.3	154.0	146.7	139.3	124.7	110.0	106.3	106.3
72.5°	7.3	22.0	40.3	58.7	80.7	84.3	80.7	77.0	73.3	69.7	73.3
75°	0.0	0.0	0.0	14.7	33.0	40.3	47.7	55.0	55.0	47.7	58.7
77.5°	0.0	0.0	0.0	0.0	3.7	18.3	36.7	47.7	58.7	51.3	69.7
80°	0.0	0.0	0.0	0.0	3.7	22.0	36.7	51.3	58.7	51.3	73.3
82.5°	0.0	0.0	0.0	0.0	3.7	25.7	36.7	47.7	55.0	51.3	66.0
85°	0.0	0.0	0.0	0.0	11.0	22.0	14.7	7.3	3.7	3.7	11.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9	9452.9
2.5°	8187.8	8448.2	8726.9	8833.2	9163.2	9412.5	9581.2	9944.2	9999.2	10002.9
5°	6578.1	6710.1	7186.8	7410.5	7901.8	8283.2	8690.2	9276.9	9669.2	9698.5
7.5°	4675.1	5041.8	5243.4	5826.5	6431.5	7029.1	7634.2	8316.2	8770.9	8781.9
10°	3762.1	4000.4	4359.8	4796.1	5305.8	5914.5	6721.1	7513.2	7975.2	8088.8
12.5°	3028.7	3446.7	3857.4	4308.4	4697.1	5155.4	6024.5	7080.5	7461.8	7689.2
15°	2332.0	2713.4	3197.4	3725.4	4165.4	4777.8	5767.8	6974.1	7615.8	7692.8
17.5°	1719.7	2060.7	2508.1	3006.7	3666.7	4535.8	5811.8	7513.2	8118.2	8246.5
20°	1235.7	1433.7	1785.7	2365.1	3204.7	4253.4	5855.8	8059.5	8979.9	9199.9
22.5°	979.0	1059.7	1290.7	1804.0	2687.7	3956.4	6167.5	9104.5	10164.2	10483.2
25°	850.7	894.7	1004.7	1422.7	2361.4	3927.1	6666.1	10358.6	11740.9	11971.9
27.5°	821.4	828.7	924.0	1305.4	2185.4	3732.7	6856.8	11249.6	12723.6	12958.3
30°	865.4	982.7	990.0	1103.7	1859.0	3347.7	6955.8	12111.3	13556.0	13728.3
32.5°	748.0	711.3	737.0	854.4	1635.4	3124.1	7142.8	12862.9	14505.6	14626.6
35°	520.7	546.3	605.0	740.7	1430.0	2889.4	7190.5	13691.6	15407.7	15532.3
37.5°	480.3	495.0	542.7	630.7	1257.7	2757.4	7124.5	14296.6	16342.7	16515.0
40°	447.3	465.7	491.3	572.0	1129.4	2610.7	7032.8	14843.0	16914.7	17340.0
42.5°	421.7	436.3	458.3	546.3	1019.4	2464.1	6904.5	15613.0	17428.0	17798.4
45°	392.3	414.3	440.0	531.7	957.0	2365.1	6809.1	15565.3	17725.0	17923.0
47.5°	363.0	399.7	429.0	495.0	938.7	2317.4	6849.5	15385.7	17483.0	17347.4
50°	333.7	381.3	432.7	410.7	894.7	2222.0	6897.1	15631.3	16907.4	16881.7
52.5°	308.0	363.0	403.3	337.3	795.7	2130.4	7359.2	15954.0	17314.4	16973.4
55°	271.3	326.3	322.7	271.3	645.3	2060.7	7722.2	15961.3	17039.4	17167.7
57.5°	245.7	289.7	253.0	227.3	476.7	1723.4	7131.8	13383.6	14586.3	14813.6
60°	227.3	282.3	190.7	179.7	311.7	1243.0	6226.1	10365.9	11594.2	12023.3
62.5°	209.0	267.7	150.3	146.7	216.3	883.7	5118.8	8675.5	9991.9	10574.9
65°	183.3	190.7	121.0	113.7	154.0	476.7	3116.7	5973.1	7469.2	7685.5
67.5°	150.3	146.7	99.0	91.7	102.7	231.0	1375.0	2992.1	4330.4	4693.4
70°	121.0	121.0	84.3	73.3	73.3	106.3	359.3	1191.7	1958.0	2167.0
72.5°	88.0	91.7	66.0	58.7	55.0	51.3	58.7	238.3	513.3	656.3
75°	77.0	80.7	66.0	51.3	40.3	33.0	25.7	22.0	29.3	47.7
77.5°	84.3	84.3	69.7	47.7	36.7	25.7	14.7	7.3	7.3	3.7
80°	106.3	110.0	91.7	62.3	44.0	29.3	18.3	7.3	3.7	3.7
82.5°	113.7	124.7	102.7	77.0	55.0	33.0	18.3	3.7	0.0	0.0
85°	29.3	47.7	80.7	69.7	55.0	33.0	18.3	3.7	0.0	0.0
87.5°	0.0	3.7	11.0	11.0	14.7	14.7	11.0	3.7	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)