

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: P452667

Luminaire Tested: **GALN-SA3C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11080 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

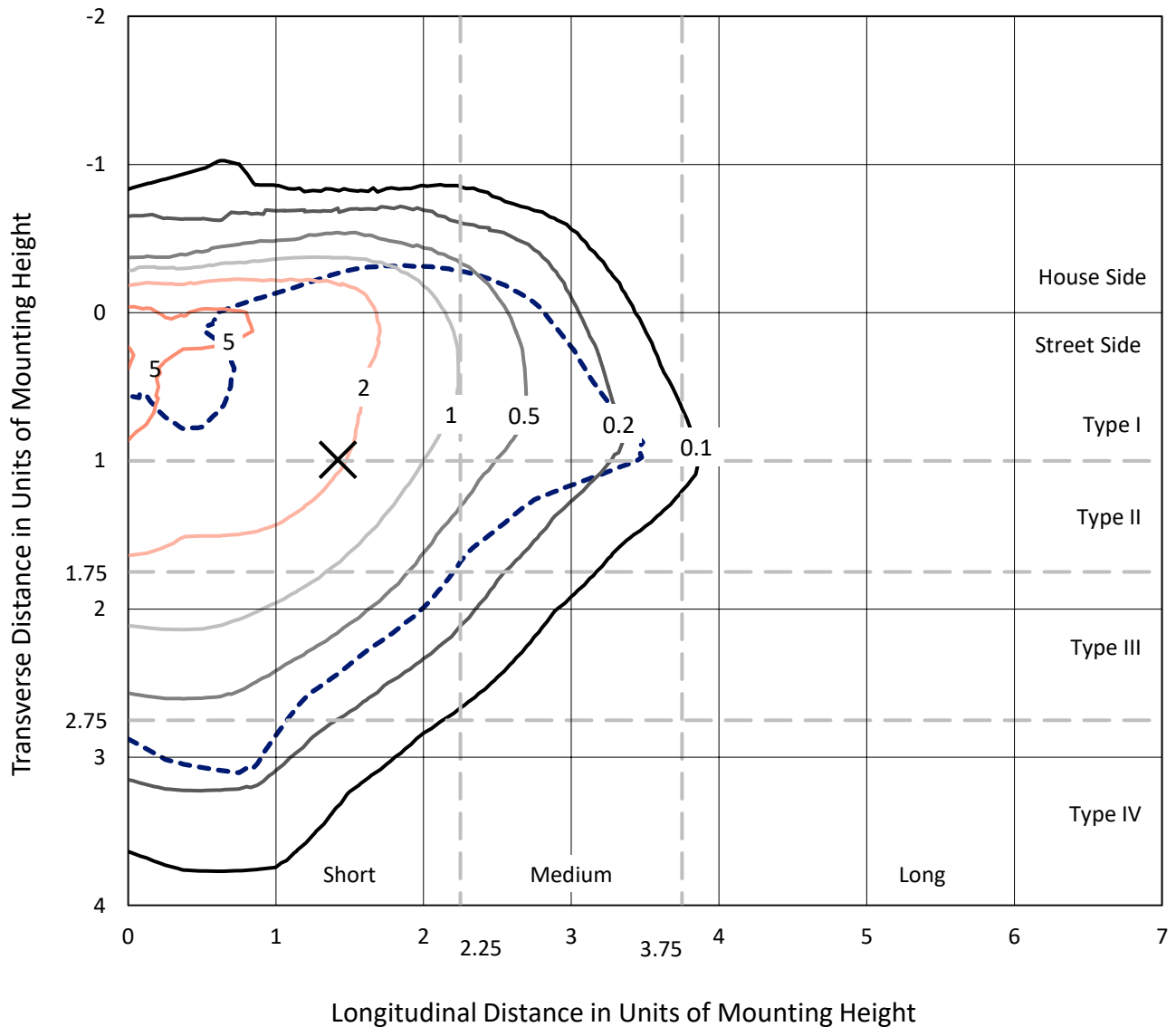
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

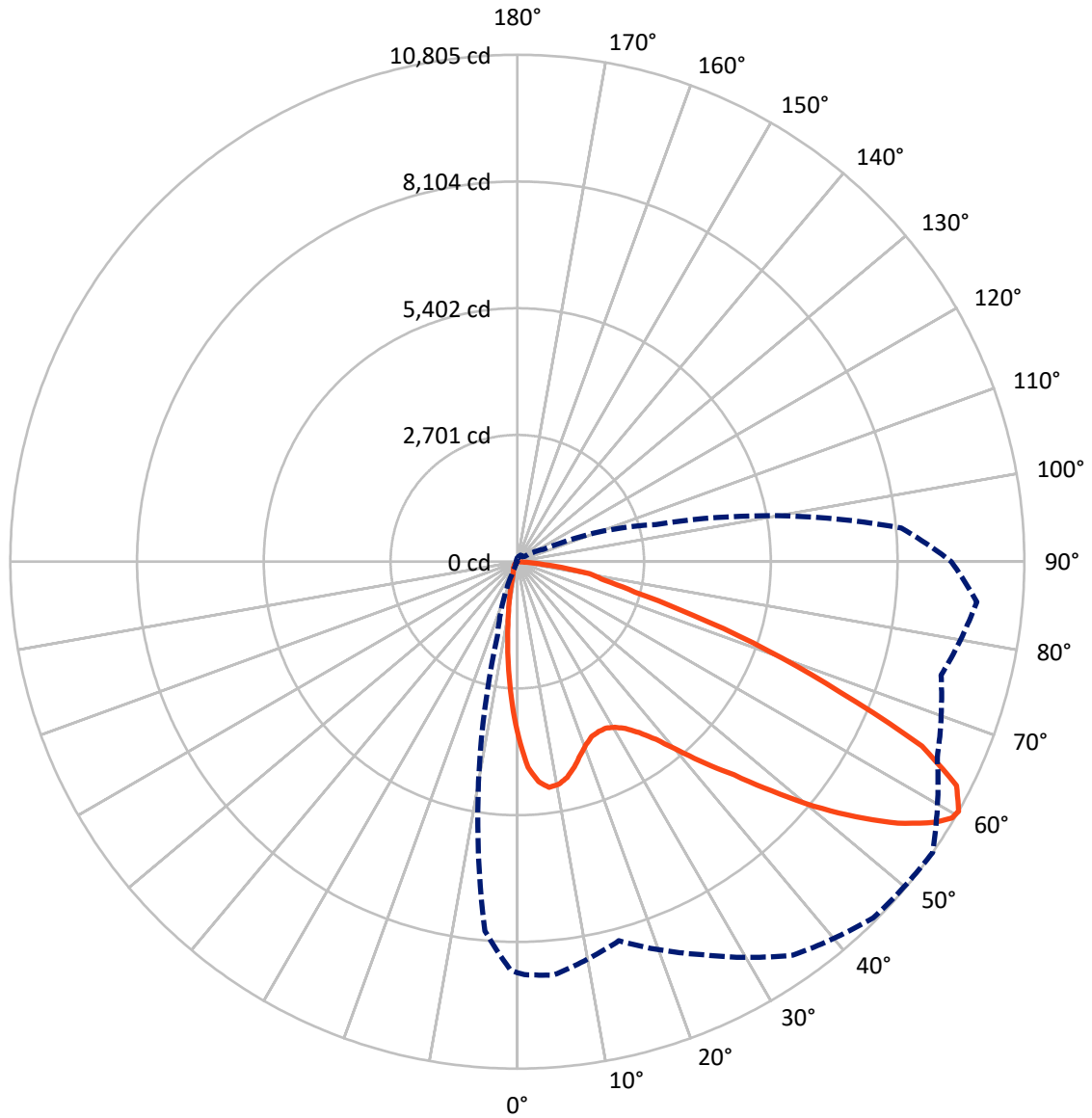
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.4	0.0	1644.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	9435.6	0.0	9435.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	11080.0	0.0	11080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	2.5
10°-20°	547.1	4.9
20°-30°	809.8	7.3
30°-40°	1207.1	10.9
40°-50°	1767.8	16.0
50°-60°	2552.1	23.0
60°-70°	2684.7	24.2
70°-80°	1104.4	10.0
80°-90°	129.3	1.2
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°	11080.0	100.0
0°-180°	11080.0	100.0

Coefficient of Utilization



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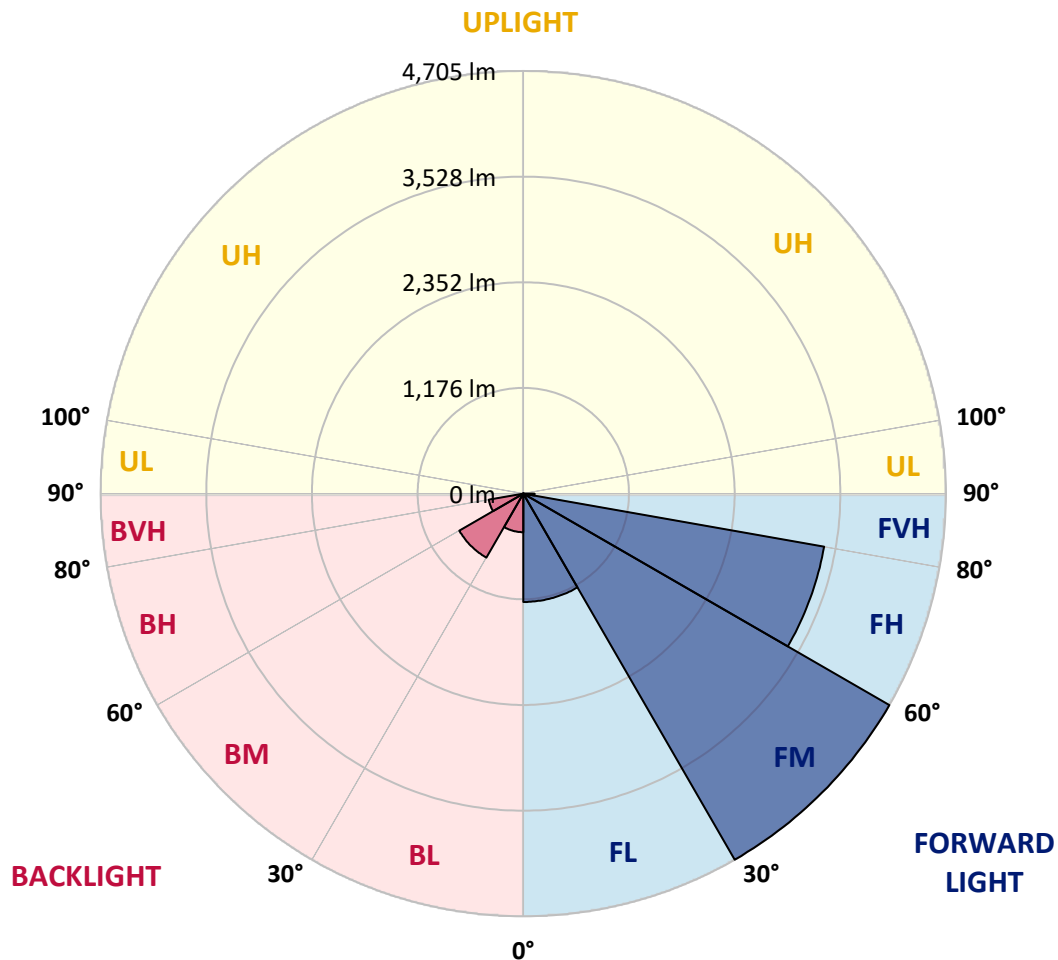
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.7	10.9			
FM (30°-60°)	4704.6	42.5			
FH (60°-80°)	3399.8	30.7			G2/5000
FVH (80°-90°)	125.5	1.1			G2/225
BL (0°-30°)	429.0	3.9	B1/500		
BM (30°-60°)	822.3	7.4	B1/1000		
BH (60°-80°)	389.2	3.5	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	4098.8	4091.9	4152.5	4251.4	4351.2	4403.2	4393.0	4388.7	4306.0	4245.5	4118.4
5°	4090.2	4125.2	4233.5	4501.3	4704.3	4802.4	4831.4	4709.4	4548.2	4314.5	4026.3
7.5°	3845.5	3889.0	4065.5	4484.2	4845.0	5058.2	5050.5	4855.2	4522.6	4161.0	3750.0
10°	3541.9	3593.0	3800.3	4308.6	4776.8	5058.2	5073.6	4826.2	4412.6	3948.7	3516.3
12.5°	3327.8	3388.3	3617.8	4144.8	4601.1	4878.3	4896.2	4717.1	4329.9	3866.8	3389.2
15°	3255.3	3312.4	3545.3	4062.1	4414.3	4563.6	4559.3	4540.5	4297.5	3886.4	3396.0
17.5°	3379.8	3426.7	3689.4	4099.6	4239.5	4224.1	4246.3	4336.7	4304.3	4051.0	3610.9
20°	3701.3	3749.1	4031.4	4214.8	4105.6	4008.4	4018.6	4169.6	4367.4	4360.6	3947.0
22.5°	4144.0	4225.0	4480.8	4438.2	4087.7	3874.5	3853.1	4049.3	4474.9	4717.1	4400.7
25°	4704.3	4786.2	4985.7	4794.7	4175.5	3842.9	3823.3	4012.6	4605.4	5065.0	4911.5
27.5°	5175.1	5237.3	5436.0	5141.8	4305.2	3856.6	3824.1	4017.7	4711.1	5361.0	5342.2
30°	5552.0	5598.1	5714.9	5303.8	4416.9	3916.3	3878.7	4092.8	4758.0	5505.1	5691.0
32.5°	5855.6	5933.2	5969.9	5477.0	4577.2	4028.8	3964.9	4236.9	4872.3	5683.3	6056.9
35°	6202.7	6292.3	6245.4	5642.4	4788.7	4204.5	4126.1	4470.6	5045.4	5847.9	6481.6
37.5°	6642.8	6746.0	6562.6	5816.4	5012.2	4468.9	4432.2	4798.9	5308.1	6083.3	6937.0
40°	7098.2	7157.9	6870.5	6027.9	5286.8	4853.5	4888.5	5286.8	5651.8	6365.6	7421.4
42.5°	7453.8	7510.1	7186.9	6205.3	5567.4	5309.8	5455.6	5875.2	6045.8	6654.7	7783.0
45°	7725.9	7773.7	7406.1	6398.9	5946.0	5970.8	6246.2	6481.6	6440.7	6831.3	8061.9
47.5°	7937.4	7978.3	7575.0	6607.0	6513.2	6779.3	7200.6	7300.3	6850.0	7022.3	8314.4
50°	8024.4	8036.3	7627.8	6872.2	7157.1	7809.5	8248.7	8188.1	7319.1	7234.7	8583.0
52.5°	8137.8	8135.3	7778.8	7124.7	7762.6	8730.6	9168.9	9031.6	7849.6	7552.8	8884.9
55°	8435.5	8438.9	8102.0	7482.8	8278.5	9474.2	9943.3	9843.5	8409.0	8090.1	9237.1
57.5°	8797.1	8809.9	8561.7	7901.6	8771.5	10013.2	10521.5	10483.1	9165.5	8687.9	9569.8
59°	8844.0	8869.6	8779.2	8196.7	9064.0	10178.7	10719.4	10756.9	9570.6	9081.9	9749.7
60°	8758.7	8801.3	8842.3	8363.8	9235.4	10238.4	10731.3	10804.7	9875.1	9349.7	9831.6
62.5°	8386.9	8454.2	8659.8	8878.1	9449.5	10052.5	10350.1	10503.6	10252.0	10053.3	9839.3
65°	7899.9	7934.9	8231.6	8969.4	9034.2	9184.3	9276.4	9473.4	9799.2	10324.5	9487.0
67.5°	7101.6	7204.8	7568.1	8439.7	7808.6	7631.2	7608.2	7412.1	8258.1	9678.1	8618.8
70°	5866.7	5912.8	6360.5	6919.1	5893.1	5620.2	5729.4	5656.1	6401.4	8331.4	6937.0
72.5°	4436.5	4540.5	4978.0	5515.3	4010.1	3656.1	3957.2	3929.9	4808.3	6695.7	4765.7
75°	3156.4	3223.7	3781.5	4316.2	2808.4	2379.4	2487.7	2589.2	3356.8	5286.8	2816.1
77.5°	2168.8	2226.8	2645.5	2854.5	2048.5	1962.4	1795.2	1893.3	2199.5	3136.8	1532.6
80°	1308.3	1305.7	1581.2	1632.3	1426.8	1657.1	1390.1	1560.7	1329.6	1342.4	593.6
82.5°	849.4	840.9	967.1	1054.1	794.0	834.9	560.3	807.6	866.5	374.4	187.6
85°	380.4	396.6	464.8	613.2	348.0	185.1	114.3	248.2	369.3	188.5	0.0
87.5°	39.2	30.7	81.9	149.2	47.8	5.1	17.1	8.5	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°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	4059.5	4010.1	3862.5	3724.4	3605.8	3460.8	3367.0	3219.5	3129.9	3102.6	3106.9
5°	3896.6	3754.2	3473.6	3249.3	2999.4	2857.0	2640.4	2432.3	2319.7	2277.9	2259.2
7.5°	3555.5	3402.8	3064.3	2712.0	2444.2	2194.4	2033.2	1849.8	1724.4	1621.3	1603.3
10°	3302.2	3101.8	2682.2	2303.5	2092.0	1904.4	1743.2	1559.9	1412.3	1294.6	1262.2
12.5°	3150.4	2926.1	2457.9	2140.6	1940.2	1747.5	1537.7	1325.3	1174.4	1047.3	988.4
15°	3123.1	2863.0	2394.8	2023.8	1776.5	1543.6	1264.8	1035.4	880.1	759.9	723.2
17.5°	3287.7	2976.4	2385.4	1901.8	1562.4	1232.4	942.4	752.2	577.4	510.0	483.6
20°	3581.1	3176.8	2384.5	1760.3	1342.4	949.2	661.8	490.4	419.6	387.2	371.8
22.5°	3981.1	3449.8	2429.8	1638.3	1113.8	700.2	472.5	390.6	349.7	323.2	317.3
25°	4469.8	3854.0	2540.6	1555.6	939.0	549.2	389.7	334.3	300.2	288.3	283.1
27.5°	4903.8	4241.2	2662.6	1470.3	813.6	486.1	361.6	306.2	278.9	269.5	261.8
30°	5278.2	4592.6	2721.4	1357.7	713.0	445.2	366.7	327.5	291.7	263.5	250.7
32.5°	5590.4	4862.1	2759.8	1255.4	627.7	364.2	290.0	253.3	237.1	226.9	218.3
35°	5981.0	5153.7	2736.8	1197.4	584.2	331.8	264.4	218.3	191.0	170.6	162.0
37.5°	6390.4	5445.4	2696.7	1149.6	564.6	307.9	251.6	207.2	177.4	156.1	145.0
40°	6814.2	5715.8	2649.8	1105.3	546.7	292.5	243.9	197.9	168.0	145.0	133.0
42.5°	7202.3	5979.3	2631.0	1076.3	517.7	295.1	237.9	193.6	158.6	134.7	124.5
45°	7516.1	6229.2	2656.6	1060.9	486.1	290.8	239.6	188.5	151.0	127.9	117.7
47.5°	7851.3	6582.2	2739.3	1045.6	455.4	270.4	252.4	187.6	147.5	123.7	112.6
50°	8241.0	7034.3	2928.7	1008.1	417.9	248.2	268.6	186.8	143.3	118.5	107.5
52.5°	8760.4	7547.7	3124.0	942.4	363.3	226.9	256.7	184.2	134.7	112.6	101.5
55°	9226.9	8088.4	3289.4	864.8	294.2	196.2	231.1	173.1	120.3	102.3	92.1
57.5°	9419.7	8393.7	3284.3	757.3	235.4	172.3	190.2	158.6	104.9	90.4	81.9
59°	9348.9	8355.3	3174.3	678.0	214.9	159.5	157.8	156.9	98.1	81.9	75.1
60°	9249.1	8215.4	3055.7	638.8	202.1	151.0	145.0	155.2	92.1	76.8	69.9
62.5°	8867.0	7635.5	2662.6	572.3	185.1	127.9	116.0	131.3	81.9	66.5	60.6
65°	8313.5	6744.3	2254.1	553.5	179.9	105.8	96.4	93.8	69.9	56.3	51.2
67.5°	7233.8	5707.2	1825.9	540.7	181.7	88.7	84.4	70.8	58.0	46.9	43.5
70°	5791.7	4450.1	1495.0	526.2	183.4	72.5	70.8	56.3	46.9	39.2	35.8
72.5°	3518.8	2637.8	1176.9	457.1	178.2	58.0	63.1	42.6	34.1	28.1	26.4
75°	2175.6	1805.5	730.0	355.6	117.7	42.6	44.3	26.4	23.0	17.9	17.9
77.5°	1260.5	1140.3	261.0	127.9	52.0	25.6	19.6	13.6	12.8	7.7	7.7
80°	522.8	418.7	90.4	43.5	28.1	11.9	4.3	0.9	0.0	0.0	0.0
82.5°	152.7	135.6	24.7	19.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3034.4	3006.3	2993.5	3037.0	2996.9	3048.1	3008.8	3025.9	3076.2	3098.4	3155.5
5°	2271.1	2242.1	2228.5	2294.1	2290.7	2323.1	2319.7	2349.6	2375.2	2318.0	2376.9
7.5°	1582.0	1562.4	1594.8	1646.0	1700.6	1682.7	1682.7	1642.6	1656.2	1647.7	1645.1
10°	1203.4	1136.0	1118.9	1117.2	1137.7	1142.0	1118.9	1063.5	1084.0	1089.9	1125.8
12.5°	946.7	894.6	815.3	779.5	770.1	777.8	701.9	653.3	676.3	662.7	697.6
15°	678.9	636.2	589.3	549.2	538.1	522.8	440.1	382.1	375.3	377.8	383.8
17.5°	484.4	455.4	455.4	412.8	389.7	343.7	301.9	276.3	273.8	276.3	280.6
20°	357.3	342.0	340.3	329.2	303.6	272.9	243.9	238.8	237.1	241.4	243.1
22.5°	307.9	291.7	278.0	277.2	253.3	227.7	214.1	207.2	208.1	209.8	214.1
25°	275.5	258.4	243.9	235.4	218.3	200.4	187.6	184.2	184.2	186.8	187.6
27.5°	252.4	231.1	218.3	206.4	191.0	175.7	164.6	162.0	160.3	162.0	166.3
30°	236.2	214.9	198.7	180.8	168.9	154.4	145.0	141.6	140.7	141.6	145.0
32.5°	202.1	189.3	176.5	160.3	145.8	136.5	126.2	120.3	120.3	122.0	125.4
35°	152.7	145.8	145.0	140.7	128.8	118.5	106.6	100.6	100.6	104.0	105.8
37.5°	134.7	122.0	120.3	118.5	113.4	99.8	88.7	83.6	82.7	85.3	88.7
40°	122.8	108.3	100.6	98.9	99.8	84.4	72.5	67.4	67.4	68.2	71.6
42.5°	113.4	96.4	82.7	81.0	84.4	70.8	58.8	53.7	53.7	53.7	58.0
45°	105.8	86.1	69.9	61.4	66.5	58.0	47.8	42.6	40.9	42.6	44.3
47.5°	100.6	78.5	61.4	49.5	49.5	46.1	38.4	32.4	30.7	31.6	34.1
50°	96.4	71.6	52.0	40.1	35.8	36.7	29.0	24.7	23.0	23.0	25.6
52.5°	89.5	64.8	45.2	34.1	27.3	24.7	21.3	17.9	17.1	17.9	19.6
55°	81.0	58.8	39.2	28.1	21.3	17.1	15.4	12.8	11.9	12.8	15.4
57.5°	71.6	49.5	31.6	22.2	14.5	11.1	10.2	8.5	6.8	7.7	9.4
59°	65.7	44.3	27.3	17.9	11.1	7.7	7.7	6.0	4.3	5.1	7.7
60°	63.1	40.9	23.0	15.4	9.4	6.0	6.0	4.3	2.6	3.4	6.0
62.5°	53.7	34.1	17.9	9.4	4.3	0.9	2.6	0.9	0.0	0.9	2.6
65°	45.2	27.3	11.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	37.5	20.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	29.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3158.9	3280.9	3355.9	3497.5	3642.5	3754.2	3894.1	4019.5	4071.5	4098.8
5°	2436.6	2606.3	2750.4	2966.2	3166.6	3410.5	3657.8	3949.5	4061.2	4090.2
7.5°	1710.0	1883.1	2034.0	2283.9	2569.6	2896.3	3266.4	3636.5	3799.4	3845.5
10°	1234.9	1420.0	1604.2	1854.1	2121.0	2475.0	2860.4	3318.4	3506.0	3541.9
12.5°	779.5	978.2	1277.6	1586.3	1868.6	2153.4	2556.8	3054.9	3262.1	3327.8
15°	452.0	600.4	826.4	1228.9	1588.0	1965.0	2405.0	2956.0	3187.9	3255.3
17.5°	302.8	353.9	509.1	817.0	1291.2	1791.0	2366.6	3037.0	3293.7	3379.8
20°	255.0	278.0	332.6	498.1	994.4	1635.8	2376.9	3257.0	3593.9	3701.3
22.5°	224.3	245.6	280.6	358.2	694.2	1443.0	2425.5	3571.7	4006.7	4144.0
25°	197.9	219.2	249.9	296.8	466.5	1220.4	2532.1	4032.2	4553.3	4704.3
27.5°	175.7	195.3	221.7	261.8	359.0	972.2	2626.8	4480.8	5052.2	5175.1
30°	155.2	171.4	197.0	227.7	298.5	749.6	2674.5	4873.1	5415.6	5552.0
32.5°	134.7	150.1	174.8	199.6	245.6	571.4	2641.3	5161.4	5768.6	5855.6
35°	115.1	131.3	151.8	174.8	212.4	461.4	2475.0	5485.5	6134.5	6202.7
37.5°	98.9	112.6	133.9	151.8	191.9	369.3	2273.7	5777.2	6544.7	6642.8
40°	83.6	97.2	118.5	134.7	176.5	290.8	2092.0	6101.2	6977.1	7098.2
42.5°	68.2	84.4	103.2	129.6	151.8	221.7	1872.0	6363.9	7302.0	7453.8
45°	54.6	72.5	93.0	128.8	132.2	168.9	1659.6	6568.6	7589.5	7725.9
47.5°	43.5	61.4	89.5	120.3	108.3	133.9	1538.5	6782.7	7828.2	7937.4
50°	35.0	51.2	93.8	105.8	90.4	113.4	1535.1	7021.5	7951.9	8024.4
52.5°	28.1	41.8	79.3	81.0	76.8	99.8	1627.2	7290.1	8078.1	8137.8
55°	23.9	35.0	52.0	59.7	69.1	90.4	1696.3	7703.7	8379.2	8435.5
57.5°	18.8	29.8	40.1	47.8	61.4	82.7	1705.7	8022.7	8760.4	8797.1
59°	16.2	25.6	35.8	42.6	56.3	77.6	1667.3	8042.3	8785.1	8844.0
60°	13.6	23.0	31.6	40.1	52.0	73.3	1625.5	7899.9	8693.0	8758.7
62.5°	10.2	17.9	23.0	32.4	42.6	63.1	1427.7	7402.7	8340.8	8386.9
65°	6.8	12.8	17.1	23.9	33.3	54.6	1163.3	6757.9	7796.7	7899.9
67.5°	4.3	9.4	13.6	17.9	27.3	46.1	829.0	5795.1	7035.1	7101.6
70°	2.6	6.0	10.2	14.5	21.3	36.7	492.1	4580.6	5853.1	5866.7
72.5°	1.7	4.3	6.8	10.2	17.1	33.3	238.8	2985.8	4273.6	4436.5
75°	0.9	2.6	4.3	7.7	13.6	27.3	114.3	1994.8	3109.5	3156.4
77.5°	0.0	0.9	2.6	5.1	10.2	21.3	66.5	1310.0	2120.2	2168.8
80°	0.0	0.0	1.7	4.3	7.7	13.6	40.1	772.7	1284.4	1308.3
82.5°	0.0	0.0	0.9	3.4	5.1	10.2	20.5	339.4	840.9	849.4
85°	0.0	0.0	0.9	3.4	4.3	6.8	7.7	46.1	373.5	380.4
87.5°	0.0	0.0	0.9	4.3	4.3	4.3	4.3	2.6	31.6	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)