

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: P528055

Luminaire Tested: **GALN-SA3A-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528055
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-SA3A-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA 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: 7547 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

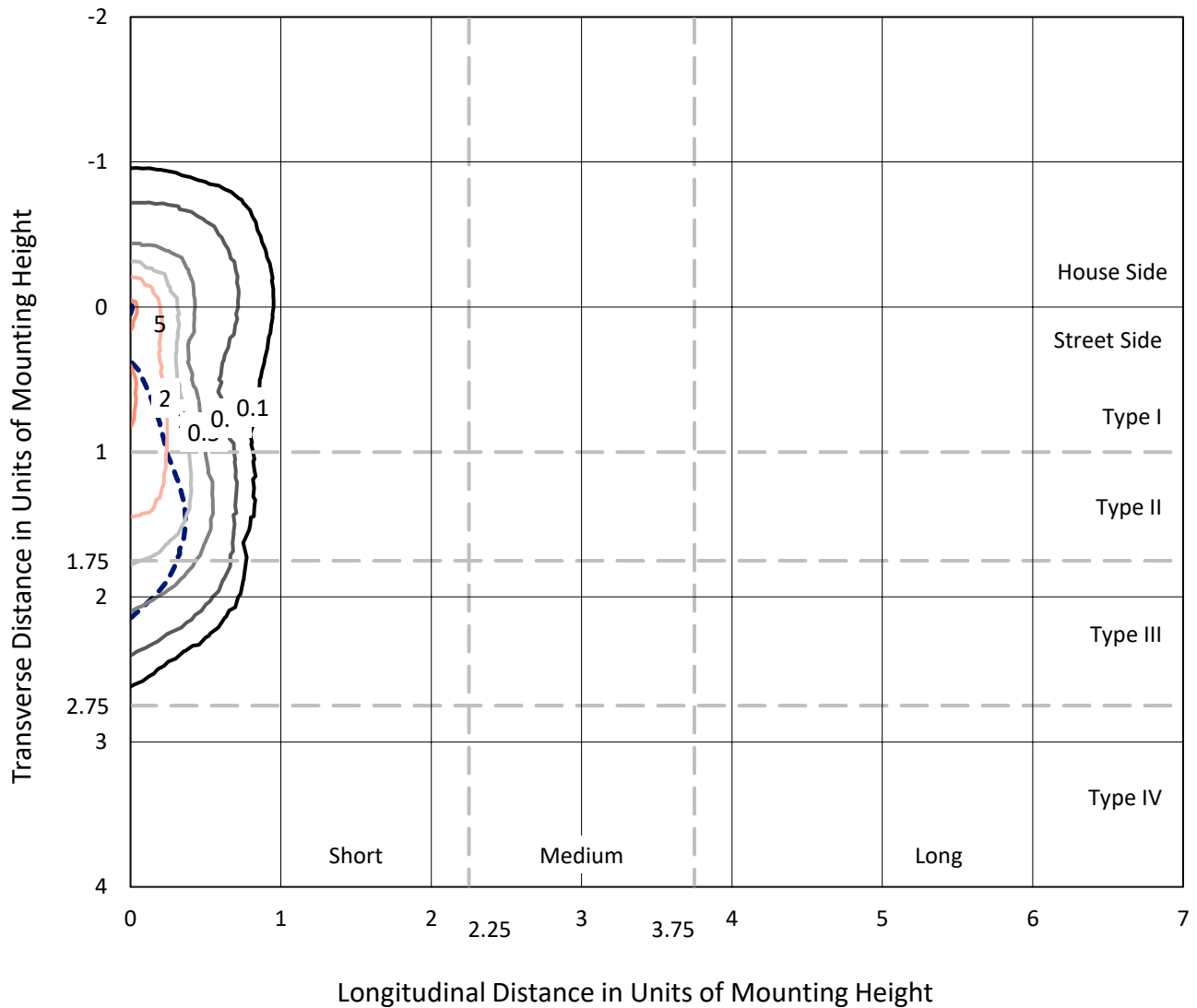
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

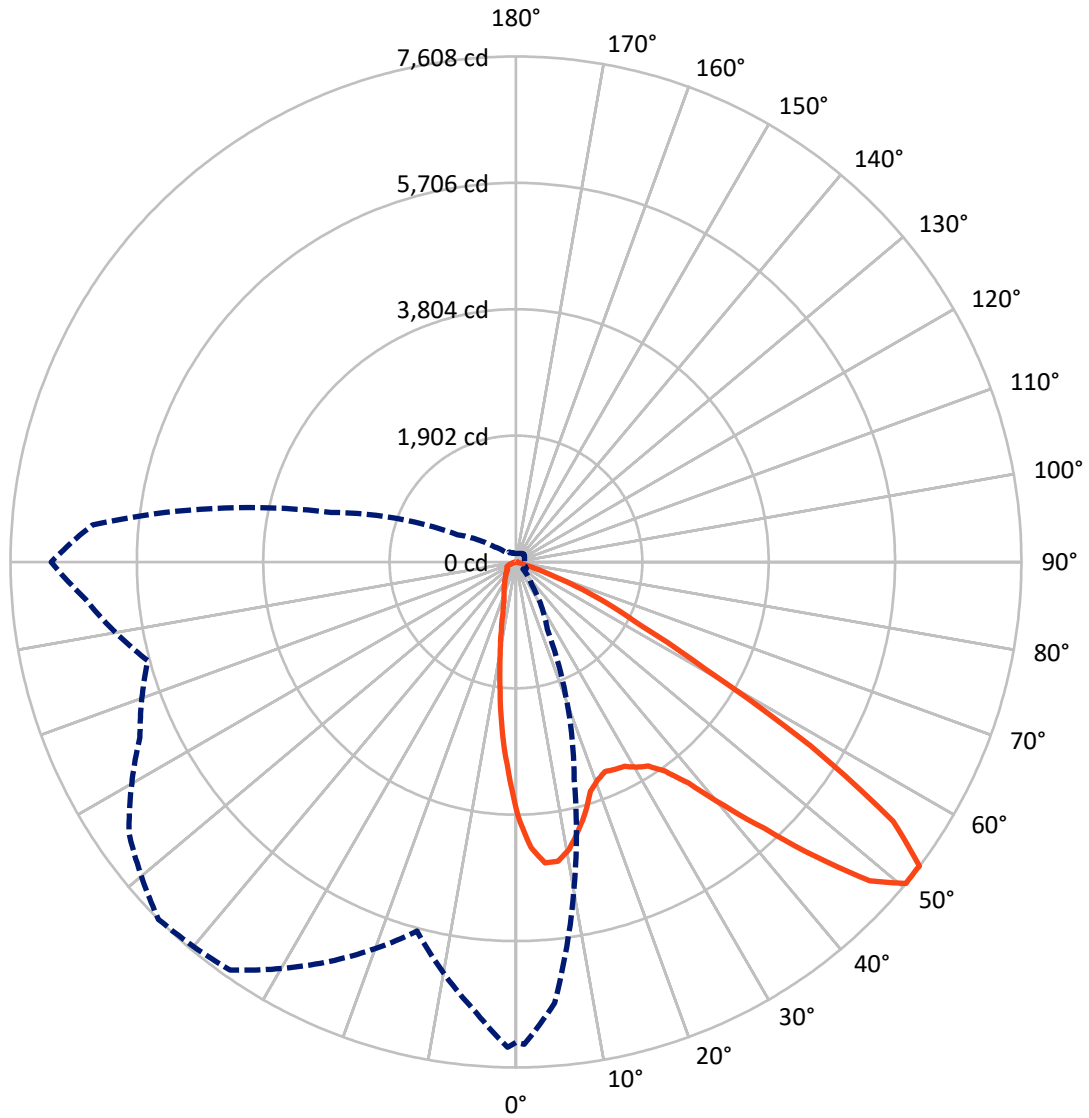
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1511.7	0.0	1511.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6035.3	0.0	6035.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	7547.0	0.0	7547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	3.7
10°-20°	554.4	7.3
20°-30°	832.9	11.0
30°-40°	1250.2	16.6
40°-50°	1757.1	23.3
50°-60°	1895.3	25.1
60°-70°	880.0	11.7
70°-80°	82.8	1.1
80°-90°	15.3	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°	7547.0	100.0
0°-180°	7547.0	100.0

Coefficient of Utilization



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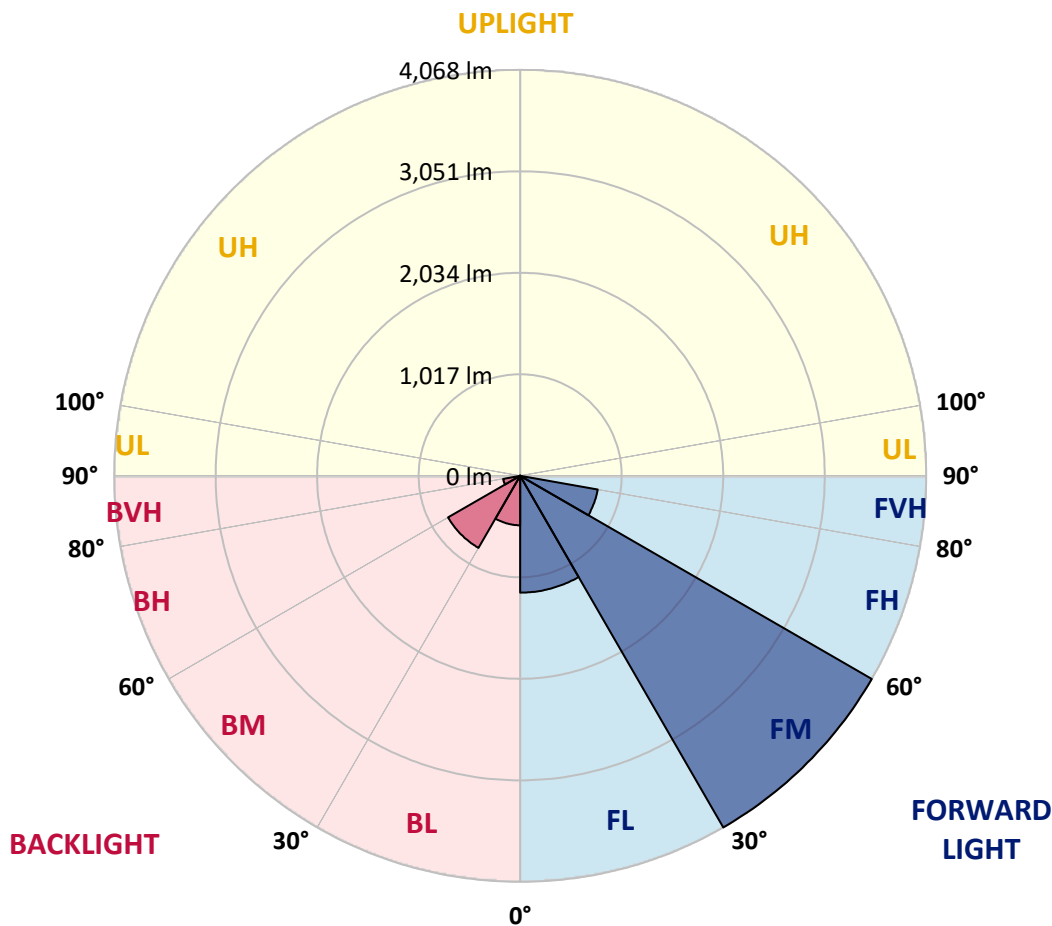
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.9	15.5			
FM (30°-60°)	4068.4	53.9			
FH (60°-80°)	789.2	10.5			G1/1800
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	495.5	6.6	B1/500		
BM (30°-60°)	834.2	11.1	B1/1000		
BH (60°-80°)	173.6	2.3	B1/500		G1/500
BVH (80°-90°)	8.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3978.5	3917.1	3839.3	3774.9	3679.0	3485.9	3433.5	3370.6	3318.2	3247.8	3149.0
5°	3617.6	3598.2	3562.2	3319.7	3144.5	2910.9	2719.2	2638.4	2532.1	2445.2	2382.3
7.5°	3342.1	3264.3	3150.5	2906.4	2626.4	2376.3	2163.7	2039.4	1898.7	1850.8	1765.4
10°	3047.2	3065.1	2897.4	2554.5	2216.1	2014.0	1882.2	1762.4	1635.1	1551.3	1430.0
12.5°	2952.8	2894.4	2765.6	2341.9	2052.9	1864.2	1704.0	1555.8	1421.0	1286.2	1169.4
15°	3014.2	2924.4	2744.7	2297.0	1927.1	1692.0	1491.4	1290.7	1166.5	994.3	873.0
17.5°	3234.3	3162.4	2921.4	2344.9	1862.7	1527.3	1229.3	1022.7	832.5	676.8	615.4
20°	3601.2	3499.4	3196.9	2406.3	1766.9	1328.2	997.2	742.7	563.0	497.1	462.7
22.5°	3960.5	3905.1	3523.3	2524.6	1681.5	1151.5	748.7	500.1	420.8	408.8	386.3
25°	4644.8	4478.6	4021.9	2738.7	1615.7	985.3	564.5	402.8	356.4	347.4	350.4
27.5°	5052.1	4912.9	4483.1	2880.9	1542.3	858.0	477.7	369.9	338.4	318.9	311.5
30°	5442.9	5281.2	4712.2	2964.8	1385.1	723.2	423.8	354.9	347.4	318.9	310.0
32.5°	5743.9	5585.2	5043.1	3090.6	1320.7	636.4	348.9	277.0	257.5	254.6	281.5
35°	6205.1	6035.9	5326.1	3159.5	1271.3	591.5	302.5	247.1	224.6	215.6	217.1
37.5°	6634.9	6519.6	5588.2	3186.4	1218.9	578.0	271.0	221.6	202.1	196.2	194.7
40°	6994.2	6736.7	5836.8	3214.9	1196.4	552.5	251.6	202.1	188.7	179.7	179.7
42.5°	7158.9	6896.9	6115.3	3198.4	1190.4	512.1	251.6	185.7	175.2	166.2	164.7
45°	7123.0	7016.7	6239.5	3190.9	1190.4	471.7	229.1	181.2	166.2	154.2	151.2
47.5°	7215.8	7076.6	6395.3	3222.3	1166.5	443.2	193.2	190.2	157.2	142.3	139.3
50°	7232.3	7259.3	6666.3	3385.6	1114.0	407.3	151.2	187.2	151.2	128.8	125.8
52°	7340.1	7172.4	6748.7	3472.4	1058.6	380.3	127.3	160.2	145.2	119.8	116.8
52.5°	7191.9	7301.2	6768.1	3503.8	1064.6	362.4	122.8	157.2	142.3	119.8	112.3
55°	7025.7	7130.5	6688.8	3571.2	976.3	284.5	95.8	113.8	128.8	104.8	100.3
57.5°	6106.3	6212.6	5812.8	3270.3	795.1	200.6	79.4	85.4	113.8	97.3	92.8
60°	5428.0	5351.6	4878.4	2728.2	564.5	112.3	62.9	65.9	124.3	89.8	88.3
62.5°	4960.8	4797.6	4077.3	2106.8	344.4	74.9	49.4	50.9	95.8	83.9	83.9
65°	3670.1	3487.4	2708.7	1274.3	169.2	52.4	37.4	40.4	59.9	71.9	71.9
67.5°	2094.8	2024.4	1308.7	575.0	70.4	32.9	28.5	31.4	46.4	58.4	55.4
70°	962.8	864.0	503.1	121.3	32.9	22.5	22.5	25.5	37.4	43.4	40.4
72.5°	281.5	266.5	122.8	19.5	13.5	13.5	15.0	19.5	28.5	32.9	29.9
75°	21.0	13.5	9.0	6.0	6.0	9.0	12.0	19.5	28.5	31.4	25.5
77.5°	1.5	3.0	1.5	1.5	4.5	9.0	13.5	24.0	37.4	38.9	28.5
80°	1.5	1.5	0.0	1.5	4.5	9.0	15.0	27.0	41.9	44.9	24.0
82.5°	0.0	0.0	0.0	1.5	6.0	12.0	18.0	28.5	38.9	47.9	25.5
85°	0.0	0.0	0.0	1.5	9.0	16.5	21.0	7.5	4.5	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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3219.3	3180.4	3165.4	3178.9	3174.4	3169.9	3252.3	3234.3	3231.3	3258.3	3252.3
5°	2416.8	2347.9	2536.5	2460.2	2539.5	2587.5	2596.4	2600.9	2656.3	2597.9	2674.3
7.5°	1722.0	1739.9	1738.4	1789.4	1880.7	1961.6	2009.5	1972.0	1969.0	1961.6	1928.6
10°	1376.1	1344.6	1338.6	1326.7	1355.1	1424.0	1482.4	1436.0	1403.0	1448.0	1434.5
12.5°	1124.5	1081.1	1057.1	1009.2	1010.7	1057.1	1057.1	1057.1	1090.1	1115.5	1135.0
15°	862.5	826.5	826.5	778.6	768.2	769.6	793.6	796.6	849.0	864.0	871.5
17.5°	603.4	584.0	606.4	625.9	613.9	616.9	625.9	628.9	636.4	630.4	645.4
20°	464.2	461.2	467.2	501.6	527.1	542.0	531.6	516.6	507.6	486.6	486.6
22.5°	393.8	399.8	410.3	438.7	471.7	480.7	468.7	434.2	407.3	404.3	405.8
25°	350.4	356.4	372.8	390.8	408.8	423.8	411.8	386.3	371.3	357.9	357.9
27.5°	323.4	326.4	335.4	348.9	363.9	375.8	371.3	357.9	341.4	335.4	321.9
30°	302.5	307.0	317.4	320.4	333.9	339.9	332.4	329.4	318.9	311.5	307.0
32.5°	292.0	290.5	298.0	301.0	302.5	307.0	298.0	302.5	301.0	289.0	284.5
35°	220.1	232.1	251.6	268.0	272.5	278.5	277.0	271.0	254.6	241.1	224.6
37.5°	197.7	205.1	215.6	229.1	247.1	254.6	251.6	236.6	217.1	208.1	205.1
40°	182.7	187.2	196.2	205.1	223.1	236.6	226.1	212.6	197.7	190.2	185.7
42.5°	169.2	170.7	175.2	184.2	197.7	218.6	200.6	182.7	176.7	172.2	169.2
45°	154.2	154.2	160.2	164.7	179.7	199.2	181.2	164.7	161.7	158.7	157.2
47.5°	142.3	143.7	146.7	152.7	164.7	178.2	166.2	152.7	145.2	143.7	140.8
50°	127.3	128.8	134.8	140.8	155.7	163.2	155.7	140.8	133.3	128.8	128.8
52°	115.3	119.8	125.8	137.8	148.2	160.2	151.2	134.8	125.8	121.3	118.3
52.5°	113.8	116.8	122.8	136.3	148.2	158.7	149.7	133.3	122.8	119.8	116.8
55°	101.8	106.3	116.8	133.3	146.7	158.7	146.7	131.8	116.8	109.3	106.3
57.5°	97.3	100.3	113.8	134.8	145.2	158.7	146.7	131.8	116.8	103.3	100.3
60°	92.8	98.8	113.8	130.3	143.7	160.2	148.2	130.3	113.8	97.3	97.3
62.5°	88.3	92.8	112.3	127.3	137.8	154.2	142.3	127.3	109.3	92.8	91.3
65°	76.4	83.9	98.8	106.3	118.3	133.3	121.3	110.8	95.8	82.4	80.9
67.5°	58.4	61.4	73.4	82.4	89.8	103.3	97.3	83.9	73.4	62.9	62.9
70°	40.4	43.4	52.4	56.9	64.4	71.9	67.4	56.9	49.4	43.4	41.9
72.5°	28.5	29.9	32.9	35.9	38.9	41.9	40.4	32.9	28.5	27.0	25.5
75°	22.5	25.5	27.0	25.5	24.0	22.5	22.5	19.5	16.5	15.0	15.0
77.5°	22.5	24.0	22.5	19.5	16.5	15.0	13.5	12.0	9.0	7.5	9.0
80°	19.5	19.5	19.5	16.5	15.0	13.5	12.0	10.5	9.0	7.5	7.5
82.5°	21.0	21.0	19.5	16.5	16.5	13.5	13.5	12.0	10.5	7.5	7.5
85°	0.0	0.0	0.0	3.0	7.5	13.5	13.5	12.0	10.5	9.0	9.0
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	6.0	7.5	9.0	9.0	9.0
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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	3306.2	3363.1	3470.9	3578.7	3644.6	3722.5	3863.2	3938.1	4035.4	4083.3	4177.7
5°	2663.8	2798.6	2846.5	2969.3	3101.1	3232.8	3442.5	3673.1	3864.7	3996.5	4167.2
7.5°	1943.6	1975.0	2160.7	2243.1	2458.7	2698.3	2984.3	3274.8	3517.3	3732.9	3863.2
10°	1456.9	1572.2	1689.0	1846.3	2020.0	2267.0	2541.0	2861.5	3175.9	3391.5	3556.3
12.5°	1170.9	1262.3	1418.0	1587.2	1801.3	1964.6	2240.1	2557.5	2964.8	3175.9	3393.0
15°	886.4	1003.2	1179.9	1355.1	1581.2	1753.4	2031.9	2431.7	2955.8	3246.3	3433.5
17.5°	657.3	736.7	895.4	1091.6	1322.2	1564.8	1940.6	2418.3	3056.1	3402.0	3595.2
20°	503.1	530.1	630.4	805.6	1055.6	1373.1	1792.4	2476.7	3352.6	3780.9	3977.0
22.5°	407.3	419.3	458.2	579.5	822.1	1205.4	1722.0	2517.1	3686.5	4234.6	4496.6
25°	354.9	351.9	377.3	429.7	642.4	1048.2	1632.1	2669.8	4095.3	4767.6	5002.7
27.5°	323.4	323.4	335.4	372.8	533.1	946.3	1575.2	2779.1	4507.1	5236.3	5363.6
30°	307.0	310.0	344.4	356.4	443.2	825.1	1480.9	2889.9	4900.9	5535.8	5711.0
32.5°	284.5	272.5	265.0	295.0	372.8	715.7	1386.6	2936.3	5219.8	5902.6	6052.4
35°	218.6	212.6	221.6	244.1	320.4	622.9	1281.7	2988.8	5586.7	6327.9	6357.8
37.5°	197.7	196.2	202.1	221.6	269.5	542.0	1206.9	2975.3	5866.7	6679.8	6598.9
40°	182.7	182.7	187.2	203.6	241.1	485.1	1129.0	2963.3	6137.7	7075.1	6838.5
42.5°	170.7	170.7	178.2	188.7	229.1	447.7	1070.6	2946.8	6365.3	7317.7	6979.2
45°	154.2	158.7	170.7	181.2	232.1	422.3	1027.2	2883.9	6443.2	7314.7	6911.9
47.5°	142.3	148.2	160.2	175.2	209.6	414.8	997.2	2828.5	6416.2	7135.0	6700.7
50°	128.8	136.3	152.7	178.2	178.2	399.8	965.8	2877.9	6396.8	6995.7	6498.6
52°	119.8	125.8	146.7	173.7	155.7	368.4	946.3	2973.8	6476.1	6977.7	6408.7
52.5°	118.3	122.8	142.3	170.7	148.2	362.4	932.9	2996.2	6501.6	6932.8	6470.1
55°	104.8	110.8	130.3	133.3	121.3	298.0	889.4	3047.2	6375.8	6844.5	6411.7
57.5°	98.8	101.8	115.3	109.3	104.8	224.6	765.2	2967.8	5663.1	6079.3	5965.5
60°	91.3	94.3	107.8	85.4	88.3	157.2	575.0	2577.0	4547.5	5065.6	5270.7
62.5°	88.3	86.8	101.8	68.9	74.9	113.8	405.8	2094.8	3503.8	4170.2	4525.1
65°	77.9	76.4	73.4	58.4	64.4	88.3	242.6	1367.1	2469.2	3155.0	3349.6
67.5°	59.9	62.9	53.9	46.4	53.9	68.9	134.8	612.4	1295.2	1892.7	2049.9
70°	41.9	44.9	43.4	40.4	47.9	56.9	77.9	209.6	536.1	994.3	1096.1
72.5°	25.5	31.4	32.9	34.4	41.9	49.4	55.4	67.4	142.3	351.9	437.2
75°	15.0	21.0	25.5	29.9	34.4	41.9	46.4	47.9	49.4	65.9	106.3
77.5°	10.5	15.0	22.5	28.5	34.4	41.9	49.4	52.4	49.4	46.4	49.4
80°	9.0	15.0	21.0	27.0	35.9	43.4	49.4	49.4	47.9	41.9	44.9
82.5°	9.0	15.0	22.5	28.5	34.4	41.9	47.9	49.4	44.9	41.9	43.4
85°	10.5	16.5	24.0	29.9	37.4	34.4	31.4	25.5	24.0	19.5	21.0
87.5°	10.5	15.0	15.0	16.5	18.0	18.0	18.0	16.5	13.5	12.0	12.0
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°	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3	3827.3
2.5°	4182.2	4301.9	4297.5	4300.4	4282.5	4161.2	4102.8	3954.6	3996.5	3978.5
5°	4342.4	4460.7	4562.5	4550.5	4412.8	4248.0	4004.0	3773.4	3710.5	3617.6
7.5°	4182.2	4466.7	4561.0	4547.5	4343.9	4132.7	3743.4	3512.8	3403.5	3342.1
10°	3927.6	4257.0	4373.8	4397.8	4260.0	3939.6	3581.7	3211.9	3153.5	3047.2
12.5°	3782.4	4021.9	4093.8	4158.2	4110.3	3870.7	3458.9	3104.1	3023.2	2952.8
15°	3664.1	3806.3	3836.3	3909.6	3938.1	3809.3	3523.3	3220.8	3021.7	3014.2
17.5°	3773.4	3715.0	3605.7	3628.1	3718.0	3810.8	3689.5	3451.4	3258.3	3234.3
20°	3954.6	3697.0	3449.9	3505.3	3580.2	3864.7	3941.1	3773.4	3662.6	3601.2
22.5°	4162.7	3728.5	3400.5	3427.5	3569.7	3986.0	4348.4	4255.5	4048.9	3960.5
25°	4547.5	3815.3	3439.5	3457.4	3652.1	4155.2	4716.7	4785.6	4662.8	4644.8
27.5°	4923.4	4039.9	3524.8	3484.4	3694.0	4319.9	4939.8	5309.7	5094.1	5052.1
30°	5115.0	4222.6	3652.1	3583.2	3867.7	4420.2	5074.6	5651.1	5462.4	5442.9
32.5°	5408.5	4388.8	3750.9	3662.6	3965.0	4544.5	5326.1	6023.9	5841.2	5743.9
35°	5531.3	4570.0	3968.0	3864.7	4243.5	4718.2	5454.9	6356.3	6299.4	6205.1
37.5°	5767.9	4764.6	4224.1	4218.1	4580.5	4944.3	5687.0	6808.5	6798.1	6634.9
40°	5787.3	4977.3	4628.4	4817.0	5101.5	5338.1	5890.7	6934.3	7105.0	6994.2
42.5°	5817.3	5350.1	5327.6	5483.4	5727.4	5676.5	5898.1	6964.3	7224.8	7158.9
45°	5830.8	5723.0	6038.9	6326.4	6428.2	6119.8	5827.8	6907.4	7287.7	7123.0
47.5°	5723.0	6043.4	6613.9	7169.4	7199.4	6392.3	5797.8	6849.0	7325.1	7215.8
50°	5737.9	6244.0	7111.0	7608.1	7498.8	6633.4	5751.4	6813.0	7305.7	7232.3
52°	5702.0	6248.5	7181.4	7599.2	7522.8	6500.1	5672.0	6675.3	7287.7	7340.1
52.5°	5742.4	6221.6	7108.0	7605.1	7506.3	6566.0	5661.6	6751.6	7298.2	7191.9
55°	5603.2	5901.1	6678.3	6889.4	6874.4	5959.5	5339.6	6498.6	7024.2	7025.7
57.5°	5064.1	5115.0	5237.8	5233.3	5164.4	4685.3	4567.0	5976.0	6262.0	6106.3
60°	4462.2	3744.9	3414.0	3279.2	3202.9	3125.0	4039.9	5466.9	5493.9	5428.0
62.5°	3855.7	2596.4	2156.2	2118.8	2136.7	2421.2	3905.1	5264.8	5103.0	4960.8
65°	3111.5	1892.7	1566.3	1516.8	1692.0	1999.0	3161.0	4036.9	3788.3	3670.1
67.5°	1954.1	1380.6	1058.6	965.8	1176.9	1376.1	2076.9	2536.5	2258.0	2094.8
70°	1159.0	771.1	479.2	429.7	483.7	733.7	1163.5	1265.3	1046.7	962.8
72.5°	456.7	283.0	133.3	113.8	118.3	257.5	428.2	417.8	315.9	281.5
75°	122.8	85.4	46.4	37.4	31.4	47.9	68.9	44.9	16.5	21.0
77.5°	56.9	50.9	40.4	31.4	24.0	18.0	9.0	3.0	3.0	1.5
80°	49.4	43.4	37.4	31.4	24.0	15.0	7.5	1.5	1.5	1.5
82.5°	46.4	40.4	34.4	28.5	22.5	15.0	7.5	1.5	0.0	0.0
85°	19.5	25.5	28.5	27.0	24.0	15.0	7.5	1.5	0.0	0.0
87.5°	10.5	9.0	7.5	6.0	4.5	3.0	3.0	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

(END OF REPORT)