

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: P452524

Luminaire Tested: **GALN-SA3C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12605 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

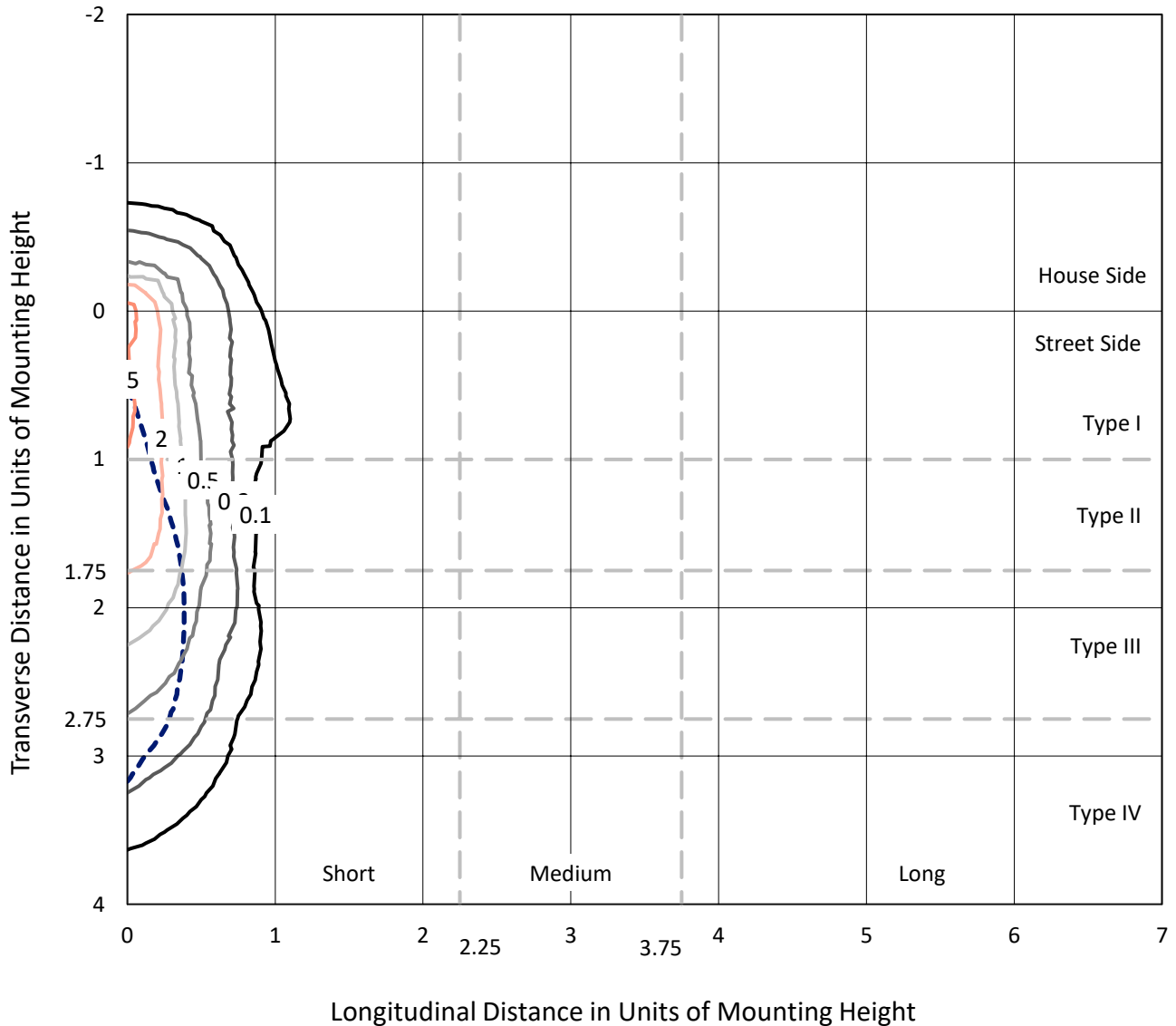
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

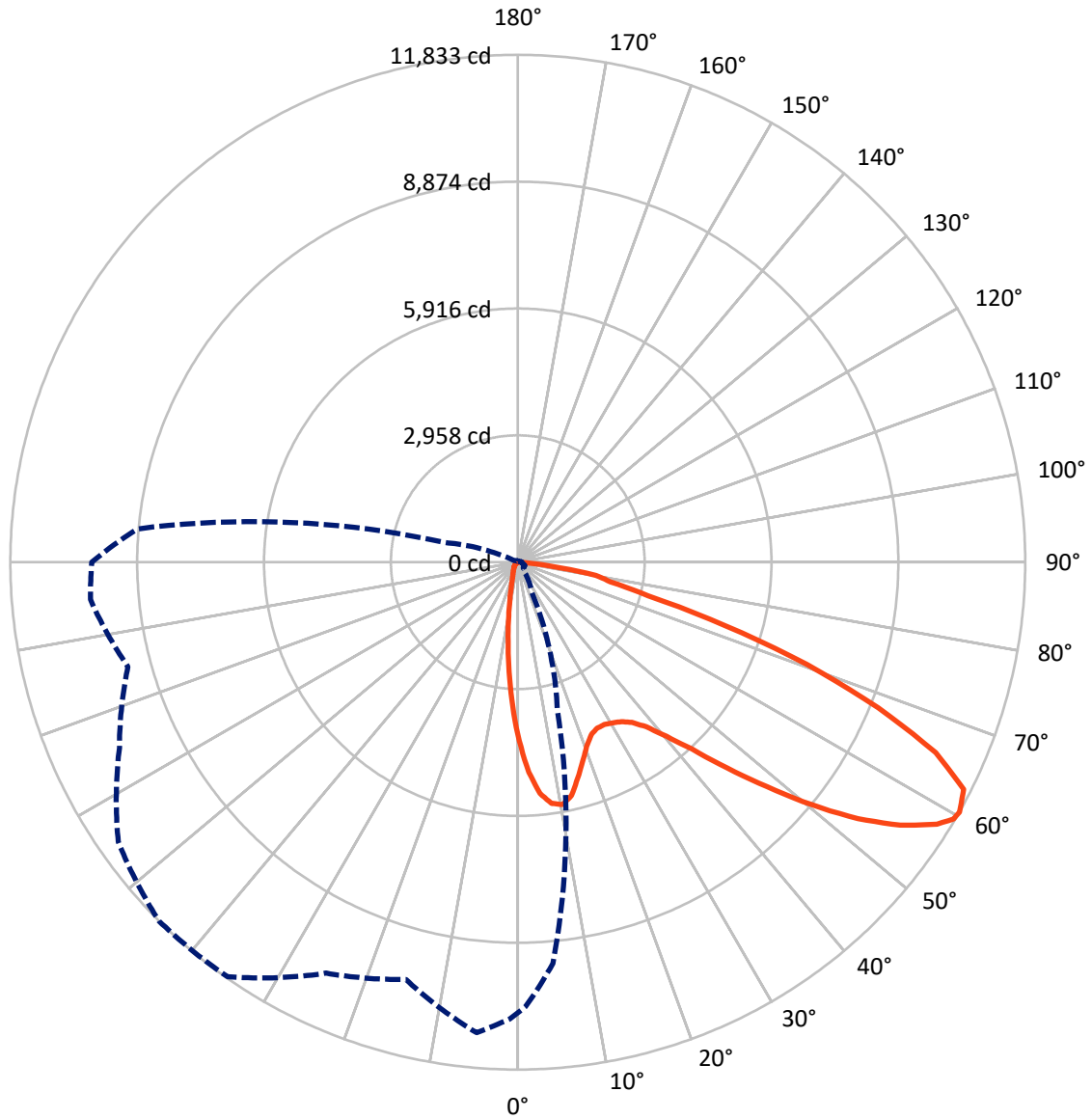
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1554.7	0.0	1554.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11050.3	0.0	11050.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	12605.0	0.0	12605.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	2.5
10°-20°	615.4	4.9
20°-30°	902.3	7.2
30°-40°	1341.9	10.6
40°-50°	1952.9	15.5
50°-60°	2816.2	22.3
60°-70°	3097.6	24.6
70°-80°	1387.5	11.0
80°-90°	181.3	1.4
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°	12605.0	100.0
0°-180°	12605.0	100.0



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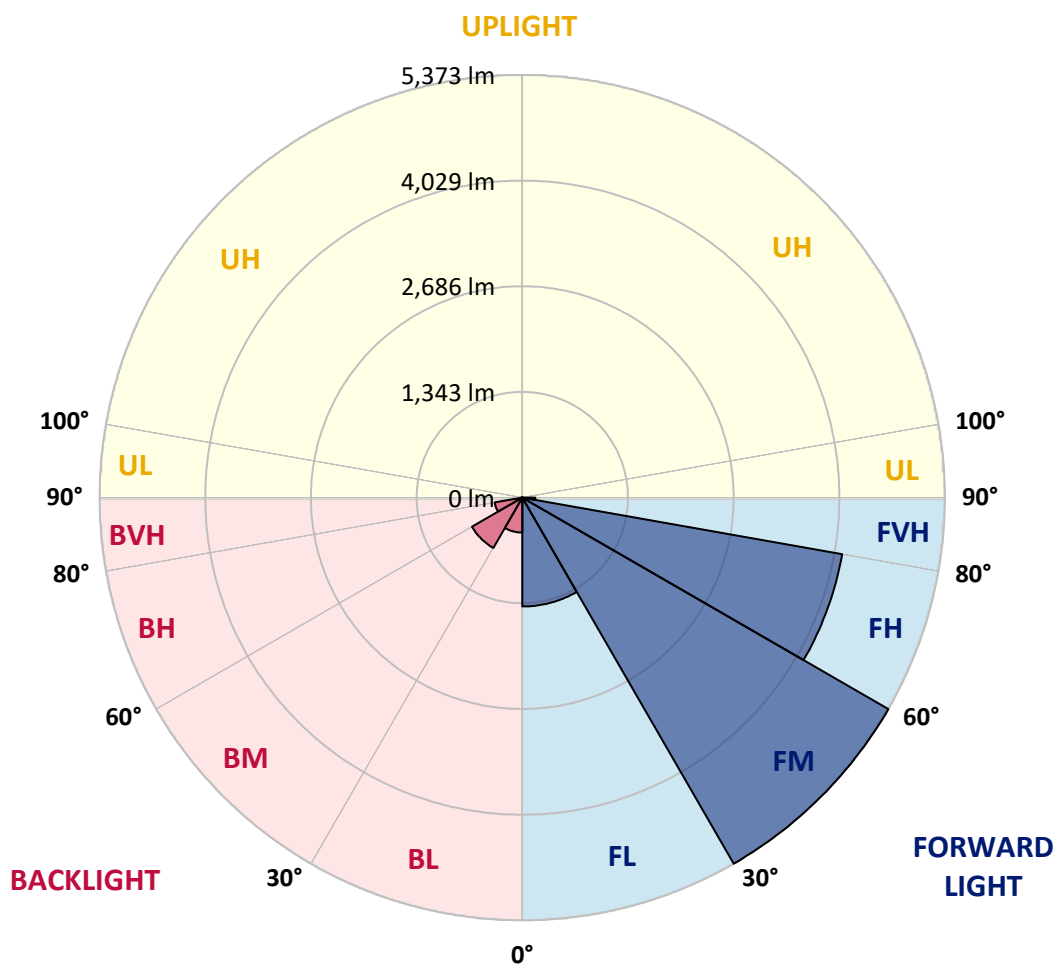
CATALOG NUMBER: GALN-SA3C-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.4	11.0			
FM	(30°-60°)	5372.6	42.6			
FH	(60°-80°)	4128.5	32.8			G2/5000
FVH	(80°-90°)	165.8	1.3			G2/225
BL	(0°-30°)	444.2	3.5	B1/500		
BM	(30°-60°)	738.4	5.9	B1/1000		
BH	(60°-80°)	356.5	2.8	B1/500		G1/500
BVH	(80°-90°)	15.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1
2.5°	4580.1	4559.9	4513.9	4374.1	4252.4	4093.3	3932.3	3805.9	3728.2	3585.5	3520.3
5°	4437.3	4446.9	4313.7	4026.2	3706.2	3487.7	3249.2	3059.4	2850.6	2718.3	2579.4
7.5°	4064.6	4045.4	3900.7	3500.2	3111.2	2795.0	2493.2	2247.9	2093.6	1970.0	1866.5
10°	3745.5	3731.1	3546.2	3030.7	2612.9	2376.3	2172.2	1957.5	1791.8	1610.7	1466.0
12.5°	3545.2	3512.7	3299.9	2761.5	2421.3	2200.9	1978.6	1755.4	1526.4	1343.4	1168.0
15°	3478.2	3431.2	3194.5	2668.5	2298.7	2018.9	1740.0	1483.3	1219.8	1017.6	885.4
17.5°	3599.9	3522.2	3270.2	2652.2	2152.1	1781.2	1438.2	1103.8	829.8	675.5	594.1
20°	3878.7	3789.6	3461.9	2635.9	1989.2	1514.9	1093.3	780.0	573.9	489.6	444.6
22.5°	4292.6	4170.0	3745.5	2661.8	1838.7	1255.2	789.5	550.9	456.1	403.4	371.8
25°	4789.9	4687.4	4104.8	2753.8	1719.9	1051.1	610.4	450.3	384.2	351.6	327.7
27.5°	5335.1	5171.3	4569.5	2864.0	1611.6	893.0	535.6	402.4	342.1	312.4	299.9
30°	5723.2	5595.7	4958.5	2940.6	1476.5	774.2	489.6	396.7	343.0	307.6	284.6
32.5°	6106.4	5943.5	5284.3	2976.1	1377.9	691.8	423.5	345.9	300.9	282.7	259.7
35°	6516.5	6346.0	5609.1	2956.9	1304.1	637.2	384.2	308.5	257.7	227.1	204.1
37.5°	6931.4	6751.3	5932.0	2887.9	1258.1	615.1	353.6	293.2	243.4	211.8	186.8
40°	7423.9	7183.4	6234.8	2831.4	1210.2	603.6	333.4	283.6	232.8	199.3	174.4
42.5°	7826.4	7597.3	6521.3	2801.7	1177.6	576.8	333.4	276.0	226.1	188.8	162.9
45°	8207.7	7970.1	6830.8	2825.6	1164.2	543.3	337.3	275.0	221.3	181.1	155.2
47.5°	8526.8	8320.8	7148.9	2915.7	1146.9	506.9	317.2	288.4	218.5	174.4	147.6
50°	8903.3	8704.0	7569.6	3097.8	1116.3	470.5	292.2	310.4	217.5	168.6	140.9
52.5°	9434.2	9218.6	8150.2	3304.7	1067.4	414.9	269.2	307.6	213.7	159.1	134.1
55°	10082.8	9908.5	8822.8	3552.9	1000.3	352.6	232.8	273.1	202.2	142.8	122.6
57.5°	10498.7	10350.2	9326.8	3660.2	897.8	288.4	205.0	229.0	184.9	127.4	109.2
59°	10547.6	10413.4	9432.2	3624.8	830.7	263.5	191.6	196.4	180.1	118.8	101.6
60°	10506.4	10367.4	9390.1	3555.8	768.5	246.3	180.1	174.4	181.1	114.0	95.8
62.5°	10241.9	10004.3	8980.9	3206.0	671.7	226.1	160.0	142.8	160.0	102.5	85.3
65°	9731.2	9374.8	8171.3	2713.5	633.4	214.6	136.1	119.8	121.7	90.1	73.8
67.5°	8839.1	8389.8	7093.3	2204.8	617.1	215.6	115.0	107.3	93.9	76.7	65.2
70°	7428.7	6980.3	5691.5	1813.8	609.4	215.6	97.7	92.0	78.6	64.2	56.5
72.5°	5264.2	4781.3	3839.4	1424.8	549.0	214.6	83.4	83.4	64.2	53.7	46.0
75°	2974.2	2978.0	2413.6	1008.0	456.1	177.3	67.1	66.1	47.0	41.2	34.5
77.5°	1733.3	1702.7	1627.0	433.1	211.8	80.5	47.0	40.2	32.6	29.7	24.9
80°	891.1	733.0	713.8	157.1	75.7	50.8	32.6	23.0	21.1	19.2	17.2
82.5°	263.5	264.5	235.7	63.2	42.2	33.5	16.3	12.5	11.5	10.5	10.5
85°	18.2	11.5	13.4	19.2	25.9	13.4	1.0	2.9	2.9	3.8	4.8
87.5°	1.9	1.0	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°	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1
2.5°	3448.5	3490.6	3412.1	3414.0	3348.8	3369.9	3293.2	3318.2	3273.1	3307.6	3409.2
5°	2594.7	2604.3	2541.1	2521.0	2530.5	2569.8	2585.1	2515.2	2544.9	2486.5	2482.6
7.5°	1828.2	1839.7	1803.3	1798.5	1867.5	1851.2	1880.9	1809.0	1741.0	1770.7	1716.1
10°	1420.0	1372.1	1297.4	1276.3	1262.9	1271.5	1271.5	1206.3	1196.8	1170.9	1210.2
12.5°	1121.1	1062.6	991.7	895.9	871.9	870.0	834.6	777.1	758.9	736.8	769.4
15°	814.4	790.5	731.1	677.4	622.8	612.3	554.8	507.8	445.6	436.9	434.1
17.5°	573.0	537.5	536.6	505.9	474.3	453.2	399.6	345.9	321.9	319.1	319.1
20°	429.3	416.8	396.7	392.9	383.3	359.3	311.4	282.7	271.2	272.1	276.0
22.5°	361.2	352.6	334.4	325.8	321.9	300.9	265.4	246.3	240.5	240.5	241.5
25°	322.9	315.2	295.1	281.7	276.9	261.6	233.8	219.4	214.6	214.6	214.6
27.5°	294.2	284.6	263.5	252.0	243.4	226.1	208.9	194.5	189.7	189.7	190.7
30°	274.0	263.5	244.3	229.0	215.6	200.3	185.9	173.4	167.7	166.7	167.7
32.5°	247.2	237.6	218.5	208.9	193.6	175.3	163.8	152.3	146.6	147.6	146.6
35°	192.6	189.7	176.3	179.2	170.6	155.2	144.7	132.2	125.5	124.6	126.5
37.5°	175.3	163.8	148.5	149.5	146.6	140.9	123.6	110.2	105.4	105.4	106.4
40°	161.9	150.4	133.2	124.6	125.5	125.5	107.3	92.9	88.2	87.2	89.1
42.5°	150.4	138.9	119.8	105.4	101.6	106.4	91.0	76.7	71.9	69.9	71.9
45°	142.8	130.3	108.3	92.0	80.5	86.2	74.7	63.2	57.5	57.5	56.5
47.5°	135.1	123.6	99.6	79.5	67.1	64.2	61.3	50.8	45.0	44.1	45.0
50°	128.4	116.9	90.1	69.0	56.5	49.8	49.8	40.2	36.4	34.5	35.5
52.5°	121.7	109.2	81.4	61.3	48.9	40.2	35.5	32.6	29.7	28.7	29.7
55°	112.1	99.6	72.8	52.7	42.2	33.5	27.8	26.8	24.9	23.0	24.9
57.5°	100.6	89.1	64.2	45.0	33.5	25.9	23.0	22.0	20.1	19.2	19.2
59°	93.9	83.4	59.4	39.3	29.7	23.0	21.1	20.1	18.2	16.3	17.2
60°	90.1	81.4	56.5	36.4	26.8	21.1	19.2	18.2	16.3	15.3	16.3
62.5°	79.5	72.8	49.8	29.7	21.1	15.3	13.4	14.4	13.4	12.5	13.4
65°	69.9	64.2	42.2	23.0	16.3	10.5	9.6	12.5	11.5	10.5	11.5
67.5°	62.3	55.6	35.5	17.2	11.5	5.7	6.7	10.5	10.5	9.6	10.5
70°	53.7	47.9	28.7	12.5	5.7	2.9	4.8	7.7	9.6	8.6	9.6
72.5°	44.1	37.4	22.0	8.6	2.9	0.0	2.9	6.7	9.6	8.6	9.6
75°	34.5	27.8	16.3	4.8	0.0	0.0	1.0	5.7	9.6	8.6	9.6
77.5°	24.9	20.1	9.6	1.0	0.0	0.0	1.0	5.7	9.6	8.6	9.6
80°	16.3	14.4	3.8	0.0	0.0	0.0	1.0	5.7	9.6	9.6	10.5
82.5°	10.5	7.7	0.0	0.0	0.0	0.0	1.9	7.7	10.5	11.5	11.5
85°	4.8	0.0	0.0	0.0	0.0	0.0	3.8	9.6	12.5	12.5	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	6.7	11.5	14.4	14.4	14.4
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°	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1
2.5°	3426.4	3486.8	3572.1	3703.3	3809.7	3977.4	4105.8	4281.1	4458.4	4512.0	4595.4
5°	2521.9	2599.5	2793.1	2969.4	3080.5	3435.0	3659.3	4012.8	4330.0	4482.3	4648.1
7.5°	1751.5	1843.5	1991.1	2237.3	2471.1	2759.5	3121.7	3526.1	3990.8	4208.3	4442.1
10°	1229.3	1344.3	1552.2	1754.4	2048.6	2322.6	2680.0	3126.5	3639.1	3895.9	4189.1
12.5°	776.1	878.6	1153.6	1380.7	1747.7	2065.8	2395.4	2799.8	3393.8	3657.3	3964.9
15°	443.6	529.9	658.3	949.5	1356.8	1777.4	2188.5	2658.0	3268.3	3593.1	3925.6
17.5°	330.6	353.6	411.1	575.9	946.7	1438.2	1997.8	2614.9	3353.6	3735.0	4114.4
20°	277.9	293.2	320.0	385.2	603.6	1107.6	1811.9	2622.5	3629.6	4108.6	4468.9
22.5°	249.1	258.7	280.7	322.9	412.0	806.8	1594.4	2667.6	3964.0	4567.6	4983.5
25°	218.5	230.9	250.1	286.5	343.0	559.6	1379.8	2768.2	4432.5	5150.2	5541.1
27.5°	194.5	206.0	225.2	258.7	300.9	427.3	1129.7	2854.4	4926.9	5736.6	6056.6
30°	170.6	182.1	201.2	228.0	266.4	345.9	860.4	2905.2	5407.0	6176.4	6422.6
32.5°	150.4	160.0	178.2	202.2	233.8	293.2	678.4	2852.5	5773.9	6575.9	6740.7
35°	130.3	141.8	157.1	179.2	207.0	250.1	564.4	2670.4	6089.2	6987.0	7046.4
37.5°	109.2	122.6	138.9	159.1	181.1	230.0	453.2	2469.2	6426.5	7499.6	7401.9
40°	92.0	104.4	119.8	141.8	161.9	210.8	348.8	2254.6	6790.6	7980.6	7789.9
42.5°	74.7	88.2	106.4	126.5	160.0	184.0	270.2	2032.3	7117.3	8399.3	8140.6
45°	59.4	70.9	90.1	115.9	159.1	158.1	208.9	1812.9	7363.6	8698.3	8402.2
47.5°	47.0	56.5	75.7	113.1	146.6	134.1	167.7	1676.8	7622.3	8967.5	8602.5
50°	37.4	47.0	65.2	117.9	128.4	115.0	140.9	1698.8	7872.3	9104.6	8684.9
52.5°	31.6	41.2	56.5	92.9	98.7	100.6	123.6	1800.4	8195.2	9251.2	8848.7
55°	27.8	36.4	47.9	65.2	76.7	90.1	113.1	1874.2	8627.4	9565.4	9210.0
57.5°	22.0	31.6	43.1	55.6	63.2	78.6	104.4	1879.9	9018.3	9968.8	9690.0
59°	20.1	28.7	40.2	52.7	56.5	70.9	98.7	1831.1	9032.7	10029.2	9910.4
60°	18.2	27.8	38.3	48.9	53.7	67.1	93.9	1774.5	8902.4	9933.4	10001.4
62.5°	15.3	24.0	33.5	39.3	46.0	55.6	81.4	1569.5	8270.9	9499.3	9832.8
65°	13.4	21.1	28.7	32.6	38.3	47.9	71.9	1256.2	7573.4	8911.0	9349.8
67.5°	12.5	19.2	24.9	27.8	33.5	44.1	64.2	887.3	6669.8	8164.6	8624.5
70°	11.5	18.2	22.0	25.9	29.7	37.4	54.6	517.4	5137.7	6855.7	7341.5
72.5°	11.5	17.2	19.2	22.0	25.9	33.5	50.8	279.8	3512.7	5229.7	5857.3
75°	11.5	16.3	17.2	19.2	23.0	30.7	45.0	146.6	2270.9	3633.4	4484.2
77.5°	11.5	15.3	17.2	18.2	22.0	26.8	39.3	92.0	1513.0	2544.9	3030.7
80°	12.5	15.3	16.3	18.2	21.1	24.9	32.6	61.3	889.2	1531.2	1844.5
82.5°	13.4	15.3	17.2	19.2	22.0	24.0	28.7	38.3	410.1	1012.8	1146.0
85°	14.4	16.3	18.2	20.1	23.0	24.0	26.8	27.8	67.1	457.0	618.0
87.5°	15.3	17.2	19.2	21.1	24.9	24.9	24.9	24.9	23.0	48.9	124.6
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°	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1	4166.1
2.5°	4700.8	4809.1	4884.8	4903.9	4849.3	4824.4	4755.4	4648.1	4582.9	4580.1
5°	4953.8	5207.7	5384.0	5413.7	5308.3	5130.1	4918.3	4645.2	4485.2	4437.3
7.5°	4910.6	5355.2	5638.8	5680.0	5502.8	5162.6	4752.5	4312.7	4138.3	4064.6
10°	4733.4	5275.7	5681.0	5746.2	5509.5	5030.4	4509.2	4018.6	3802.0	3745.5
12.5°	4582.0	5130.1	5490.3	5580.4	5401.2	4923.1	4363.5	3829.8	3597.9	3545.2
15°	4515.9	4957.6	5178.0	5224.0	5194.3	4856.0	4348.2	3801.1	3535.7	3478.2
17.5°	4582.0	4811.0	4838.8	4885.7	4951.8	4849.3	4495.7	3957.3	3670.8	3599.9
20°	4755.4	4683.5	4568.6	4588.7	4740.1	4877.1	4758.3	4303.2	3954.4	3878.7
22.5°	5050.5	4651.9	4391.3	4374.1	4565.7	4970.0	5143.5	4771.7	4367.3	4292.6
25°	5412.7	4731.5	4326.1	4288.8	4497.7	5106.1	5562.2	5345.6	4903.9	4789.9
27.5°	5807.5	4896.3	4326.1	4289.7	4491.9	5226.8	5920.5	5853.5	5459.7	5335.1
30°	6024.0	5032.3	4388.4	4347.2	4562.8	5296.8	6112.2	6304.8	5877.4	5723.2
32.5°	6217.6	5221.1	4510.1	4432.5	4711.3	5400.3	6283.7	6688.0	6209.9	6106.4
35°	6395.8	5423.3	4677.8	4587.7	4906.8	5542.1	6473.4	7090.5	6672.7	6516.5
37.5°	6592.2	5658.0	4939.4	4862.7	5233.5	5818.0	6698.6	7619.4	7127.8	6931.4
40°	6805.9	5930.1	5369.6	5337.0	5752.9	6130.4	6983.2	8183.7	7647.2	7423.9
42.5°	7023.4	6243.4	5896.6	5950.2	6341.2	6568.3	7275.4	8617.8	8072.6	7826.4
45°	7220.8	6644.0	6581.7	6847.1	7027.2	6995.6	7491.9	8923.5	8443.4	8207.7
47.5°	7469.9	7227.5	7410.5	7819.6	7824.4	7460.3	7655.8	9173.5	8762.5	8526.8
50°	7748.7	7916.4	8480.8	8897.6	8785.5	7917.4	7847.4	9469.6	9092.1	8903.3
52.5°	8071.6	8687.7	9469.6	9932.4	9670.8	8415.6	8166.5	9789.6	9615.3	9434.2
55°	8447.2	9213.8	10455.6	10824.5	10561.0	9034.6	8651.3	10223.7	10206.5	10082.8
57.5°	8871.7	9769.5	11026.6	11525.9	11291.1	9760.9	9328.8	10632.8	10567.7	10498.7
59°	9207.1	10055.1	11278.6	11796.1	11654.2	10269.7	9783.9	10887.7	10651.0	10547.6
60°	9410.2	10248.6	11371.6	11832.5	11799.9	10572.5	10072.3	11012.3	10650.1	10506.4
62.5°	10012.9	10586.8	11336.1	11670.5	11798.0	11153.1	10918.4	11149.3	10452.7	10241.9
65°	10227.5	10474.7	10748.8	10707.6	10816.8	11123.4	11458.8	10998.9	10031.1	9731.2
67.5°	9809.8	9245.4	9342.2	9067.2	9013.5	9889.3	11239.4	10263.0	9206.1	8839.1
70°	8269.0	7082.8	7033.9	7160.4	6813.6	8006.5	10092.4	8845.8	7844.6	7428.7
72.5°	6508.9	5005.5	4593.5	5059.1	5048.6	6108.3	8384.0	6277.0	5299.7	5264.2
75°	5118.6	3484.9	3058.5	3134.2	3279.8	4422.0	6677.5	3986.0	3263.5	2974.2
77.5°	3436.0	2469.2	2303.4	2210.5	2367.6	2839.1	4224.6	2161.6	1830.1	1733.3
80°	1980.5	1793.7	2037.1	1849.3	1933.6	1788.9	2101.3	991.7	823.1	891.1
82.5°	1288.7	1021.4	1088.5	808.7	1105.7	1115.3	674.6	293.2	248.2	263.5
85°	805.8	479.1	269.2	191.6	381.4	701.4	210.8	18.2	21.1	18.2
87.5°	208.9	79.5	33.5	49.8	61.3	54.6	48.9	2.9	1.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)