

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: P458933

Luminaire Tested: **GALN-SA4C-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458933
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-SA4C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 18606 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

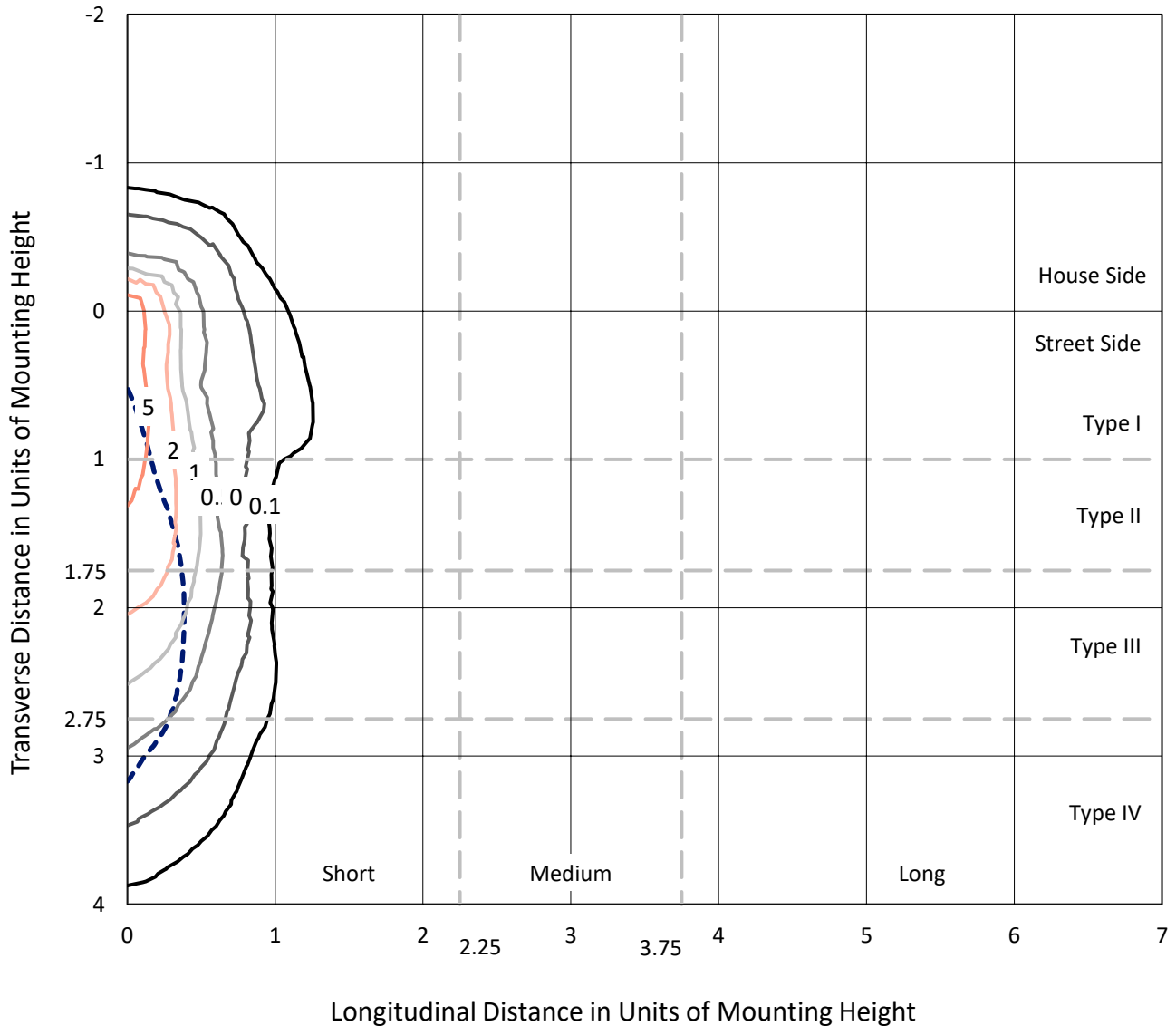
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

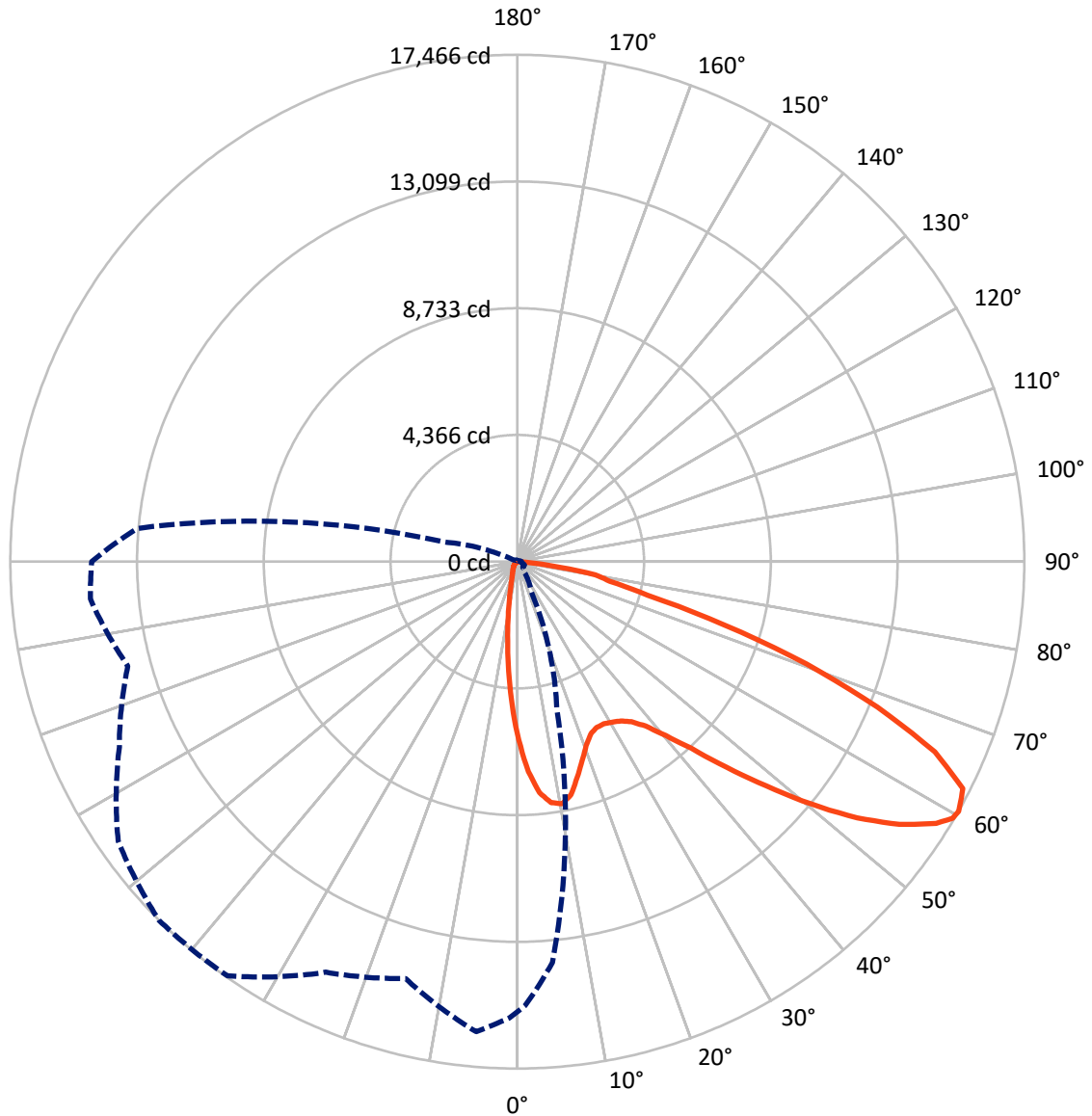
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	2294.9	0.0	2294.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16311.1	0.0	16311.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	18606.0	0.0	18606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.4	2.5
10°-20°	908.4	4.9
20°-30°	1331.9	7.2
30°-40°	1980.8	10.6
40°-50°	2882.7	15.5
50°-60°	4157.0	22.3
60°-70°	4572.3	24.6
70°-80°	2048.0	11.0
80°-90°	267.6	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°	18606.0	100.0
0°-180°	18606.0	100.0

Coefficient of Utilization



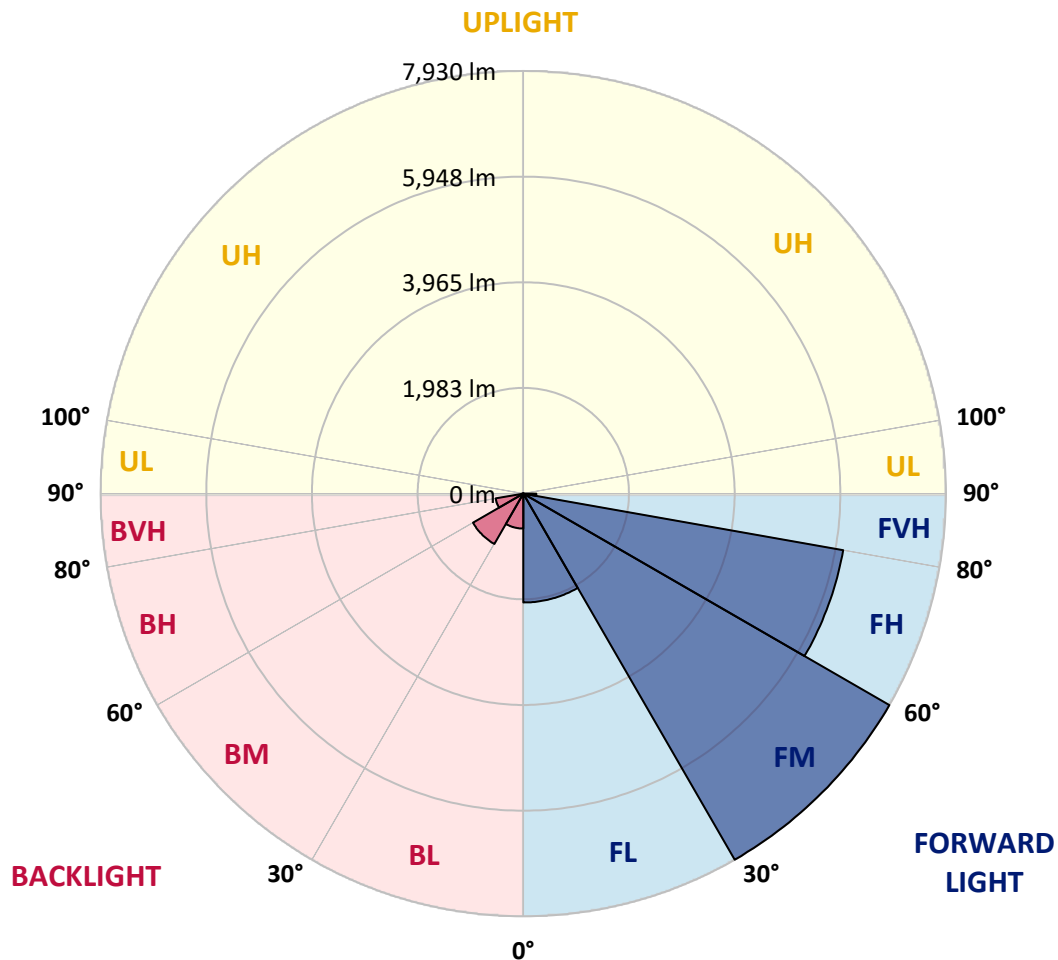
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.9	11.0			
FM (30°-60°)	7930.4	42.6			
FH (60°-80°)	6094.0	32.8			G3/7500
FVH (80°-90°)	244.7	1.3			G3/500
BL (0°-30°)	655.7	3.5	B2/1000		
BM (30°-60°)	1090.0	5.9	B2/2500		
BH (60°-80°)	526.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	22.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5
2.5°	6760.5	6730.8	6663.0	6456.5	6276.8	6042.1	5804.5	5617.8	5503.2	5292.5	5196.3
5°	6549.8	6564.0	6367.4	5943.1	5470.7	5148.2	4796.0	4516.0	4207.7	4012.5	3807.4
7.5°	5999.6	5971.3	5757.8	5166.6	4592.4	4125.6	3680.1	3318.0	3090.3	2907.9	2755.1
10°	5528.7	5507.4	5234.5	4473.6	3856.9	3507.6	3206.3	2889.5	2644.8	2377.5	2163.9
12.5°	5233.1	5185.0	4871.0	4076.1	3574.0	3248.7	2920.6	2591.1	2253.0	1982.9	1724.1
15°	5134.1	5064.8	4715.4	3938.9	3393.0	2980.0	2568.4	2189.4	1800.5	1502.0	1306.8
17.5°	5313.7	5199.1	4827.1	3914.9	3176.6	2629.3	2122.9	1629.3	1224.8	997.1	876.9
20°	5725.2	5593.7	5110.0	3890.8	2936.2	2236.1	1613.8	1151.3	847.2	722.7	656.3
22.5°	6336.2	6155.2	5528.7	3929.0	2714.1	1852.8	1165.4	813.2	673.2	595.4	548.8
25°	7070.3	6918.9	6059.0	4064.8	2538.7	1551.5	900.9	664.7	567.2	519.1	483.7
27.5°	7875.0	7633.2	6745.0	4227.5	2378.9	1318.2	790.6	594.0	504.9	461.1	442.7
30°	8447.9	8259.7	7319.2	4340.6	2179.5	1142.8	722.7	585.5	506.3	454.0	420.1
32.5°	9013.6	8773.1	7800.1	4392.9	2033.8	1021.2	625.1	510.6	444.1	417.2	383.3
35°	9618.9	9367.2	8279.5	4364.7	1924.9	940.5	567.2	455.4	380.5	335.2	301.3
37.5°	10231.3	9965.4	8756.2	4262.8	1857.0	908.0	521.9	432.8	359.2	312.6	275.8
40°	10958.3	10603.3	9203.1	4179.4	1786.3	891.0	492.2	418.6	343.7	294.2	257.4
42.5°	11552.3	11214.3	9626.0	4135.5	1738.2	851.4	492.2	407.3	333.8	278.6	240.4
45°	12115.2	11764.5	10082.8	4170.9	1718.4	801.9	497.8	405.9	326.7	267.3	229.1
47.5°	12586.2	12282.1	10552.4	4303.8	1693.0	748.2	468.1	425.7	322.5	257.4	217.8
50°	13142.0	12847.9	11173.3	4572.6	1647.7	694.4	431.4	458.2	321.1	248.9	207.9
52.5°	13925.6	13607.4	12030.4	4878.1	1575.6	612.4	397.4	454.0	315.4	234.8	198.0
55°	14883.1	14625.7	13023.2	5244.4	1476.6	520.5	343.7	403.1	298.4	210.7	181.0
57.5°	15496.9	15277.7	13767.2	5402.8	1325.2	425.7	302.7	338.0	273.0	188.1	161.2
59°	15569.1	15371.0	13922.8	5350.4	1226.2	388.9	282.9	289.9	265.9	175.4	149.9
60°	15508.2	15303.2	13860.5	5248.6	1134.3	363.5	265.9	257.4	267.3	168.3	141.4
62.5°	15117.9	14767.1	13256.6	4732.4	991.5	333.8	236.2	210.7	236.2	151.3	125.9
65°	14364.0	13837.9	12061.5	4005.4	934.9	316.8	200.8	176.8	179.6	132.9	108.9
67.5°	13047.3	12384.0	10470.4	3254.4	910.8	318.2	169.7	158.4	138.6	113.1	96.2
70°	10965.4	10303.5	8401.2	2677.3	899.5	318.2	144.3	135.8	116.0	94.8	83.4
72.5°	7770.4	7057.6	5667.3	2103.1	810.4	316.8	123.0	123.0	94.8	79.2	67.9
75°	4390.1	4395.8	3562.7	1487.9	673.2	261.7	99.0	97.6	69.3	60.8	50.9
77.5°	2558.5	2513.3	2401.5	639.3	312.6	118.8	69.3	59.4	48.1	43.8	36.8
80°	1315.3	1082.0	1053.7	232.0	111.7	75.0	48.1	33.9	31.1	28.3	25.5
82.5°	388.9	390.4	347.9	93.3	62.2	49.5	24.0	18.4	17.0	15.6	15.6
85°	26.9	17.0	19.8	28.3	38.2	19.8	1.4	4.2	4.2	5.7	7.1
87.5°	2.8	1.4	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°	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5
2.5°	5090.2	5152.4	5036.5	5039.3	4943.1	4974.2	4861.1	4897.9	4831.4	4882.3	5032.2
5°	3830.0	3844.2	3750.8	3721.1	3735.3	3793.3	3815.9	3712.6	3756.5	3670.2	3664.6
7.5°	2698.6	2715.5	2661.8	2654.7	2756.5	2732.5	2776.3	2670.3	2569.9	2613.7	2533.1
10°	2096.1	2025.3	1915.0	1883.9	1864.1	1876.8	1876.8	1780.7	1766.5	1728.3	1786.3
12.5°	1654.8	1568.5	1463.8	1322.4	1287.0	1284.2	1231.9	1147.0	1120.2	1087.6	1135.7
15°	1202.2	1166.8	1079.1	999.9	919.3	903.8	818.9	749.6	657.7	644.9	640.7
17.5°	845.8	793.4	792.0	746.8	700.1	669.0	589.8	510.6	475.2	471.0	471.0
20°	633.6	615.2	585.5	579.9	565.7	530.4	459.7	417.2	400.3	401.7	407.3
22.5°	533.2	520.5	493.6	480.9	475.2	444.1	391.8	363.5	355.0	355.0	356.4
25°	476.6	465.3	435.6	415.8	408.7	386.1	345.1	323.9	316.8	316.8	316.8
27.5°	434.2	420.1	388.9	372.0	359.2	333.8	308.3	287.1	280.0	280.0	281.5
30°	404.5	388.9	360.7	338.0	318.2	295.6	274.4	256.0	247.5	246.1	247.5
32.5°	364.9	350.8	322.5	308.3	285.7	258.8	241.9	224.9	216.4	217.8	216.4
35°	284.3	280.0	260.2	264.5	251.8	229.1	213.6	195.2	185.3	183.9	186.7
37.5°	258.8	241.9	219.2	220.6	216.4	207.9	182.4	162.6	155.6	155.6	157.0
40°	239.0	222.1	196.6	183.9	185.3	185.3	158.4	137.2	130.1	128.7	131.5
42.5°	222.1	205.1	176.8	155.6	149.9	157.0	134.4	113.1	106.1	103.2	106.1
45°	210.7	192.4	159.8	135.8	118.8	127.3	110.3	93.3	84.9	84.9	83.4
47.5°	199.4	182.4	147.1	117.4	99.0	94.8	90.5	75.0	66.5	65.1	66.5
50°	189.5	172.5	132.9	101.8	83.4	73.5	73.5	59.4	53.7	50.9	52.3
52.5°	179.6	161.2	120.2	90.5	72.1	59.4	52.3	48.1	43.8	42.4	43.8
55°	165.5	147.1	107.5	77.8	62.2	49.5	41.0	39.6	36.8	33.9	36.8
57.5°	148.5	131.5	94.8	66.5	49.5	38.2	33.9	32.5	29.7	28.3	28.3
59°	138.6	123.0	87.7	58.0	43.8	33.9	31.1	29.7	26.9	24.0	25.5
60°	132.9	120.2	83.4	53.7	39.6	31.1	28.3	26.9	24.0	22.6	24.0
62.5°	117.4	107.5	73.5	43.8	31.1	22.6	19.8	21.2	19.8	18.4	19.8
65°	103.2	94.8	62.2	33.9	24.0	15.6	14.1	18.4	17.0	15.6	17.0
67.5°	91.9	82.0	52.3	25.5	17.0	8.5	9.9	15.6	15.6	14.1	15.6
70°	79.2	70.7	42.4	18.4	8.5	4.2	7.1	11.3	14.1	12.7	14.1
72.5°	65.1	55.2	32.5	12.7	4.2	0.0	4.2	9.9	14.1	12.7	14.1
75°	50.9	41.0	24.0	7.1	0.0	0.0	1.4	8.5	14.1	12.7	14.1
77.5°	36.8	29.7	14.1	1.4	0.0	0.0	1.4	8.5	14.1	12.7	14.1
80°	24.0	21.2	5.7	0.0	0.0	0.0	1.4	8.5	14.1	14.1	15.6
82.5°	15.6	11.3	0.0	0.0	0.0	0.0	2.8	11.3	15.6	17.0	17.0
85°	7.1	0.0	0.0	0.0	0.0	0.0	5.7	14.1	18.4	18.4	18.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	9.9	17.0	21.2	21.2	21.2
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°	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5
2.5°	5057.7	5146.8	5272.7	5466.4	5623.4	5870.9	6060.4	6319.3	6580.9	6660.1	6783.2
5°	3722.5	3837.1	4122.8	4383.0	4547.1	5070.4	5401.4	5923.3	6391.4	6616.3	6861.0
7.5°	2585.4	2721.2	2939.0	3302.5	3647.6	4073.3	4607.9	5204.8	5890.7	6211.8	6556.9
10°	1814.6	1984.3	2291.2	2589.7	3023.9	3428.4	3955.9	4615.0	5371.7	5750.7	6183.5
12.5°	1145.6	1296.9	1702.9	2038.1	2579.8	3049.3	3535.8	4132.7	5009.6	5398.5	5852.5
15°	654.8	782.1	971.7	1401.6	2002.7	2623.6	3230.4	3923.4	4824.3	5303.8	5794.5
17.5°	487.9	521.9	606.8	850.0	1397.4	2122.9	2948.9	3859.7	4950.2	5513.1	6073.2
20°	410.2	432.8	472.4	568.6	891.0	1635.0	2674.5	3871.0	5357.5	6064.7	6596.5
22.5°	367.7	381.9	414.4	476.6	608.2	1190.9	2353.5	3937.5	5851.1	6742.2	7356.0
25°	322.5	340.9	369.1	422.9	506.3	826.0	2036.6	4086.0	6542.7	7602.1	8179.1
27.5°	287.1	304.1	332.4	381.9	444.1	630.8	1667.5	4213.3	7272.5	8467.7	8940.0
30°	251.8	268.7	297.0	336.6	393.2	510.6	1270.1	4288.3	7981.1	9116.8	9480.3
32.5°	222.1	236.2	263.1	298.4	345.1	432.8	1001.4	4210.5	8522.8	9706.6	9949.9
35°	192.4	209.3	232.0	264.5	305.5	369.1	833.0	3941.8	8988.1	10313.4	10401.1
37.5°	161.2	181.0	205.1	234.8	267.3	339.4	669.0	3644.8	9486.0	11070.0	10925.8
40°	135.8	154.2	176.8	209.3	239.0	311.2	514.8	3327.9	10023.4	11780.0	11498.6
42.5°	110.3	130.1	157.0	186.7	236.2	271.6	398.8	2999.8	10505.7	12398.1	12016.2
45°	87.7	104.7	132.9	171.1	234.8	233.4	308.3	2675.9	10869.2	12839.4	12402.3
47.5°	69.3	83.4	111.7	166.9	216.4	198.0	247.5	2475.1	11251.1	13236.8	12697.9
50°	55.2	69.3	96.2	174.0	189.5	169.7	207.9	2507.6	11620.2	13439.1	12819.6
52.5°	46.7	60.8	83.4	137.2	145.7	148.5	182.4	2657.5	12096.8	13655.4	13061.4
55°	41.0	53.7	70.7	96.2	113.1	132.9	166.9	2766.4	12734.7	14119.4	13594.6
57.5°	32.5	46.7	63.6	82.0	93.3	116.0	154.2	2774.9	13311.8	14714.8	14303.2
59°	29.7	42.4	59.4	77.8	83.4	104.7	145.7	2702.8	13333.0	14803.9	14628.5
60°	26.9	41.0	56.6	72.1	79.2	99.0	138.6	2619.4	13140.6	14662.5	14762.9
62.5°	22.6	35.4	49.5	58.0	67.9	82.0	120.2	2316.7	12208.6	14021.8	14514.0
65°	19.8	31.1	42.4	48.1	56.6	70.7	106.1	1854.2	11178.9	13153.4	13801.1
67.5°	18.4	28.3	36.8	41.0	49.5	65.1	94.8	1309.7	9845.2	12051.6	12730.5
70°	17.0	26.9	32.5	38.2	43.8	55.2	80.6	763.7	7583.7	10119.6	10836.7
72.5°	17.0	25.5	28.3	32.5	38.2	49.5	75.0	413.0	5185.0	7719.5	8645.9
75°	17.0	24.0	25.5	28.3	33.9	45.3	66.5	216.4	3352.0	5363.2	6619.1
77.5°	17.0	22.6	25.5	26.9	32.5	39.6	58.0	135.8	2233.2	3756.5	4473.6
80°	18.4	22.6	24.0	26.9	31.1	36.8	48.1	90.5	1312.5	2260.1	2722.6
82.5°	19.8	22.6	25.5	28.3	32.5	35.4	42.4	56.6	605.3	1495.0	1691.6
85°	21.2	24.0	26.9	29.7	33.9	35.4	39.6	41.0	99.0	674.6	912.2
87.5°	22.6	25.5	28.3	31.1	36.8	36.8	36.8	36.8	33.9	72.1	183.9
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°	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5	6149.5
2.5°	6938.8	7098.6	7210.3	7238.6	7158.0	7121.2	7019.4	6861.0	6764.8	6760.5
5°	7312.1	7686.9	7947.2	7991.0	7835.4	7572.4	7259.8	6856.7	6620.5	6549.8
7.5°	7248.5	7904.7	8323.4	8384.2	8122.6	7620.5	7015.1	6365.9	6108.5	5999.6
10°	6986.8	7787.4	8385.6	8481.8	8132.5	7425.3	6655.9	5931.7	5612.1	5528.7
12.5°	6763.4	7572.4	8104.2	8237.1	7972.6	7266.9	6440.9	5653.1	5310.8	5233.1
15°	6665.8	7317.8	7643.1	7711.0	7667.1	7167.9	6418.3	5610.7	5218.9	5134.1
17.5°	6763.4	7101.4	7142.4	7211.7	7309.3	7158.0	6636.1	5841.2	5418.3	5313.7
20°	7019.4	6913.3	6743.6	6773.3	6996.7	7199.0	7023.6	6351.8	5837.0	5725.2
22.5°	7455.0	6866.6	6481.9	6456.5	6739.3	7336.2	7592.2	7043.4	6446.6	6336.2
25°	7989.6	6984.0	6385.7	6330.6	6638.9	7537.0	8210.2	7890.6	7238.6	7070.3
27.5°	8572.3	7227.3	6385.7	6332.0	6630.4	7715.2	8739.2	8640.2	8058.9	7875.0
30°	8892.0	7428.1	6477.7	6416.9	6735.1	7818.5	9022.1	9306.4	8675.6	8447.9
32.5°	9177.7	7706.7	6657.3	6542.7	6954.3	7971.2	9275.2	9872.1	9166.3	9013.6
35°	9440.7	8005.2	6904.8	6771.9	7242.8	8180.5	9555.3	10466.1	9849.5	9618.9
37.5°	9730.7	8351.7	7290.9	7177.8	7725.1	8587.9	9887.6	11246.8	10521.3	10231.3
40°	10046.1	8753.3	7926.0	7877.9	8491.7	9048.9	10307.7	12079.9	11287.8	10958.3
42.5°	10367.1	9215.8	8703.8	8783.0	9360.1	9695.3	10739.1	12720.6	11915.8	11552.3
45°	10658.5	9807.0	9715.1	10106.9	10372.8	10326.1	11058.7	13171.7	12463.2	12115.2
47.5°	11026.2	10668.4	10938.5	11542.4	11549.5	11012.0	11300.6	13540.9	12934.1	12586.2
50°	11437.8	11685.3	12518.3	13133.6	12968.1	11686.7	11583.4	13977.9	13420.7	13142.0
52.5°	11914.4	12823.8	13977.9	14661.0	14274.9	12422.1	12054.4	14450.3	14192.9	13925.6
55°	12468.8	13600.3	15433.3	15977.8	15588.9	13335.8	12770.1	15091.0	15065.5	14883.1
57.5°	13095.4	14420.6	16276.2	17013.1	16666.6	14407.9	13770.0	15694.9	15598.8	15496.9
59°	13590.4	14842.1	16648.2	17411.9	17202.6	15158.9	14441.8	16071.1	15721.8	15569.1
60°	13890.2	15127.8	16785.4	17465.7	17417.6	15605.8	14867.5	16255.0	15720.4	15508.2
62.5°	14779.8	15627.0	16733.1	17226.7	17414.8	16462.9	16116.4	16457.3	15429.0	15117.9
65°	15096.7	15461.6	15866.1	15805.2	15966.5	16419.1	16914.1	16235.2	14806.7	14364.0
67.5°	14480.0	13647.0	13789.8	13383.9	13304.7	14597.4	16590.2	15149.0	13589.0	13047.3
70°	12205.8	10454.8	10382.7	10569.4	10057.4	11818.2	14897.2	13057.2	11579.2	10965.4
72.5°	9607.6	7388.5	6780.3	7467.7	7452.2	9016.4	12375.5	9265.3	7822.7	7770.4
75°	7555.4	5144.0	4514.6	4626.3	4841.3	6527.2	9856.5	5883.7	4817.2	4390.1
77.5°	5071.8	3644.8	3400.1	3262.9	3494.8	4190.7	6235.8	3190.8	2701.4	2558.5
80°	2923.4	2647.6	3006.9	2729.7	2854.1	2640.6	3101.6	1463.8	1214.9	1315.3
82.5°	1902.3	1507.7	1606.7	1193.7	1632.1	1646.3	995.7	432.8	366.3	388.9
85°	1189.5	707.2	397.4	282.9	562.9	1035.3	311.2	26.9	31.1	26.9
87.5°	308.3	117.4	49.5	73.5	90.5	80.6	72.1	4.2	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)