

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: P529405

Luminaire Tested: **GALN-SA4C-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529405
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-SA4C-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 15375 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

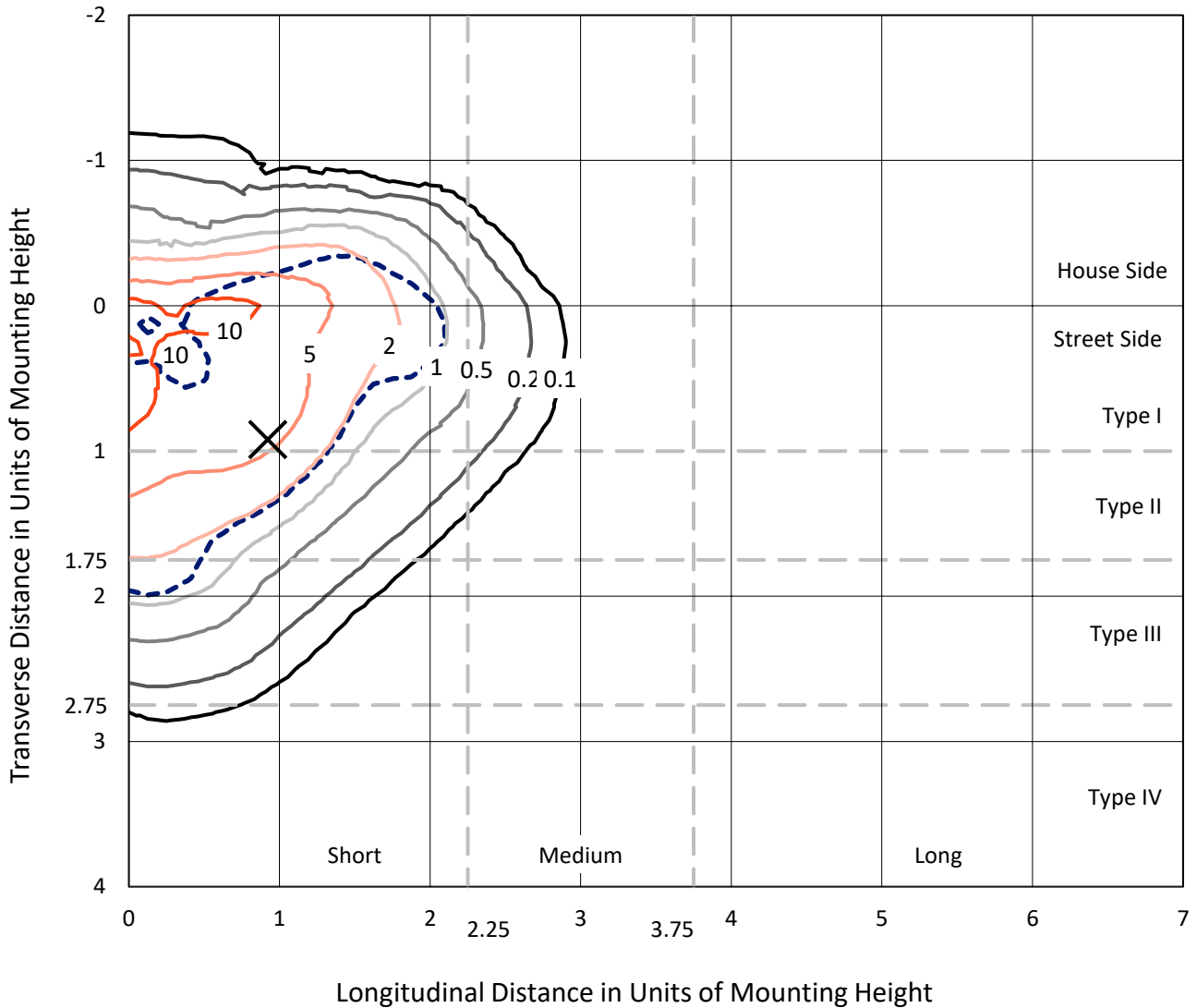
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

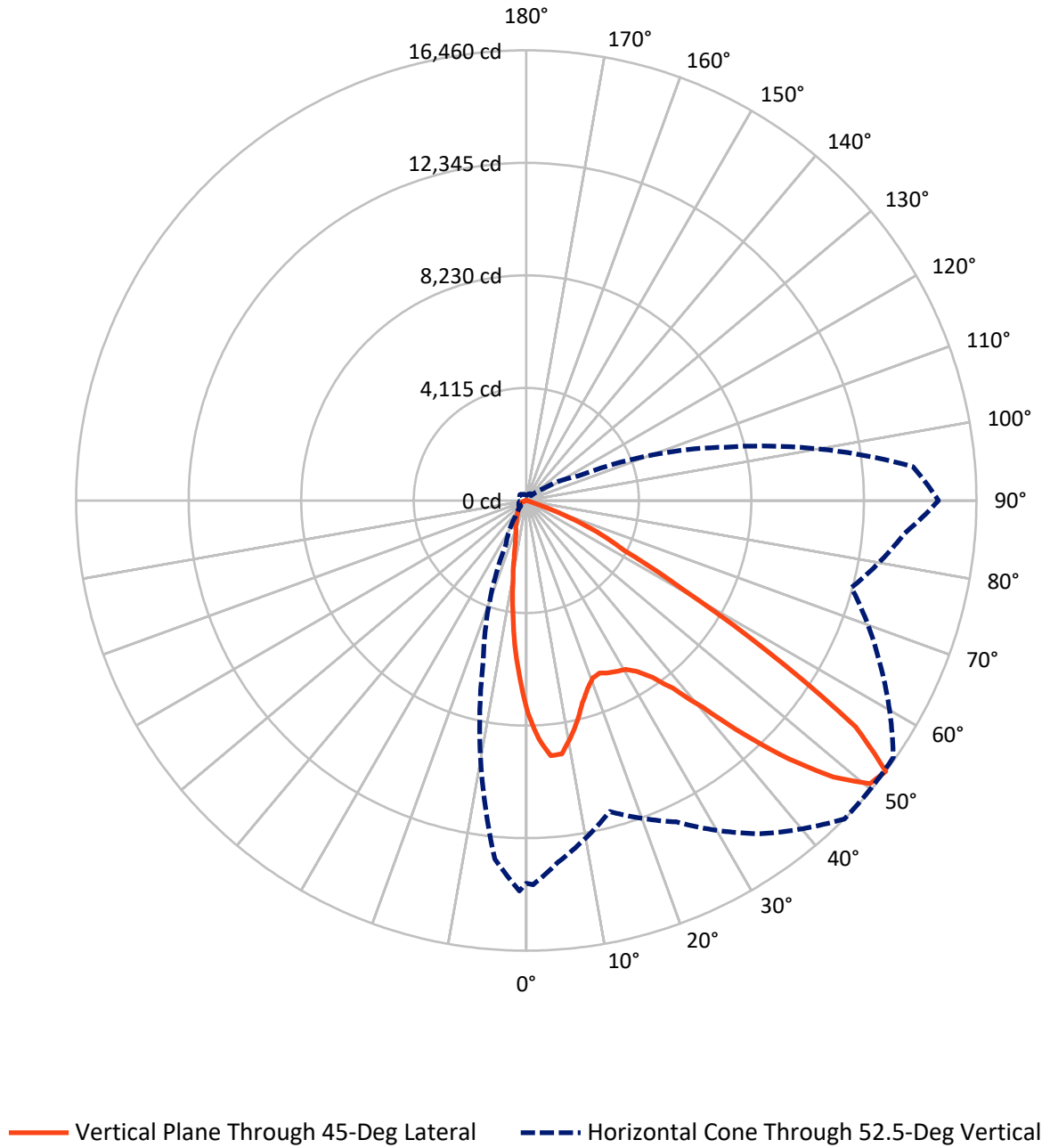
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	3120.4	0.0	3120.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12254.6	0.0	12254.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	15375.0	0.0	15375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	3.7
10°-20°	1121.7	7.3
20°-30°	1707.0	11.1
30°-40°	2551.4	16.6
40°-50°	3633.4	23.6
50°-60°	3905.8	25.4
60°-70°	1730.7	11.3
70°-80°	140.0	0.9
80°-90°	16.3	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°	15375.0	100.0
0°-180°	15375.0	100.0

Coefficient of Utilization

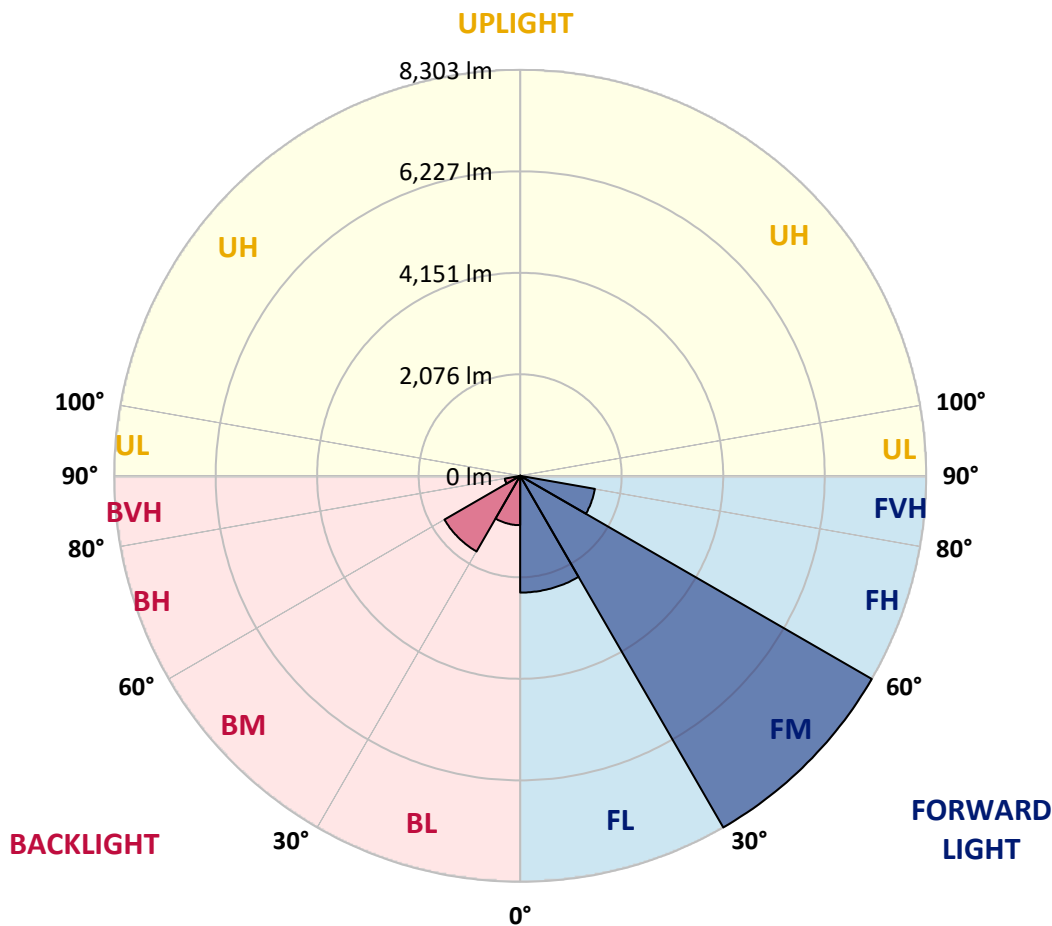


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.1	15.5			
FM (30°-60°)	8303.0	54.0			
FH (60°-80°)	1551.5	10.1			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1009.2	6.6	B3/2500		
BM (30°-60°)	1787.6	11.6	B2/2500		
BH (60°-80°)	319.3	2.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8
2.5°	8249.4	8273.6	8406.7	8573.0	8660.7	8860.3	8721.2	8757.5	8681.9	8415.8	8207.1
5°	7998.4	7995.4	8164.8	8576.0	8966.1	9362.3	9374.4	9162.7	8790.7	8382.5	7798.9
7.5°	7242.4	7360.4	7535.8	8192.0	8914.7	9211.1	9353.2	9105.2	8533.7	7950.1	7318.0
10°	6670.9	6731.4	7027.7	7820.0	8349.2	8745.4	8833.1	8690.9	8252.5	7523.7	6816.1
12.5°	6341.3	6371.5	6719.3	7384.6	7944.0	8237.3	8279.7	8346.2	8031.7	7348.3	6498.5
15°	6344.3	6368.5	6837.2	7393.6	7614.4	7535.8	7674.9	7671.9	7807.9	7315.0	6764.7
17.5°	6800.9	6828.2	7251.5	7526.7	7429.9	7245.5	7236.4	7375.5	7662.8	7729.3	7166.9
20°	7587.2	7650.7	7962.2	7947.0	7402.7	7030.8	6928.0	7033.8	7702.1	8080.1	7977.3
22.5°	8645.6	8733.3	8951.0	8533.7	7526.7	6885.6	6852.4	7058.0	7962.2	8863.3	8896.6
25°	9873.3	10021.5	10127.3	9592.1	7968.2	7136.6	6979.4	7333.2	8312.9	9713.0	10066.9
27.5°	10686.8	10841.0	10816.8	10051.7	8264.6	7203.1	7070.1	7399.7	8618.4	9915.7	10677.7
30°	11321.8	11415.6	11584.9	10299.7	8560.9	7390.6	7163.8	7680.9	8718.2	10266.4	11415.6
32.5°	12062.7	12126.2	12138.3	10738.2	9017.5	7626.5	7454.1	8031.7	9159.7	10602.1	12068.7
35°	12809.6	12903.4	12706.8	11279.5	9298.8	8065.0	7938.0	8639.5	9513.5	10949.9	12788.4
37.5°	13620.0	13668.4	13214.8	11503.2	9701.0	8778.6	8709.1	9295.7	10127.3	11578.8	13586.8
40°	14300.4	14345.8	13756.1	11778.4	10124.3	9776.6	9955.0	10547.7	10962.0	11987.1	13985.9
42.5°	14678.4	14784.3	13937.6	11627.2	10974.1	10907.5	11699.8	11908.5	11929.6	12102.0	14342.8
45°	14781.3	14732.9	13638.2	11751.2	11718.0	12767.3	13487.0	13762.2	12891.3	12313.7	14433.5
47.5°	14306.5	14370.0	13196.7	11642.4	12694.7	14176.5	15107.8	15618.9	13607.9	12129.2	14209.7
50°	13922.4	13840.8	13054.6	11563.7	12957.8	14841.7	16278.1	16393.0	14267.2	12356.0	13964.8
52.5°	13998.0	14049.4	13281.4	11772.4	12963.8	14881.0	16459.6	16380.9	14288.3	12304.6	13877.1
55°	14158.3	13931.5	13184.6	11312.7	12095.9	13783.3	14608.9	14487.9	13187.6	11757.3	13662.4
57.5°	12216.9	12567.7	12123.2	10100.1	9927.8	10384.4	10369.3	10741.2	9837.0	10118.3	12437.7
60°	9915.7	9976.1	10142.5	8639.5	6870.5	6713.3	6495.5	6259.7	6619.5	8651.6	11312.7
62.5°	8721.2	8648.6	9241.3	7859.3	4850.5	4061.2	4024.9	4170.1	5107.5	8252.5	10611.2
65°	6338.3	6429.0	6858.4	6099.4	3640.9	3099.6	3045.2	3474.6	4133.8	6613.5	8098.2
67.5°	3870.7	4046.1	4085.4	3761.8	2470.6	1962.6	1883.9	2274.0	2984.7	4278.9	4747.7
70°	1787.2	1998.9	2198.4	2053.3	1430.3	807.4	762.0	955.6	1505.9	2461.5	2519.0
72.5°	541.3	544.3	762.0	795.3	462.7	181.4	160.3	211.7	511.1	813.5	855.8
75°	39.3	42.3	102.8	117.9	87.7	45.4	48.4	57.5	108.9	181.4	136.1
77.5°	3.0	3.0	3.0	15.1	27.2	30.2	39.3	45.4	57.5	66.5	60.5
80°	3.0	0.0	3.0	12.1	21.2	30.2	36.3	42.3	45.4	51.4	45.4
82.5°	0.0	0.0	0.0	9.1	21.2	30.2	33.3	45.4	51.4	60.5	51.4
85°	0.0	0.0	0.0	9.1	21.2	33.3	30.2	15.1	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°	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8
2.5°	8243.4	8125.5	7856.3	7720.2	7399.7	7354.3	7039.8	6988.4	6882.6	6825.1	6686.0
5°	7541.8	7399.7	6961.2	6592.3	6162.9	5863.5	5633.7	5425.0	5304.1	5192.2	5243.6
7.5°	6970.3	6556.0	6069.1	5452.2	4956.3	4635.8	4285.0	3997.7	3828.4	3713.5	3740.7
10°	6371.5	6102.4	5425.0	4732.5	4133.8	3907.0	3631.8	3411.1	3172.2	2966.5	2869.8
12.5°	6184.1	5784.9	4935.1	4230.6	3777.0	3556.2	3241.7	2987.7	2682.3	2431.3	2343.6
15°	6217.3	5833.3	4802.1	4049.1	3513.9	3132.9	2757.9	2443.4	2107.7	1932.3	1841.6
17.5°	6758.6	6093.3	4889.8	3858.6	3148.0	2618.8	2156.1	1756.9	1505.9	1324.5	1285.2
20°	7423.9	6655.8	5077.3	3719.5	2848.6	2083.5	1575.5	1230.8	1022.1	991.9	982.8
22.5°	8397.6	7575.1	5479.5	3625.8	2482.7	1623.9	1079.6	895.1	837.6	831.6	834.6
25°	9758.4	8727.2	5917.9	3547.1	2207.5	1251.9	883.0	759.0	740.9	731.8	746.9
27.5°	10348.1	9422.7	6150.8	3377.8	1956.5	1127.9	870.9	753.0	701.6	686.4	695.5
30°	11076.9	9885.4	6516.7	3087.5	1587.6	928.4	813.5	819.5	795.3	719.7	695.5
32.5°	12044.5	10463.0	6701.2	2881.9	1418.3	768.1	595.7	547.3	610.8	622.9	644.1
35°	12664.5	11049.7	6794.9	2760.9	1330.6	656.2	505.0	459.6	444.5	447.6	459.6
37.5°	13816.6	11841.9	6912.8	2633.9	1264.0	571.5	456.6	414.3	393.1	393.1	405.2
40°	14506.1	12470.9	7073.1	2564.3	1197.5	520.1	414.3	378.0	359.9	359.9	365.9
42.5°	14678.4	12782.4	7018.7	2540.1	1121.9	508.0	378.0	350.8	329.6	326.6	323.6
45°	14986.9	13257.2	7027.7	2512.9	1043.3	462.7	356.8	326.6	296.4	293.3	290.3
47.5°	15325.6	13598.9	7045.9	2407.1	967.7	387.1	372.0	302.4	266.1	260.1	260.1
50°	15035.3	13871.0	7203.1	2301.3	870.9	314.5	365.9	284.3	235.9	226.8	229.8
52.5°	15071.6	14191.6	7535.8	2153.1	749.9	251.0	296.4	269.1	214.7	199.6	202.6
55°	14490.9	13852.9	7581.1	1995.8	586.7	193.5	226.8	235.9	181.4	175.4	175.4
57.5°	12473.9	11730.0	6689.1	1617.8	387.1	160.3	163.3	205.6	157.2	151.2	154.2
60°	10674.7	9416.7	5382.7	1067.5	241.9	127.0	117.9	208.7	139.1	136.1	145.2
62.5°	9731.2	7738.4	4082.4	662.3	166.3	96.8	81.6	169.3	121.0	121.0	133.1
65°	7030.8	5198.2	2373.8	347.8	117.9	75.6	60.5	96.8	99.8	102.8	108.9
67.5°	4354.5	2624.8	1000.9	169.3	78.6	51.4	39.3	60.5	66.5	66.5	72.6
70°	2150.1	1046.3	332.6	96.8	60.5	42.3	27.2	33.3	33.3	30.2	33.3
72.5°	665.3	314.5	84.7	60.5	42.3	27.2	15.1	12.1	6.0	0.0	3.0
75°	75.6	60.5	54.4	42.3	27.2	12.1	3.0	0.0	0.0	0.0	0.0
77.5°	45.4	51.4	51.4	42.3	27.2	9.1	0.0	0.0	0.0	0.0	0.0
80°	36.3	39.3	42.3	39.3	24.2	12.1	0.0	0.0	0.0	0.0	0.0
82.5°	45.4	51.4	57.5	51.4	33.3	15.1	6.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.1	3.0	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°	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8
2.5°	6628.6	6562.1	6655.8	6516.7	6513.7	6516.7	6477.4	6441.1	6498.5	6652.8	6667.9
5°	5059.1	5201.3	5246.6	5394.8	5313.1	5192.2	5216.4	5134.7	5334.3	5422.0	5352.5
7.5°	3683.2	3674.1	3979.6	3997.7	4037.0	4040.0	4034.0	3873.7	3710.4	3746.7	3855.6
10°	2857.7	2703.4	2851.6	2836.5	2933.3	2906.1	2945.4	2773.0	2830.5	2830.5	2900.0
12.5°	2328.5	2165.2	2138.0	2098.6	2138.0	2153.1	2168.2	2134.9	2231.7	2277.1	2325.4
15°	1778.1	1687.4	1663.2	1587.6	1599.7	1642.0	1678.3	1693.4	1663.2	1732.7	1738.8
17.5°	1291.2	1288.2	1303.3	1300.3	1288.2	1279.1	1276.1	1236.8	1224.7	1230.8	1255.0
20°	979.8	1004.0	1055.4	1106.8	1134.0	1100.7	1055.4	988.8	961.6	967.7	970.7
22.5°	837.6	873.9	943.5	1000.9	1028.2	967.7	886.0	828.6	816.5	813.5	810.4
25°	759.0	801.4	852.8	870.9	867.9	831.6	771.1	746.9	740.9	734.8	707.6
27.5°	716.7	731.8	740.9	762.0	771.1	746.9	731.8	695.5	689.5	689.5	671.3
30°	692.5	683.4	695.5	680.4	692.5	674.3	677.4	677.4	662.3	668.3	668.3
32.5°	644.1	647.1	647.1	616.9	626.0	604.8	626.0	644.1	647.1	650.2	674.3
35°	471.7	526.2	553.4	553.4	562.5	547.3	544.3	523.1	495.9	468.7	456.6
37.5°	414.3	435.5	471.7	492.9	508.0	495.9	468.7	435.5	420.3	408.2	396.1
40°	368.9	387.1	411.3	435.5	465.7	450.6	408.2	393.1	375.0	375.0	362.9
42.5°	332.6	341.7	356.8	393.1	426.4	396.1	365.9	353.8	344.7	341.7	338.7
45°	299.4	302.4	317.5	347.8	387.1	356.8	326.6	311.5	314.5	317.5	314.5
47.5°	269.1	275.2	284.3	320.5	344.7	329.6	296.4	287.3	287.3	287.3	290.3
50°	232.8	248.0	266.1	296.4	314.5	305.4	278.2	266.1	260.1	260.1	263.1
52.5°	208.7	220.8	244.9	281.2	305.4	290.3	263.1	244.9	232.8	229.8	235.9
55°	181.4	202.6	241.9	269.1	302.4	287.3	257.0	235.9	214.7	211.7	211.7
57.5°	163.3	196.6	232.8	266.1	293.3	281.2	257.0	229.8	202.6	199.6	199.6
60°	154.2	190.5	226.8	257.0	293.3	275.2	254.0	223.8	193.5	193.5	190.5
62.5°	145.2	178.4	214.7	244.9	281.2	266.1	244.9	214.7	184.5	184.5	178.4
65°	121.0	154.2	178.4	205.6	244.9	229.8	208.7	187.5	163.3	157.2	160.3
67.5°	84.7	105.8	130.0	157.2	181.4	175.4	166.3	151.2	130.0	127.0	124.0
70°	42.3	57.5	78.6	105.8	127.0	121.0	114.9	102.8	90.7	87.7	87.7
72.5°	6.0	18.1	33.3	48.4	66.5	69.6	66.5	63.5	60.5	57.5	60.5
75°	0.0	0.0	0.0	12.1	27.2	33.3	39.3	45.4	45.4	39.3	48.4
77.5°	0.0	0.0	0.0	0.0	3.0	15.1	30.2	39.3	48.4	42.3	57.5
80°	0.0	0.0	0.0	0.0	3.0	18.1	30.2	42.3	48.4	42.3	60.5
82.5°	0.0	0.0	0.0	0.0	3.0	21.2	30.2	39.3	45.4	42.3	54.4
85°	0.0	0.0	0.0	0.0	9.1	18.1	12.1	6.0	3.0	3.0	9.1
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°	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8	7795.8
2.5°	6752.6	6967.3	7197.1	7284.8	7556.9	7762.6	7901.7	8201.1	8246.4	8249.4
5°	5425.0	5533.9	5927.0	6111.5	6516.7	6831.2	7166.9	7650.7	7974.3	7998.4
7.5°	3855.6	4158.0	4324.3	4805.1	5304.1	5797.0	6295.9	6858.4	7233.4	7242.4
10°	3102.6	3299.2	3595.5	3955.4	4375.7	4877.7	5543.0	6196.2	6577.2	6670.9
12.5°	2497.8	2842.5	3181.2	3553.2	3873.7	4251.7	4968.4	5839.3	6153.8	6341.3
15°	1923.3	2237.8	2636.9	3072.4	3435.2	3940.3	4756.7	5751.6	6280.8	6344.3
17.5°	1418.3	1699.5	2068.4	2479.7	3024.0	3740.7	4793.0	6196.2	6695.1	6800.9
20°	1019.1	1182.4	1472.7	1950.5	2643.0	3507.8	4829.3	6646.7	7405.7	7587.2
22.5°	807.4	873.9	1064.4	1487.8	2216.6	3262.9	5086.3	7508.6	8382.5	8645.6
25°	701.6	737.9	828.6	1173.3	1947.4	3238.7	5497.6	8542.8	9682.8	9873.3
27.5°	677.4	683.4	762.0	1076.5	1802.3	3078.4	5654.9	9277.6	10493.2	10686.8
30°	713.7	810.4	816.5	910.2	1533.2	2760.9	5736.5	9988.2	11179.7	11321.8
32.5°	616.9	586.7	607.8	704.6	1348.7	2576.4	5890.7	10608.1	11962.9	12062.7
35°	429.4	450.6	499.0	610.8	1179.4	2382.9	5930.0	11291.6	12706.8	12809.6
37.5°	396.1	408.2	447.6	520.1	1037.2	2274.0	5875.6	11790.5	13477.9	13620.0
40°	368.9	384.0	405.2	471.7	931.4	2153.1	5800.0	12241.1	13949.7	14300.4
42.5°	347.8	359.9	378.0	450.6	840.7	2032.1	5694.2	12876.1	14373.0	14678.4
45°	323.6	341.7	362.9	438.5	789.3	1950.5	5615.5	12836.8	14618.0	14781.3
47.5°	299.4	329.6	353.8	408.2	774.1	1911.2	5648.8	12688.7	14418.4	14306.5
50°	275.2	314.5	356.8	338.7	737.9	1832.5	5688.1	12891.3	13943.6	13922.4
52.5°	254.0	299.4	332.6	278.2	656.2	1756.9	6069.1	13157.4	14279.3	13998.0
55°	223.8	269.1	266.1	223.8	532.2	1699.5	6368.5	13163.4	14052.5	14158.3
57.5°	202.6	238.9	208.7	187.5	393.1	1421.3	5881.7	11037.6	12029.4	12216.9
60°	187.5	232.8	157.2	148.2	257.0	1025.1	5134.7	8548.8	9561.8	9915.7
62.5°	172.4	220.8	124.0	121.0	178.4	728.8	4221.5	7154.8	8240.4	8721.2
65°	151.2	157.2	99.8	93.7	127.0	393.1	2570.4	4926.1	6159.9	6338.3
67.5°	124.0	121.0	81.6	75.6	84.7	190.5	1134.0	2467.6	3571.3	3870.7
70°	99.8	99.8	69.6	60.5	60.5	87.7	296.4	982.8	1614.8	1787.2
72.5°	72.6	75.6	54.4	48.4	45.4	42.3	48.4	196.6	423.4	541.3
75°	63.5	66.5	54.4	42.3	33.3	27.2	21.2	18.1	24.2	39.3
77.5°	69.6	69.6	57.5	39.3	30.2	21.2	12.1	6.0	6.0	3.0
80°	87.7	90.7	75.6	51.4	36.3	24.2	15.1	6.0	3.0	3.0
82.5°	93.7	102.8	84.7	63.5	45.4	27.2	15.1	3.0	0.0	0.0
85°	24.2	39.3	66.5	57.5	45.4	27.2	15.1	3.0	0.0	0.0
87.5°	0.0	3.0	9.1	9.1	12.1	12.1	9.1	3.0	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)