

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: P647556

Luminaire Tested: **GALN-SA7D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647556
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-SA7D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 30299 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

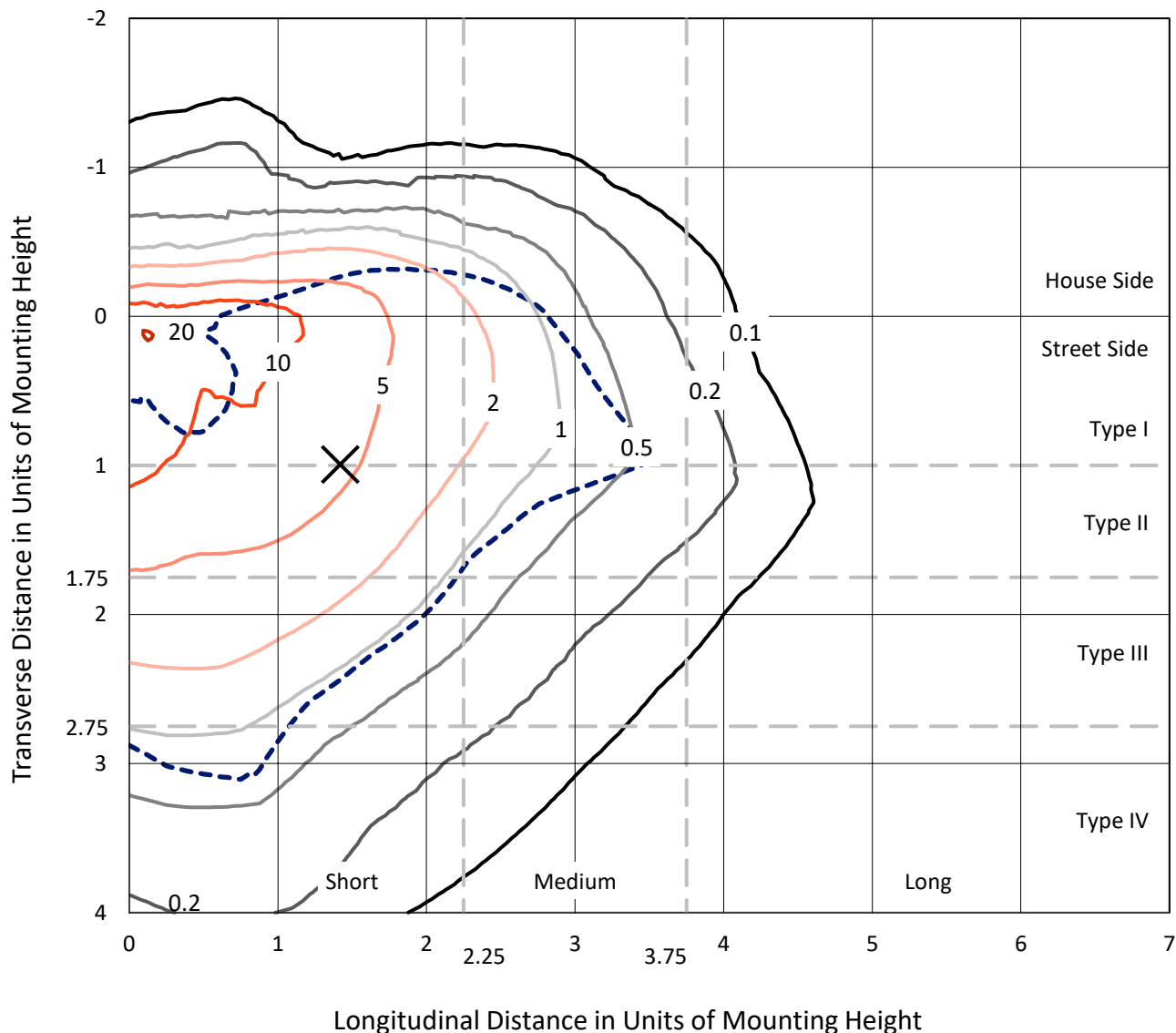
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

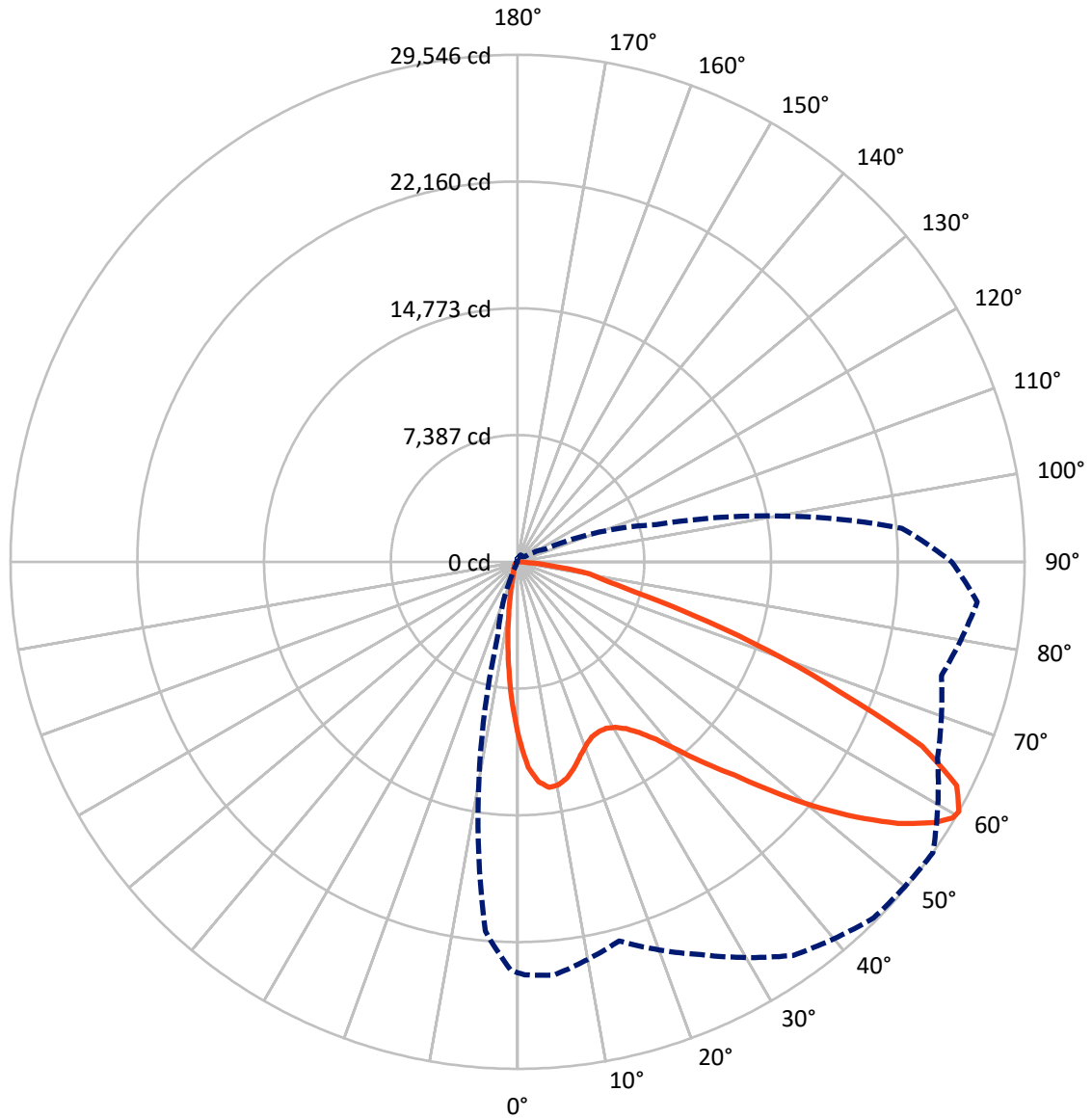
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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	4496.6	0.0	4496.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25802.3	0.0	25802.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	30299.0	0.0	30299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.7	2.5
10°-20°	1496.0	4.9
20°-30°	2214.4	7.3
30°-40°	3300.8	10.9
40°-50°	4834.1	16.0
50°-60°	6978.9	23.0
60°-70°	7341.4	24.2
70°-80°	3020.0	10.0
80°-90°	353.7	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°	30299.0	100.0
0°-180°	30299.0	100.0

Coefficient of Utilization

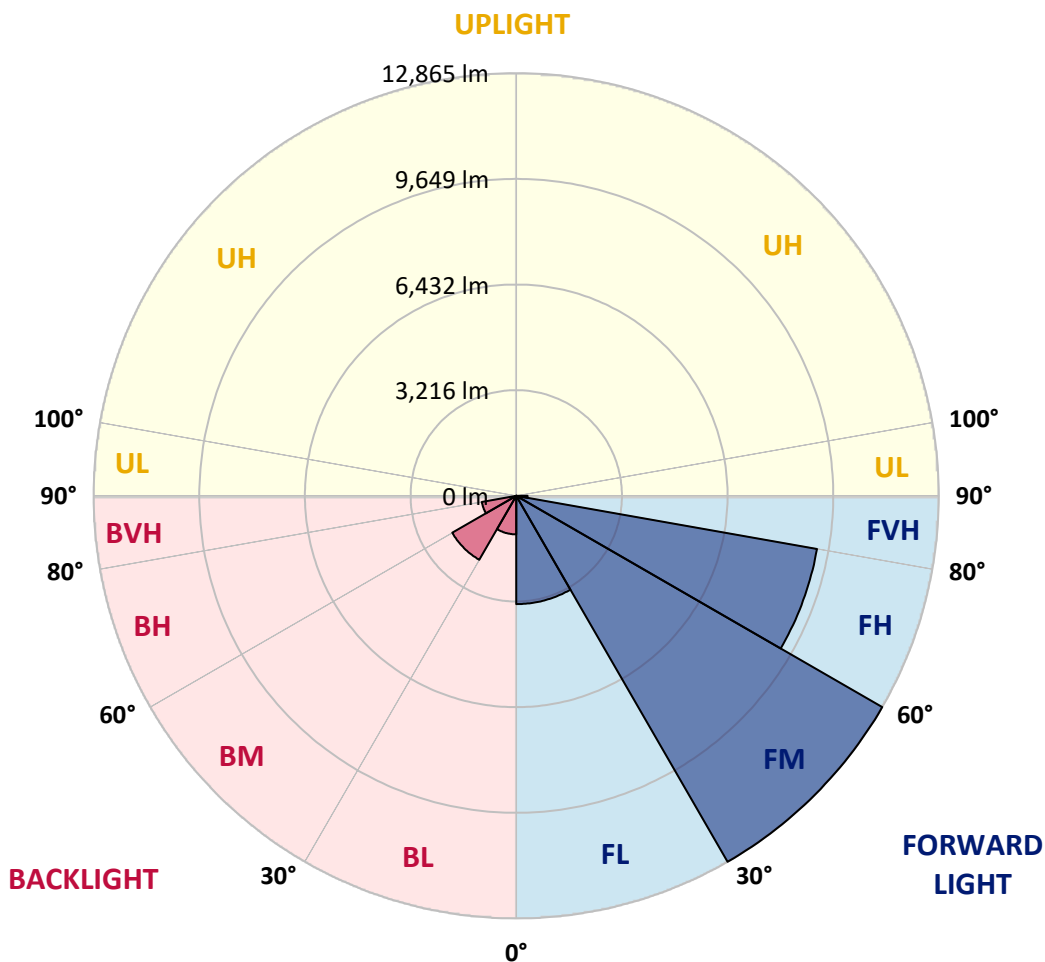


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.0	10.9			
FM (30°-60°)	12865.0	42.5			
FH (60°-80°)	9297.1	30.7			G4/12000
FVH (80°-90°)	343.3	1.1			G3/500
BL (0°-30°)	1173.2	3.9	B3/2500		
BM (30°-60°)	2248.7	7.4	B2/2500		
BH (60°-80°)	1064.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2
2.5°	11208.3	11189.7	11355.2	11625.8	11898.6	12040.9	12012.9	12001.3	11775.1	11609.5	11262.0
5°	11185.0	11280.6	11576.8	12309.1	12864.1	13132.4	13211.6	12878.2	12437.4	11798.4	11010.1
7.5°	10515.7	10634.6	11117.3	12262.5	13249.0	13832.0	13811.0	13276.9	12367.4	11378.6	10254.5
10°	9685.5	9825.4	10392.1	11782.0	13062.4	13832.0	13874.0	13197.7	12066.6	10797.9	9615.5
12.5°	9100.1	9265.6	9893.0	11334.2	12581.9	13339.9	13388.9	12899.1	11840.4	10574.0	9268.0
15°	8901.8	9058.1	9694.8	11108.0	12071.2	12479.4	12467.7	12416.4	11751.7	10627.7	9286.6
17.5°	9242.3	9370.6	10088.9	11210.7	11593.2	11551.1	11611.8	11859.0	11770.4	11077.7	9874.3
20°	10121.5	10252.1	11024.1	11525.5	11227.0	10961.1	10989.1	11401.9	11942.9	11924.3	10793.2
22.5°	11332.0	11553.5	12253.2	12136.5	11178.0	10595.0	10536.7	11073.1	12236.8	12899.1	12033.9
25°	12864.1	13088.1	13633.8	13111.3	11418.3	10508.7	10455.1	10972.8	12593.6	13850.6	13430.9
27.5°	14151.6	14321.8	14865.2	14060.6	11772.7	10546.0	10457.4	10986.7	12882.9	14660.0	14608.6
30°	15182.3	15308.3	15627.7	14503.7	12078.2	10709.2	10606.7	11192.0	13011.1	15054.0	15562.4
32.5°	16012.6	16224.8	16325.1	14977.1	12516.6	11017.1	10842.2	11586.1	13323.6	15541.5	16563.0
35°	16961.7	17206.7	17078.4	15429.6	13095.0	11497.5	11283.0	12225.1	13797.0	15991.6	17724.4
37.5°	18165.1	18447.3	17945.9	15905.3	13706.1	12220.5	12120.2	13123.0	14515.3	16635.2	18969.7
40°	19410.5	19573.7	18787.9	16483.6	14457.0	13272.3	13367.9	14457.0	15455.2	17407.2	20294.4
42.5°	20383.1	20536.9	19653.1	16968.8	15224.3	14520.0	14918.8	16066.2	16532.7	18197.8	21283.3
45°	21127.0	21257.6	20252.5	17498.2	16259.8	16327.4	17080.7	17724.4	17612.4	18680.6	22045.8
47.5°	21705.4	21817.3	20714.2	18067.2	17810.7	18538.3	19690.4	19963.2	18731.9	19203.0	22736.2
50°	21943.3	21975.9	20858.8	18792.5	19571.5	21355.5	22556.6	22391.0	20014.6	19783.7	23470.8
52.5°	22253.4	22246.4	21271.6	19482.8	21227.3	23874.3	25073.0	24697.5	21465.2	20653.6	24296.4
55°	23067.3	23076.7	22155.5	20462.3	22638.3	25907.9	27190.6	26917.7	22995.1	22122.8	25259.6
57.5°	24056.2	24091.2	23412.5	21607.4	23986.2	27381.8	28771.8	28666.8	25063.7	23757.6	26169.1
59°	24184.4	24254.4	24007.2	22414.3	24786.1	27834.2	29312.9	29415.4	26171.5	24835.1	26661.2
60°	23951.2	24067.9	24179.7	22871.4	25254.9	27997.5	29345.5	29546.0	27004.0	25567.4	26885.1
62.5°	22934.4	23118.6	23680.7	24277.7	25840.3	27489.1	28303.0	28722.8	28034.8	27491.4	26906.1
65°	21602.7	21698.3	22509.9	24527.2	24704.5	25115.0	25366.9	25905.6	26796.5	28233.0	25942.9
67.5°	19419.9	19702.0	20695.6	23079.0	21353.2	20868.1	20805.2	20268.7	22582.3	26465.3	23568.8
70°	16042.9	16168.8	17393.2	18920.8	16115.2	15368.9	15667.4	15466.8	17505.1	22782.8	18969.7
72.5°	12131.9	12416.4	13612.8	15082.1	10965.8	9998.0	10821.2	10746.6	13148.7	18309.8	13032.1
75°	8631.3	8815.6	10340.8	11803.0	7679.8	6506.7	6802.9	7080.4	9179.3	14457.0	7700.8
77.5°	5930.7	6089.2	7234.4	7805.7	5601.8	5366.3	4909.2	5177.4	6014.6	8577.7	4190.9
80°	3577.5	3570.6	4323.8	4463.7	3901.7	4531.4	3801.4	4267.8	3635.9	3670.8	1623.2
82.5°	2322.8	2299.5	2644.7	2882.5	2171.3	2283.1	1532.3	2208.5	2369.4	1023.9	513.1
85°	1040.1	1084.5	1271.0	1676.8	951.5	506.1	312.5	678.6	1009.8	515.4	0.0
87.5°	107.3	83.9	223.9	408.1	130.6	14.0	46.7	23.3	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°	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2
2.5°	11101.1	10965.8	10562.4	10184.5	9860.3	9463.9	9207.4	8803.9	8559.0	8484.4	8496.0
5°	10655.6	10266.1	9498.9	8885.5	8202.2	7812.7	7220.4	6651.3	6343.5	6229.2	6177.9
7.5°	9722.7	9305.3	8379.4	7416.3	6683.9	6000.6	5559.8	5058.4	4715.6	4433.4	4384.5
10°	9030.1	8482.1	7334.6	6299.2	5720.8	5207.7	4766.9	4265.5	3862.1	3540.2	3451.6
12.5°	8615.0	8001.6	6721.3	5853.7	5305.7	4778.6	4204.9	3624.2	3211.4	2863.9	2703.0
15°	8540.3	7829.1	6548.7	5534.2	4857.9	4221.2	3458.6	2831.2	2406.8	2077.9	1977.7
17.5°	8990.5	8139.2	6523.0	5200.7	4272.5	3370.0	2577.0	2056.9	1578.8	1394.6	1322.3
20°	9792.7	8687.3	6520.7	4813.6	3670.8	2595.7	1809.7	1341.0	1147.4	1058.8	1016.8
22.5°	10886.5	9433.6	6644.3	4480.1	3045.8	1914.7	1292.0	1068.1	956.2	883.9	867.6
25°	12222.8	10539.0	6947.5	4253.9	2567.7	1501.9	1065.8	914.2	820.9	788.2	774.3
27.5°	13409.9	11597.8	7281.0	4020.6	2224.9	1329.3	988.9	837.3	762.6	737.0	716.0
30°	14433.7	12558.6	7441.9	3712.8	1949.7	1217.4	1002.8	895.5	797.6	720.7	685.7
32.5°	15287.3	13295.6	7546.9	3432.9	1716.5	995.8	792.9	692.6	648.3	620.4	597.0
35°	16355.4	14093.2	7483.9	3274.3	1597.6	907.2	722.9	597.0	522.4	466.4	443.1
37.5°	17474.8	14890.8	7374.3	3143.7	1543.9	841.9	688.0	566.7	485.1	426.8	396.4
40°	18633.9	15630.1	7246.0	3022.5	1494.9	799.9	667.0	541.1	459.5	396.4	363.8
42.5°	19695.0	16350.8	7194.7	2943.1	1415.6	807.0	650.7	529.4	433.8	368.5	340.5
45°	20553.3	17034.1	7264.7	2901.2	1329.3	795.3	655.4	515.4	412.8	349.8	321.8
47.5°	21469.8	17999.6	7490.9	2859.2	1245.4	739.3	690.3	513.1	403.5	338.2	307.9
50°	22535.6	19235.6	8008.6	2756.6	1142.8	678.6	734.6	510.8	391.8	324.2	293.9
52.5°	23955.9	20639.6	8542.7	2577.0	993.5	620.4	702.0	503.8	368.5	307.9	277.5
55°	25231.5	22118.2	8995.1	2364.8	804.6	536.4	632.0	473.4	328.9	279.8	251.9
57.5°	25758.7	22953.1	8981.1	2071.0	643.7	471.1	520.1	433.8	286.9	247.2	223.9
59°	25565.1	22848.1	8680.3	1854.1	587.7	436.1	431.4	429.1	268.2	223.9	205.2
60°	25292.2	22465.7	8356.1	1746.8	552.7	412.8	396.4	424.5	251.9	209.9	191.2
62.5°	24247.4	20879.8	7281.0	1564.9	506.1	349.8	317.2	359.2	223.9	181.9	165.6
65°	22733.9	18442.7	6163.9	1513.5	492.1	289.2	263.6	256.5	191.2	153.9	139.9
67.5°	19781.3	15606.8	4993.1	1478.6	496.7	242.6	230.9	193.6	158.6	128.3	118.9
70°	15837.7	12169.2	4088.3	1438.9	501.4	198.3	193.6	153.9	128.3	107.3	98.0
72.5°	9622.4	7213.4	3218.4	1250.1	487.4	158.6	172.6	116.6	93.3	77.0	72.3
75°	5949.3	4937.2	1996.3	972.5	321.8	116.6	121.3	72.3	63.0	48.9	48.9
77.5°	3446.9	3118.1	713.6	349.8	142.3	70.0	53.6	37.3	35.0	21.0	21.0
80°	1429.6	1145.1	247.2	118.9	77.0	32.7	11.7	2.3	0.0	0.0	0.0
82.5°	417.4	370.8	67.7	53.6	23.3	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°	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2
2.5°	8297.8	8220.9	8185.9	8304.8	8195.2	8335.1	8227.8	8274.5	8412.1	8472.7	8629.0
5°	6210.5	6131.2	6093.9	6273.5	6264.2	6352.8	6343.5	6425.1	6495.1	6338.8	6499.7
7.5°	4326.2	4272.5	4361.2	4501.1	4650.3	4601.4	4601.4	4491.8	4529.0	4505.7	4498.7
10°	3290.6	3106.4	3059.8	3055.1	3111.1	3122.8	3059.8	2908.2	2964.2	2980.5	3078.4
12.5°	2588.7	2446.4	2229.5	2131.6	2106.0	2126.9	1919.4	1786.4	1849.4	1812.1	1907.7
15°	1856.4	1739.8	1611.5	1501.9	1471.6	1429.6	1203.4	1044.8	1026.1	1033.2	1049.5
17.5°	1324.7	1245.4	1245.4	1128.8	1065.8	939.8	825.6	755.6	748.6	755.6	767.3
20°	977.2	935.2	930.5	900.2	830.2	746.3	667.0	653.0	648.3	660.0	664.7
22.5°	841.9	797.6	760.3	757.9	692.6	622.7	585.4	566.7	569.1	573.7	585.4
25°	753.3	706.7	667.0	643.7	597.0	548.0	513.1	503.8	503.8	510.8	513.1
27.5°	690.3	632.0	597.0	564.4	522.4	480.4	450.1	443.1	438.5	443.1	454.8
30°	646.0	587.7	543.4	494.4	461.7	422.1	396.4	387.1	384.8	387.1	396.4
32.5°	552.7	517.7	482.7	438.5	398.8	373.2	345.1	328.9	328.9	333.5	342.8
35°	417.4	398.8	396.4	384.8	352.2	324.2	291.5	275.2	275.2	284.5	289.2
37.5°	368.5	333.5	328.9	324.2	310.1	272.9	242.6	228.6	226.2	233.2	242.6
40°	335.8	296.2	275.2	270.5	272.9	230.9	198.3	184.2	184.2	186.6	195.9
42.5°	310.1	263.6	226.2	221.6	230.9	193.6	160.9	146.9	146.9	146.9	158.6
45°	289.2	235.5	191.2	168.0	181.9	158.6	130.6	116.6	112.0	116.6	121.3
47.5°	275.2	214.5	168.0	135.3	135.3	125.9	104.9	88.6	83.9	86.3	93.3
50°	263.6	195.9	142.3	109.6	98.0	100.3	79.3	67.7	63.0	63.0	70.0
52.5°	244.8	177.3	123.6	93.3	74.6	67.7	58.3	48.9	46.7	48.9	53.6
55°	221.6	160.9	107.3	77.0	58.3	46.7	42.0	35.0	32.7	35.0	42.0
57.5°	195.9	135.3	86.3	60.6	39.6	30.3	28.0	23.3	18.6	21.0	25.7
59°	179.5	121.3	74.6	48.9	30.3	21.0	21.0	16.3	11.7	14.0	21.0
60°	172.6	112.0	63.0	42.0	25.7	16.3	16.3	11.7	7.0	9.3	16.3
62.5°	146.9	93.3	48.9	25.7	11.7	2.3	7.0	2.3	0.0	2.3	7.0
65°	123.6	74.6	32.7	11.7	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	102.7	56.0	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	81.6	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	56.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.0	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°	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2	10259.2
2.5°	8638.3	8971.8	9177.0	9564.2	9960.6	10266.1	10648.6	10991.4	11133.7	11208.3
5°	6662.9	7127.1	7521.2	8111.3	8659.3	9326.3	10002.6	10800.2	11105.7	11185.0
7.5°	4676.0	5149.4	5562.2	6245.5	7026.8	7920.0	8932.2	9944.3	10389.8	10515.7
10°	3376.9	3883.1	4386.8	5070.1	5800.1	6767.9	7822.0	9074.4	9587.5	9685.5
12.5°	2131.6	2675.0	3493.6	4337.8	5109.8	5888.7	6991.8	8353.7	8920.5	9100.1
15°	1236.0	1641.9	2259.9	3360.6	4342.4	5373.3	6576.7	8083.2	8717.6	8901.8
17.5°	827.9	967.9	1392.3	2234.2	3530.9	4897.5	6471.7	8304.8	9006.8	9242.3
20°	697.3	760.3	909.5	1362.0	2719.3	4473.0	6499.7	8906.5	9827.7	10121.5
22.5°	613.3	671.7	767.3	979.5	1898.4	3946.0	6632.6	9767.1	10956.4	11332.0
25°	541.1	599.4	683.3	811.6	1275.7	3337.3	6924.1	11026.4	12451.3	12864.1
27.5°	480.4	534.1	606.4	716.0	981.8	2658.7	7183.0	12253.2	13815.6	14151.6
30°	424.5	468.8	538.7	622.7	816.3	2050.0	7313.6	13326.0	14809.2	15182.3
32.5°	368.5	410.4	478.1	545.8	671.7	1562.6	7222.7	14114.2	15774.7	16012.6
35°	314.8	359.2	415.1	478.1	580.7	1261.7	6767.9	15000.4	16775.1	16961.7
37.5°	270.5	307.9	366.1	415.1	524.8	1009.8	6217.5	15798.0	17897.0	18165.1
40°	228.6	265.8	324.2	368.5	482.7	795.3	5720.8	16684.2	19079.4	19410.5
42.5°	186.6	230.9	282.2	354.5	415.1	606.4	5119.1	17402.6	19967.9	20383.1
45°	149.2	198.3	254.2	352.2	361.5	461.7	4538.3	17962.3	20753.8	21127.0
47.5°	118.9	168.0	244.8	328.9	296.2	366.1	4207.2	18547.6	21406.8	21705.4
50°	95.6	139.9	256.5	289.2	247.2	310.1	4197.9	19200.6	21745.0	21943.3
52.5°	77.0	114.2	216.9	221.6	209.9	272.9	4449.8	19935.3	22090.2	22253.4
55°	65.3	95.6	142.3	163.3	188.9	247.2	4638.6	21066.4	22913.4	23067.3
57.5°	51.3	81.6	109.6	130.6	168.0	226.2	4664.3	21938.6	23955.9	24056.2
59°	44.3	70.0	98.0	116.6	153.9	212.2	4559.3	21992.2	24023.5	24184.4
60°	37.3	63.0	86.3	109.6	142.3	200.5	4445.1	21602.7	23771.6	23951.2
62.5°	28.0	48.9	63.0	88.6	116.6	172.6	3904.0	20243.1	22808.5	22934.4
65°	18.6	35.0	46.7	65.3	91.0	149.2	3181.1	18480.0	21320.5	21602.7
67.5°	11.7	25.7	37.3	48.9	74.6	125.9	2266.9	15847.0	19237.9	19419.9
70°	7.0	16.3	28.0	39.6	58.3	100.3	1345.7	12526.0	16005.5	16042.9
72.5°	4.7	11.7	18.6	28.0	46.7	91.0	653.0	8164.9	11686.4	12131.9
75°	2.3	7.0	11.7	21.0	37.3	74.6	312.5	5454.9	8503.1	8631.3
77.5°	0.0	2.3	7.0	14.0	28.0	58.3	181.9	3582.2	5797.7	5930.7
80°	0.0	0.0	4.7	11.7	21.0	37.3	109.6	2112.9	3512.2	3577.5
82.5°	0.0	0.0	2.3	9.3	14.0	28.0	56.0	928.2	2299.5	2322.8
85°	0.0	0.0	2.3	9.3	11.7	18.6	21.0	125.9	1021.5	1040.1
87.5°	0.0	0.0	2.3	11.7	11.7	11.7	11.7	7.0	86.3	107.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)