

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: P459279

Luminaire Tested: **GALN-SA7C-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459279
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-SA7C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA 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: 32759 lumens
Efficiency: N/A
Efficacy: 86.9 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

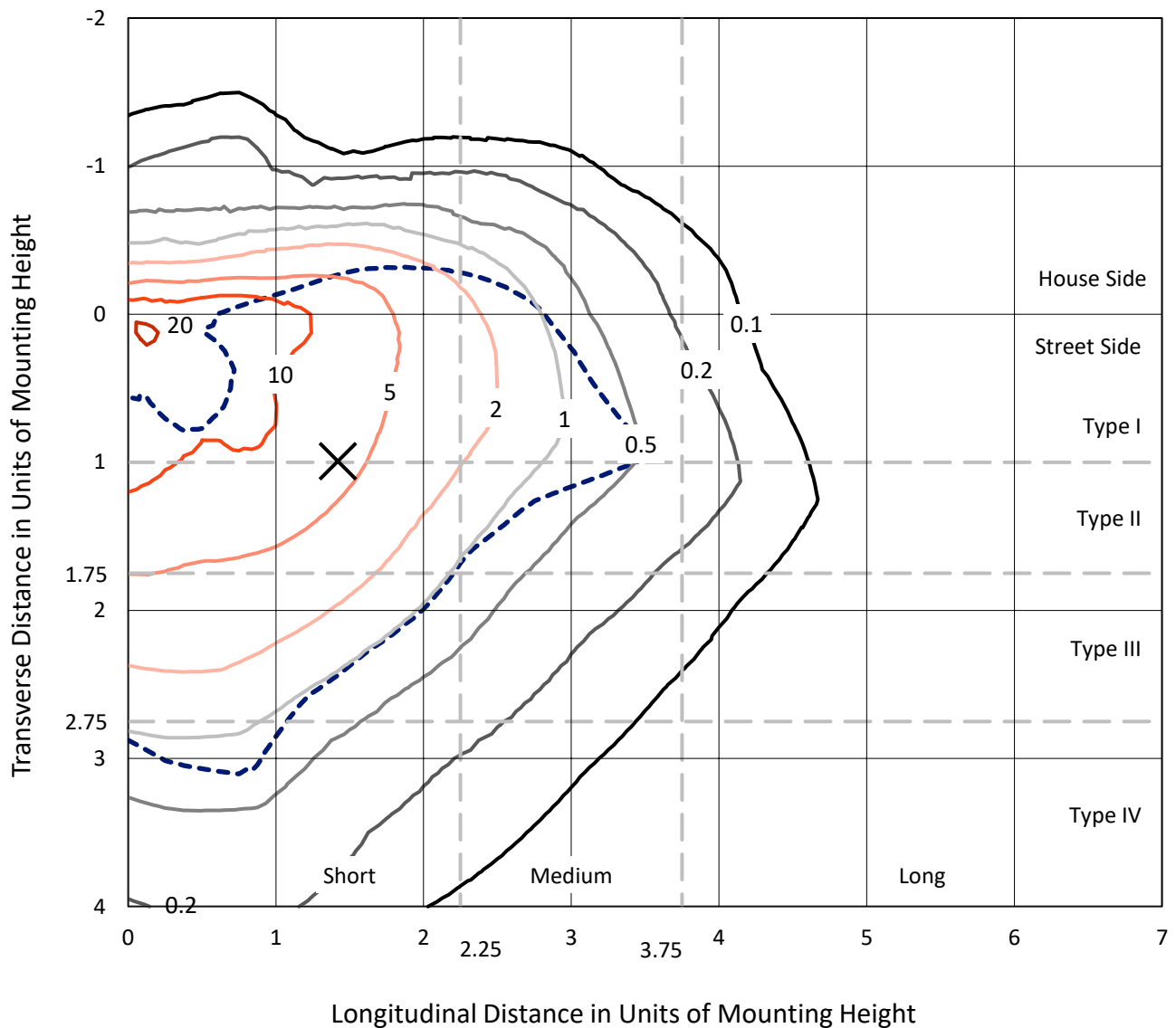
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

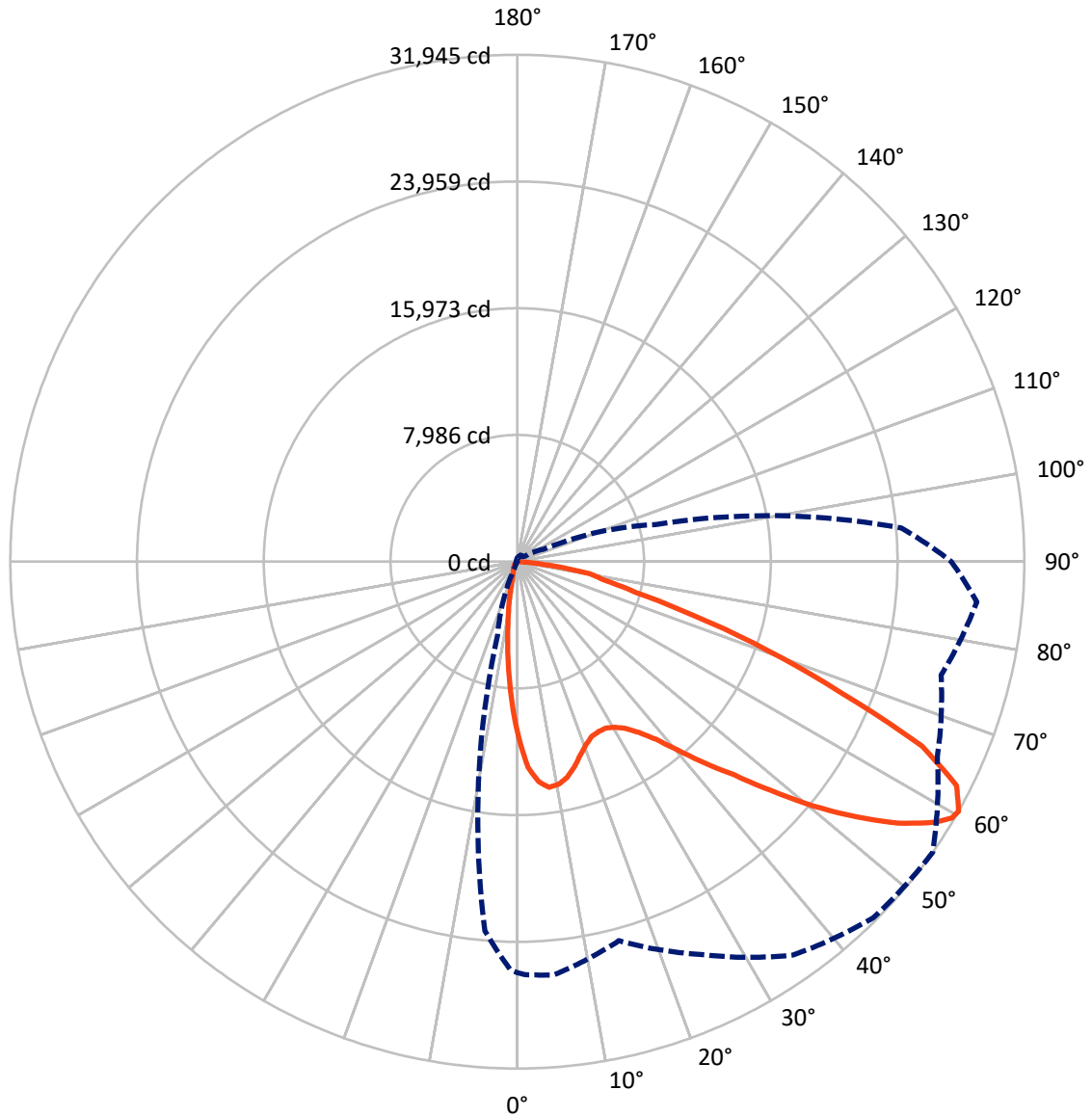
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 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	4861.7	0.0	4861.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	27897.3	0.0	27897.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	32759.0	0.0	32759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.4	2.5
10°-20°	1617.5	4.9
20°-30°	2394.2	7.3
30°-40°	3568.8	10.9
40°-50°	5226.5	16.0
50°-60°	7545.5	23.0
60°-70°	7937.5	24.2
70°-80°	3265.2	10.0
80°-90°	382.4	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°	32759.0	100.0
0°-180°	32759.0	100.0

Coefficient of Utilization



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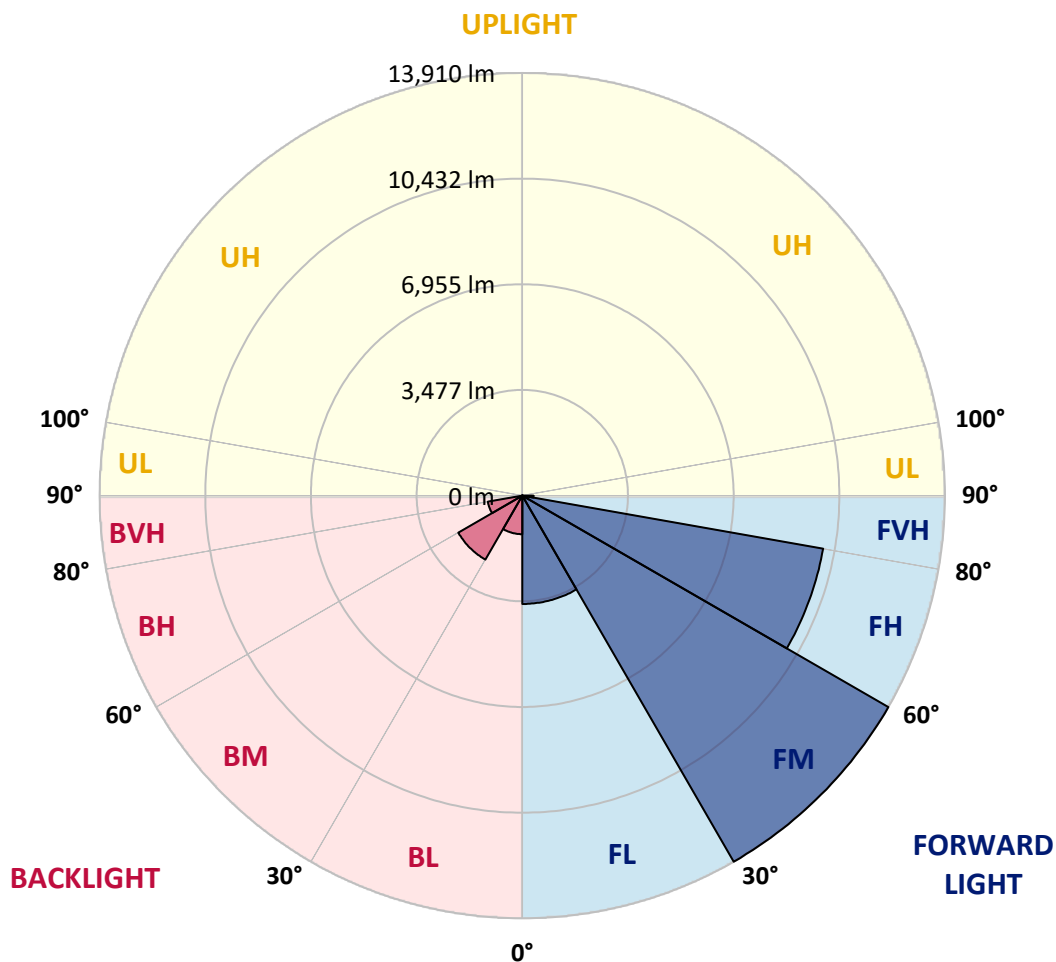
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3564.6	10.9			
FM	(30°-60°)	13909.5	42.5			
FH	(60°-80°)	10051.9	30.7			G4/12000
FVH	(80°-90°)	371.2	1.1			G3/500
BL	(0°-30°)	1268.4	3.9	B3/2500		
BM	(30°-60°)	2431.3	7.4	B2/2500		
BH	(60°-80°)	1150.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	11.2	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°	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1
2.5°	12118.4	12098.2	12277.2	12569.7	12864.7	13018.5	12988.3	12975.7	12731.1	12552.1	12176.4
5°	12093.1	12196.5	12516.8	13308.5	13908.6	14198.6	14284.3	13923.8	13447.2	12756.3	11904.0
7.5°	11369.5	11498.1	12020.0	13258.1	14324.7	14955.1	14932.4	14354.9	13371.5	12302.4	11087.1
10°	10471.8	10623.1	11235.8	12738.7	14123.0	14955.1	15000.4	14269.2	13046.3	11674.6	10396.2
12.5°	9838.9	10017.9	10696.2	12254.5	13603.5	14423.0	14476.0	13946.5	12801.7	11432.5	10020.5
15°	9624.6	9793.5	10481.9	12009.9	13051.3	13492.6	13480.0	13424.5	12705.9	11490.5	10040.6
17.5°	9992.7	10131.4	10908.0	12120.9	12534.4	12489.0	12554.6	12821.9	12726.0	11977.2	10676.1
20°	10943.3	11084.5	11919.2	12461.3	12138.5	11851.1	11881.3	12327.6	12912.6	12892.5	11669.5
22.5°	12252.0	12491.5	13248.0	13121.9	12085.6	11455.2	11392.2	11972.1	13230.3	13946.5	13011.0
25°	13908.6	14150.7	14740.7	14175.9	12345.3	11361.9	11303.9	11863.7	13616.1	14975.2	14521.4
27.5°	15300.5	15484.6	16072.1	15202.2	12728.6	11402.3	11306.4	11878.8	13928.8	15850.2	15794.7
30°	16415.0	16551.2	16896.6	15681.2	13058.9	11578.8	11467.8	12100.7	14067.5	16276.3	16826.0
32.5°	17312.7	17542.1	17650.5	16193.1	13532.9	11911.6	11722.5	12526.8	14405.4	16803.3	17907.7
35°	18338.9	18603.7	18465.0	16682.3	14158.3	12431.0	12199.0	13217.7	14917.2	17290.0	19163.4
37.5°	19640.0	19945.1	19403.0	17196.7	14818.9	13212.7	13104.3	14188.5	15693.9	17985.9	20509.9
40°	20986.5	21163.0	20313.3	17822.0	15630.8	14349.9	14453.3	15630.8	16710.0	18820.5	21942.1
42.5°	22038.0	22204.4	21248.7	18346.5	16460.4	15698.9	16130.1	17370.7	17875.0	19675.3	23011.3
45°	22842.3	22983.5	21896.8	18918.9	17579.9	17653.1	18467.5	19163.4	19042.4	20197.3	23835.8
47.5°	23467.7	23588.7	22396.0	19534.1	19256.7	20043.5	21289.1	21584.1	20252.7	20762.1	24582.2
50°	23724.9	23760.2	22552.4	20318.3	21160.5	23089.4	24388.0	24209.0	21639.6	21389.9	25376.4
52.5°	24060.2	24052.6	22998.7	21064.7	22950.8	25812.7	27108.7	26702.8	23207.9	22330.5	26269.1
55°	24940.2	24950.3	23954.3	22123.7	24476.3	28011.4	29398.2	29103.2	24862.1	23919.0	27310.4
57.5°	26009.3	26047.2	25313.4	23361.8	25933.7	29605.0	31107.8	30994.4	27098.6	25686.6	28293.8
59°	26148.0	26223.7	25956.4	24234.2	26798.6	30094.2	31692.8	31803.8	28296.3	26851.5	28825.9
60°	25895.9	26021.9	26143.0	24728.4	27305.4	30270.7	31728.1	31945.0	29196.5	27643.3	29067.9
62.5°	24796.5	24995.7	25603.4	26248.9	27938.3	29721.0	30601.0	31054.9	30311.0	29723.5	29090.6
65°	23356.7	23460.1	24337.6	26518.7	26710.3	27154.1	27426.4	28008.9	28972.1	30525.4	28049.2
67.5°	20996.6	21301.7	22375.8	24952.8	23086.9	22562.4	22494.4	21914.4	24415.7	28614.1	25482.3
70°	17345.4	17481.6	18805.4	20457.0	17423.6	16616.7	16939.5	16722.6	18926.4	24632.6	20509.9
72.5°	13116.9	13424.5	14718.0	16306.6	11856.1	10809.7	11699.8	11619.1	14216.3	19796.3	14090.2
75°	9332.1	9531.3	11180.4	12761.3	8303.3	7035.0	7355.2	7655.3	9924.6	15630.8	8326.0
77.5°	6412.2	6583.7	7821.7	8439.5	6056.7	5802.0	5307.8	5597.7	6503.0	9274.1	4531.1
80°	3868.0	3860.4	4674.9	4826.2	4218.5	4899.3	4110.1	4614.4	3931.0	3968.9	1755.0
82.5°	2511.4	2486.2	2859.4	3116.6	2347.5	2468.6	1656.6	2387.9	2561.9	1106.9	554.7
85°	1124.6	1172.5	1374.2	1813.0	1028.8	547.2	337.9	733.8	1091.8	557.3	0.0
87.5°	116.0	90.8	242.1	441.3	141.2	15.1	50.4	25.2	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°	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1
2.5°	12002.4	11856.1	11419.9	11011.4	10660.9	10232.3	9954.9	9518.7	9253.9	9173.2	9185.8
5°	11520.8	11099.7	10270.1	9606.9	8868.1	8447.0	7806.6	7191.3	6858.5	6734.9	6679.5
7.5°	10512.2	10060.8	9059.8	8018.4	7226.6	6487.8	6011.3	5469.1	5098.5	4793.4	4740.4
10°	9763.3	9170.7	7930.1	6810.6	6185.3	5630.5	5154.0	4611.8	4175.6	3827.6	3731.8
12.5°	9314.4	8651.3	7267.0	6329.0	5736.4	5166.6	4546.3	3918.4	3472.1	3096.4	2922.4
15°	9233.8	8464.7	7080.4	5983.5	5252.3	4563.9	3739.4	3061.1	2602.2	2246.7	2138.2
17.5°	9720.4	8800.1	7052.7	5623.0	4619.4	3643.6	2786.3	2224.0	1707.1	1507.9	1429.7
20°	10587.8	9392.6	7050.1	5204.4	3968.9	2806.4	1956.7	1449.9	1240.6	1144.8	1099.4
22.5°	11770.4	10199.5	7183.8	4843.8	3293.1	2070.2	1396.9	1154.8	1033.8	955.7	938.0
25°	13215.2	11394.7	7511.6	4599.2	2776.2	1623.9	1152.3	988.4	887.6	852.3	837.1
27.5°	14498.7	12539.5	7872.1	4347.1	2405.5	1437.3	1069.1	905.2	824.5	796.8	774.1
30°	15605.6	13578.3	8046.1	4014.2	2108.0	1316.2	1084.2	968.3	862.4	779.1	741.3
32.5°	16528.5	14375.1	8159.6	3711.7	1855.8	1076.7	857.3	748.9	701.0	670.7	645.5
35°	17683.3	15237.5	8091.5	3540.2	1727.2	980.9	781.7	645.5	564.8	504.3	479.1
37.5°	18893.6	16099.8	7973.0	3399.0	1669.2	910.3	743.8	612.7	524.5	461.4	428.7
40°	20146.8	16899.1	7834.3	3267.9	1616.3	864.9	721.2	585.0	496.7	428.7	393.4
42.5°	21294.1	17678.3	7778.8	3182.1	1530.6	872.4	703.5	572.4	469.0	398.4	368.1
45°	22222.0	18417.1	7854.5	3136.8	1437.3	859.8	708.5	557.3	446.3	378.2	348.0
47.5°	23213.0	19461.0	8099.1	3091.4	1346.5	799.3	746.4	554.7	436.2	365.6	332.8
50°	24365.3	20797.4	8658.9	2980.4	1235.5	733.8	794.3	552.2	423.6	350.5	317.7
52.5°	25900.9	22315.3	9236.3	2786.3	1074.2	670.7	759.0	544.6	398.4	332.8	300.1
55°	27280.2	23914.0	9725.5	2556.8	869.9	579.9	683.3	511.9	355.5	302.6	272.3
57.5°	27850.0	24816.7	9710.3	2239.1	695.9	509.3	562.3	469.0	310.1	267.3	242.1
59°	27640.8	24703.2	9385.0	2004.6	635.4	471.5	466.5	464.0	290.0	242.1	221.9
60°	27345.7	24289.7	9034.6	1888.6	597.6	446.3	428.7	458.9	272.3	226.9	206.8
62.5°	26216.1	22575.0	7872.1	1691.9	547.2	378.2	342.9	388.3	242.1	196.7	179.0
65°	24579.6	19940.1	6664.3	1636.5	532.0	312.7	284.9	277.4	206.8	166.4	151.3
67.5°	21387.4	16873.9	5398.5	1598.6	537.1	262.2	249.6	209.3	171.5	138.7	128.6
70°	17123.6	13157.2	4420.2	1555.8	542.1	214.3	209.3	166.4	138.7	116.0	105.9
72.5°	10403.7	7799.0	3479.7	1351.5	527.0	171.5	186.6	126.1	100.9	83.2	78.2
75°	6432.4	5338.0	2158.4	1051.5	348.0	126.1	131.1	78.2	68.1	53.0	53.0
77.5°	3726.8	3371.3	771.6	378.2	153.8	75.6	58.0	40.3	37.8	22.7	22.7
80°	1545.7	1238.1	267.3	128.6	83.2	35.3	12.6	2.5	0.0	0.0	0.0
82.5°	451.3	400.9	73.1	58.0	25.2	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°	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1
2.5°	8971.5	8888.3	8850.5	8979.1	8860.6	9011.9	8895.9	8946.3	9095.1	9160.6	9329.6
5°	6714.8	6629.0	6588.7	6782.9	6772.8	6868.6	6858.5	6946.8	7022.4	6853.5	7027.4
7.5°	4677.4	4619.4	4715.2	4866.5	5027.9	4974.9	4974.9	4856.4	4896.8	4871.6	4864.0
10°	3557.8	3358.6	3308.2	3303.2	3363.7	3376.3	3308.2	3144.3	3204.8	3222.5	3328.4
12.5°	2798.9	2645.1	2410.6	2304.7	2276.9	2299.6	2075.2	1931.5	1999.6	1959.2	2062.6
15°	2007.1	1881.0	1742.4	1623.9	1591.1	1545.7	1301.1	1129.6	1109.5	1117.0	1134.7
17.5°	1432.2	1346.5	1346.5	1220.4	1152.3	1016.2	892.6	817.0	809.4	817.0	829.6
20°	1056.5	1011.1	1006.1	973.3	897.7	806.9	721.2	706.0	701.0	713.6	718.6
22.5°	910.3	862.4	822.0	819.5	748.9	673.2	632.9	612.7	615.2	620.3	632.9
25°	814.4	764.0	721.2	695.9	645.5	592.6	554.7	544.6	544.6	552.2	554.7
27.5°	746.4	683.3	645.5	610.2	564.8	519.4	486.7	479.1	474.0	479.1	491.7
30°	698.5	635.4	587.5	534.6	499.3	456.4	428.7	418.6	416.0	418.6	428.7
32.5°	597.6	559.8	522.0	474.0	431.2	403.4	373.2	355.5	355.5	360.6	370.7
35°	451.3	431.2	428.7	416.0	380.7	350.5	315.2	297.5	297.5	307.6	312.7
37.5°	398.4	360.6	355.5	350.5	335.4	295.0	262.2	247.1	244.6	252.2	262.2
40°	363.1	320.2	297.5	292.5	295.0	249.6	214.3	199.2	199.2	201.7	211.8
42.5°	335.4	284.9	244.6	239.5	249.6	209.3	174.0	158.9	158.9	158.9	171.5
45°	312.7	254.7	206.8	181.5	196.7	171.5	141.2	126.1	121.0	126.1	131.1
47.5°	297.5	232.0	181.5	146.2	146.2	136.2	113.5	95.8	90.8	93.3	100.9
50°	284.9	211.8	153.8	118.5	105.9	108.4	85.7	73.1	68.1	68.1	75.6
52.5°	264.8	191.6	133.6	100.9	80.7	73.1	63.0	53.0	50.4	53.0	58.0
55°	239.5	174.0	116.0	83.2	63.0	50.4	45.4	37.8	35.3	37.8	45.4
57.5°	211.8	146.2	93.3	65.6	42.9	32.8	30.3	25.2	20.2	22.7	27.7
59°	194.2	131.1	80.7	53.0	32.8	22.7	22.7	17.7	12.6	15.1	22.7
60°	186.6	121.0	68.1	45.4	27.7	17.7	17.7	12.6	7.6	10.1	17.7
62.5°	158.9	100.9	53.0	27.7	12.6	2.5	7.6	2.5	0.0	2.5	7.6
65°	133.6	80.7	35.3	12.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	110.9	60.5	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	88.3	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	60.5	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.8	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.1	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°	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1	11092.1
2.5°	9339.7	9700.2	9922.1	10340.7	10769.4	11099.7	11513.2	11883.9	12037.7	12118.4
5°	7203.9	7705.7	8131.9	8769.8	9362.4	10083.5	10814.7	11677.1	12007.4	12093.1
7.5°	5055.6	5567.5	6013.8	6752.6	7597.3	8563.0	9657.4	10751.7	11233.3	11369.5
10°	3651.1	4198.3	4743.0	5481.8	6271.0	7317.4	8457.1	9811.2	10365.9	10471.8
12.5°	2304.7	2892.2	3777.2	4690.0	5524.6	6366.8	7559.5	9032.0	9644.8	9838.9
15°	1336.4	1775.1	2443.3	3633.5	4695.0	5809.6	7110.6	8739.5	9425.4	9624.6
17.5°	895.1	1046.4	1505.3	2415.6	3817.6	5295.2	6997.2	8979.1	9738.1	9992.7
20°	753.9	822.0	983.4	1472.6	2940.1	4836.2	7027.4	9629.6	10625.6	10943.3
22.5°	663.2	726.2	829.6	1059.0	2052.5	4266.4	7171.2	10560.1	11846.0	12252.0
25°	585.0	648.0	738.8	877.5	1379.3	3608.3	7486.4	11921.7	13462.3	13908.6
27.5°	519.4	577.4	655.6	774.1	1061.6	2874.5	7766.2	13248.0	14937.4	15300.5
30°	458.9	506.8	582.5	673.2	882.5	2216.4	7907.4	14407.9	16011.6	16415.0
32.5°	398.4	443.8	516.9	590.0	726.2	1689.4	7809.1	15260.2	17055.5	17312.7
35°	340.4	388.3	448.8	516.9	627.9	1364.1	7317.4	16218.3	18137.2	18338.9
37.5°	292.5	332.8	395.9	448.8	567.3	1091.8	6722.3	17080.7	19350.0	19640.0
40°	247.1	287.5	350.5	398.4	522.0	859.8	6185.3	18038.9	20628.4	20986.5
42.5°	201.7	249.6	305.1	383.3	448.8	655.6	5534.7	18815.5	21589.1	22038.0
45°	161.4	214.3	274.8	380.7	390.8	499.3	4906.9	19420.6	22438.9	22842.3
47.5°	128.6	181.5	264.8	355.5	320.2	395.9	4548.8	20053.5	23144.9	23467.7
50°	103.4	151.3	277.4	312.7	267.3	335.4	4538.7	20759.6	23510.5	23724.9
52.5°	83.2	123.6	234.5	239.5	226.9	295.0	4811.0	21553.8	23883.7	24060.2
55°	70.6	103.4	153.8	176.5	204.2	267.3	5015.3	22776.8	24773.8	24940.2
57.5°	55.5	88.3	118.5	141.2	181.5	244.6	5043.0	23719.8	25900.9	26009.3
59°	47.9	75.6	105.9	126.1	166.4	229.5	4929.5	23777.8	25974.0	26148.0
60°	40.3	68.1	93.3	118.5	153.8	216.8	4806.0	23356.7	25701.7	25895.9
62.5°	30.3	53.0	68.1	95.8	126.1	186.6	4221.0	21886.7	24660.3	24796.5
65°	20.2	37.8	50.4	70.6	98.3	161.4	3439.3	19980.4	23051.6	23356.7
67.5°	12.6	27.7	40.3	53.0	80.7	136.2	2450.9	17133.6	20799.9	20996.6
70°	7.6	17.7	30.3	42.9	63.0	108.4	1454.9	13543.0	17305.1	17345.4
72.5°	5.0	12.6	20.2	30.3	50.4	98.3	706.0	8827.8	12635.3	13116.9
75°	2.5	7.6	12.6	22.7	40.3	80.7	337.9	5897.8	9193.4	9332.1
77.5°	0.0	2.5	7.6	15.1	30.3	63.0	196.7	3873.0	6268.5	6412.2
80°	0.0	0.0	5.0	12.6	22.7	40.3	118.5	2284.5	3797.4	3868.0
82.5°	0.0	0.0	2.5	10.1	15.1	30.3	60.5	1003.6	2486.2	2511.4
85°	0.0	0.0	2.5	10.1	12.6	20.2	22.7	136.2	1104.4	1124.6
87.5°	0.0	0.0	2.5	12.6	12.6	12.6	12.6	7.6	93.3	116.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)