

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: P459308

Luminaire Tested: **GALN-SA7D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459308
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 36047 lumens
Efficiency: N/A
Efficacy: 83.2 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

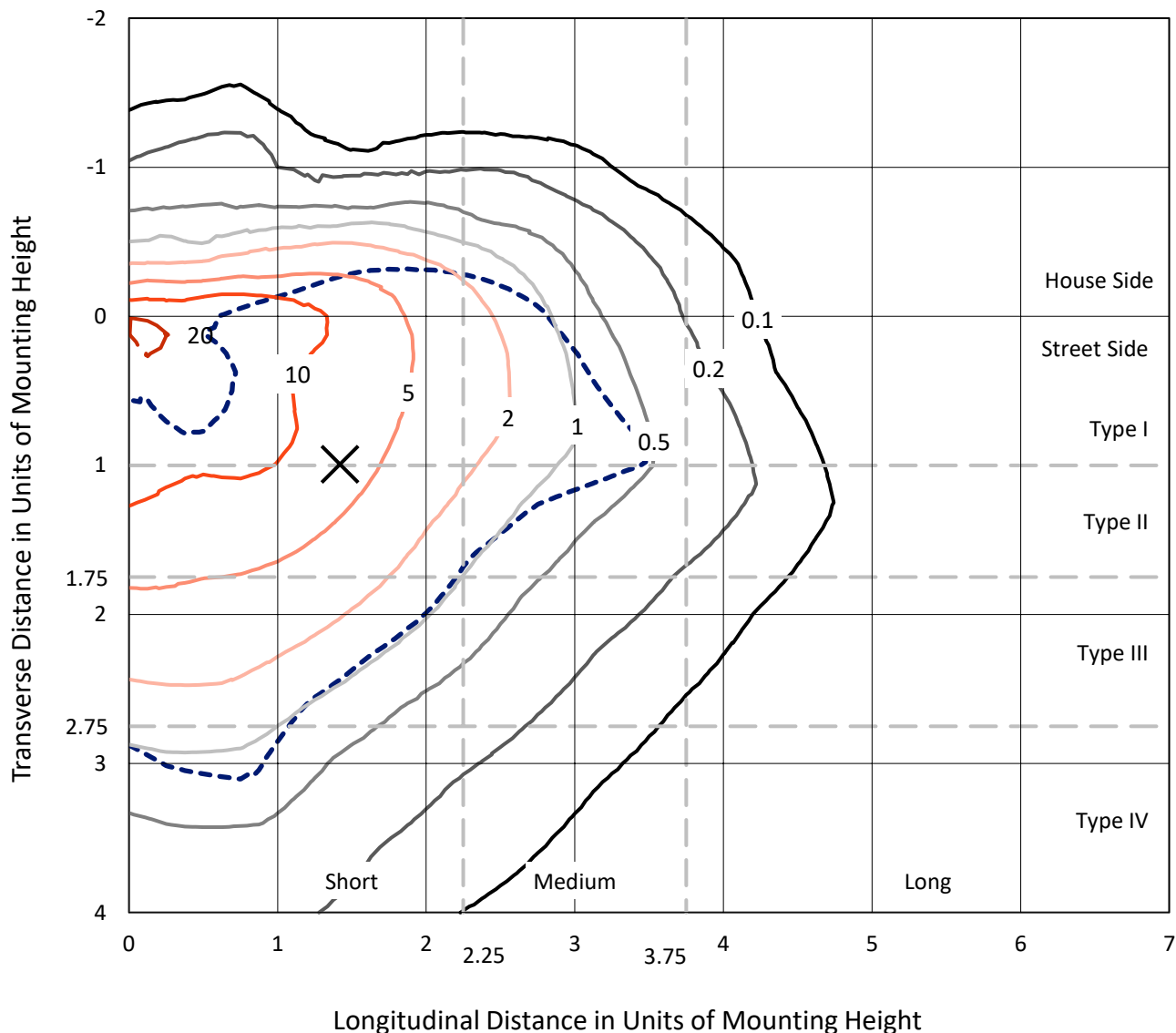
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

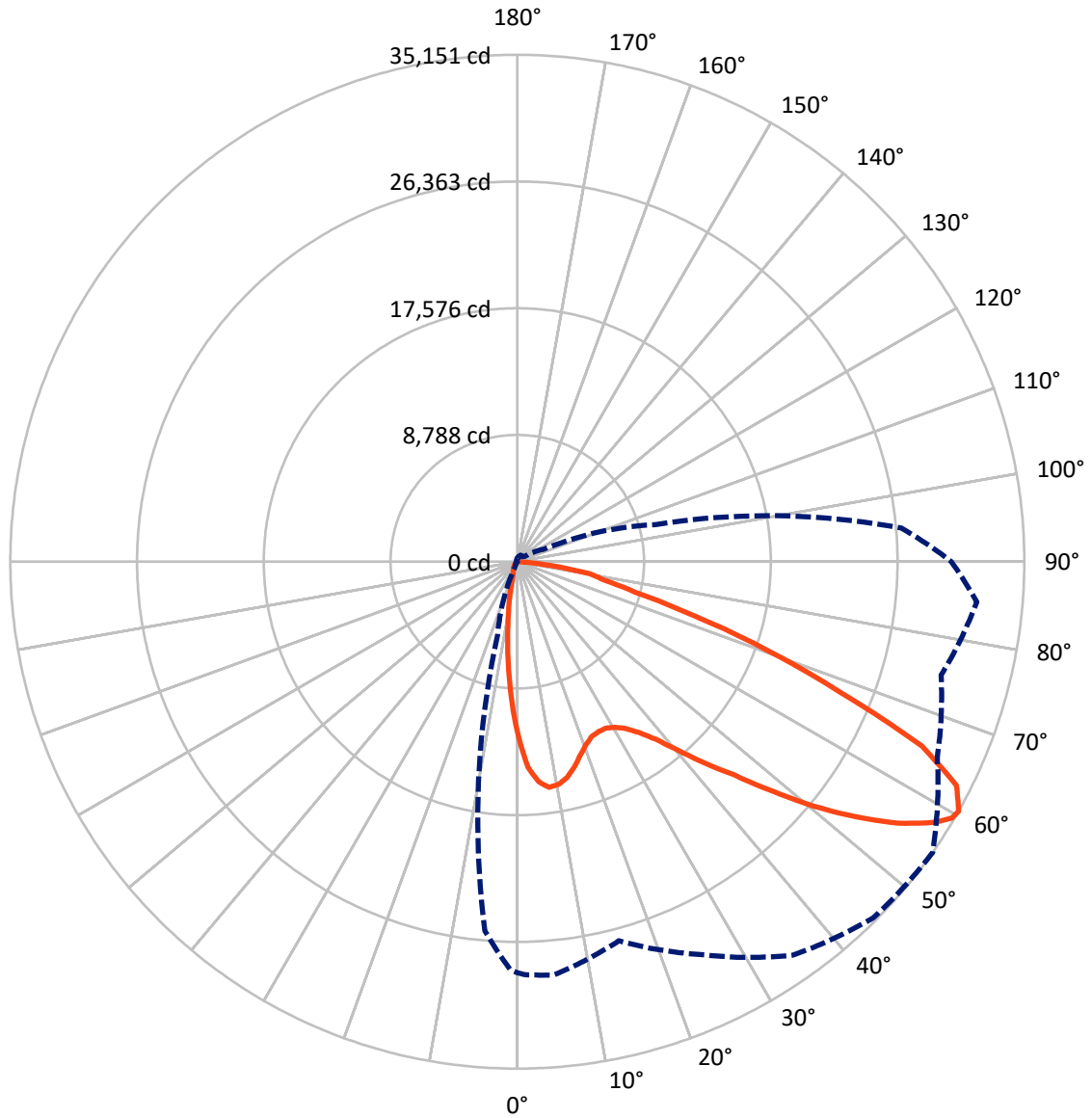
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 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	5349.7	0.0	5349.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	30697.3	0.0	30697.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	36047.0	0.0	36047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.8	2.5
10°-20°	1779.9	4.9
20°-30°	2634.5	7.3
30°-40°	3927.0	10.9
40°-50°	5751.1	16.0
50°-60°	8302.8	23.0
60°-70°	8734.2	24.2
70°-80°	3592.9	10.0
80°-90°	420.8	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°	36047.0	100.0
0°-180°	36047.0	100.0

Coefficient of Utilization



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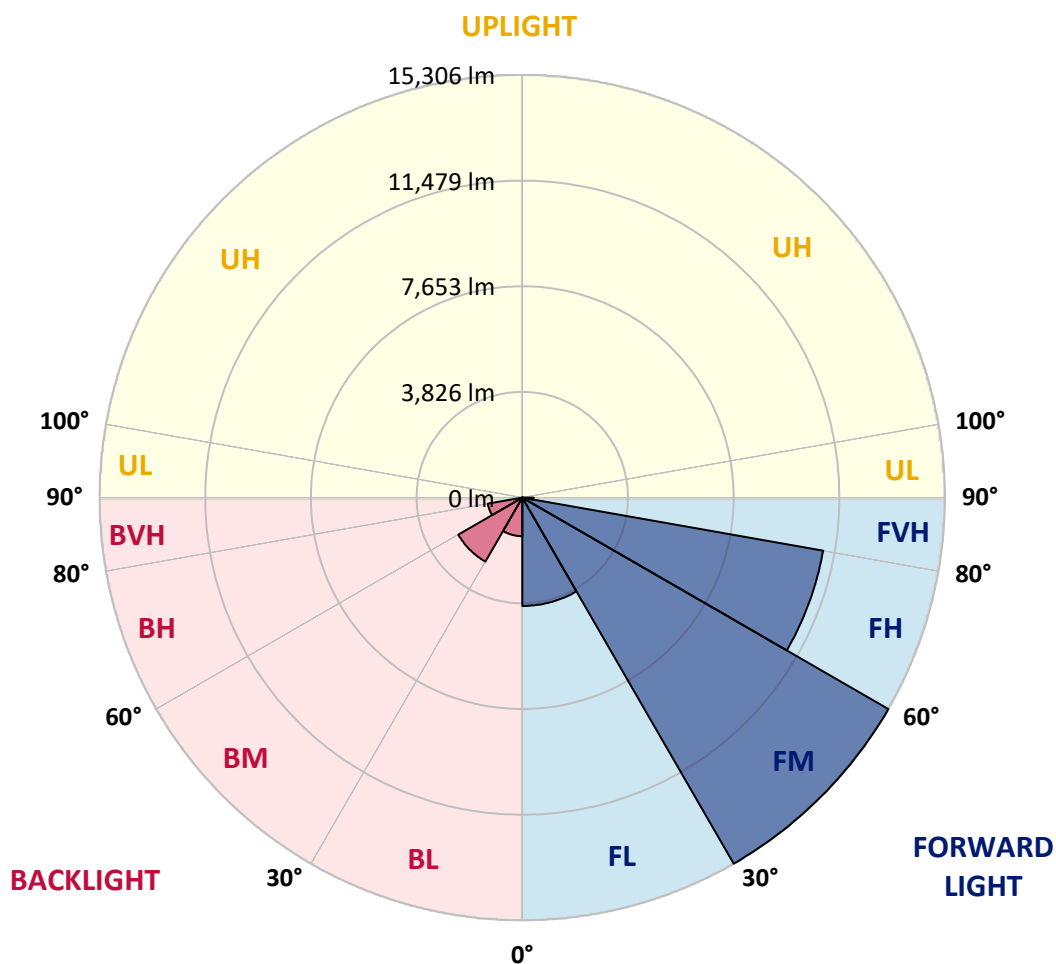
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3922.4	10.9			
FM	(30°-60°)	15305.6	42.5			
FH	(60°-80°)	11060.8	30.7			G4/12000
FVH	(80°-90°)	408.4	1.1			G3/500
BL	(0°-30°)	1395.8	3.9	B3/2500		
BM	(30°-60°)	2675.3	7.4	B3/5000		
BH	(60°-80°)	1266.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	12.4	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°	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4
2.5°	13334.7	13312.5	13509.5	13831.3	14156.0	14325.2	14291.9	14278.0	14008.9	13811.9	13398.5
5°	13306.9	13420.7	13773.1	14644.3	15304.6	15623.7	15718.0	15321.3	14796.9	14036.6	13098.8
7.5°	12510.6	12652.1	13226.5	14588.8	15762.4	16456.1	16431.1	15795.7	14713.6	13537.2	12199.9
10°	11522.9	11689.3	12363.6	14017.2	15540.5	16456.1	16506.0	15701.4	14355.7	12846.3	11439.6
12.5°	10826.4	11023.4	11769.8	13484.5	14968.9	15870.6	15928.9	15346.2	14086.6	12580.0	11026.2
15°	10590.6	10776.5	11534.0	13215.4	14361.3	14846.8	14832.9	14771.9	13981.2	12643.8	11048.4
17.5°	10995.7	11148.3	12002.9	13337.4	13792.5	13742.5	13814.7	14108.8	14003.3	13179.3	11747.6
20°	12041.7	12197.1	13115.5	13712.0	13356.9	13040.6	13073.9	13565.0	14208.7	14186.5	12840.8
22.5°	13481.7	13745.3	14577.7	14439.0	13298.6	12605.0	12535.6	13173.7	14558.3	15346.2	14316.9
25°	15304.6	15571.0	16220.2	15598.7	13584.4	12502.3	12438.5	13054.4	14982.8	16478.3	15978.9
27.5°	16836.2	17038.7	17685.2	16728.0	14006.1	12546.7	12441.3	13071.1	15326.8	17441.1	17380.0
30°	18062.6	18212.4	18592.5	17255.2	14369.6	12740.9	12618.8	13315.2	15479.4	17910.0	18514.8
32.5°	19050.3	19302.8	19422.1	17818.4	14891.2	13107.2	12899.1	13784.2	15851.2	18489.9	19705.1
35°	20179.6	20470.9	20318.3	18356.7	15579.3	13678.7	13423.5	14544.4	16414.5	19025.4	21086.9
37.5°	21611.3	21947.0	21350.5	18922.7	16306.3	14538.8	14419.5	15612.6	17269.0	19791.1	22568.5
40°	23092.9	23287.1	22352.1	19610.8	17199.7	15790.2	15903.9	17199.7	18387.2	20709.5	24144.5
42.5°	24249.9	24433.0	23381.5	20187.9	18112.5	17274.6	17749.0	19114.1	19669.1	21650.1	25320.9
45°	25135.0	25290.4	24094.5	20817.7	19344.4	19424.9	20321.1	21086.9	20953.7	22224.5	26228.2
47.5°	25823.1	25956.3	24643.9	21494.7	21189.5	22055.2	23425.9	23750.5	22285.5	22846.0	27049.5
50°	26106.1	26144.9	24815.9	22357.6	23284.3	25406.9	26835.8	26638.8	23811.5	23536.8	27923.5
52.5°	26475.1	26466.8	25307.0	23178.9	25254.3	28403.5	29829.6	29382.9	25537.3	24571.8	28905.7
55°	27443.5	27454.6	26358.6	24344.2	26932.9	30822.9	32348.9	32024.3	27357.4	26319.7	30051.6
57.5°	28619.9	28661.5	27854.1	25706.6	28536.6	32576.4	34230.1	34105.2	29818.5	28264.7	31133.7
59°	28772.5	28855.7	28561.6	26666.6	29488.3	33114.7	34873.8	34995.9	31136.4	29546.6	31719.1
60°	28495.0	28633.8	28766.9	27210.4	30046.0	33308.9	34912.6	35151.3	32127.0	30417.8	31985.5
62.5°	27285.3	27504.5	28173.2	28883.5	30742.4	32704.1	33672.4	34171.8	33353.3	32706.8	32010.4
65°	25701.0	25814.8	26780.3	29180.3	29391.2	29879.5	30179.2	30820.1	31880.0	33589.2	30864.5
67.5°	23104.0	23439.7	24621.7	27457.3	25404.1	24827.0	24752.1	24113.9	26866.3	31486.0	28040.0
70°	19086.4	19236.2	20692.9	22510.2	19172.4	18284.5	18639.7	18401.1	20826.1	27105.0	22568.5
72.5°	14433.4	14771.9	16195.3	17943.3	13046.1	11894.7	12874.1	12785.3	15643.1	21783.3	15504.4
75°	10268.8	10487.9	12302.5	14042.2	9136.7	7741.1	8093.5	8423.7	10920.8	17199.7	9161.7
77.5°	7055.8	7244.5	8606.8	9286.5	6664.6	6384.3	5840.5	6159.6	7155.7	10204.9	4985.9
80°	4256.2	4247.9	5144.1	5310.6	4641.9	5391.0	4522.6	5077.5	4325.6	4367.2	1931.1
82.5°	2763.5	2735.7	3146.4	3429.4	2583.1	2716.3	1822.9	2627.5	2819.0	1218.0	610.4
85°	1237.5	1290.2	1512.2	1994.9	1132.0	602.1	371.8	807.4	1201.4	613.2	0.0
87.5°	127.6	99.9	266.4	485.6	155.4	16.6	55.5	27.7	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°	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4
2.5°	13207.0	13046.1	12566.1	12116.6	11731.0	11259.3	10954.1	10474.1	10182.7	10094.0	10107.8
5°	12677.1	12213.7	11300.9	10571.2	9758.2	9294.9	8590.1	7913.1	7546.9	7410.9	7349.9
7.5°	11567.3	11070.6	9969.1	8823.2	7952.0	7139.0	6614.6	6018.1	5610.2	5274.5	5216.2
10°	10743.2	10091.2	8726.1	7494.2	6806.1	6195.7	5671.3	5074.7	4594.7	4211.8	4106.4
12.5°	10249.3	9519.6	7996.4	6964.2	6312.2	5685.1	5002.6	4311.7	3820.6	3407.2	3215.7
15°	10160.5	9314.3	7791.0	6584.1	5779.5	5022.0	4114.7	3368.4	2863.4	2472.2	2352.9
17.5°	10696.0	9683.3	7760.5	6187.3	5083.0	4009.3	3065.9	2447.2	1878.4	1659.2	1573.2
20°	11650.5	10335.3	7757.7	5726.8	4367.2	3088.1	2153.1	1595.4	1365.1	1259.7	1209.7
22.5°	12951.8	11223.2	7904.8	5330.0	3623.6	2277.9	1537.1	1270.8	1137.6	1051.6	1032.1
25°	14541.6	12538.4	8265.5	5060.8	3054.8	1786.8	1268.0	1087.6	976.7	937.8	921.2
27.5°	15953.9	13798.0	8662.3	4783.4	2647.0	1581.5	1176.4	996.1	907.3	876.8	851.8
30°	17171.9	14941.2	8853.7	4417.1	2319.6	1448.3	1193.1	1065.4	948.9	857.3	815.7
32.5°	18187.4	15817.9	8978.6	4084.2	2042.1	1184.7	943.4	824.1	771.3	738.0	710.3
35°	19458.2	16766.8	8903.7	3895.5	1900.6	1079.3	860.1	710.3	621.5	554.9	527.2
37.5°	20790.0	17715.7	8773.2	3740.1	1836.8	1001.6	818.5	674.2	577.1	507.7	471.7
40°	22169.0	18595.3	8620.6	3595.9	1778.5	951.7	793.5	643.7	546.6	471.7	432.8
42.5°	23431.4	19452.6	8559.6	3501.5	1684.2	960.0	774.1	629.8	516.1	438.4	405.1
45°	24452.4	20265.6	8642.8	3451.6	1581.5	946.1	779.7	613.2	491.1	416.2	382.9
47.5°	25542.9	21414.3	8912.0	3401.6	1481.6	879.5	821.3	610.4	480.0	402.3	366.2
50°	26810.8	22884.8	9527.9	3279.6	1359.5	807.4	874.0	607.6	466.1	385.7	349.6
52.5°	28500.6	24555.1	10163.3	3065.9	1182.0	738.0	835.2	599.3	438.4	366.2	330.2
55°	30018.3	26314.2	10701.6	2813.4	957.2	638.2	751.9	563.2	391.2	333.0	299.7
57.5°	30645.3	27307.5	10684.9	2463.8	765.8	560.5	618.7	516.1	341.3	294.1	266.4
59°	30415.0	27182.6	10327.0	2205.8	699.2	518.8	513.3	510.5	319.1	266.4	244.2
60°	30090.4	26727.6	9941.4	2078.2	657.6	491.1	471.7	505.0	299.7	249.7	227.5
62.5°	28847.4	24840.9	8662.3	1861.7	602.1	416.2	377.3	427.3	266.4	216.4	197.0
65°	27046.7	21941.4	7333.2	1800.7	585.4	344.0	313.5	305.2	227.5	183.1	166.5
67.5°	23534.1	18567.5	5940.4	1759.1	591.0	288.6	274.7	230.3	188.7	152.6	141.5
70°	18842.2	14477.8	4863.9	1711.9	596.5	235.8	230.3	183.1	152.6	127.6	116.5
72.5°	11448.0	8581.8	3828.9	1487.2	579.9	188.7	205.3	138.7	111.0	91.6	86.0
75°	7078.0	5873.8	2375.0	1157.0	382.9	138.7	144.3	86.0	74.9	58.3	58.3
77.5°	4100.8	3709.6	849.0	416.2	169.2	83.2	63.8	44.4	41.6	25.0	25.0
80°	1700.8	1362.3	294.1	141.5	91.6	38.8	13.9	2.8	0.0	0.0	0.0
82.5°	496.7	441.2	80.5	63.8	27.7	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°	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4
2.5°	9872.0	9780.4	9738.8	9880.3	9749.9	9916.4	9788.7	9844.2	10007.9	10080.1	10266.0
5°	7388.7	7294.4	7250.0	7463.6	7452.5	7558.0	7546.9	7644.0	7727.2	7541.3	7732.8
7.5°	5146.9	5083.0	5188.5	5355.0	5532.5	5474.3	5474.3	5343.9	5388.3	5360.5	5352.2
10°	3914.9	3695.8	3640.3	3634.7	3701.3	3715.2	3640.3	3459.9	3526.5	3545.9	3662.5
12.5°	3079.8	2910.5	2652.5	2536.0	2505.5	2530.4	2283.5	2125.3	2200.2	2155.9	2269.6
15°	2208.6	2069.8	1917.2	1786.8	1750.8	1700.8	1431.7	1243.0	1220.8	1229.1	1248.6
17.5°	1576.0	1481.6	1481.6	1342.9	1268.0	1118.2	982.2	899.0	890.6	899.0	912.8
20°	1162.6	1112.6	1107.1	1071.0	987.8	887.9	793.5	776.9	771.3	785.2	790.8
22.5°	1001.6	948.9	904.5	901.7	824.1	740.8	696.4	674.2	677.0	682.5	696.4
25°	896.2	840.7	793.5	765.8	710.3	652.0	610.4	599.3	599.3	607.6	610.4
27.5°	821.3	751.9	710.3	671.5	621.5	571.6	535.5	527.2	521.6	527.2	541.0
30°	768.6	699.2	646.5	588.2	549.4	502.2	471.7	460.6	457.8	460.6	471.7
32.5°	657.6	616.0	574.3	521.6	474.5	443.9	410.6	391.2	391.2	396.8	407.9
35°	496.7	474.5	471.7	457.8	419.0	385.7	346.8	327.4	327.4	338.5	344.0
37.5°	438.4	396.8	391.2	385.7	369.0	324.6	288.6	271.9	269.1	277.5	288.6
40°	399.5	352.4	327.4	321.9	324.6	274.7	235.8	219.2	219.2	222.0	233.1
42.5°	369.0	313.5	269.1	263.6	274.7	230.3	191.4	174.8	174.8	174.8	188.7
45°	344.0	280.2	227.5	199.8	216.4	188.7	155.4	138.7	133.2	138.7	144.3
47.5°	327.4	255.3	199.8	160.9	160.9	149.8	124.9	105.4	99.9	102.7	111.0
50°	313.5	233.1	169.2	130.4	116.5	119.3	94.3	80.5	74.9	74.9	83.2
52.5°	291.3	210.9	147.1	111.0	88.8	80.5	69.4	58.3	55.5	58.3	63.8
55°	263.6	191.4	127.6	91.6	69.4	55.5	49.9	41.6	38.8	41.6	49.9
57.5°	233.1	160.9	102.7	72.1	47.2	36.1	33.3	27.7	22.2	25.0	30.5
59°	213.6	144.3	88.8	58.3	36.1	25.0	25.0	19.4	13.9	16.6	25.0
60°	205.3	133.2	74.9	49.9	30.5	19.4	19.4	13.9	8.3	11.1	19.4
62.5°	174.8	111.0	58.3	30.5	13.9	2.8	8.3	2.8	0.0	2.8	8.3
65°	147.1	88.8	38.8	13.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8
67.5°	122.1	66.6	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	97.1	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	66.6	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.6	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°	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4	12205.4
2.5°	10277.1	10673.8	10918.0	11378.6	11850.3	12213.7	12668.8	13076.6	13245.9	13334.7
5°	7927.0	8479.1	8948.0	9650.0	10302.0	11095.6	11900.2	12849.1	13212.6	13306.9
7.5°	5563.0	6126.3	6617.4	7430.3	8359.8	9422.5	10626.7	11830.8	12360.8	12510.6
10°	4017.6	4619.7	5219.0	6032.0	6900.4	8051.9	9306.0	10795.9	11406.3	11522.9
12.5°	2536.0	3182.5	4156.3	5160.7	6079.1	7005.8	8318.2	9938.6	10612.8	10826.4
15°	1470.5	1953.3	2688.6	3998.2	5166.3	6392.7	7824.3	9616.7	10371.4	10590.6
17.5°	985.0	1151.5	1656.4	2658.1	4200.7	5826.6	7699.5	9880.3	10715.5	10995.7
20°	829.6	904.5	1082.1	1620.4	3235.2	5321.7	7732.8	10596.2	11692.1	12041.7
22.5°	729.7	799.1	912.8	1165.3	2258.5	4694.6	7890.9	11620.0	13035.0	13481.7
25°	643.7	713.1	813.0	965.6	1517.7	3970.4	8237.8	13118.3	14813.5	15304.6
27.5°	571.6	635.4	721.4	851.8	1168.1	3163.0	8545.7	14577.7	16436.7	16836.2
30°	505.0	557.7	640.9	740.8	971.1	2438.9	8701.1	15854.0	17618.6	18062.6
32.5°	438.4	488.3	568.8	649.3	799.1	1859.0	8592.9	16791.8	18767.3	19050.3
35°	374.6	427.3	493.9	568.8	690.9	1501.1	8051.9	17846.2	19957.6	20179.6
37.5°	321.9	366.2	435.6	493.9	624.3	1201.4	7397.1	18795.1	21292.2	21611.3
40°	271.9	316.3	385.7	438.4	574.3	946.1	6806.1	19849.4	22698.9	23092.9
42.5°	222.0	274.7	335.7	421.7	493.9	721.4	6090.2	20704.0	23756.0	24249.9
45°	177.6	235.8	302.4	419.0	430.1	549.4	5399.3	21369.9	24691.1	25135.0
47.5°	141.5	199.8	291.3	391.2	352.4	435.6	5005.4	22066.3	25467.9	25823.1
50°	113.8	166.5	305.2	344.0	294.1	369.0	4994.3	22843.2	25870.3	26106.1
52.5°	91.6	136.0	258.0	263.6	249.7	324.6	5293.9	23717.2	26280.9	26475.1
55°	77.7	113.8	169.2	194.2	224.7	294.1	5518.7	25062.9	27260.3	27443.5
57.5°	61.0	97.1	130.4	155.4	199.8	269.1	5549.2	26100.6	28500.6	28619.9
59°	52.7	83.2	116.5	138.7	183.1	252.5	5424.3	26164.4	28581.0	28772.5
60°	44.4	74.9	102.7	130.4	169.2	238.6	5288.4	25701.0	28281.4	28495.0
62.5°	33.3	58.3	74.9	105.4	138.7	205.3	4644.7	24083.4	27135.5	27285.3
65°	22.2	41.6	55.5	77.7	108.2	177.6	3784.5	21985.8	25365.3	25701.0
67.5°	13.9	30.5	44.4	58.3	88.8	149.8	2696.9	18853.3	22887.6	23104.0
70°	8.3	19.4	33.3	47.2	69.4	119.3	1600.9	14902.3	19042.0	19086.4
72.5°	5.5	13.9	22.2	33.3	55.5	108.2	776.9	9713.8	13903.5	14433.4
75°	2.8	8.3	13.9	25.0	44.4	88.8	371.8	6489.8	10116.1	10268.8
77.5°	0.0	2.8	8.3	16.6	33.3	69.4	216.4	4261.8	6897.6	7055.8
80°	0.0	0.0	5.5	13.9	25.0	44.4	130.4	2513.8	4178.5	4256.2
82.5°	0.0	0.0	2.8	11.1	16.6	33.3	66.6	1104.3	2735.7	2763.5
85°	0.0	0.0	2.8	11.1	13.9	22.2	25.0	149.8	1215.3	1237.5
87.5°	0.0	0.0	2.8	13.9	13.9	13.9	13.9	8.3	102.7	127.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)