

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: P458845

Luminaire Tested: **GALN-SA3D-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18544 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

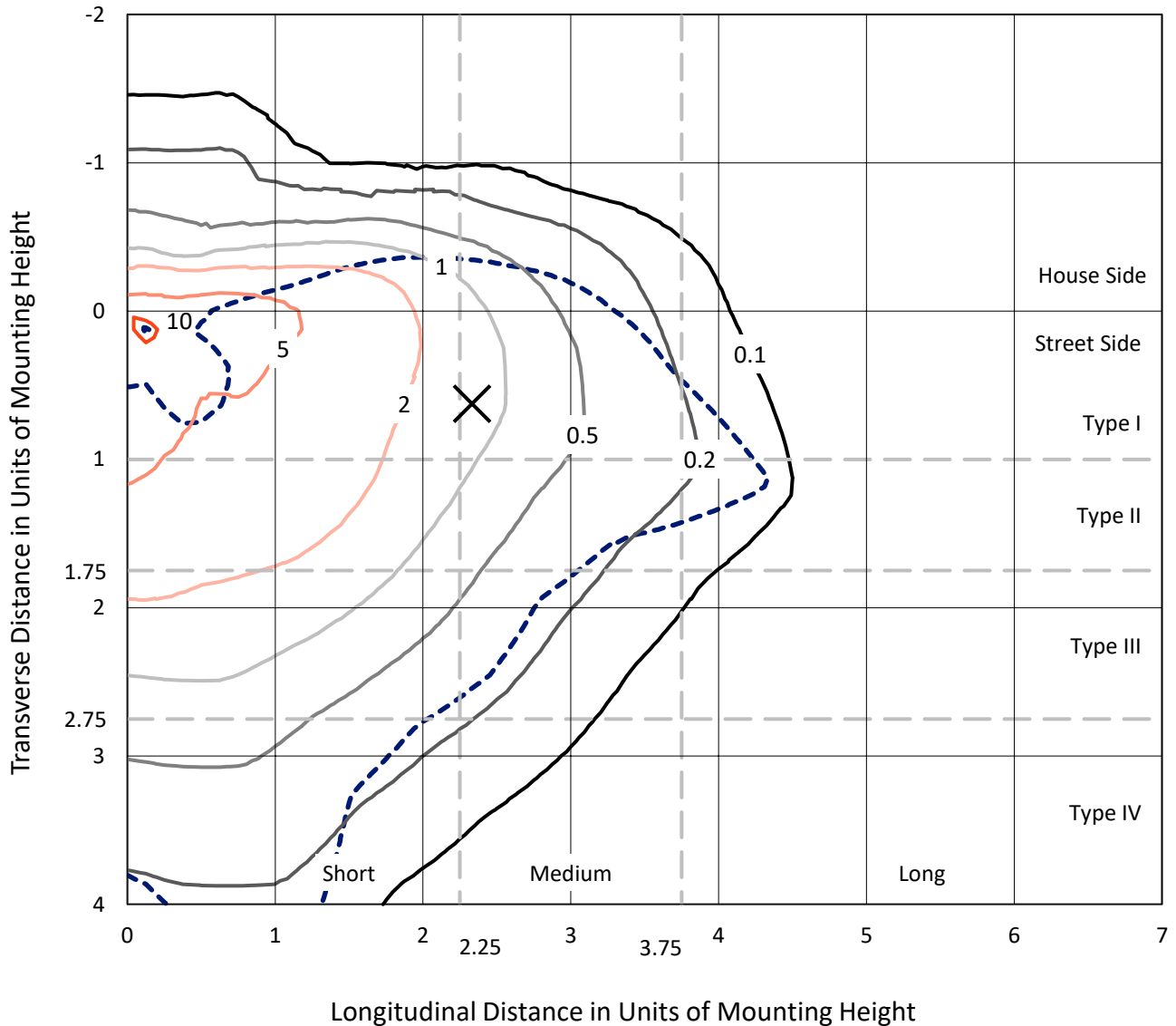
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

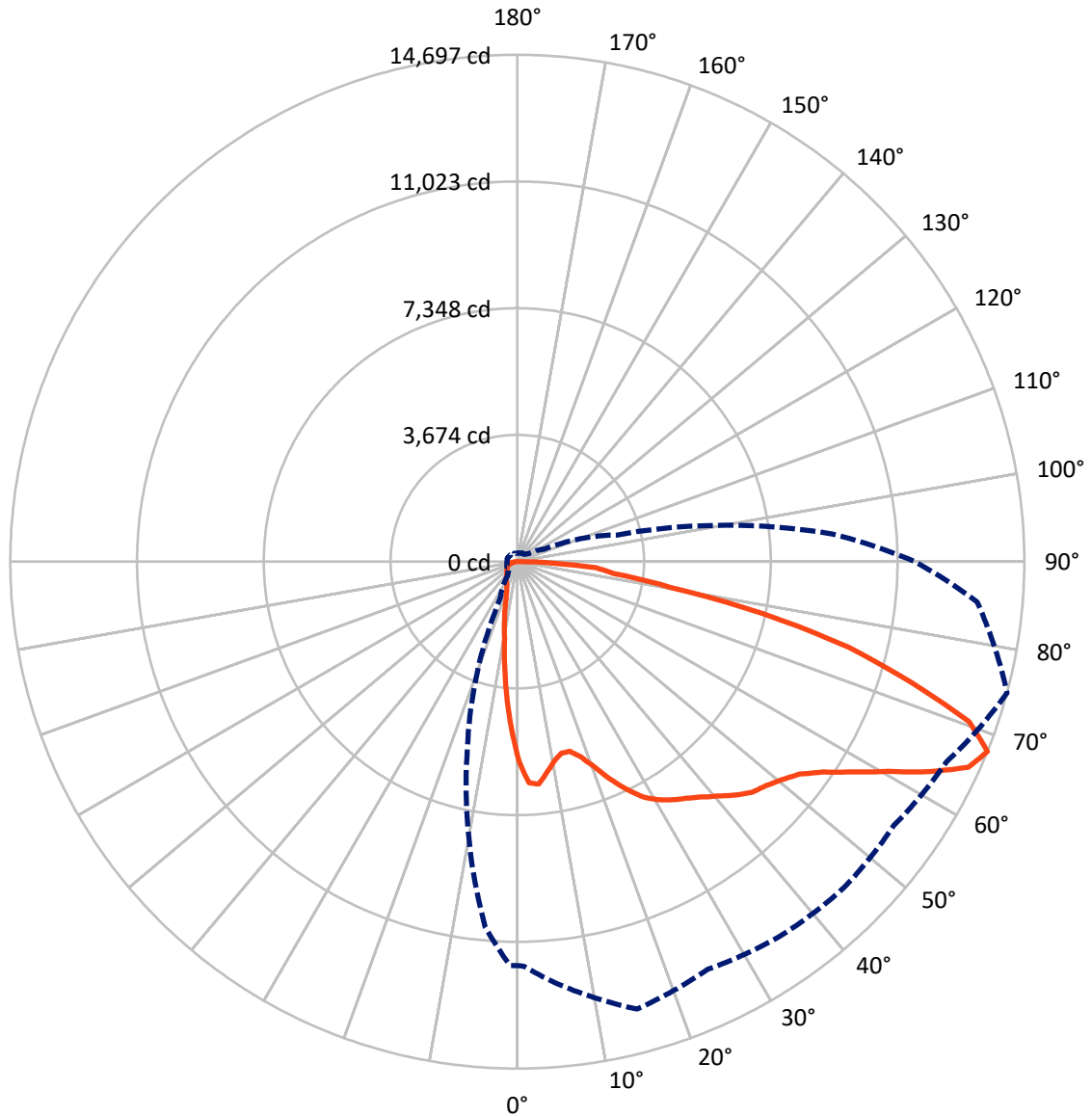
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3134.3	0.0	3134.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	15409.7	0.0	15409.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	18544.0	0.0	18544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.4	2.4
10°-20°	916.4	4.9
20°-30°	1318.8	7.1
30°-40°	1899.4	10.2
40°-50°	2668.1	14.4
50°-60°	3721.1	20.1
60°-70°	4424.2	23.9
70°-80°	2605.6	14.1
80°-90°	551.0	3.0
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°	18544.0	100.0
0°-180°	18544.0	100.0

**Coefficient of Utilization**



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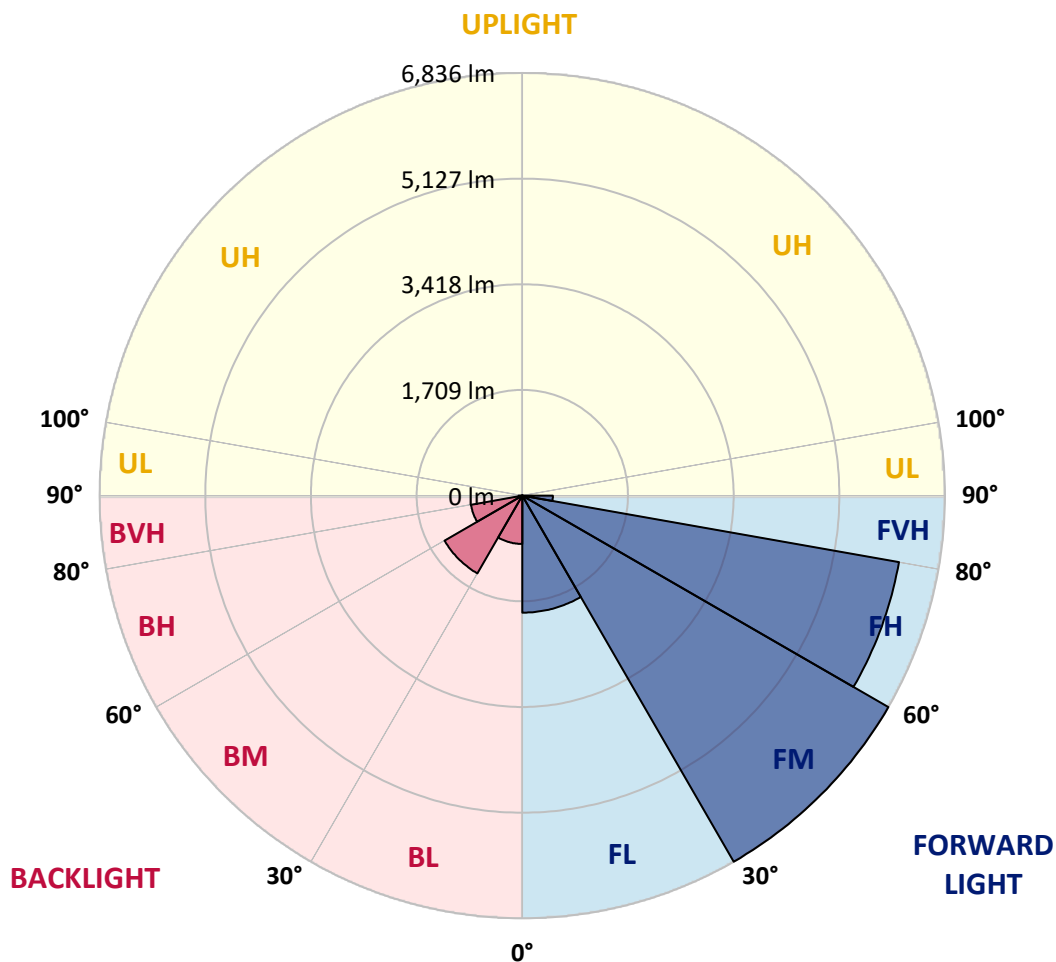
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.8	10.2			
FM	(30°-60°)	6836.5	36.9			
FH	(60°-80°)	6186.4	33.4			G3/7500
FVH	(80°-90°)	494.0	2.7			G3/500
BL	(0°-30°)	781.8	4.2	B2/1000		
BM	(30°-60°)	1452.2	7.8	B2/2500		
BH	(60°-80°)	843.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	57.0	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	6246.7	6255.0	6308.5	6464.3	6571.3	6610.5	6637.9	6586.8	6536.8	6415.5	6232.4
5°	6227.6	6276.4	6415.5	6765.1	7041.0	7159.9	7195.6	7042.2	6788.9	6477.4	6102.8
7.5°	5863.7	5929.1	6143.2	6729.5	7215.8	7494.1	7457.2	7180.1	6723.5	6168.2	5644.9
10°	5432.1	5504.6	5762.7	6471.4	7098.1	7481.0	7481.0	7143.3	6536.8	5876.8	5273.9
12.5°	5089.6	5165.7	5460.6	6206.2	6853.1	7215.8	7276.5	6986.3	6402.4	5692.5	5030.1
15°	4976.6	5050.4	5367.9	6045.7	6593.9	6815.1	6835.3	6740.2	6337.0	5705.6	5019.4
17.5°	5117.0	5212.1	5533.2	6093.3	6356.1	6369.1	6384.6	6459.5	6344.2	5944.6	5235.9
20°	5522.5	5624.7	5960.1	6246.7	6148.0	6012.4	6020.7	6213.4	6428.6	6339.4	5753.2
22.5°	6107.5	6196.7	6540.4	6516.6	6060.0	5780.5	5722.2	5991.0	6553.5	6831.7	6303.7
25°	6739.0	6843.6	7238.4	6917.3	6084.9	5642.6	5605.7	5860.2	6683.1	7291.9	6939.9
27.5°	7462.0	7564.2	7875.8	7321.7	6215.7	5631.9	5587.9	5848.3	6799.6	7717.6	7547.6
30°	7999.5	8093.4	8305.1	7661.8	6376.3	5703.2	5648.5	5942.2	6899.5	8009.0	8139.8
32.5°	8421.6	8519.1	8634.5	7873.4	6587.9	5832.8	5731.7	6113.5	7030.3	8231.4	8578.6
35°	8861.6	8977.0	8968.6	8061.3	6785.3	5982.7	5884.0	6360.8	7236.0	8425.2	9135.1
37.5°	9419.3	9465.7	9406.3	8230.2	7022.0	6252.6	6197.9	6728.3	7528.6	8659.5	9785.6
40°	9985.4	10078.1	9772.5	8434.7	7309.8	6760.4	6754.4	7271.7	7875.8	8934.2	10415.8
42.5°	10470.5	10549.0	10115.0	8613.1	7658.2	7379.9	7425.1	8000.7	8331.3	9252.8	10922.4
45°	10835.6	10905.8	10431.3	8785.5	8117.2	8095.8	8362.2	8781.9	8905.6	9539.4	11219.7
47.5°	11146.0	11213.8	10651.3	9047.1	8684.4	8950.8	9414.6	9596.5	9396.7	9703.5	11552.7
50°	11407.6	11427.8	10802.3	9358.7	9388.4	9998.5	10448.0	10565.7	9881.9	9939.0	11841.6
52.5°	11679.9	11653.8	11062.7	9751.1	10149.5	10992.6	11319.6	11442.1	10346.9	10229.1	12262.6
55°	12290.0	12314.9	11646.6	10245.8	10918.9	11968.9	12399.4	12281.6	10861.8	10763.1	12797.7
57.5°	13027.2	13005.8	12468.3	11019.9	11702.5	12877.4	13198.5	13009.4	11549.1	11496.8	13340.0
60°	13313.8	13342.4	13155.7	11852.4	12475.5	13673.0	14001.2	13707.4	12373.2	12349.4	13749.1
62.5°	13026.1	13186.6	13312.6	12593.2	13134.3	14258.0	14583.9	14248.5	13233.0	13405.4	14035.6
65°	12452.9	12487.4	12916.6	13221.1	13451.8	14354.3	14524.4	14346.0	13951.2	14367.4	14022.6
67.5°	11708.5	11738.2	12241.2	13426.8	13042.7	13260.3	13379.2	13326.9	13728.8	14696.8	13376.9
70°	10999.7	10975.9	11507.5	12902.4	11354.1	11023.5	11122.2	10958.1	11846.4	13891.8	12110.4
72.5°	9620.3	9705.9	10276.7	11444.5	8990.0	8452.5	8667.8	8243.3	9111.3	11897.5	9829.6
75°	7535.7	7555.9	8508.4	9604.8	6781.8	5933.9	6225.2	6048.1	6979.2	9924.7	6787.7
77.5°	5218.0	5172.8	6196.7	7335.9	4836.3	4344.0	4348.8	4264.3	4873.2	7307.4	4611.6
80°	3314.2	3245.2	3879.0	4531.9	3323.7	3555.6	3439.0	3435.5	3172.7	4508.1	2788.6
82.5°	1790.9	1867.0	2450.9	2840.9	2384.3	2748.1	2518.6	2444.9	2177.4	2821.9	1783.7
85°	815.8	887.1	1306.9	1932.4	1811.1	1831.3	1223.6	1443.6	1801.6	2291.5	952.5
87.5°	79.7	102.3	269.9	912.1	618.4	487.6	181.9	350.8	453.1	814.6	76.1
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°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	6157.5	6095.6	5885.1	5711.5	5527.2	5386.9	5203.8	5081.3	4996.8	4869.6	4854.1
5°	5874.4	5723.4	5357.2	4983.8	4661.5	4418.9	4172.8	3946.8	3813.6	3772.0	3718.5
7.5°	5397.6	5143.1	4672.2	4244.1	3874.3	3512.8	3234.5	3037.1	2905.1	2827.8	2735.1
10°	5005.2	4710.3	4137.1	3612.7	3308.2	3083.5	2838.5	2626.9	2463.9	2324.8	2248.7
12.5°	4741.2	4408.2	3763.7	3338.0	3102.5	2863.5	2576.9	2339.1	2098.9	1940.7	1872.9
15°	4661.5	4309.5	3648.3	3201.2	2863.5	2550.7	2229.7	1919.3	1681.5	1531.6	1481.7
17.5°	4856.5	4430.8	3647.2	3019.3	2582.9	2209.5	1798.0	1506.7	1262.9	1151.1	1115.4
20°	5220.4	4663.9	3657.9	2839.7	2278.4	1752.8	1308.1	1069.1	952.5	905.0	887.1
22.5°	5728.2	5019.4	3690.0	2662.5	1945.5	1346.1	979.9	858.6	817.0	808.6	805.1
25°	6353.7	5459.4	3798.2	2503.2	1664.8	1027.4	819.3	764.6	740.8	732.5	731.3
27.5°	6929.2	6027.8	3929.0	2366.4	1393.7	885.9	740.8	694.5	670.7	669.5	671.9
30°	7448.9	6503.5	4038.4	2213.0	1188.0	787.2	689.7	643.3	620.7	619.6	626.7
32.5°	7898.4	6894.7	4119.2	2062.0	1073.8	726.6	643.3	593.4	574.4	570.8	574.4
35°	8378.8	7284.8	4082.4	1944.3	1008.4	676.6	608.8	560.1	537.5	526.8	526.8
37.5°	8927.0	7686.7	4019.4	1846.8	978.7	635.0	579.1	531.6	509.0	498.3	497.1
40°	9525.2	8088.7	3932.6	1760.0	948.9	610.0	558.9	509.0	481.6	470.9	468.5
42.5°	10053.2	8432.3	3861.2	1702.9	900.2	614.8	541.1	492.3	457.8	443.6	442.4
45°	10512.2	8778.4	3848.1	1669.6	859.8	607.7	536.3	479.2	438.8	423.3	421.0
47.5°	10871.3	9138.7	3923.0	1650.6	815.8	569.6	567.2	470.9	422.2	405.5	403.1
50°	11308.9	9650.0	4094.3	1611.3	775.3	533.9	599.3	469.7	409.1	387.7	381.7
52.5°	11891.6	10316.0	4326.2	1541.2	717.1	500.6	572.0	469.7	393.6	372.2	365.1
55°	12772.8	11165.0	4553.3	1442.5	635.0	456.6	516.1	455.4	371.0	352.0	347.2
57.5°	13356.6	11785.8	4698.4	1305.7	532.7	424.5	444.7	432.9	348.4	328.2	328.2
60°	13386.4	11952.2	4629.4	1133.3	468.5	394.8	386.5	436.4	328.2	306.8	304.4
62.5°	13043.9	11544.4	4270.3	978.7	434.0	362.7	349.6	382.9	308.0	286.6	283.0
65°	12508.8	10503.8	3647.2	905.0	415.0	334.2	315.1	313.9	286.6	266.4	261.6
67.5°	11525.3	9179.1	2996.7	862.1	405.5	302.0	284.2	278.3	261.6	245.0	242.6
70°	10075.7	7687.9	2403.3	844.3	400.7	268.8	254.5	247.3	233.1	220.0	218.8
72.5°	7838.9	6236.0	1983.5	832.4	398.4	237.8	222.4	212.9	204.5	192.6	192.6
75°	5630.7	4587.8	1513.8	750.4	368.6	204.5	187.9	181.9	170.0	160.5	162.9
77.5°	3549.6	3089.4	996.5	551.8	285.4	164.1	149.8	146.3	136.8	123.7	132.0
80°	2397.3	2172.6	581.5	347.2	179.6	120.1	115.3	114.2	103.5	89.2	90.4
82.5°	1631.5	1600.6	302.0	197.4	103.5	70.2	67.8	70.2	58.3	47.6	47.6
85°	637.4	870.5	142.7	77.3	33.3	10.7	15.5	16.6	9.5	4.8	5.9
87.5°	11.9	89.2	3.6	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°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	4830.4	4819.7	4837.5	4761.4	4776.9	4805.4	4819.7	4828.0	4945.7	4918.4	4993.3
5°	3768.4	3757.7	3826.7	3836.2	3871.9	3864.8	3899.3	3907.6	3950.4	3965.8	4070.5
7.5°	2741.0	2787.4	2865.9	2906.3	2967.0	2986.0	2968.1	3012.1	2923.0	2987.2	3006.2
10°	2202.3	2146.4	2113.1	2205.9	2217.8	2305.8	2270.1	2241.6	2293.9	2296.3	2346.2
12.5°	1833.7	1713.6	1633.9	1660.1	1688.6	1726.7	1732.6	1789.7	1827.7	1863.4	1893.1
15°	1437.7	1396.1	1323.5	1287.9	1328.3	1343.8	1380.6	1428.2	1468.6	1479.3	1519.7
17.5°	1103.5	1110.7	1098.8	1077.4	1102.4	1114.2	1116.6	1117.8	1128.5	1121.4	1180.8
20°	888.3	913.3	943.0	947.8	956.1	962.0	951.3	910.9	912.1	937.1	956.1
22.5°	803.9	808.6	841.9	852.6	878.8	868.1	837.2	818.1	815.8	821.7	831.2
25°	737.3	744.4	768.2	784.8	805.1	786.0	763.4	745.6	743.2	749.2	758.7
27.5°	677.8	688.5	709.9	726.6	745.6	727.8	706.4	690.9	689.7	688.5	694.5
30°	630.3	642.1	657.6	676.6	689.7	674.3	654.0	645.7	644.5	642.1	644.5
32.5°	582.7	601.7	617.2	626.7	639.8	627.9	612.4	607.7	599.3	592.2	588.6
35°	529.2	549.4	573.2	585.1	598.1	586.3	575.6	555.3	541.1	539.9	542.3
37.5°	498.3	506.6	525.6	545.8	558.9	553.0	532.7	512.5	509.0	509.0	511.3
40°	470.9	474.5	482.8	509.0	532.7	514.9	489.9	484.0	484.0	482.8	484.0
42.5°	443.6	447.1	447.1	467.3	505.4	476.9	457.8	457.8	457.8	459.0	462.6
45°	418.6	419.8	418.6	432.9	468.5	444.7	431.7	435.2	437.6	440.0	442.4
47.5°	397.2	398.4	397.2	409.1	426.9	417.4	410.3	415.0	419.8	423.3	425.7
50°	378.2	377.0	379.3	386.5	394.8	397.2	392.4	399.6	401.9	406.7	412.6
52.5°	361.5	360.3	362.7	366.3	378.2	378.2	378.2	384.1	388.9	393.6	401.9
55°	342.5	343.7	347.2	352.0	367.5	365.1	366.3	371.0	375.8	382.9	387.7
57.5°	324.6	327.0	331.8	338.9	354.4	353.2	354.4	356.7	362.7	366.3	371.0
60°	304.4	309.2	315.1	319.9	335.3	334.2	340.1	344.9	348.4	348.4	350.8
62.5°	284.2	291.3	297.3	300.9	317.5	318.7	327.0	330.6	333.0	330.6	334.2
65°	264.0	274.7	277.1	281.8	298.5	299.7	309.2	317.5	315.1	312.7	318.7
67.5°	243.8	256.9	255.7	261.6	278.3	280.6	289.0	303.2	298.5	296.1	300.9
70°	221.2	230.7	231.9	235.5	258.0	254.5	267.6	280.6	277.1	278.3	278.3
72.5°	196.2	204.5	204.5	211.7	235.5	229.5	240.2	254.5	254.5	253.3	253.3
75°	166.5	171.2	176.0	186.7	211.7	204.5	211.7	224.8	227.1	224.8	224.8
77.5°	134.4	141.5	143.9	158.2	176.0	174.8	181.9	187.9	192.6	190.3	190.3
80°	95.1	102.3	111.8	127.2	137.9	141.5	145.1	149.8	152.2	152.2	154.6
82.5°	53.5	64.2	72.5	88.0	92.8	110.6	109.4	113.0	109.4	96.3	107.0
85°	11.9	22.6	32.1	40.4	46.4	64.2	67.8	76.1	63.0	58.3	58.3
87.5°	0.0	0.0	0.0	0.0	0.0	9.5	19.0	26.2	22.6	19.0	19.0
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°	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6	5793.6
2.5°	5056.3	5159.8	5284.6	5499.9	5650.9	5813.8	5977.9	6152.7	6199.1	6246.7
5°	4099.0	4302.4	4413.0	4701.9	5005.2	5390.5	5705.6	6050.4	6194.3	6227.6
7.5°	3104.9	3242.8	3533.0	3825.5	4201.3	4605.6	5088.4	5625.9	5793.6	5863.7
10°	2461.6	2649.4	2903.9	3217.9	3547.3	3982.5	4527.1	5155.0	5392.8	5432.1
12.5°	2095.3	2304.6	2581.7	2913.4	3225.0	3553.2	4102.6	4750.7	5005.2	5089.6
15°	1675.5	1928.8	2248.7	2598.3	2937.2	3296.3	3852.9	4584.2	4877.9	4976.6
17.5°	1316.4	1520.9	1867.0	2246.3	2648.3	3102.5	3800.6	4663.9	5025.4	5117.0
20°	1007.2	1153.5	1444.8	1845.6	2316.5	2911.1	3813.6	4964.7	5397.6	5522.5
22.5°	870.5	945.4	1122.6	1504.3	2031.1	2744.6	3867.1	5377.4	5899.4	6107.5
25°	788.4	827.7	927.5	1177.3	1758.8	2582.9	3989.6	5932.7	6601.0	6739.0
27.5°	718.3	746.8	808.6	988.2	1511.4	2433.0	4132.3	6548.7	7256.3	7462.0
30°	651.7	689.7	748.0	877.6	1353.3	2296.3	4311.9	7048.1	7808.0	7999.5
32.5°	600.5	638.6	692.1	800.3	1218.9	2152.4	4418.9	7486.9	8258.7	8421.6
35°	558.9	591.0	646.9	738.5	1116.6	2043.0	4397.5	7835.4	8695.1	8861.6
37.5°	529.2	556.5	612.4	680.2	1039.3	1928.8	4386.8	8295.6	9226.7	9419.3
40°	501.8	530.4	581.5	642.1	962.0	1794.4	4392.8	8752.2	9792.7	9985.4
42.5°	480.4	512.5	554.1	631.4	882.4	1686.2	4392.8	9149.4	10285.0	10470.5
45°	462.6	497.1	537.5	630.3	819.3	1604.2	4363.0	9490.7	10677.5	10835.6
47.5°	447.1	485.2	543.4	608.8	803.9	1544.7	4336.9	9764.2	10997.3	11146.0
50°	436.4	481.6	577.9	583.9	808.6	1526.9	4462.9	10109.0	11279.2	11407.6
52.5°	428.1	482.8	576.7	547.0	800.3	1538.8	4725.7	10647.7	11670.4	11679.9
55°	411.4	481.6	547.0	505.4	765.8	1559.0	5063.4	11430.2	12282.8	12290.0
57.5°	394.8	468.5	507.8	469.7	695.7	1559.0	5470.1	12171.0	13021.3	13027.2
60°	378.2	487.6	445.9	438.8	604.1	1530.4	5899.4	12496.9	13253.2	13313.8
62.5°	361.5	491.1	398.4	411.4	537.5	1461.5	6219.3	12136.6	12939.2	13026.1
65°	342.5	396.0	367.5	382.9	503.0	1346.1	6118.2	11476.6	12349.4	12452.9
67.5°	319.9	335.3	334.2	353.2	491.1	1176.1	5585.5	10641.8	11714.4	11708.5
70°	292.5	300.9	304.4	324.6	468.5	1044.1	4654.4	9558.5	10866.5	10999.7
72.5°	264.0	271.1	274.7	292.5	445.9	969.2	3612.7	8066.1	9412.2	9620.3
75°	233.1	237.8	242.6	258.0	422.2	858.6	2573.3	6157.5	7208.7	7535.7
77.5°	201.0	201.0	206.9	222.4	355.6	708.7	1726.7	4319.0	4883.9	5218.0
80°	162.9	164.1	161.7	178.4	261.6	485.2	981.1	2884.9	3250.0	3314.2
82.5°	124.9	121.3	122.5	130.8	195.0	330.6	523.2	1792.1	1826.5	1790.9
85°	78.5	78.5	76.1	85.6	124.9	172.4	285.4	1097.6	857.4	815.8
87.5°	32.1	26.2	29.7	34.5	59.5	70.2	111.8	225.9	86.8	79.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)