

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: P531487

Luminaire Tested: **GALN-SA6D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23624 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

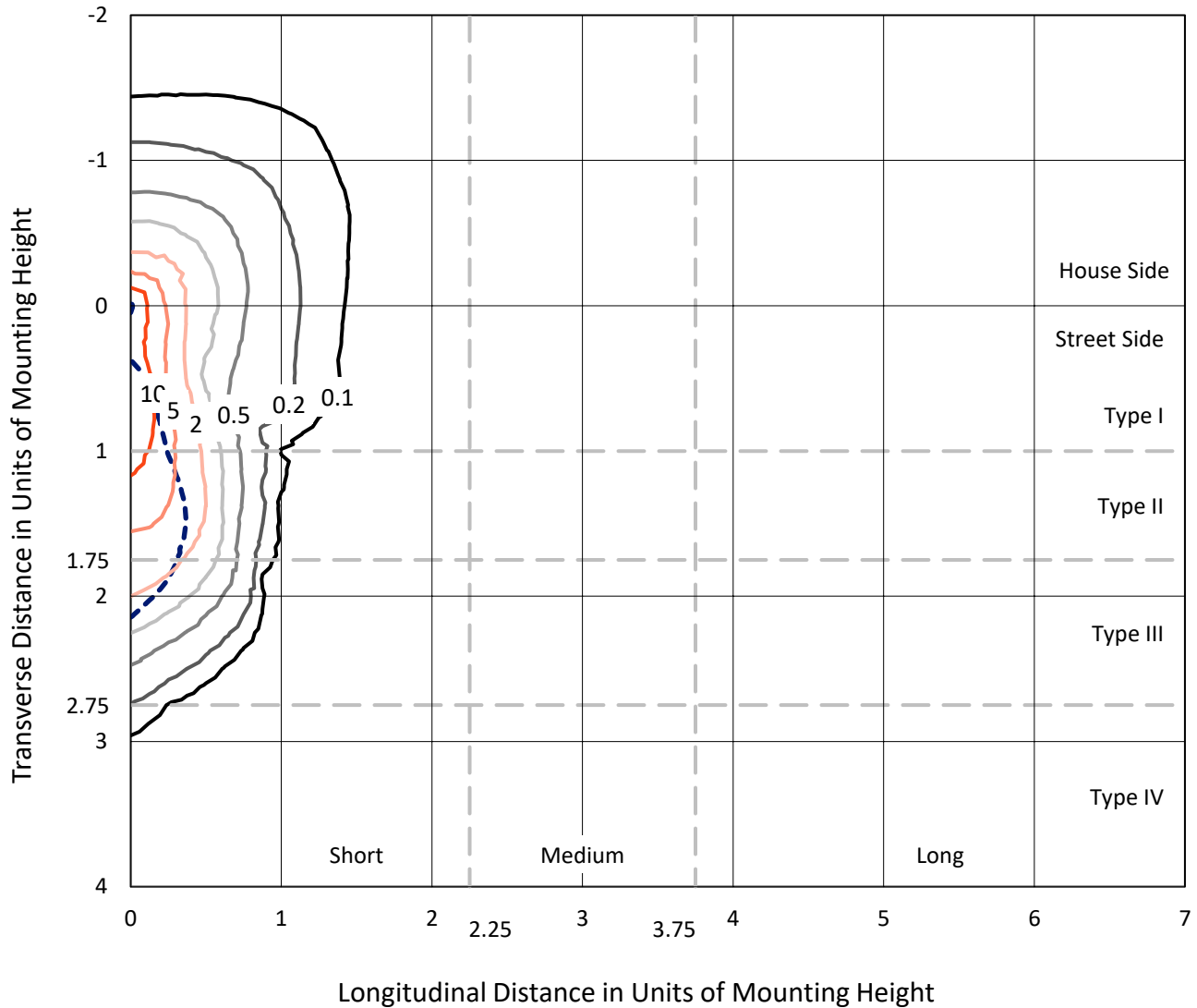
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

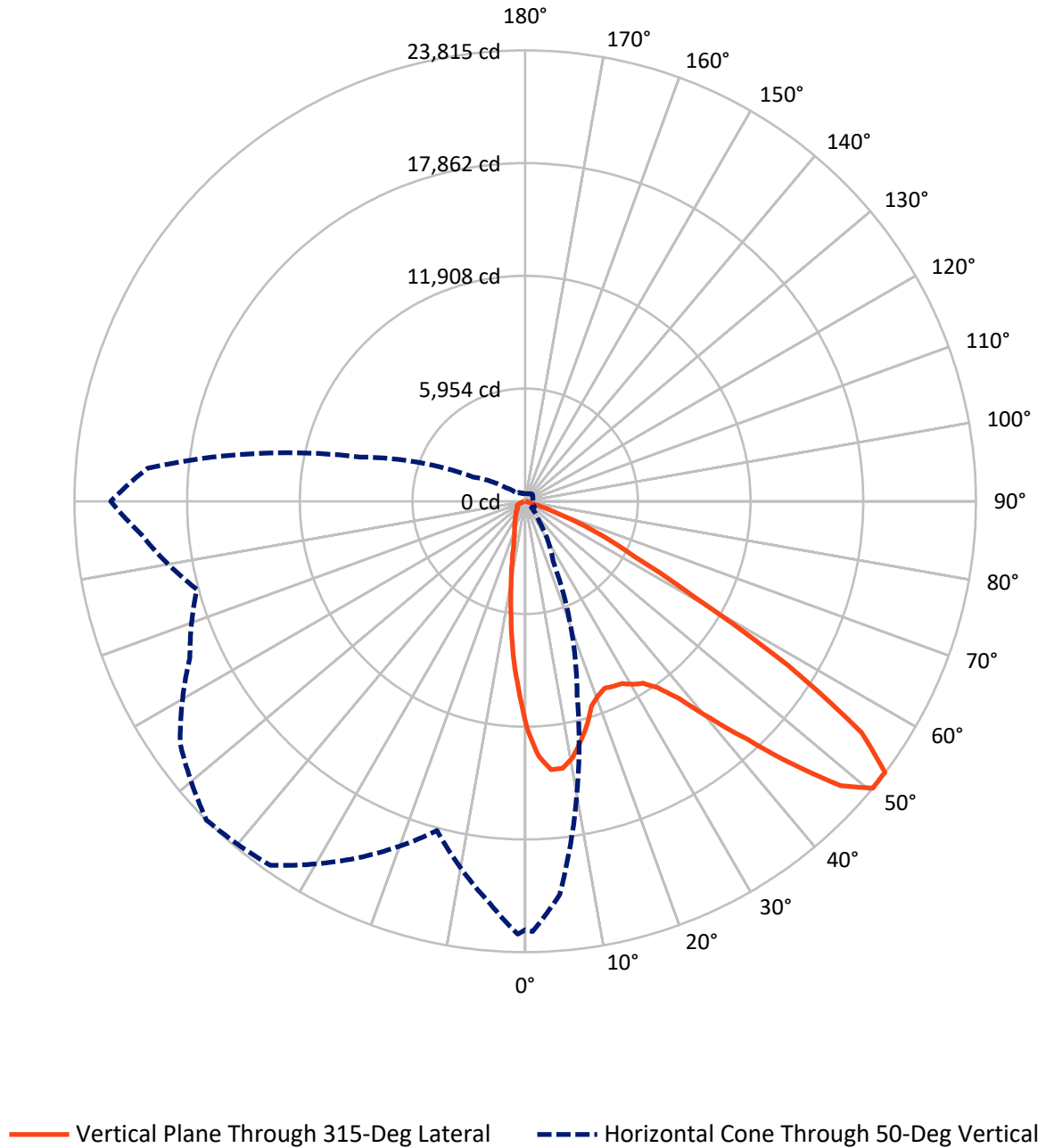
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4731.9	0.0	4731.9
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	18892.1	0.0	18892.1
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	23624.0	0.0	23624.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	873.2	3.7
10°-20°	1735.5	7.3
20°-30°	2607.3	11.0
30°-40°	3913.5	16.6
40°-50°	5500.1	23.3
50°-60°	5932.8	25.1
60°-70°	2754.6	11.7
70°-80°	259.2	1.1
80°-90°	47.8	0.2
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°	23624.0	100.0
0°-180°	23624.0	100.0

**Coefficient of Utilization**



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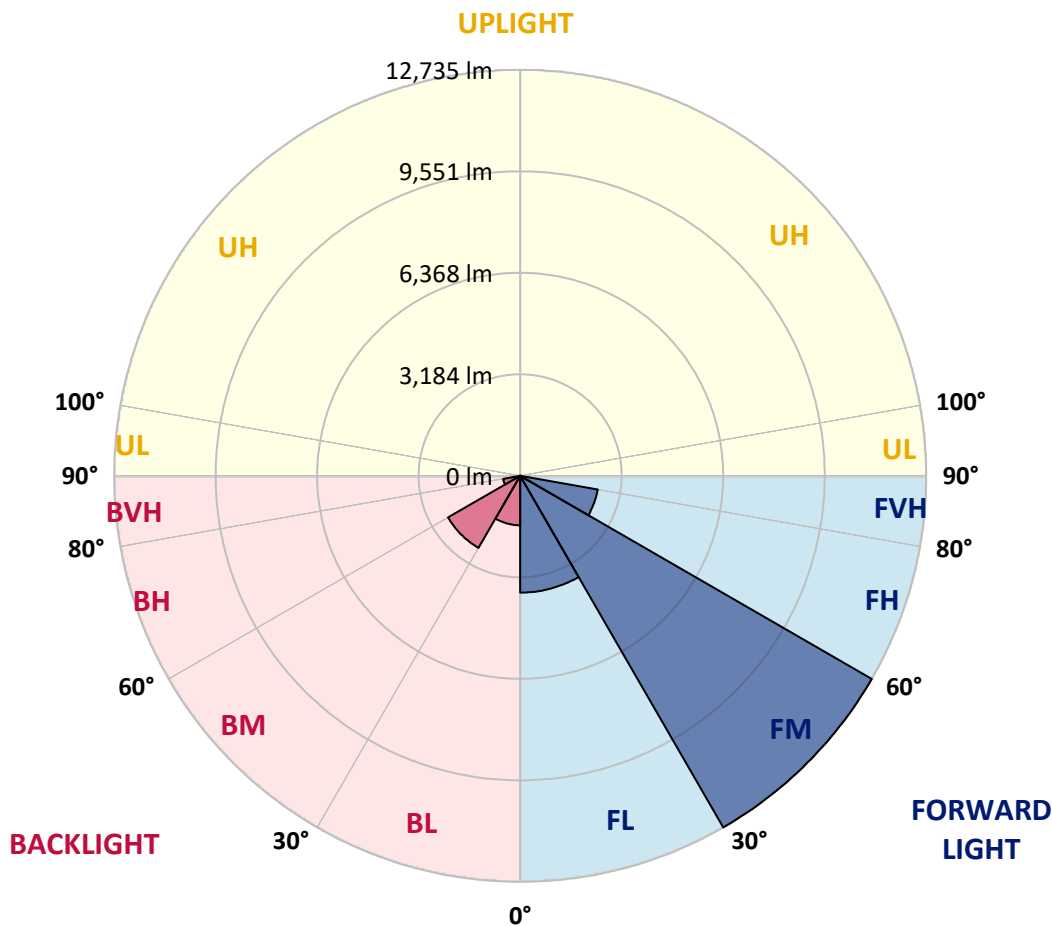
CATALOG NUMBER: GALN-SA6D-735-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3665.1	15.5			
FM (30°-60°)	12735.1	53.9			
FH (60°-80°)	2470.4	10.5			G2/5000
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	1551.0	6.6	B3/2500		
BM (30°-60°)	2611.3	11.1	B3/5000		
BH (60°-80°)	543.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	26.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3
2.5°	12453.7	12261.6	12017.8	11816.3	11516.3	10911.7	10747.6	10550.8	10386.7	10166.4	9857.1
5°	11324.1	11263.2	11150.7	10391.4	9843.0	9111.8	8511.9	8258.8	7926.0	7654.1	7457.2
7.5°	10461.7	10218.0	9861.8	9097.8	8221.3	7438.5	6772.9	6383.9	5943.3	5793.3	5526.1
10°	9538.3	9594.6	9069.6	7996.3	6937.0	6304.2	5891.7	5516.8	5118.4	4855.9	4476.2
12.5°	9243.1	9060.3	8657.2	7330.7	6426.1	5835.5	5334.0	4869.9	4448.1	4026.3	3660.7
15°	9435.2	9154.0	8591.5	7190.1	6032.4	5296.5	4668.4	4040.3	3651.3	3112.3	2732.6
17.5°	10124.2	9899.3	9144.6	7340.1	5830.8	4780.9	3848.1	3201.3	2606.1	2118.6	1926.4
20°	11272.6	10953.9	10007.1	7532.2	5530.8	4157.5	3121.6	2324.8	1762.4	1556.1	1448.3
22.5°	12397.5	12224.1	11028.9	7902.5	5263.7	3604.4	2343.6	1565.5	1317.1	1279.6	1209.3
25°	14539.5	14019.3	12589.7	8572.8	5057.4	3084.1	1767.1	1260.8	1115.5	1087.4	1096.8
27.5°	15814.4	15378.5	14033.3	9018.1	4827.8	2685.7	1495.2	1157.7	1059.3	998.4	974.9
30°	17037.8	16531.6	14750.4	9280.5	4335.6	2263.9	1326.5	1110.9	1087.4	998.4	970.2
32.5°	17979.9	17483.1	15786.3	9674.3	4134.1	1992.0	1092.1	867.1	806.2	796.8	881.2
35°	19423.5	18893.9	16672.2	9889.9	3979.4	1851.4	946.8	773.4	703.1	674.9	679.6
37.5°	20768.7	20407.8	17492.4	9974.2	3815.3	1809.2	848.4	693.7	632.8	614.0	609.3
40°	21893.7	21087.5	18270.5	10063.3	3745.0	1729.6	787.4	632.8	590.6	562.5	562.5
42.5°	22409.2	21589.0	19142.3	10011.7	3726.3	1603.0	787.4	581.2	548.4	520.3	515.6
45°	22296.8	21964.0	19531.3	9988.3	3726.3	1476.5	717.1	567.1	520.3	482.8	473.4
47.5°	22587.4	22151.5	20018.8	10086.7	3651.3	1387.4	604.6	595.3	492.2	445.3	435.9
50°	22638.9	22723.3	20867.2	10597.6	3487.2	1274.9	473.4	585.9	473.4	403.1	393.7
52°	22976.4	22451.4	21125.0	10869.5	3313.8	1190.5	398.4	501.5	454.7	375.0	365.6
52.5°	22512.4	22854.5	21185.9	10967.9	3332.6	1134.3	384.3	492.2	445.3	375.0	351.5
55°	21992.1	22320.2	20937.5	11178.8	3056.0	890.6	300.0	356.2	403.1	328.1	314.0
57.5°	19114.2	19447.0	18195.5	10236.7	2488.9	628.1	248.4	267.2	356.2	304.7	290.6
60°	16990.9	16751.9	15270.7	8540.0	1767.1	351.5	196.9	206.2	389.0	281.2	276.5
62.5°	15528.5	15017.6	12763.1	6594.8	1078.0	234.4	154.7	159.4	300.0	262.5	262.5
65°	11488.2	10916.4	8479.0	3988.8	529.6	164.1	117.2	126.6	187.5	225.0	225.0
67.5°	6557.3	6337.0	4096.6	1799.9	220.3	103.1	89.1	98.4	145.3	182.8	173.4
70°	3013.8	2704.5	1574.9	379.7	103.1	70.3	70.3	79.7	117.2	135.9	126.6
72.5°	881.2	834.3	384.3	60.9	42.2	42.2	46.9	60.9	89.1	103.1	93.7
75°	65.6	42.2	28.1	18.7	18.7	28.1	37.5	60.9	89.1	98.4	79.7
77.5°	4.7	9.4	4.7	4.7	14.1	28.1	42.2	75.0	117.2	121.9	89.1
80°	4.7	4.7	0.0	4.7	14.1	28.1	46.9	84.4	131.2	140.6	75.0
82.5°	0.0	0.0	0.0	4.7	18.7	37.5	56.2	89.1	121.9	150.0	79.7
85°	0.0	0.0	0.0	4.7	28.1	51.6	65.6	23.4	14.1	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°	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3
2.5°	10077.4	9955.5	9908.6	9950.8	9936.8	9922.7	10180.5	10124.2	10114.9	10199.2	10180.5
5°	7565.1	7349.4	7940.0	7701.0	7949.4	8099.4	8127.5	8141.6	8315.0	8132.2	8371.2
7.5°	5390.2	5446.5	5441.8	5601.1	5887.1	6140.2	6290.2	6173.0	6163.6	6140.2	6037.0
10°	4307.5	4209.1	4190.3	4152.8	4241.9	4457.5	4640.3	4495.0	4391.9	4532.5	4490.3
12.5°	3520.0	3384.1	3309.1	3159.1	3163.8	3309.1	3309.1	3309.1	3412.2	3491.9	3552.9
15°	2699.8	2587.3	2587.3	2437.3	2404.5	2409.2	2484.2	2493.6	2657.6	2704.5	2727.9
17.5°	1888.9	1828.0	1898.3	1959.2	1921.7	1931.1	1959.2	1968.6	1992.0	1973.3	2020.2
20°	1453.0	1443.6	1462.4	1570.2	1649.9	1696.7	1663.9	1617.1	1588.9	1523.3	1523.3
22.5°	1232.7	1251.5	1284.3	1373.3	1476.5	1504.6	1467.1	1359.3	1274.9	1265.5	1270.2
25°	1096.8	1115.5	1167.1	1223.3	1279.6	1326.5	1289.0	1209.3	1162.4	1120.2	1120.2
27.5°	1012.4	1021.8	1049.9	1092.1	1139.0	1176.5	1162.4	1120.2	1068.7	1049.9	1007.7
30°	946.8	960.9	993.7	1003.0	1045.2	1064.0	1040.5	1031.2	998.4	974.9	960.9
32.5°	914.0	909.3	932.7	942.1	946.8	960.9	932.7	946.8	942.1	904.6	890.6
35°	689.0	726.5	787.4	839.0	853.1	871.8	867.1	848.4	796.8	754.6	703.1
37.5°	618.7	642.1	674.9	717.1	773.4	796.8	787.4	740.6	679.6	651.5	642.1
40°	571.8	585.9	614.0	642.1	698.4	740.6	707.8	665.6	618.7	595.3	581.2
42.5°	529.6	534.3	548.4	576.5	618.7	684.3	628.1	571.8	553.1	539.0	529.6
45°	482.8	482.8	501.5	515.6	562.5	623.4	567.1	515.6	506.2	496.8	492.2
47.5°	445.3	450.0	459.3	478.1	515.6	557.8	520.3	478.1	454.7	450.0	440.6
50°	398.4	403.1	421.8	440.6	487.5	510.9	487.5	440.6	417.2	403.1	403.1
52°	360.9	375.0	393.7	431.2	464.0	501.5	473.4	421.8	393.7	379.7	370.3
52.5°	356.2	365.6	384.3	426.5	464.0	496.8	468.7	417.2	384.3	375.0	365.6
55°	318.7	332.8	365.6	417.2	459.3	496.8	459.3	412.5	365.6	342.2	332.8
57.5°	304.7	314.0	356.2	421.8	454.7	496.8	459.3	412.5	365.6	323.4	314.0
60°	290.6	309.4	356.2	407.8	450.0	501.5	464.0	407.8	356.2	304.7	304.7
62.5°	276.5	290.6	351.5	398.4	431.2	482.8	445.3	398.4	342.2	290.6	285.9
65°	239.0	262.5	309.4	332.8	370.3	417.2	379.7	346.8	300.0	257.8	253.1
67.5°	182.8	192.2	229.7	257.8	281.2	323.4	304.7	262.5	229.7	196.9	196.9
70°	126.6	135.9	164.1	178.1	201.5	225.0	210.9	178.1	154.7	135.9	131.2
72.5°	89.1	93.7	103.1	112.5	121.9	131.2	126.6	103.1	89.1	84.4	79.7
75°	70.3	79.7	84.4	79.7	75.0	70.3	70.3	60.9	51.6	46.9	46.9
77.5°	70.3	75.0	70.3	60.9	51.6	46.9	42.2	37.5	28.1	23.4	28.1
80°	60.9	60.9	60.9	51.6	46.9	42.2	37.5	32.8	28.1	23.4	23.4
82.5°	65.6	65.6	60.9	51.6	51.6	42.2	42.2	37.5	32.8	23.4	23.4
85°	0.0	0.0	0.0	9.4	23.4	42.2	42.2	37.5	32.8	28.1	28.1
87.5°	0.0	0.0	0.0	0.0	4.7	9.4	18.7	23.4	28.1	28.1	28.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3
2.5°	10349.2	10527.3	10864.8	11202.3	11408.5	11652.2	12092.8	12327.2	12631.9	12781.8	13077.1
5°	8338.4	8760.3	8910.3	9294.6	9707.1	10119.5	10775.7	11497.6	12097.5	12510.0	13044.3
7.5°	6083.9	6182.3	6763.6	7021.3	7696.3	8446.2	9341.5	10250.8	11010.1	11685.1	12092.8
10°	4560.6	4921.5	5287.1	5779.3	6323.0	7096.3	7954.1	8957.1	9941.4	10616.4	11132.0
12.5°	3665.3	3951.3	4438.7	4968.4	5638.6	6149.5	7012.0	8005.6	9280.5	9941.4	10621.1
15°	2774.8	3140.4	3693.5	4241.9	4949.6	5488.6	6360.5	7611.9	9252.4	10161.7	10747.6
17.5°	2057.7	2306.1	2802.9	3416.9	4138.8	4898.1	6074.5	7569.7	9566.5	10649.2	11253.8
20°	1574.9	1659.2	1973.3	2521.7	3304.4	4298.1	5610.5	7752.5	10494.5	11835.0	12449.1
22.5°	1274.9	1312.4	1434.3	1813.9	2573.2	3773.2	5390.2	7879.1	11539.8	13255.2	14075.5
25°	1110.9	1101.5	1181.2	1345.2	2010.8	3281.0	5109.0	8357.2	12819.3	14923.9	15659.8
27.5°	1012.4	1012.4	1049.9	1167.1	1668.6	2962.3	4930.9	8699.3	14108.3	16391.0	16789.4
30°	960.9	970.2	1078.0	1115.5	1387.4	2582.6	4635.6	9046.2	15341.0	17328.4	17876.8
32.5°	890.6	853.1	829.6	923.4	1167.1	2240.5	4340.3	9191.5	16339.4	18476.7	18945.4
35°	684.3	665.6	693.7	764.0	1003.0	1949.9	4012.2	9355.5	17487.7	19807.9	19901.6
37.5°	618.7	614.0	632.8	693.7	843.7	1696.7	3777.8	9313.4	18364.2	20909.4	20656.3
40°	571.8	571.8	585.9	637.5	754.6	1518.6	3534.1	9275.9	19212.6	22146.8	21406.2
42.5°	534.3	534.3	557.8	590.6	717.1	1401.5	3351.3	9224.3	19925.1	22906.1	21846.8
45°	482.8	496.8	534.3	567.1	726.5	1321.8	3215.4	9027.4	20168.8	22896.7	21635.9
47.5°	445.3	464.0	501.5	548.4	656.2	1298.3	3121.6	8854.0	20084.4	22334.3	20975.0
50°	403.1	426.5	478.1	557.8	557.8	1251.5	3023.2	9008.7	20023.5	21898.3	20342.2
52°	375.0	393.7	459.3	543.7	487.5	1153.0	2962.3	9308.7	20271.9	21842.1	20061.0
52.5°	370.3	384.3	445.3	534.3	464.0	1134.3	2920.1	9379.0	20351.6	21701.5	20253.2
55°	328.1	346.8	407.8	417.2	379.7	932.7	2784.2	9538.3	19957.9	21424.9	20070.4
57.5°	309.4	318.7	360.9	342.2	328.1	703.1	2395.1	9289.9	17726.8	19029.8	18673.6
60°	285.9	295.3	337.5	267.2	276.5	492.2	1799.9	8066.6	14234.9	15856.6	16498.8
62.5°	276.5	271.9	318.7	215.6	234.4	356.2	1270.2	6557.3	10967.9	13053.7	14164.6
65°	243.7	239.0	229.7	182.8	201.5	276.5	759.3	4279.4	7729.1	9875.8	10485.1
67.5°	187.5	196.9	168.7	145.3	168.7	215.6	421.8	1917.0	4054.4	5924.6	6416.7
70°	131.2	140.6	135.9	126.6	150.0	178.1	243.7	656.2	1678.0	3112.3	3431.0
72.5°	79.7	98.4	103.1	107.8	131.2	154.7	173.4	210.9	445.3	1101.5	1368.6
75°	46.9	65.6	79.7	93.7	107.8	131.2	145.3	150.0	154.7	206.2	332.8
77.5°	32.8	46.9	70.3	89.1	107.8	131.2	154.7	164.1	154.7	145.3	154.7
80°	28.1	46.9	65.6	84.4	112.5	135.9	154.7	154.7	150.0	131.2	140.6
82.5°	28.1	46.9	70.3	89.1	107.8	131.2	150.0	154.7	140.6	131.2	135.9
85°	32.8	51.6	75.0	93.7	117.2	107.8	98.4	79.7	75.0	60.9	65.6
87.5°	32.8	46.9	46.9	51.6	56.2	56.2	56.2	51.6	42.2	37.5	37.5
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°	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3	11980.3
2.5°	13091.2	13466.2	13452.1	13461.5	13405.2	13025.6	12842.8	12378.8	12510.0	12453.7
5°	13592.7	13963.0	14281.7	14244.2	13813.0	13297.4	12533.4	11811.6	11614.7	11324.1
7.5°	13091.2	13981.8	14277.0	14234.9	13597.4	12936.5	11717.9	10996.0	10653.9	10461.7
10°	12294.4	13325.6	13691.2	13766.1	13334.9	12331.9	11211.7	10053.9	9871.1	9538.3
12.5°	11839.7	12589.7	12814.7	13016.2	12866.2	12116.3	10827.3	9716.5	9463.3	9243.1
15°	11469.4	11914.7	12008.5	12238.1	12327.2	11924.1	11028.9	10082.1	9458.7	9435.2
17.5°	11811.6	11628.8	11286.6	11357.0	11638.2	11928.8	11549.1	10803.9	10199.2	10124.2
20°	12378.8	11572.6	10799.2	10972.6	11207.0	12097.5	12336.6	11811.6	11464.8	11272.6
22.5°	13030.3	11671.0	10644.5	10728.9	11174.2	12477.2	13611.5	13320.9	12674.0	12397.5
25°	14234.9	11942.8	10766.4	10822.6	11431.9	13006.8	14764.5	14980.1	14595.8	14539.5
27.5°	15411.3	12645.9	11033.5	10907.0	11563.2	13522.4	15462.9	16620.6	15945.7	15814.4
30°	16011.3	13217.8	11431.9	11216.3	12106.9	13836.5	15884.7	17689.3	17098.7	17037.8
32.5°	16930.0	13738.0	11741.3	11464.8	12411.6	14225.5	16672.2	18856.4	18284.6	17979.9
35°	17314.3	14305.2	12420.9	12097.5	13283.4	14769.2	17075.3	19896.9	19718.8	19423.5
37.5°	18054.9	14914.5	13222.4	13203.7	14338.0	15477.0	17801.8	21312.5	21279.6	20768.7
40°	18115.8	15580.1	14488.0	15078.5	15969.1	16709.7	18439.2	21706.2	22240.5	21893.7
42.5°	18209.6	16747.2	16676.9	17164.3	17928.3	17769.0	18462.7	21799.9	22615.5	22409.2
45°	18251.7	17914.3	18903.3	19803.2	20121.9	19156.4	18242.4	21621.8	22812.3	22296.8
47.5°	17914.3	18917.3	20703.1	22442.1	22535.8	20009.4	18148.6	21439.0	22929.5	22587.4
50°	17961.1	19545.4	22259.3	23815.4	23473.2	20764.1	18003.3	21326.5	22868.6	22638.9
52°	17848.7	19559.5	22479.6	23787.3	23548.2	20346.9	17754.9	20895.3	22812.3	22976.4
52.5°	17975.2	19475.1	22249.9	23806.0	23496.7	20553.1	17722.1	21134.3	22845.2	22512.4
55°	17539.3	18472.0	20904.7	21565.6	21518.7	18654.8	16714.4	20342.2	21987.4	21992.1
57.5°	15851.9	16011.3	16395.6	16381.6	16166.0	14666.1	14295.8	18706.4	19601.6	19114.2
60°	13967.7	11722.6	10686.7	10264.9	10025.8	9782.1	12645.9	17112.8	17197.1	16990.9
62.5°	12069.4	8127.5	6749.5	6632.3	6688.6	7579.1	12224.1	16480.0	15973.8	15528.5
65°	9739.9	5924.6	4902.8	4748.1	5296.5	6257.3	9894.6	12636.5	11858.5	11488.2
67.5°	6116.7	4321.5	3313.8	3023.2	3684.1	4307.5	6501.1	7940.0	7068.2	6557.3
70°	3627.9	2413.9	1499.9	1345.2	1513.9	2296.7	3641.9	3960.6	3276.3	3013.8
72.5°	1429.6	885.9	417.2	356.2	370.3	806.2	1340.5	1307.7	989.0	881.2
75°	384.3	267.2	145.3	117.2	98.4	150.0	215.6	140.6	51.6	65.6
77.5°	178.1	159.4	126.6	98.4	75.0	56.2	28.1	9.4	9.4	4.7
80°	154.7	135.9	117.2	98.4	75.0	46.9	23.4	4.7	4.7	4.7
82.5°	145.3	126.6	107.8	89.1	70.3	46.9	23.4	4.7	0.0	0.0
85°	60.9	79.7	89.1	84.4	75.0	46.9	23.4	4.7	0.0	0.0
87.5°	32.8	28.1	23.4	18.7	14.1	9.4	9.4	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

(END OF REPORT)