

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: P531461

Luminaire Tested: **GALN-SA6D-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531461  
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-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 23096 lumens  
Efficiency: N/A  
Efficacy: 62.8 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

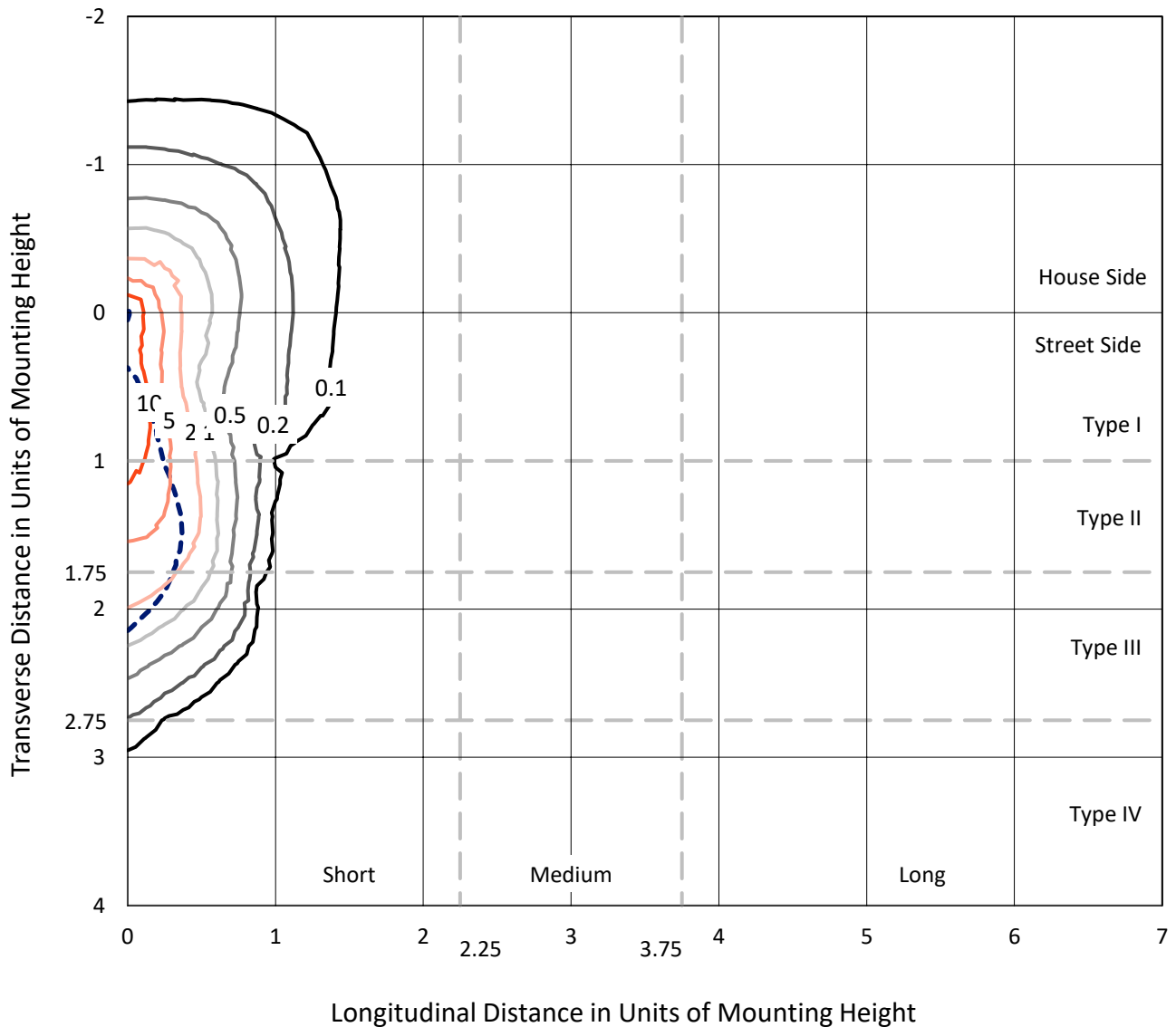




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### Iso-Footcandle Lines of Horizontal Illumination

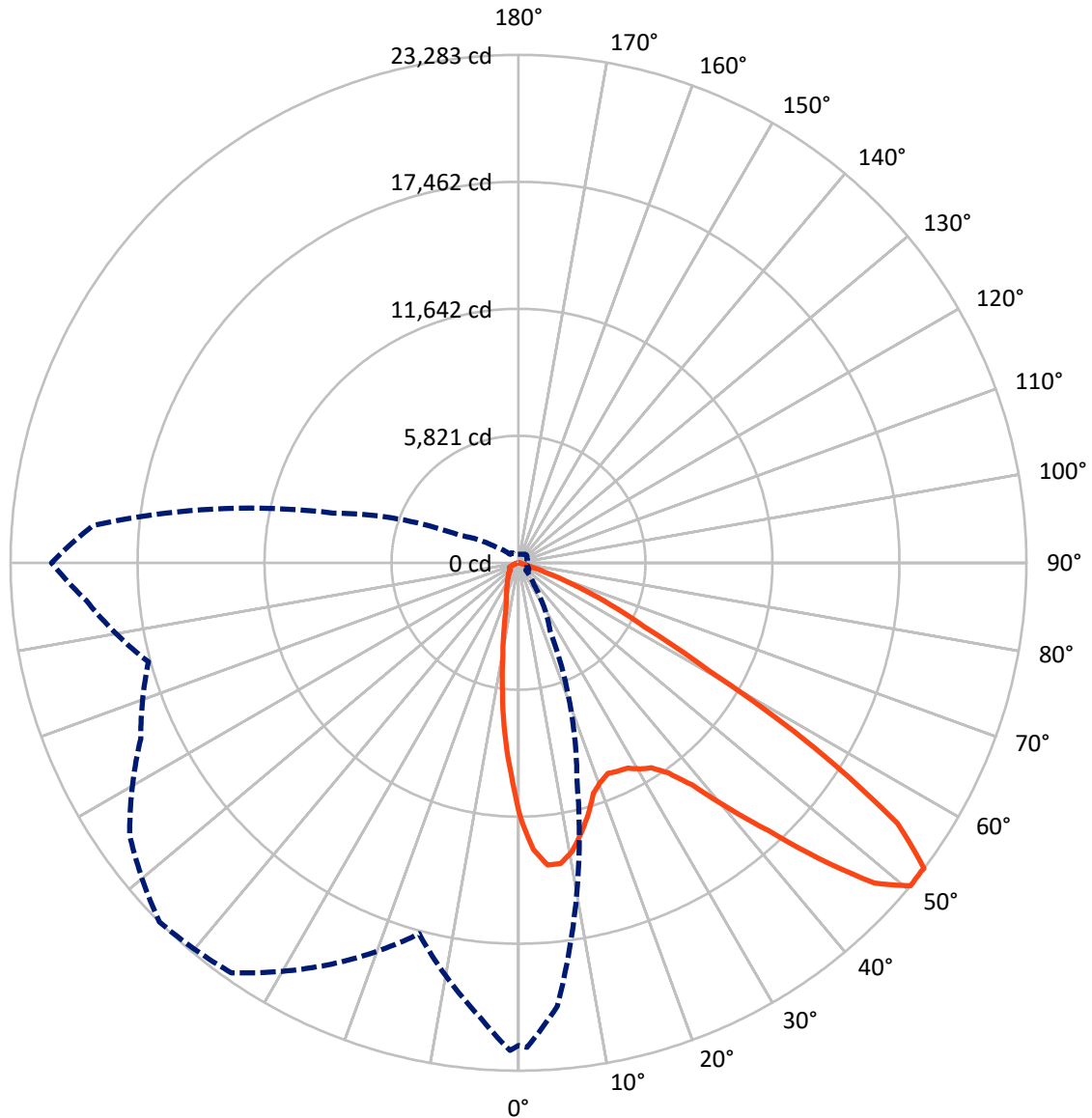
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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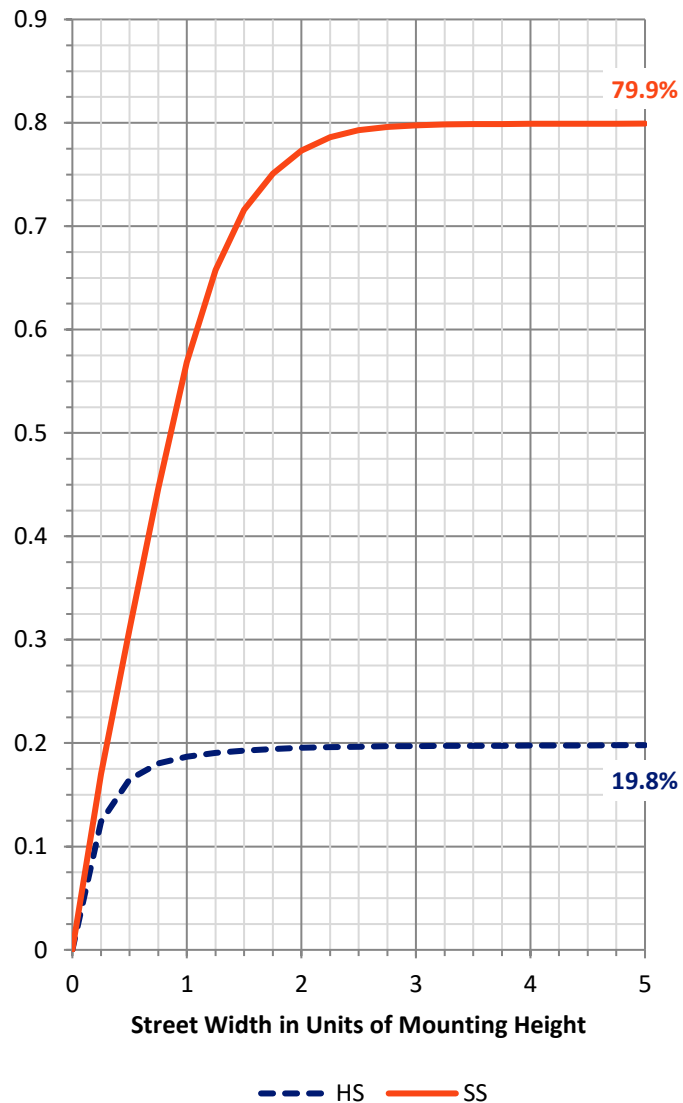
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4626.1	0.0	4626.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	18469.9	0.0	18469.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	23096.0	0.0	23096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.7	3.7
10°-20°	1696.7	7.3
20°-30°	2549.0	11.0
30°-40°	3826.0	16.6
40°-50°	5377.2	23.3
50°-60°	5800.2	25.1
60°-70°	2693.0	11.7
70°-80°	253.4	1.1
80°-90°	46.7	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°	23096.0	100.0
0°-180°	23096.0	100.0

**Coefficient of Utilization**



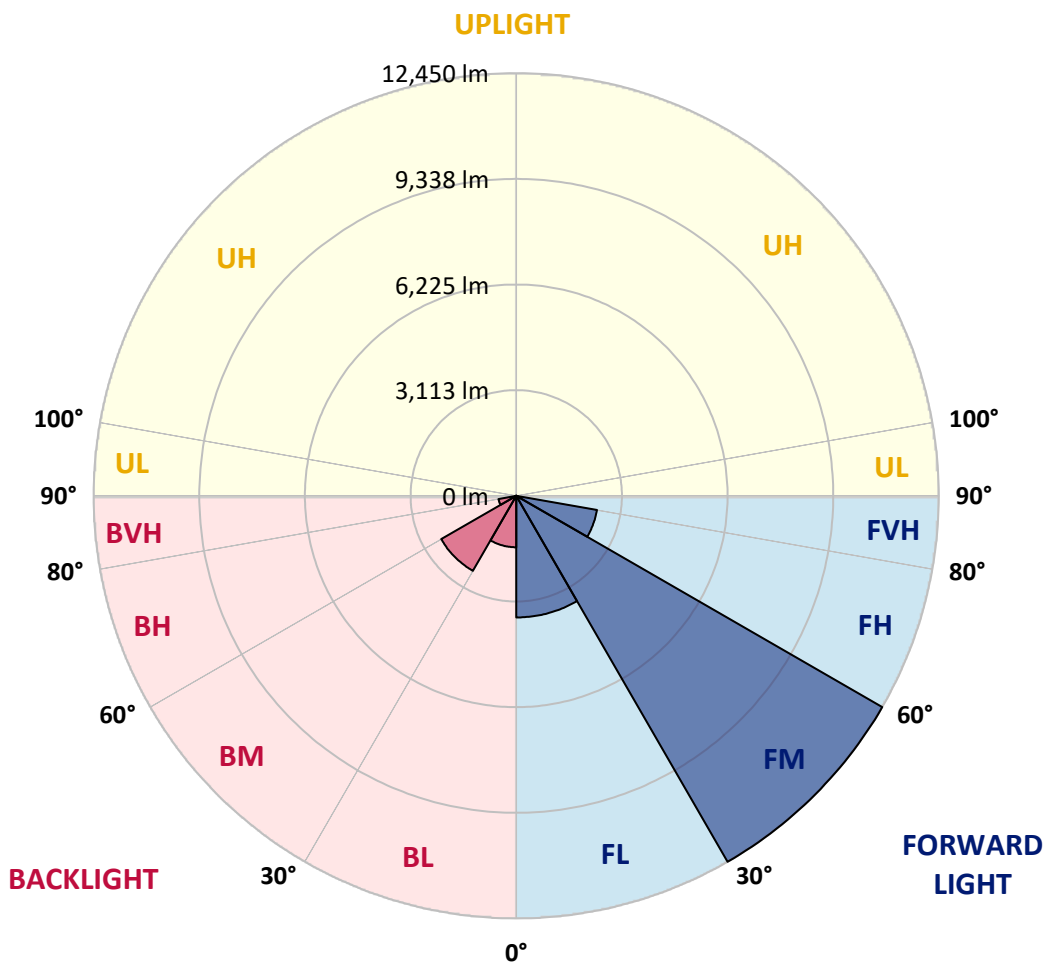
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.1	15.5			
FM (30°-60°)	12450.5	53.9			
FH (60°-80°)	2415.2	10.5			G2/5000
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1516.3	6.6	B3/2500		
BM (30°-60°)	2552.9	11.1	B3/5000		
BH (60°-80°)	531.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	25.7	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°	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6
2.5°	12175.4	11987.5	11749.2	11552.2	11258.9	10667.8	10507.4	10315.0	10154.6	9939.2	9636.8
5°	11071.0	11011.5	10901.5	10159.2	9623.0	8908.2	8321.6	8074.2	7748.8	7483.0	7290.6
7.5°	10227.9	9989.6	9641.3	8894.4	8037.5	7272.2	6621.6	6241.2	5810.5	5663.8	5402.6
10°	9325.2	9380.1	8866.9	7817.6	6781.9	6163.3	5760.1	5393.5	5004.0	4747.4	4376.2
12.5°	9036.5	8857.8	8463.7	7166.9	6282.5	5705.1	5214.8	4761.1	4348.7	3936.3	3578.8
15°	9224.3	8949.4	8399.5	7029.4	5897.5	5178.1	4564.1	3950.0	3569.7	3042.7	2671.5
17.5°	9898.0	9678.0	8940.2	7176.0	5700.5	4674.0	3762.1	3129.8	2547.8	2071.2	1883.4
20°	11020.6	10709.0	9783.4	7363.9	5407.2	4064.6	3051.9	2272.9	1723.0	1521.4	1416.0
22.5°	12120.4	11950.9	10782.4	7725.9	5146.0	3523.9	2291.2	1530.5	1287.7	1251.0	1182.3
25°	14214.6	13705.9	12308.3	8381.2	4944.4	3015.2	1727.6	1232.7	1090.6	1063.1	1072.3
27.5°	15461.0	15034.8	13719.7	8816.5	4719.9	2625.7	1461.8	1131.8	1035.6	976.0	953.1
30°	16657.0	16162.1	14420.8	9073.1	4238.7	2213.3	1296.8	1086.0	1063.1	976.0	948.6
32.5°	17578.0	17092.3	15433.5	9458.0	4041.7	1947.5	1067.7	847.7	788.2	779.0	861.5
35°	18989.4	18471.6	16299.6	9668.8	3890.4	1810.0	925.6	756.1	687.4	659.9	664.4
37.5°	20304.6	19951.7	17101.5	9751.3	3730.1	1768.8	829.4	678.2	618.6	600.3	595.7
40°	21404.3	20616.2	17862.1	9838.4	3661.3	1690.9	769.8	618.6	577.4	549.9	549.9
42.5°	21908.4	21106.5	18714.5	9788.0	3643.0	1567.2	769.8	568.2	536.1	508.6	504.1
45°	21798.4	21473.1	19094.8	9765.1	3643.0	1443.5	701.1	554.5	508.6	472.0	462.8
47.5°	22082.5	21656.4	19571.4	9861.3	3569.7	1356.4	591.1	582.0	481.2	435.3	426.2
50°	22132.9	22215.4	20400.8	10360.8	3409.3	1246.4	462.8	572.8	462.8	394.1	384.9
52°	22462.9	21949.6	20652.8	10626.6	3239.7	1163.9	389.5	490.3	444.5	366.6	357.4
52.5°	22009.2	22343.7	20712.4	10722.8	3258.1	1108.9	375.8	481.2	435.3	366.6	343.7
55°	21500.6	21821.3	20469.5	10929.0	2987.7	870.7	293.3	348.3	394.1	320.8	307.0
57.5°	18687.0	19012.3	17788.8	10007.9	2433.2	614.0	242.9	261.2	348.3	297.9	284.1
60°	16611.2	16377.5	14929.4	8349.1	1727.6	343.7	192.5	201.6	380.3	274.9	270.4
62.5°	15181.5	14682.0	12477.8	6447.4	1053.9	229.1	151.2	155.8	293.3	256.6	256.6
65°	11231.4	10672.4	8289.5	3899.6	517.8	160.4	114.6	123.7	183.3	220.0	220.0
67.5°	6410.8	6195.4	4005.0	1759.6	215.4	100.8	87.1	96.2	142.1	178.7	169.5
70°	2946.5	2644.0	1539.7	371.2	100.8	68.7	68.7	77.9	114.6	132.9	123.7
72.5°	861.5	815.7	375.8	59.6	41.2	41.2	45.8	59.6	87.1	100.8	91.6
75°	64.2	41.2	27.5	18.3	18.3	27.5	36.7	59.6	87.1	96.2	77.9
77.5°	4.6	9.2	4.6	4.6	13.7	27.5	41.2	73.3	114.6	119.1	87.1
80°	4.6	4.6	0.0	4.6	13.7	27.5	45.8	82.5	128.3	137.5	73.3
82.5°	0.0	0.0	0.0	4.6	18.3	36.7	55.0	87.1	119.1	146.6	77.9
85°	0.0	0.0	0.0	4.6	27.5	50.4	64.2	22.9	13.7	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°	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6
2.5°	9852.1	9733.0	9687.2	9728.4	9714.7	9700.9	9952.9	9898.0	9888.8	9971.3	9952.9
5°	7396.0	7185.2	7762.6	7528.9	7771.7	7918.4	7945.9	7959.6	8129.2	7950.4	8184.1
7.5°	5269.7	5324.7	5320.2	5476.0	5755.5	6002.9	6149.6	6035.0	6025.8	6002.9	5902.1
10°	4211.2	4115.0	4096.7	4060.0	4147.1	4357.9	4536.6	4394.5	4293.7	4431.2	4389.9
12.5°	3441.4	3308.5	3235.2	3088.5	3093.1	3235.2	3235.2	3235.2	3336.0	3413.9	3473.4
15°	2639.5	2529.5	2529.5	2382.8	2350.8	2355.3	2428.7	2437.8	2598.2	2644.0	2666.9
17.5°	1846.7	1787.1	1855.9	1915.4	1878.8	1887.9	1915.4	1924.6	1947.5	1929.2	1975.0
20°	1420.5	1411.4	1429.7	1535.1	1613.0	1658.8	1626.7	1580.9	1553.4	1489.3	1489.3
22.5°	1205.2	1223.5	1255.6	1342.6	1443.5	1470.9	1434.3	1328.9	1246.4	1237.2	1241.8
25°	1072.3	1090.6	1141.0	1196.0	1251.0	1296.8	1260.2	1182.3	1136.4	1095.2	1095.2
27.5°	989.8	999.0	1026.5	1067.7	1113.5	1150.2	1136.4	1095.2	1044.8	1026.5	985.2
30°	925.6	939.4	971.5	980.6	1021.9	1040.2	1017.3	1008.1	976.0	953.1	939.4
32.5°	893.6	889.0	911.9	921.1	925.6	939.4	911.9	925.6	921.1	884.4	870.7
35°	673.6	710.3	769.8	820.2	834.0	852.3	847.7	829.4	779.0	737.8	687.4
37.5°	604.9	627.8	659.9	701.1	756.1	779.0	769.8	724.0	664.4	637.0	627.8
40°	559.1	572.8	600.3	627.8	682.8	724.0	691.9	650.7	604.9	582.0	568.2
42.5°	517.8	522.4	536.1	563.6	604.9	669.0	614.0	559.1	540.7	527.0	517.8
45°	472.0	472.0	490.3	504.1	549.9	609.5	554.5	504.1	494.9	485.7	481.2
47.5°	435.3	439.9	449.1	467.4	504.1	545.3	508.6	467.4	444.5	439.9	430.7
50°	389.5	394.1	412.4	430.7	476.6	499.5	476.6	430.7	407.8	394.1	394.1
52°	352.8	366.6	384.9	421.6	453.7	490.3	462.8	412.4	384.9	371.2	362.0
52.5°	348.3	357.4	375.8	417.0	453.7	485.7	458.2	407.8	375.8	366.6	357.4
55°	311.6	325.3	357.4	407.8	449.1	485.7	449.1	403.3	357.4	334.5	325.3
57.5°	297.9	307.0	348.3	412.4	444.5	485.7	449.1	403.3	357.4	316.2	307.0
60°	284.1	302.4	348.3	398.7	439.9	490.3	453.7	398.7	348.3	297.9	297.9
62.5°	270.4	284.1	343.7	389.5	421.6	472.0	435.3	389.5	334.5	284.1	279.5
65°	233.7	256.6	302.4	325.3	362.0	407.8	371.2	339.1	293.3	252.0	247.4
67.5°	178.7	187.9	224.5	252.0	274.9	316.2	297.9	256.6	224.5	192.5	192.5
70°	123.7	132.9	160.4	174.1	197.0	220.0	206.2	174.1	151.2	132.9	128.3
72.5°	87.1	91.6	100.8	110.0	119.1	128.3	123.7	100.8	87.1	82.5	77.9
75°	68.7	77.9	82.5	77.9	73.3	68.7	68.7	59.6	50.4	45.8	45.8
77.5°	68.7	73.3	68.7	59.6	50.4	45.8	41.2	36.7	27.5	22.9	27.5
80°	59.6	59.6	59.6	50.4	45.8	41.2	36.7	32.1	27.5	22.9	22.9
82.5°	64.2	64.2	59.6	50.4	50.4	41.2	41.2	36.7	32.1	22.9	22.9
85°	0.0	0.0	0.0	9.2	22.9	41.2	41.2	36.7	32.1	27.5	27.5
87.5°	0.0	0.0	0.0	0.0	4.6	9.2	18.3	22.9	27.5	27.5	27.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6
2.5°	10117.9	10292.0	10622.0	10951.9	11153.5	11391.8	11822.6	12051.7	12349.5	12496.2	12784.9
5°	8152.1	8564.5	8711.1	9086.9	9490.1	9893.4	10534.9	11240.6	11827.1	12230.4	12752.8
7.5°	5947.9	6044.2	6612.4	6864.4	7524.3	8257.5	9132.7	10021.7	10764.0	11423.9	11822.6
10°	4458.7	4811.5	5168.9	5650.1	6181.6	6937.7	7776.3	8756.9	9719.2	10379.1	10883.2
12.5°	3583.4	3863.0	4339.5	4857.3	5512.6	6012.1	6855.3	7826.7	9073.1	9719.2	10383.7
15°	2712.8	3070.2	3610.9	4147.1	4839.0	5366.0	6218.3	7441.8	9045.6	9934.6	10507.4
17.5°	2011.7	2254.5	2740.3	3340.6	4046.2	4788.6	5938.8	7400.6	9352.7	10411.2	11002.3
20°	1539.7	1622.2	1929.2	2465.3	3230.6	4202.0	5485.1	7579.3	10260.0	11570.5	12170.8
22.5°	1246.4	1283.1	1402.2	1773.4	2515.7	3688.8	5269.7	7703.0	11281.8	12959.0	13760.9
25°	1086.0	1076.9	1154.8	1315.1	1965.8	3207.7	4994.8	8170.4	12532.8	14590.3	15309.8
27.5°	989.8	989.8	1026.5	1141.0	1631.3	2896.1	4820.7	8504.9	13793.0	16024.6	16414.1
30°	939.4	948.6	1053.9	1090.6	1356.4	2524.9	4532.0	8844.0	14998.2	16941.1	17477.2
32.5°	870.7	834.0	811.1	902.7	1141.0	2190.4	4243.3	8986.1	15974.2	18063.8	18522.0
35°	669.0	650.7	678.2	746.9	980.6	1906.3	3922.5	9146.4	17096.9	19365.2	19456.8
37.5°	604.9	600.3	618.6	678.2	824.8	1658.8	3693.4	9105.2	17953.8	20442.0	20194.6
40°	559.1	559.1	572.8	623.2	737.8	1484.7	3455.1	9068.5	18783.2	21651.8	20927.8
42.5°	522.4	522.4	545.3	577.4	701.1	1370.1	3276.4	9018.1	19479.7	22394.1	21358.5
45°	472.0	485.7	522.4	554.5	710.3	1292.2	3143.5	8825.7	19718.0	22385.0	21152.3
47.5°	435.3	453.7	490.3	536.1	641.5	1269.3	3051.9	8656.1	19635.5	21835.1	20506.2
50°	394.1	417.0	467.4	545.3	545.3	1223.5	2955.6	8807.3	19576.0	21408.9	19887.6
52°	366.6	384.9	449.1	531.6	476.6	1127.3	2896.1	9100.6	19818.8	21353.9	19612.6
52.5°	362.0	375.8	435.3	522.4	453.7	1108.9	2854.8	9169.4	19896.7	21216.5	19800.5
55°	320.8	339.1	398.7	407.8	371.2	911.9	2721.9	9325.2	19511.8	20946.1	19621.8
57.5°	302.4	311.6	352.8	334.5	320.8	687.4	2341.6	9082.3	17330.6	18604.5	18256.2
60°	279.5	288.7	329.9	261.2	270.4	481.2	1759.6	7886.3	13916.7	15502.2	16130.0
62.5°	270.4	265.8	311.6	210.8	229.1	348.3	1241.8	6410.8	10722.8	12762.0	13848.0
65°	238.3	233.7	224.5	178.7	197.0	270.4	742.3	4183.7	7556.4	9655.1	10250.8
67.5°	183.3	192.5	165.0	142.1	165.0	210.8	412.4	1874.2	3963.8	5792.1	6273.3
70°	128.3	137.5	132.9	123.7	146.6	174.1	238.3	641.5	1640.5	3042.7	3354.3
72.5°	77.9	96.2	100.8	105.4	128.3	151.2	169.5	206.2	435.3	1076.9	1338.1
75°	45.8	64.2	77.9	91.6	105.4	128.3	142.1	146.6	151.2	201.6	325.3
77.5°	32.1	45.8	68.7	87.1	105.4	128.3	151.2	160.4	151.2	142.1	151.2
80°	27.5	45.8	64.2	82.5	110.0	132.9	151.2	151.2	146.6	128.3	137.5
82.5°	27.5	45.8	68.7	87.1	105.4	128.3	146.6	151.2	137.5	128.3	132.9
85°	32.1	50.4	73.3	91.6	114.6	105.4	96.2	77.9	73.3	59.6	64.2
87.5°	32.1	45.8	45.8	50.4	55.0	55.0	55.0	50.4	41.2	36.7	36.7
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°	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6	11712.6
2.5°	12798.6	13165.2	13151.5	13160.6	13105.6	12734.5	12555.7	12102.1	12230.4	12175.4
5°	13288.9	13650.9	13962.5	13925.9	13504.3	13000.2	12253.3	11547.6	11355.2	11071.0
7.5°	12798.6	13669.3	13958.0	13916.7	13293.5	12647.4	11456.0	10750.3	10415.8	10227.9
10°	12019.6	13027.7	13385.2	13458.5	13036.9	12056.3	10961.1	9829.2	9650.5	9325.2
12.5°	11575.1	12308.3	12528.2	12725.3	12578.7	11845.5	10585.3	9499.3	9251.8	9036.5
15°	11213.1	11648.4	11740.1	11964.6	12051.7	11657.6	10782.4	9856.7	9247.3	9224.3
17.5°	11547.6	11368.9	11034.4	11103.1	11378.1	11662.2	11291.0	10562.4	9971.3	9898.0
20°	12102.1	11313.9	10557.8	10727.4	10956.5	11827.1	12060.8	11547.6	11208.5	11020.6
22.5°	12739.0	11410.1	10406.6	10489.1	10924.4	12198.3	13307.3	13023.1	12390.8	12120.4
25°	13916.7	11675.9	10525.7	10580.7	11176.4	12716.1	14434.5	14645.3	14269.6	14214.6
27.5°	15066.9	12363.3	10786.9	10663.2	11304.8	13220.2	15117.3	16249.1	15589.3	15461.0
30°	15653.4	12922.3	11176.4	10965.7	11836.3	13527.2	15529.7	17293.9	16716.6	16657.0
32.5°	16551.6	13431.0	11478.9	11208.5	12134.2	13907.5	16299.6	18434.9	17875.9	17578.0
35°	16927.3	13985.4	12143.3	11827.1	12986.5	14439.1	16693.6	19452.2	19278.1	18989.4
37.5°	17651.4	14581.2	12926.9	12908.6	14017.5	15131.0	17403.9	20836.1	20804.0	20304.6
40°	17710.9	15231.9	14164.2	14741.5	15612.2	16336.2	18027.1	21221.0	21743.4	21404.3
42.5°	17802.6	16372.9	16304.1	16780.7	17527.6	17371.8	18050.0	21312.7	22110.0	21908.4
45°	17843.8	17513.9	18480.8	19360.6	19672.2	18728.2	17834.7	21138.6	22302.5	21798.4
47.5°	17513.9	18494.5	20240.4	21940.5	22032.1	19562.2	17743.0	20959.8	22417.0	22082.5
50°	17559.7	19108.6	21761.8	23283.1	22948.6	20300.0	17601.0	20849.9	22357.5	22132.9
52°	17449.7	19122.3	21977.1	23255.6	23021.9	19892.1	17358.1	20428.3	22302.5	22462.9
52.5°	17573.5	19039.8	21752.6	23273.9	22971.5	20093.8	17326.0	20662.0	22334.6	22009.2
55°	17147.3	18059.2	20437.4	21083.6	21037.7	18237.9	16340.8	19887.6	21496.0	21500.6
57.5°	15497.6	15653.4	16029.2	16015.4	15804.7	14338.3	13976.3	18288.3	19163.5	18687.0
60°	13655.5	11460.6	10447.8	10035.4	9801.7	9563.4	12363.3	16730.3	16812.8	16611.2
62.5°	11799.6	7945.9	6598.6	6484.1	6539.1	7409.7	11950.9	16111.7	15616.8	15181.5
65°	9522.2	5792.1	4793.2	4642.0	5178.1	6117.5	9673.4	12354.1	11593.4	11231.4
67.5°	5980.0	4225.0	3239.7	2955.6	3601.8	4211.2	6355.8	7762.6	6910.2	6410.8
70°	3546.8	2359.9	1466.4	1315.1	1480.1	2245.4	3560.5	3872.1	3203.1	2946.5
72.5°	1397.6	866.1	407.8	348.3	362.0	788.2	1310.6	1278.5	966.9	861.5
75°	375.8	261.2	142.1	114.6	96.2	146.6	210.8	137.5	50.4	64.2
77.5°	174.1	155.8	123.7	96.2	73.3	55.0	27.5	9.2	9.2	4.6
80°	151.2	132.9	114.6	96.2	73.3	45.8	22.9	4.6	4.6	4.6
82.5°	142.1	123.7	105.4	87.1	68.7	45.8	22.9	4.6	0.0	0.0
85°	59.6	77.9	87.1	82.5	73.3	45.8	22.9	4.6	0.0	0.0
87.5°	32.1	27.5	22.9	18.3	13.7	9.2	9.2	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

(END OF REPORT)