

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: P454959

Luminaire Tested: **GALN-SA6A-760-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454959  
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-SA6A-760-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA 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: 23375 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

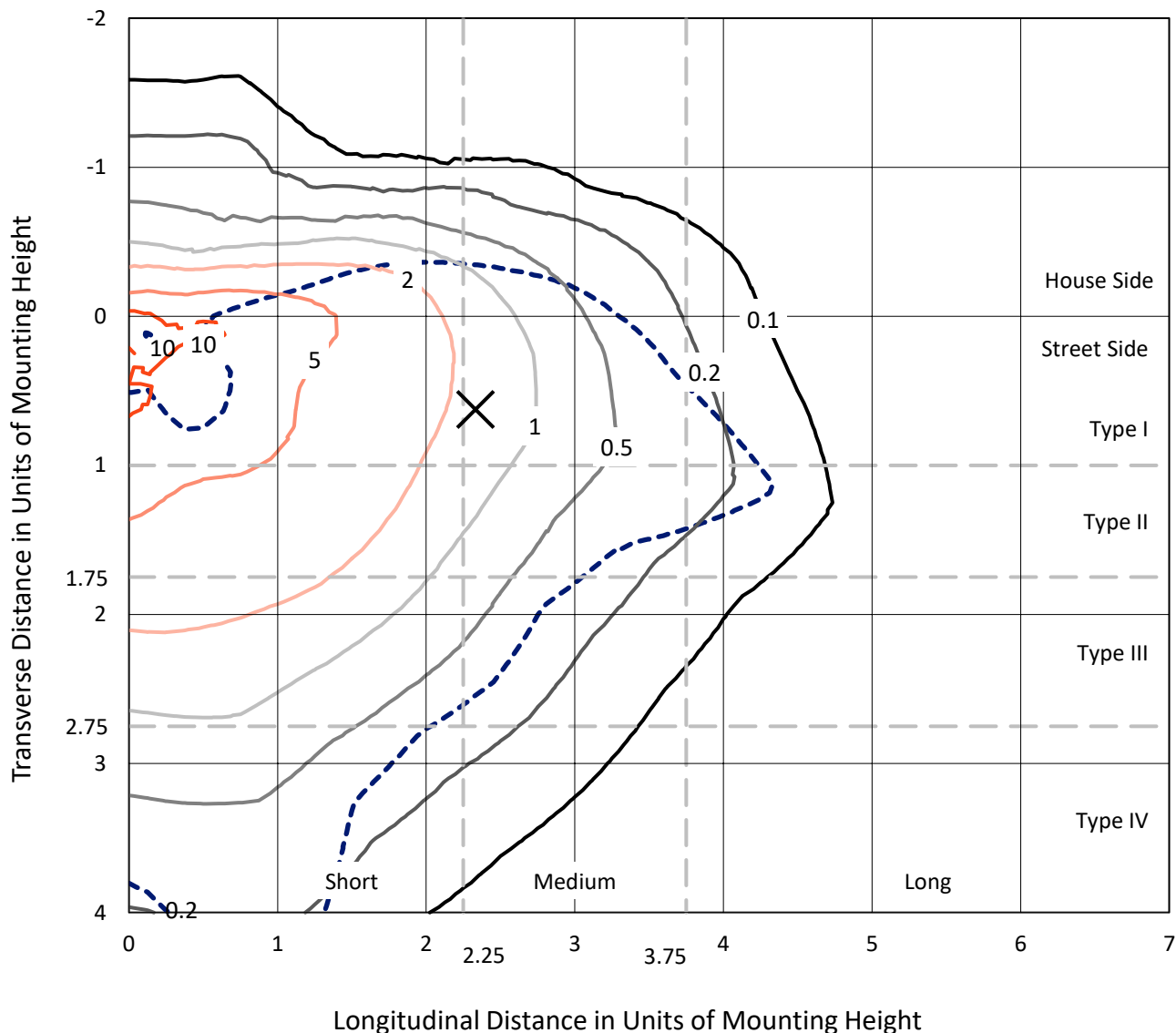
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

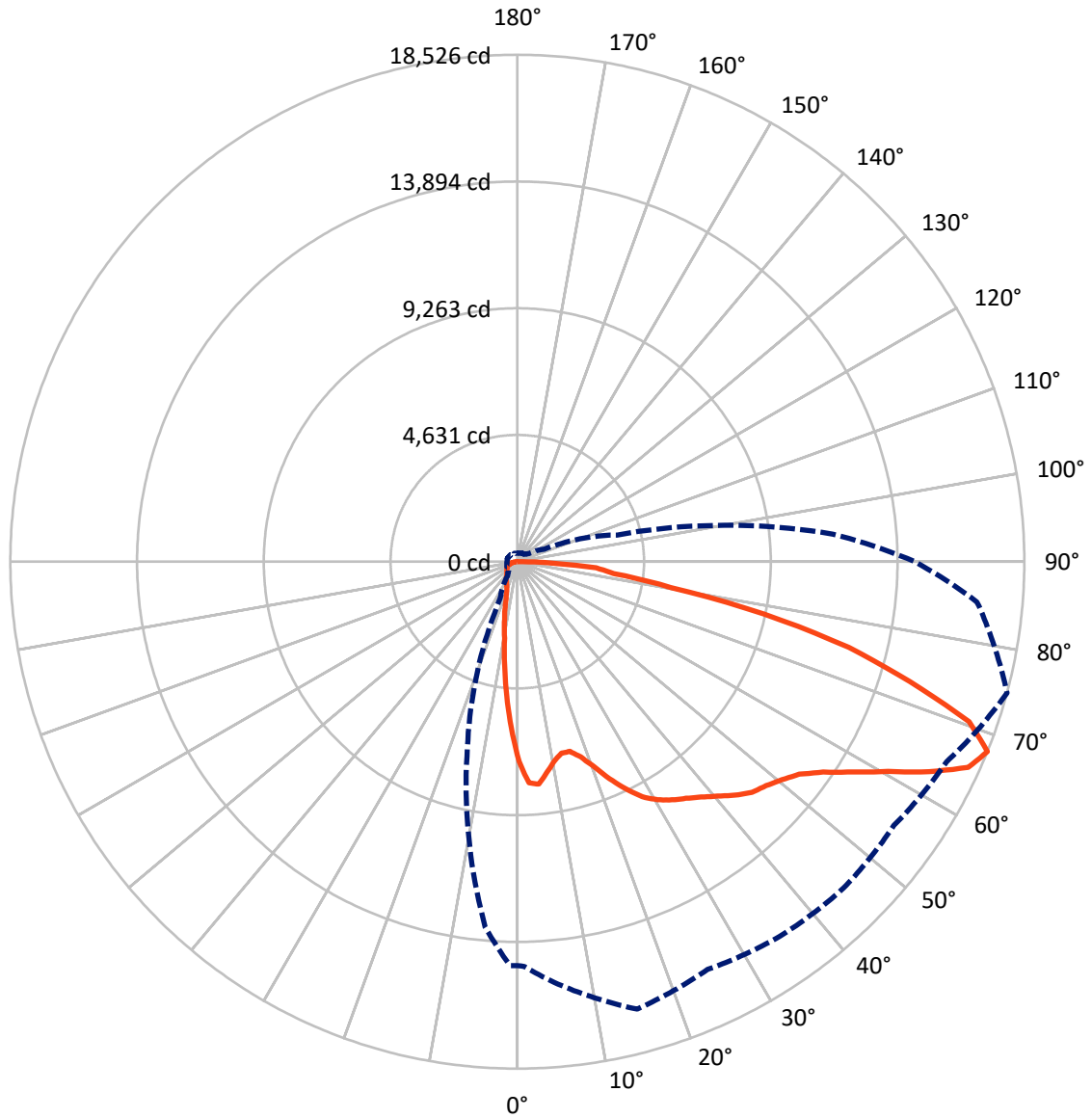
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	3950.9	0.0	3950.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	19424.1	0.0	19424.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	23375.0	0.0	23375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.9	2.4
10°-20°	1155.2	4.9
20°-30°	1662.3	7.1
30°-40°	2394.2	10.2
40°-50°	3363.2	14.4
50°-60°	4690.5	20.1
60°-70°	5576.7	23.9
70°-80°	3284.4	14.1
80°-90°	694.5	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°	23375.0	100.0
0°-180°	23375.0	100.0

**Coefficient of Utilization**



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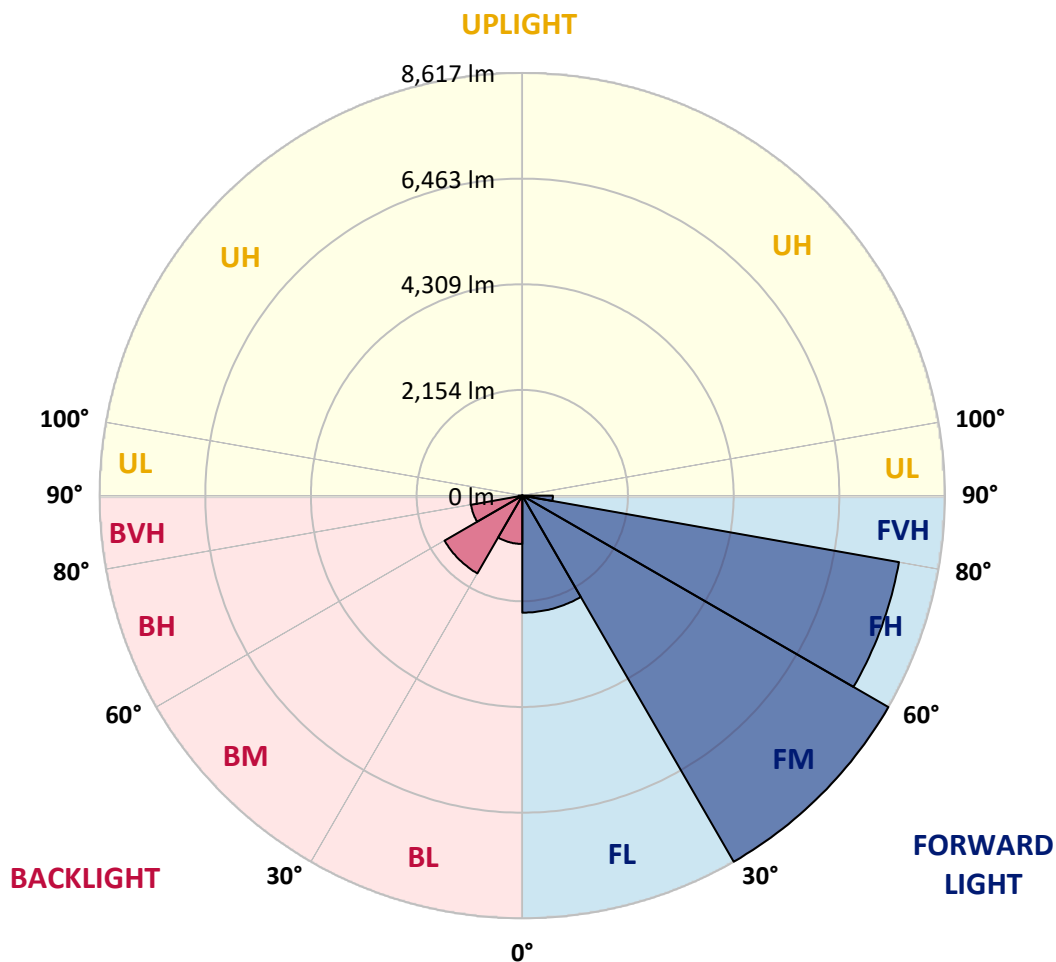
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2386.0	10.2			
FM	(30°-60°)	8617.5	36.9			
FH	(60°-80°)	7798.0	33.4			G4/12000
FVH	(80°-90°)	622.7	2.7			G4/750
BL	(0°-30°)	985.5	4.2	B2/1000		
BM	(30°-60°)	1830.5	7.8	B2/2500		
BH	(60°-80°)	1063.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	71.8	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
2.5°	7874.0	7884.5	7952.0	8148.3	8283.2	8332.7	8367.2	8302.7	8239.7	8086.9	7856.0
5°	7850.0	7911.5	8086.9	8527.5	8875.3	9025.2	9070.2	8876.8	8557.5	8164.8	7692.6
7.5°	7391.3	7473.8	7743.6	8482.6	9095.7	9446.4	9399.9	9050.7	8475.1	7775.1	7115.5
10°	6847.2	6938.7	7263.9	8157.3	8947.3	9429.9	9429.9	9004.2	8239.7	7407.8	6647.9
12.5°	6415.5	6511.5	6883.2	7823.0	8638.5	9095.7	9172.1	8806.4	8070.4	7175.5	6340.6
15°	6273.1	6366.1	6766.3	7620.7	8311.7	8590.5	8616.0	8496.1	7987.9	7192.0	6327.1
17.5°	6450.0	6569.9	6974.6	7680.6	8011.9	8028.4	8047.9	8142.3	7996.9	7493.3	6599.9
20°	6961.1	7090.1	7512.8	7874.0	7749.6	7578.7	7589.2	7832.0	8103.3	7990.9	7251.9
22.5°	7698.6	7811.0	8244.2	8214.3	7638.7	7286.4	7213.0	7551.7	8260.7	8611.5	7946.0
25°	8494.6	8626.5	9124.1	8719.4	7670.1	7112.5	7066.1	7386.8	8424.1	9191.6	8747.9
27.5°	9405.9	9534.8	9927.6	9229.1	7835.0	7099.0	7043.6	7371.9	8571.0	9728.2	9513.9
30°	10083.5	10201.9	10468.7	9657.8	8037.4	7189.0	7120.0	7490.3	8696.9	10095.5	10260.3
32.5°	10615.6	10738.5	10883.9	9924.6	8304.2	7352.4	7225.0	7706.1	8861.8	10375.8	10813.5
35°	11170.2	11315.6	11305.1	10161.4	8553.0	7541.2	7416.8	8017.9	9121.1	10620.1	11515.0
37.5°	11873.2	11931.7	11856.7	10374.3	8851.3	7881.5	7812.5	8481.1	9489.9	10915.4	12334.9
40°	12586.7	12703.6	12318.4	10632.1	9214.1	8521.6	8514.1	9166.1	9927.6	11261.6	13129.3
42.5°	13198.3	13297.2	12750.1	10856.9	9653.3	9302.5	9359.5	10085.0	10501.7	11663.4	13767.9
45°	13658.5	13746.9	13148.8	11074.3	10231.9	10204.9	10540.6	11069.8	11225.7	12024.6	14142.6
47.5°	14049.7	14135.1	13426.1	11404.0	10946.9	11282.6	11867.2	12096.6	11844.7	12231.5	14562.3
50°	14379.5	14404.9	13616.5	11796.8	11834.2	12603.2	13169.8	13318.2	12456.3	12528.3	14926.6
52.5°	14722.7	14689.7	13944.8	12291.4	12793.6	13856.3	14268.5	14422.9	13042.4	12894.0	15457.2
55°	15491.7	15523.2	14680.8	12915.0	13763.4	15087.0	15629.6	15481.2	13691.4	13567.0	16131.7
57.5°	16421.0	16394.1	15716.5	13890.8	14751.2	16232.2	16636.9	16398.6	14557.8	14491.9	16815.3
60°	16782.3	16818.3	16582.9	14940.1	15725.5	17235.0	17648.7	17278.4	15596.6	15566.6	17330.9
62.5°	16419.5	16621.9	16780.8	15873.9	16555.9	17972.5	18383.2	17960.5	16680.4	16897.7	17692.2
65°	15697.0	15740.5	16281.6	16665.4	16956.2	18093.9	18308.2	18083.4	17585.7	18110.4	17675.7
67.5°	14758.7	14796.2	15430.2	16924.7	16440.5	16714.8	16864.7	16798.8	17305.4	18525.6	16861.7
70°	13865.3	13835.3	14505.4	16263.6	14312.0	13895.3	14019.7	13812.9	14932.6	17510.8	15265.3
72.5°	12126.5	12234.5	12954.0	14425.9	11332.1	10654.6	10925.9	10390.7	11485.0	14997.0	12390.4
75°	9498.9	9524.4	10725.0	12107.1	8548.5	7479.8	7847.0	7623.7	8797.4	12510.3	8556.0
77.5°	6577.4	6520.4	7811.0	9247.0	6096.2	5475.7	5481.7	5375.2	6142.7	9211.1	5812.9
80°	4177.6	4090.6	4889.6	5712.5	4189.6	4481.9	4335.0	4330.5	3999.2	5682.5	3515.0
82.5°	2257.4	2353.4	3089.3	3581.0	3005.4	3464.1	3174.8	3081.8	2744.6	3557.0	2248.4
85°	1028.3	1118.2	1647.4	2435.8	2282.9	2308.4	1542.4	1819.7	2270.9	2888.5	1200.7
87.5°	100.4	128.9	340.3	1149.7	779.5	614.6	229.3	442.2	571.1	1026.8	95.9
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°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
2.5°	7761.6	7683.6	7418.3	7199.5	6967.1	6790.3	6559.4	6405.0	6298.6	6138.2	6118.7
5°	7404.8	7214.5	6752.8	6282.1	5875.9	5570.1	5259.8	4975.0	4807.1	4754.7	4687.2
7.5°	6803.8	6483.0	5889.4	5349.8	4883.6	4427.9	4077.2	3828.3	3661.9	3564.5	3447.6
10°	6309.1	5937.4	5214.9	4553.8	4170.1	3886.8	3578.0	3311.2	3105.8	2930.5	2834.5
12.5°	5976.3	5556.6	4744.2	4207.6	3910.8	3609.5	3248.2	2948.4	2645.7	2446.3	2360.9
15°	5875.9	5432.2	4598.8	4035.2	3609.5	3215.3	2810.5	2419.3	2119.5	1930.7	1867.7
17.5°	6121.7	5585.1	4597.3	3805.8	3255.7	2785.1	2266.4	1899.2	1591.9	1451.0	1406.0
20°	6580.4	5878.9	4610.8	3579.5	2872.0	2209.5	1648.8	1347.6	1200.7	1140.7	1118.2
22.5°	7220.5	6327.1	4651.3	3356.2	2452.3	1696.8	1235.1	1082.2	1029.8	1019.3	1014.8
25°	8008.9	6881.7	4787.7	3155.3	2098.5	1295.1	1032.8	963.8	933.8	923.4	921.9
27.5°	8734.4	7598.2	4952.5	2982.9	1756.8	1116.7	933.8	875.4	845.4	843.9	846.9
30°	9389.4	8197.8	5090.4	2789.6	1497.5	992.3	869.4	810.9	782.5	781.0	789.9
32.5°	9956.1	8690.9	5192.4	2599.2	1353.6	915.9	810.9	748.0	724.0	719.5	724.0
35°	10561.6	9182.6	5145.9	2450.8	1271.1	852.9	767.5	706.0	677.5	664.0	664.0
37.5°	11252.6	9689.2	5066.5	2327.9	1233.6	800.4	730.0	670.0	641.6	628.1	626.6
40°	12006.6	10195.9	4957.0	2218.5	1196.2	769.0	704.5	641.6	607.1	593.6	590.6
42.5°	12672.2	10629.1	4867.1	2146.5	1134.7	775.0	682.0	620.6	577.1	559.1	557.6
45°	13250.8	11065.3	4850.6	2104.5	1083.7	766.0	676.0	604.1	553.1	533.6	530.6
47.5°	13703.4	11519.5	4945.0	2080.5	1028.3	718.0	715.0	593.6	532.1	511.1	508.1
50°	14255.1	12164.0	5160.9	2031.1	977.3	673.0	755.5	592.1	515.6	488.7	481.2
52.5°	14989.5	13003.4	5453.2	1942.6	903.9	631.1	721.0	592.1	496.2	469.2	460.2
55°	16100.3	14073.7	5739.5	1818.2	800.4	575.6	650.5	574.1	467.7	443.7	437.7
57.5°	16836.2	14856.1	5922.4	1645.9	671.5	535.1	560.6	545.6	439.2	413.7	413.7
60°	16873.7	15066.0	5835.4	1428.5	590.6	497.7	487.2	550.1	413.7	386.7	383.7
62.5°	16442.0	14551.8	5382.7	1233.6	547.1	457.2	440.7	482.7	388.2	361.2	356.8
65°	15767.5	13240.3	4597.3	1140.7	523.1	421.2	397.2	395.7	361.2	335.8	329.8
67.5°	14527.9	11570.4	3777.4	1086.7	511.1	380.7	358.2	350.8	329.8	308.8	305.8
70°	12700.6	9690.7	3029.4	1064.3	505.1	338.8	320.8	311.8	293.8	277.3	275.8
72.5°	9881.1	7860.5	2500.3	1049.3	502.1	299.8	280.3	268.3	257.8	242.8	242.8
75°	7097.5	5783.0	1908.2	945.8	464.7	257.8	236.8	229.3	214.4	202.4	205.4
77.5°	4474.4	3894.3	1256.1	695.5	359.7	206.9	188.9	184.4	172.4	155.9	166.4
80°	3021.9	2738.6	733.0	437.7	226.3	151.4	145.4	143.9	130.4	112.4	113.9
82.5°	2056.6	2017.6	380.7	248.8	130.4	88.4	85.4	88.4	73.4	60.0	60.0
85°	803.4	1097.2	179.9	97.4	42.0	13.5	19.5	21.0	12.0	6.0	7.5
87.5°	15.0	112.4	4.5	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°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
2.5°	6088.8	6075.3	6097.7	6001.8	6021.3	6057.3	6075.3	6085.8	6234.1	6199.7	6294.1
5°	4750.2	4736.7	4823.6	4835.6	4880.6	4871.6	4915.1	4925.6	4979.5	4999.0	5130.9
7.5°	3455.1	3513.5	3612.5	3663.4	3739.9	3763.9	3741.4	3796.9	3684.4	3765.4	3789.4
10°	2776.1	2705.6	2663.6	2780.6	2795.5	2906.5	2861.5	2825.5	2891.5	2894.5	2957.4
12.5°	2311.4	2160.0	2059.6	2092.5	2128.5	2176.5	2184.0	2255.9	2303.9	2348.9	2386.3
15°	1812.2	1759.8	1668.3	1623.4	1674.3	1693.8	1740.3	1800.2	1851.2	1864.7	1915.7
17.5°	1391.0	1400.0	1385.0	1358.1	1389.5	1404.5	1407.5	1409.0	1422.5	1413.5	1488.5
20°	1119.7	1151.2	1188.7	1194.7	1205.2	1212.7	1199.2	1148.2	1149.7	1181.2	1205.2
22.5°	1013.3	1019.3	1061.3	1074.7	1107.7	1094.2	1055.3	1031.3	1028.3	1035.8	1047.8
25°	929.4	938.3	968.3	989.3	1014.8	990.8	962.3	939.8	936.8	944.3	956.3
27.5°	854.4	867.9	894.9	915.9	939.8	917.4	890.4	870.9	869.4	867.9	875.4
30°	794.4	809.4	828.9	852.9	869.4	849.9	824.4	813.9	812.4	809.4	812.4
32.5°	734.5	758.5	778.0	789.9	806.4	791.4	772.0	766.0	755.5	746.5	742.0
35°	667.0	692.5	722.5	737.5	754.0	739.0	725.5	700.0	682.0	680.5	683.5
37.5°	628.1	638.6	662.5	688.0	704.5	697.0	671.5	646.0	641.6	641.6	644.6
40°	593.6	598.1	608.6	641.6	671.5	649.0	617.6	610.1	610.1	608.6	610.1
42.5°	559.1	563.6	563.6	589.1	637.1	601.1	577.1	577.1	577.1	578.6	583.1
45°	527.6	529.1	527.6	545.6	590.6	560.6	544.1	548.6	551.6	554.6	557.6
47.5°	500.7	502.1	500.7	515.6	538.1	526.1	517.1	523.1	529.1	533.6	536.6
50°	476.7	475.2	478.2	487.2	497.7	500.7	494.7	503.6	506.6	512.6	520.1
52.5°	455.7	454.2	457.2	461.7	476.7	476.7	476.7	484.2	490.2	496.2	506.6
55°	431.7	433.2	437.7	443.7	463.2	460.2	461.7	467.7	473.7	482.7	488.7
57.5°	409.2	412.2	418.2	427.2	446.7	445.2	446.7	449.7	457.2	461.7	467.7
60°	383.7	389.7	397.2	403.2	422.7	421.2	428.7	434.7	439.2	439.2	442.2
62.5°	358.2	367.2	374.7	379.2	400.2	401.7	412.2	416.7	419.7	416.7	421.2
65°	332.8	346.3	349.3	355.3	376.2	377.7	389.7	400.2	397.2	394.2	401.7
67.5°	307.3	323.8	322.3	329.8	350.8	353.8	364.2	382.2	376.2	373.2	379.2
70°	278.8	290.8	292.3	296.8	325.3	320.8	337.3	353.8	349.3	350.8	350.8
72.5°	247.3	257.8	257.8	266.8	296.8	289.3	302.8	320.8	320.8	319.3	319.3
75°	209.9	215.8	221.8	235.3	266.8	257.8	266.8	283.3	286.3	283.3	283.3
77.5°	169.4	178.4	181.4	199.4	221.8	220.3	229.3	236.8	242.8	239.8	239.8
80°	119.9	128.9	140.9	160.4	173.9	178.4	182.9	188.9	191.9	191.9	194.9
82.5°	67.5	80.9	91.4	110.9	116.9	139.4	137.9	142.4	137.9	121.4	134.9
85°	15.0	28.5	40.5	51.0	58.5	80.9	85.4	95.9	79.4	73.4	73.4
87.5°	0.0	0.0	0.0	0.0	0.0	12.0	24.0	33.0	28.5	24.0	24.0
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°	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9	7302.9
2.5°	6373.6	6504.0	6661.4	6932.7	7123.0	7328.4	7535.2	7755.6	7814.0	7874.0
5°	5166.9	5423.2	5562.6	5926.9	6309.1	6794.8	7192.0	7626.7	7808.1	7850.0
7.5°	3913.8	4087.6	4453.4	4822.1	5295.8	5805.4	6414.0	7091.6	7302.9	7391.3
10°	3102.8	3339.7	3660.4	4056.2	4471.4	5020.0	5706.5	6498.0	6797.8	6847.2
12.5°	2641.2	2905.0	3254.2	3672.4	4065.2	4478.9	5171.4	5988.3	6309.1	6415.5
15°	2112.0	2431.3	2834.5	3275.2	3702.4	4155.1	4856.6	5778.5	6148.7	6273.1
17.5°	1659.3	1917.2	2353.4	2831.5	3338.2	3910.8	4790.7	5878.9	6334.6	6450.0
20°	1269.6	1454.0	1821.2	2326.4	2920.0	3669.4	4807.1	6258.1	6803.8	6961.1
22.5°	1097.2	1191.7	1415.0	1896.2	2560.2	3459.6	4874.6	6778.3	7436.3	7698.6
25°	993.8	1043.3	1169.2	1484.0	2217.0	3255.7	5029.0	7478.3	8320.7	8494.6
27.5°	905.4	941.3	1019.3	1245.6	1905.2	3066.9	5208.9	8254.7	9146.6	9405.9
30°	821.4	869.4	942.8	1106.2	1705.8	2894.5	5435.2	8884.3	9842.1	10083.5
32.5°	757.0	804.9	872.4	1008.8	1536.4	2713.1	5570.1	9437.4	10410.2	10615.6
35°	704.5	745.0	815.4	930.9	1407.5	2575.2	5543.1	9876.6	10960.4	11170.2
37.5°	667.0	701.5	772.0	857.4	1310.1	2431.3	5529.6	10456.7	11630.4	11873.2
40°	632.6	668.5	733.0	809.4	1212.7	2261.9	5537.1	11032.3	12343.9	12586.7
42.5°	605.6	646.0	698.5	795.9	1112.2	2125.5	5537.1	11533.0	12964.5	13198.3
45°	583.1	626.6	677.5	794.4	1032.8	2022.1	5499.7	11963.2	13459.1	13658.5
47.5°	563.6	611.6	685.0	767.5	1013.3	1947.1	5466.7	12307.9	13862.3	14049.7
50°	550.1	607.1	728.5	736.0	1019.3	1924.7	5625.6	12742.6	14217.6	14379.5
52.5°	539.6	608.6	727.0	689.5	1008.8	1939.6	5956.8	13421.6	14710.7	14722.7
55°	518.6	607.1	689.5	637.1	965.3	1965.1	6382.5	14407.9	15482.7	15491.7
57.5°	497.7	590.6	640.1	592.1	876.9	1965.1	6895.2	15341.8	16413.5	16421.0
60°	476.7	614.6	562.1	553.1	761.5	1929.2	7436.3	15752.5	16705.8	16782.3
62.5°	455.7	619.1	502.1	518.6	677.5	1842.2	7839.5	15298.3	16310.1	16419.5
65°	431.7	499.2	463.2	482.7	634.1	1696.8	7712.1	14466.4	15566.6	15697.0
67.5°	403.2	422.7	421.2	445.2	619.1	1482.5	7040.6	13414.1	14766.2	14758.7
70°	368.7	379.2	383.7	409.2	590.6	1316.1	5866.9	12048.6	13697.4	13865.3
72.5°	332.8	341.8	346.3	368.7	562.1	1221.6	4553.8	10167.4	11864.2	12126.5
75°	293.8	299.8	305.8	325.3	532.1	1082.2	3243.7	7761.6	9086.7	9498.9
77.5°	253.3	253.3	260.8	280.3	448.2	893.4	2176.5	5444.2	6156.2	6577.4
80°	205.4	206.9	203.9	224.8	329.8	611.6	1236.6	3636.5	4096.6	4177.6
82.5°	157.4	152.9	154.4	164.9	245.8	416.7	659.5	2258.9	2302.4	2257.4
85°	98.9	98.9	95.9	107.9	157.4	217.3	359.7	1383.5	1080.7	1028.3
87.5°	40.5	33.0	37.5	43.5	74.9	88.4	140.9	284.8	109.4	100.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)