

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: P455133

Luminaire Tested: **GALN-SA6B-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455133  
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-SA6B-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA 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: 29085 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

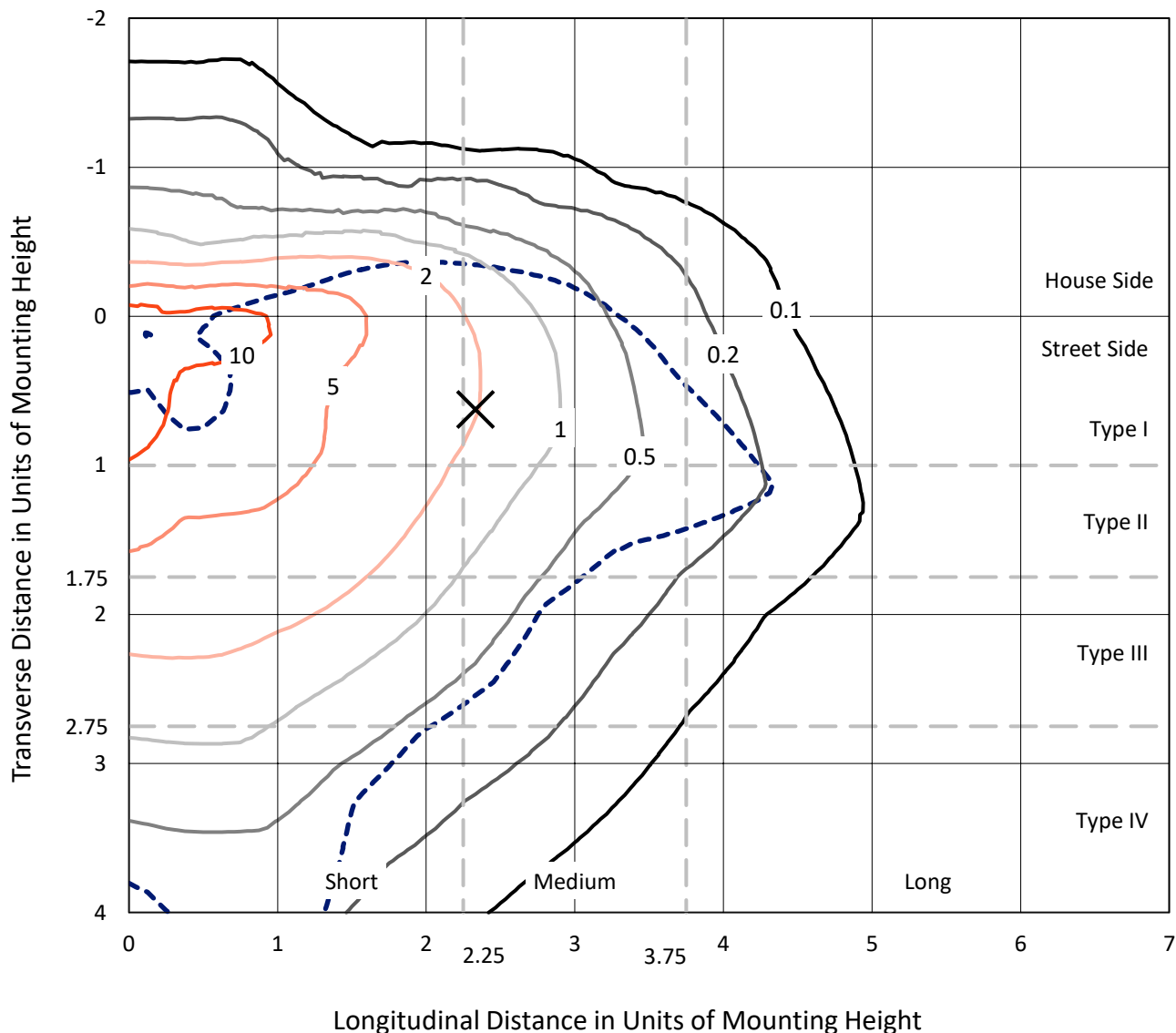
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

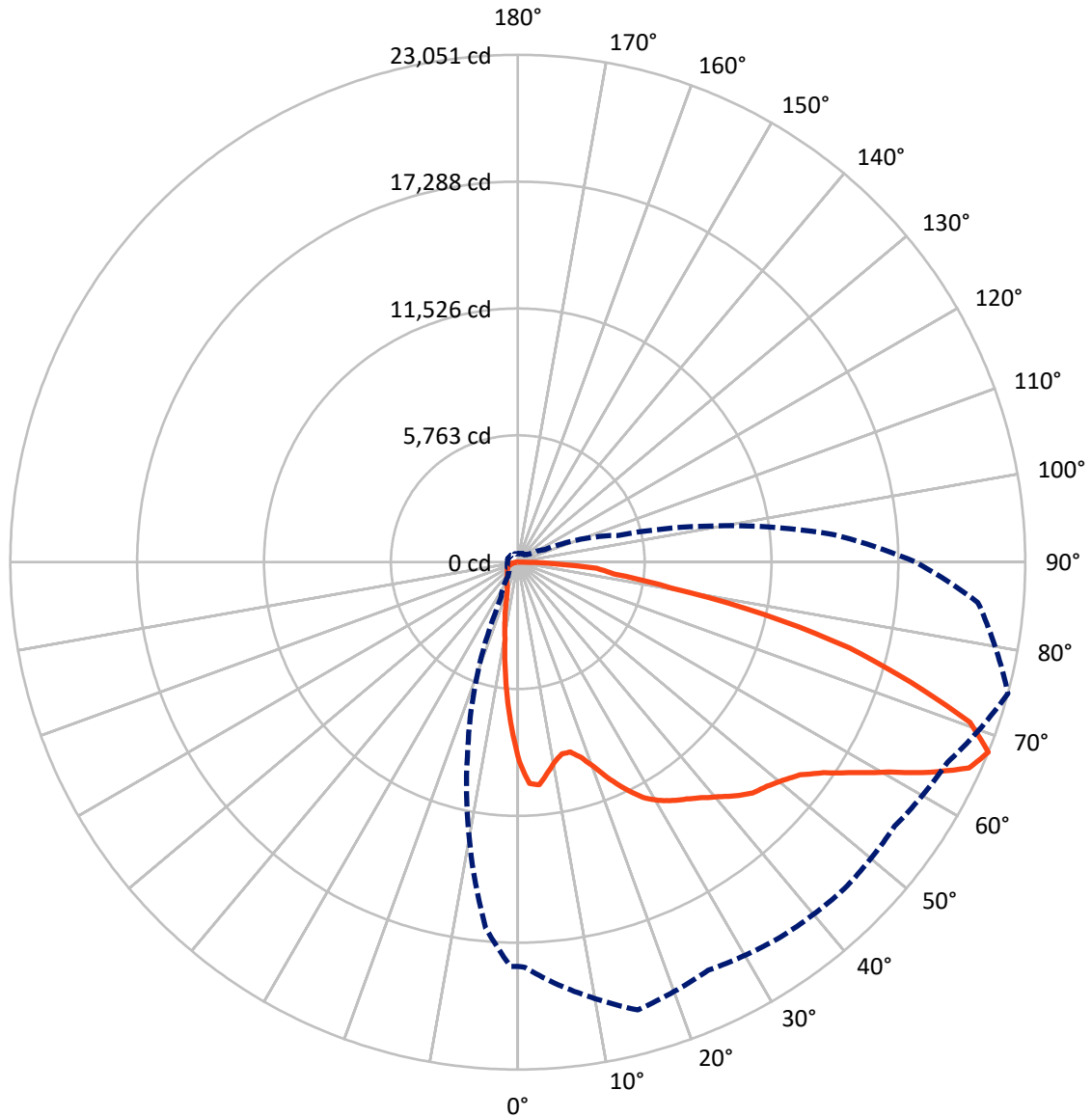
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	4916.0	0.0	4916.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	24169.0	0.0	24169.0
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	29085.0	0.0	29085.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.2	2.4
10°-20°	1437.4	4.9
20°-30°	2068.4	7.1
30°-40°	2979.1	10.2
40°-50°	4184.8	14.4
50°-60°	5836.3	20.1
60°-70°	6939.0	23.9
70°-80°	4086.7	14.1
80°-90°	864.2	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°	29085.0	100.0
0°-180°	29085.0	100.0

**Coefficient of Utilization**



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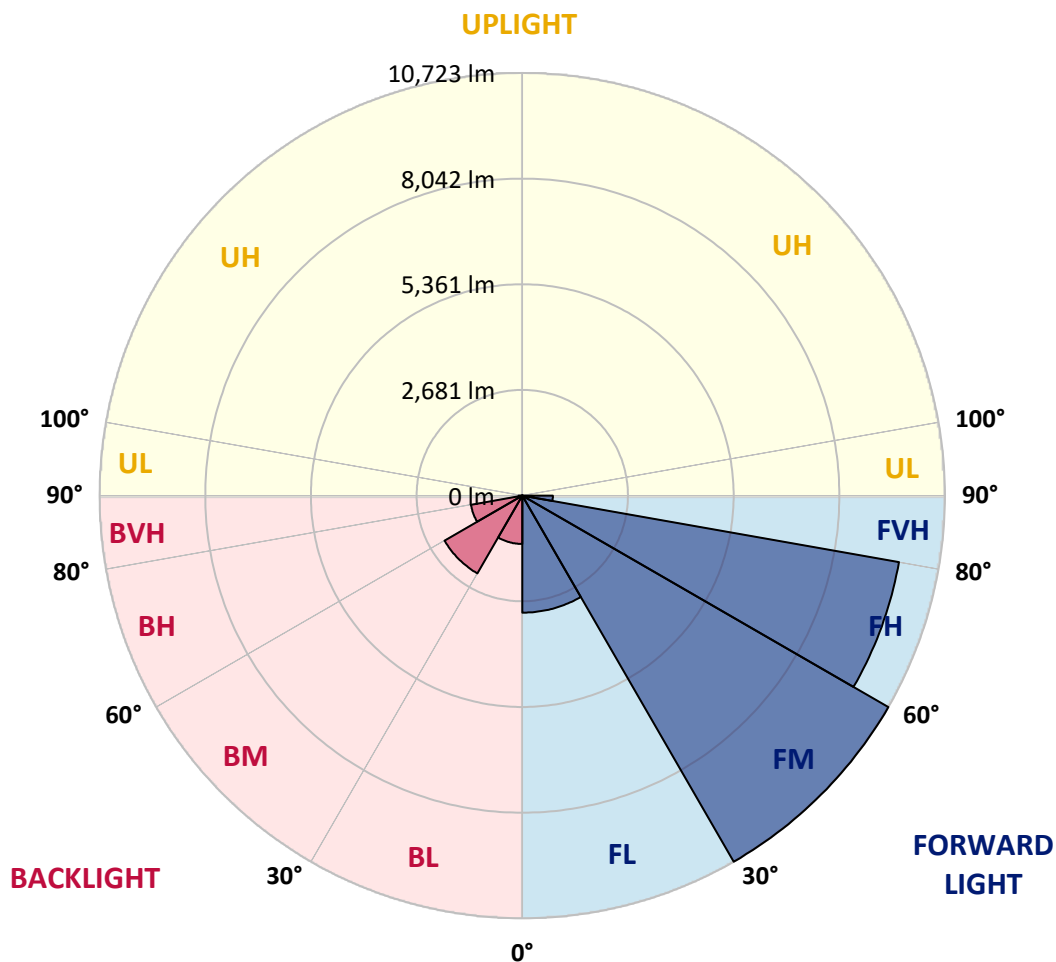
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2968.8	10.2			
FM	(30°-60°)	10722.6	36.9			
FH	(60°-80°)	9702.9	33.4			G4/12000
FVH	(80°-90°)	774.8	2.7			G5
BL	(0°-30°)	1226.2	4.2	B3/2500		
BM	(30°-60°)	2277.6	7.8	B2/2500		
BH	(60°-80°)	1322.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	89.4	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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8
2.5°	9797.5	9810.5	9894.4	10138.8	10306.6	10368.2	10411.1	10330.9	10252.5	10062.3	9775.1
5°	9767.6	9844.1	10062.3	10610.6	11043.3	11229.9	11285.8	11045.2	10647.9	10159.3	9571.8
7.5°	9196.9	9299.5	9635.2	10554.7	11317.5	11754.0	11696.1	11261.6	10545.4	9674.4	8853.7
10°	8519.8	8633.6	9038.3	10150.0	11132.9	11733.4	11733.4	11203.7	10252.5	9217.4	8271.8
12.5°	7982.7	8102.1	8564.6	9734.0	10748.7	11317.5	11412.6	10957.6	10041.8	8928.3	7889.4
15°	7805.5	7921.1	8419.1	9482.2	10342.1	10689.0	10720.7	10571.5	9939.2	8948.8	7872.7
17.5°	8025.6	8174.8	8678.4	9556.9	9969.0	9989.6	10013.8	10131.3	9950.4	9323.7	8212.1
20°	8661.6	8822.0	9348.0	9797.5	9642.6	9430.0	9443.1	9745.2	10082.8	9942.9	9023.4
22.5°	9579.2	9719.1	10258.1	10220.8	9504.6	9066.3	8974.9	9396.5	10278.7	10715.1	9887.0
25°	10569.6	10733.7	11353.0	10849.4	9543.8	8850.0	8792.2	9191.3	10481.9	11436.9	10884.8
27.5°	11703.6	11864.0	12352.7	11483.5	9749.0	8833.2	8764.2	9172.6	10664.7	12104.6	11837.9
30°	12546.6	12694.0	13026.0	12016.9	10000.7	8945.1	8859.3	9320.0	10821.4	12561.6	12766.7
32.5°	13208.7	13361.7	13542.6	12348.9	10332.7	9148.4	8989.9	9588.6	11026.6	12910.3	13454.9
35°	13898.8	14079.8	14066.7	12643.6	10642.3	9383.4	9228.6	9976.5	11349.2	13214.3	14327.8
37.5°	14773.6	14846.3	14753.1	12908.5	11013.5	9806.8	9721.0	10552.8	11808.0	13581.8	15348.0
40°	15661.4	15806.9	15327.5	13229.3	11464.9	10603.2	10593.9	11405.2	12352.7	14012.6	16336.5
42.5°	16422.3	16545.4	15864.7	13509.0	12011.3	11574.9	11645.8	12548.5	13067.0	14512.5	17131.1
45°	16994.9	17105.0	16360.8	13779.5	12731.3	12697.7	13115.5	13773.9	13967.8	14962.0	17597.4
47.5°	17481.7	17588.0	16705.8	14189.8	13620.9	14038.7	14766.1	15051.5	14738.1	15219.3	18119.6
50°	17892.1	17923.8	16942.7	14678.5	14725.1	15681.9	16386.9	16571.6	15499.1	15588.6	18572.8
52.5°	18319.2	18278.1	17351.2	15293.9	15918.8	17241.1	17754.0	17946.1	16228.4	16043.7	19233.1
55°	19276.0	19315.1	18266.9	16069.8	17125.5	18772.4	19447.6	19262.9	17036.0	16881.2	20072.4
57.5°	20432.3	20398.8	19555.7	17284.0	18354.6	20197.3	20700.9	20404.4	18114.0	18031.9	20922.9
60°	20881.8	20926.6	20633.8	18589.6	19566.9	21445.1	21959.9	21499.2	19406.5	19369.2	21564.5
62.5°	20430.5	20682.3	20880.0	19751.6	20600.2	22362.7	22873.8	22347.8	20755.0	21025.4	22014.0
65°	19531.5	19585.6	20258.9	20736.4	21098.2	22513.8	22780.5	22500.8	21881.5	22534.3	21993.4
67.5°	18363.9	18410.6	19199.5	21059.0	20456.6	20797.9	20984.4	20902.3	21532.8	23051.0	20980.7
70°	17252.3	17215.0	18048.7	20236.5	17808.1	17289.6	17444.4	17187.0	18580.3	21788.3	18994.3
72.5°	15088.8	15223.1	16118.3	17949.9	14100.3	13257.2	13594.8	12929.0	14290.5	18660.5	15417.0
75°	11819.2	11850.9	13344.9	15064.5	10636.8	9306.9	9763.9	9486.0	10946.4	15566.3	10646.1
77.5°	8184.1	8113.3	9719.1	11505.9	7585.4	6813.3	6820.7	6688.3	7643.2	11461.1	7232.9
80°	5198.1	5089.9	6084.0	7108.0	5213.0	5576.7	5393.9	5388.3	4976.1	7070.7	4373.7
82.5°	2808.9	2928.2	3844.0	4455.8	3739.6	4310.3	3950.3	3834.7	3415.0	4425.9	2797.7
85°	1279.5	1391.4	2049.8	3030.8	2840.6	2872.3	1919.2	2264.3	2825.6	3594.1	1494.0
87.5°	125.0	160.4	423.4	1430.5	969.9	764.7	285.4	550.2	710.6	1277.6	119.4
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°	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8
2.5°	9657.6	9560.6	9230.5	8958.1	8669.1	8449.0	8161.7	7969.6	7837.2	7637.6	7613.4
5°	9213.7	8976.8	8402.3	7816.7	7311.3	6930.8	6544.7	6190.3	5981.4	5916.1	5832.2
7.5°	8465.8	8066.6	7328.0	6656.6	6076.5	5509.6	5073.1	4763.5	4556.5	4435.2	4289.8
10°	7850.3	7387.7	6488.7	5666.2	5188.8	4836.2	4452.0	4120.0	3864.5	3646.3	3526.9
12.5°	7436.2	6914.0	5903.1	5235.4	4866.1	4491.2	4041.7	3668.7	3291.9	3043.9	2937.6
15°	7311.3	6759.2	5722.2	5020.9	4491.2	4000.7	3497.1	3010.3	2637.3	2402.3	2323.9
17.5°	7617.1	6949.4	5720.3	4735.5	4051.0	3465.4	2820.1	2363.1	1980.8	1805.4	1749.5
20°	8187.9	7315.0	5737.1	4453.9	3573.6	2749.2	2051.6	1676.7	1494.0	1419.4	1391.4
22.5°	8984.3	7872.7	5787.5	4176.0	3051.3	2111.3	1536.9	1346.6	1281.3	1268.3	1262.7
25°	9965.3	8562.7	5957.2	3926.1	2611.2	1611.5	1285.1	1199.3	1162.0	1148.9	1147.0
27.5°	10868.0	9454.3	6162.3	3711.6	2185.9	1389.5	1162.0	1089.2	1051.9	1050.1	1053.8
30°	11683.1	10200.3	6333.9	3471.0	1863.3	1234.7	1081.8	1009.0	973.6	971.7	982.9
32.5°	12388.1	10813.9	6460.8	3234.1	1684.2	1139.6	1009.0	930.7	900.9	895.3	900.9
35°	13141.6	11425.7	6402.9	3049.5	1581.6	1061.3	954.9	878.5	843.0	826.2	826.2
37.5°	14001.4	12056.1	6304.1	2896.5	1535.0	996.0	908.3	833.7	798.3	781.5	779.6
40°	14939.6	12686.5	6167.9	2760.4	1488.4	956.8	876.6	798.3	755.4	738.6	734.9
42.5°	15767.7	13225.5	6056.0	2670.8	1411.9	964.3	848.6	772.2	718.1	695.7	693.8
45°	16487.6	13768.3	6035.5	2618.6	1348.5	953.1	841.2	751.6	688.2	664.0	660.3
47.5°	17050.9	14333.4	6153.0	2588.8	1279.5	893.4	889.7	738.6	662.1	636.0	632.3
50°	17737.2	15135.4	6421.6	2527.2	1216.1	837.4	940.0	736.7	641.6	608.0	598.7
52.5°	18651.2	16179.9	6785.3	2417.2	1124.7	785.2	897.1	736.7	617.4	583.8	572.6
55°	20033.2	17511.6	7141.5	2262.4	996.0	716.2	809.5	714.3	581.9	552.1	544.6
57.5°	20949.0	18485.2	7369.1	2047.9	835.6	665.8	697.6	678.9	546.5	514.8	514.8
60°	20995.6	18746.3	7260.9	1777.5	734.9	619.2	606.2	684.5	514.8	481.2	477.5
62.5°	20458.5	18106.5	6697.6	1535.0	680.8	568.9	548.3	600.6	483.1	449.5	443.9
65°	19619.1	16474.6	5720.3	1419.4	650.9	524.1	494.3	492.4	449.5	417.8	410.3
67.5°	18076.7	14396.8	4700.1	1352.2	636.0	473.7	445.8	436.4	410.3	384.2	380.5
70°	15803.1	12058.0	3769.4	1324.2	628.5	421.5	399.1	387.9	365.6	345.0	343.2
72.5°	12294.8	9780.7	3111.0	1305.6	624.8	373.0	348.8	333.9	320.8	302.1	302.1
75°	8831.3	7195.6	2374.3	1176.9	578.2	320.8	294.7	285.4	266.7	251.8	255.5
77.5°	5567.4	4845.6	1563.0	865.4	447.6	257.4	235.0	229.4	214.5	194.0	207.0
80°	3760.1	3407.6	912.0	544.6	281.6	188.4	180.9	179.1	162.3	139.9	141.7
82.5°	2558.9	2510.4	473.7	309.6	162.3	110.0	106.3	110.0	91.4	74.6	74.6
85°	999.7	1365.3	223.8	121.2	52.2	16.8	24.2	26.1	14.9	7.5	9.3
87.5°	18.7	139.9	5.6	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°	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8
2.5°	7576.1	7559.3	7587.3	7467.9	7492.2	7536.9	7559.3	7572.4	7757.0	7714.1	7831.6
5°	5910.6	5893.8	6001.9	6016.9	6072.8	6061.6	6115.7	6128.8	6195.9	6220.2	6384.3
7.5°	4299.1	4371.8	4494.9	4558.3	4653.5	4683.3	4655.3	4724.3	4584.5	4685.2	4715.0
10°	3454.2	3366.5	3314.3	3459.8	3478.4	3616.5	3560.5	3515.7	3597.8	3601.5	3679.9
12.5°	2876.0	2687.6	2562.7	2603.7	2648.5	2708.1	2717.5	2807.0	2866.7	2922.6	2969.3
15°	2254.9	2189.6	2075.9	2019.9	2083.3	2107.6	2165.4	2240.0	2303.4	2320.2	2383.6
17.5°	1730.8	1742.0	1723.4	1689.8	1729.0	1747.6	1751.3	1753.2	1770.0	1758.8	1852.1
20°	1393.2	1432.4	1479.0	1486.5	1499.6	1508.9	1492.1	1428.7	1430.5	1469.7	1499.6
22.5°	1260.8	1268.3	1320.5	1337.3	1378.3	1361.5	1313.0	1283.2	1279.5	1288.8	1303.7
25°	1156.4	1167.6	1204.9	1231.0	1262.7	1232.8	1197.4	1169.4	1165.7	1175.0	1189.9
27.5°	1063.1	1079.9	1113.5	1139.6	1169.4	1141.5	1107.9	1083.6	1081.8	1079.9	1089.2
30°	988.5	1007.2	1031.4	1061.3	1081.8	1057.5	1025.8	1012.8	1010.9	1007.2	1010.9
32.5°	913.9	943.7	968.0	982.9	1003.4	984.8	960.5	953.1	940.0	928.8	923.2
35°	830.0	861.7	899.0	917.6	938.2	919.5	902.7	871.0	848.6	846.8	850.5
37.5°	781.5	794.5	824.4	856.1	876.6	867.3	835.6	803.9	798.3	798.3	802.0
40°	738.6	744.2	757.2	798.3	835.6	807.6	768.4	759.1	759.1	757.2	759.1
42.5°	695.7	701.3	701.3	733.0	792.7	747.9	718.1	718.1	718.1	719.9	725.5
45°	656.5	658.4	656.5	678.9	734.9	697.6	677.0	682.6	686.4	690.1	693.8
47.5°	622.9	624.8	622.9	641.6	669.6	654.7	643.5	650.9	658.4	664.0	667.7
50°	593.1	591.2	595.0	606.2	619.2	622.9	615.5	626.7	630.4	637.9	647.2
52.5°	567.0	565.1	568.9	574.5	593.1	593.1	593.1	602.4	609.9	617.4	630.4
55°	537.2	539.0	544.6	552.1	576.3	572.6	574.5	581.9	589.4	600.6	608.0
57.5°	509.2	512.9	520.4	531.6	555.8	553.9	555.8	559.5	568.9	574.5	581.9
60°	477.5	484.9	494.3	501.7	526.0	524.1	533.4	540.9	546.5	546.5	550.2
62.5°	445.8	457.0	466.3	471.9	498.0	499.9	512.9	518.5	522.2	518.5	524.1
65°	414.1	430.8	434.6	442.0	468.1	470.0	484.9	498.0	494.3	490.5	499.9
67.5°	382.3	402.9	401.0	410.3	436.4	440.2	453.2	475.6	468.1	464.4	471.9
70°	346.9	361.8	363.7	369.3	404.7	399.1	419.7	440.2	434.6	436.4	436.4
72.5°	307.7	320.8	320.8	332.0	369.3	360.0	376.8	399.1	399.1	397.3	397.3
75°	261.1	268.6	276.0	292.8	332.0	320.8	332.0	352.5	356.2	352.5	352.5
77.5°	210.8	221.9	225.7	248.1	276.0	274.2	285.4	294.7	302.1	298.4	298.4
80°	149.2	160.4	175.3	199.6	216.4	221.9	227.5	235.0	238.7	238.7	242.5
82.5°	83.9	100.7	113.8	138.0	145.5	173.5	171.6	177.2	171.6	151.1	167.9
85°	18.7	35.4	50.4	63.4	72.7	100.7	106.3	119.4	98.9	91.4	91.4
87.5°	0.0	0.0	0.0	0.0	0.0	14.9	29.8	41.0	35.4	29.8	29.8
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°	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8	9086.8
2.5°	7930.5	8092.7	8288.6	8626.2	8863.0	9118.5	9375.9	9650.1	9722.8	9797.5
5°	6429.1	6748.0	6921.4	7374.7	7850.3	8454.6	8948.8	9489.7	9715.4	9767.6
7.5°	4869.8	5086.2	5541.3	6000.1	6589.5	7223.6	7980.8	8823.9	9086.8	9196.9
10°	3860.8	4155.5	4554.6	5047.0	5563.6	6246.3	7100.5	8085.3	8458.3	8519.8
12.5°	3286.3	3614.6	4049.2	4569.5	5058.2	5573.0	6434.6	7451.1	7850.3	7982.7
15°	2627.9	3025.2	3526.9	4075.3	4606.8	5170.1	6043.0	7190.0	7650.7	7805.5
17.5°	2064.7	2385.5	2928.2	3523.2	4153.6	4866.1	5960.9	7315.0	7882.0	8025.6
20°	1579.8	1809.2	2266.1	2894.7	3633.2	4565.8	5981.4	7786.9	8465.8	8661.6
22.5°	1365.3	1482.8	1760.7	2359.4	3185.6	4304.7	6065.4	8434.1	9252.8	9579.2
25°	1236.6	1298.1	1454.8	1846.5	2758.5	4051.0	6257.5	9305.1	10353.3	10569.6
27.5°	1126.5	1171.3	1268.3	1549.9	2370.6	3816.0	6481.3	10271.2	11380.9	11703.6
30°	1022.1	1081.8	1173.2	1376.5	2122.5	3601.5	6762.9	11054.5	12246.3	12546.6
32.5°	941.9	1001.6	1085.5	1255.2	1911.7	3375.9	6930.8	11742.8	12953.2	13208.7
35°	876.6	927.0	1014.6	1158.2	1751.3	3204.3	6897.2	12289.2	13637.7	13898.8
37.5°	830.0	872.9	960.5	1066.8	1630.1	3025.2	6880.4	13011.0	14471.4	14773.6
40°	787.1	831.8	912.0	1007.2	1508.9	2814.5	6889.7	13727.2	15359.2	15661.4
42.5°	753.5	803.9	869.1	990.4	1383.9	2644.7	6889.7	14350.2	16131.4	16422.3
45°	725.5	779.6	843.0	988.5	1285.1	2516.0	6843.1	14885.5	16746.9	16994.9
47.5°	701.3	761.0	852.4	954.9	1260.8	2422.8	6802.1	15314.5	17248.6	17481.7
50°	684.5	755.4	906.4	915.8	1268.3	2394.8	6999.8	15855.3	17690.6	17892.1
52.5°	671.4	757.2	904.6	858.0	1255.2	2413.5	7412.0	16700.2	18304.2	18319.2
55°	645.3	755.4	858.0	792.7	1201.1	2445.2	7941.7	17927.5	19264.8	19276.0
57.5°	619.2	734.9	796.4	736.7	1091.1	2445.2	8579.5	19089.5	20423.0	20432.3
60°	593.1	764.7	699.4	688.2	947.5	2400.4	9252.8	19600.5	20786.7	20881.8
62.5°	567.0	770.3	624.8	645.3	843.0	2292.2	9754.6	19035.4	20294.3	20430.5
65°	537.2	621.1	576.3	600.6	788.9	2111.3	9596.0	18000.2	19369.2	19531.5
67.5°	501.7	526.0	524.1	553.9	770.3	1844.6	8760.4	16690.9	18373.3	18363.9
70°	458.8	471.9	477.5	509.2	734.9	1637.6	7300.1	14991.8	17043.4	17252.3
72.5°	414.1	425.2	430.8	458.8	699.4	1520.1	5666.2	12651.1	14762.4	15088.8
75°	365.6	373.0	380.5	404.7	662.1	1346.6	4036.1	9657.6	11306.3	11819.2
77.5°	315.2	315.2	324.5	348.8	557.7	1111.6	2708.1	6774.1	7660.0	8184.1
80°	255.5	257.4	253.7	279.8	410.3	761.0	1538.7	4524.8	5097.4	5198.1
82.5°	195.8	190.2	192.1	205.2	305.9	518.5	820.7	2810.7	2864.8	2808.9
85°	123.1	123.1	119.4	134.3	195.8	270.4	447.6	1721.5	1344.7	1279.5
87.5°	50.4	41.0	46.6	54.1	93.3	110.0	175.3	354.4	136.2	125.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)