

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: P455829

Luminaire Tested: **GALN-SA7A-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455829  
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-SA7A-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 27456 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

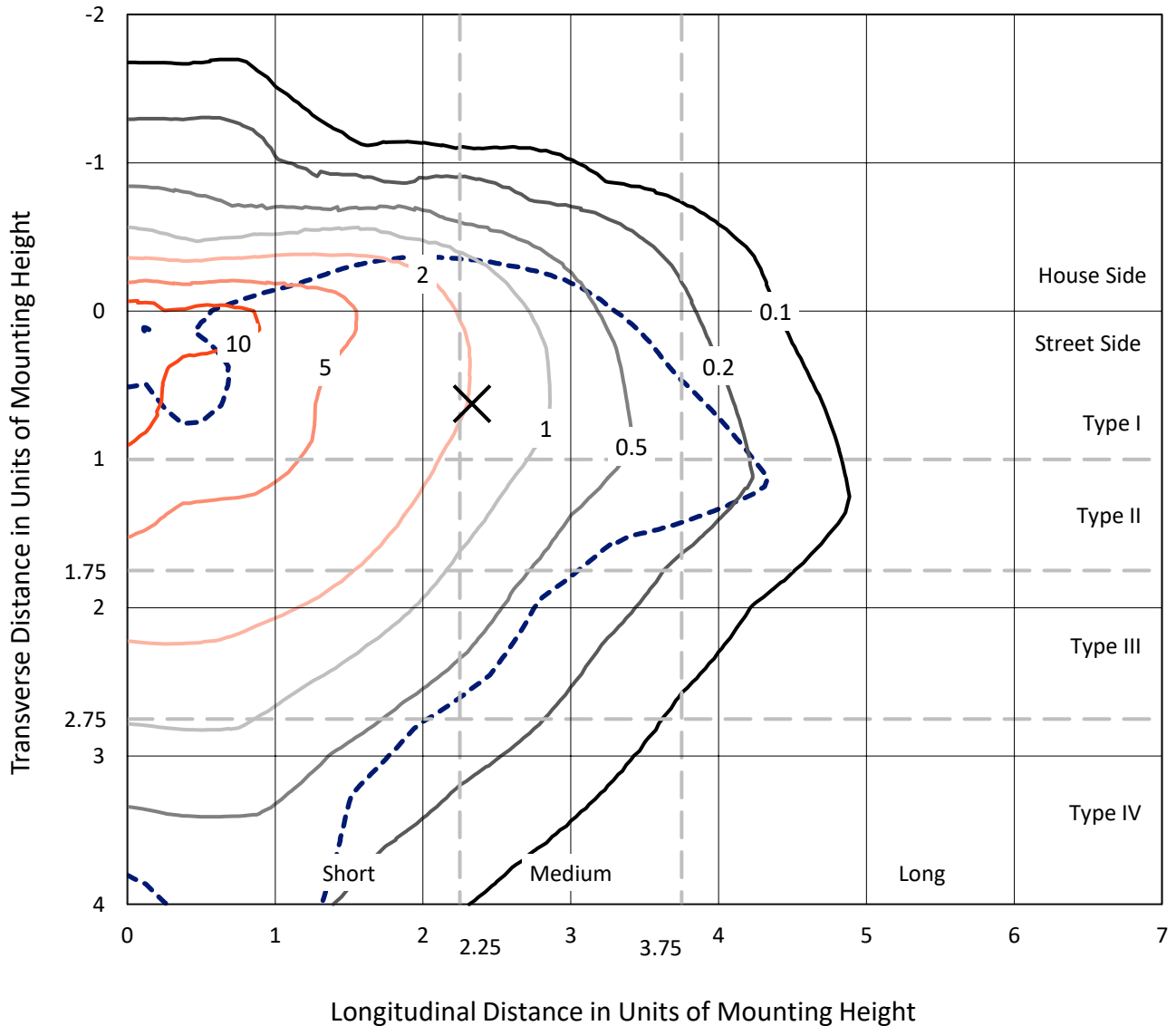
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

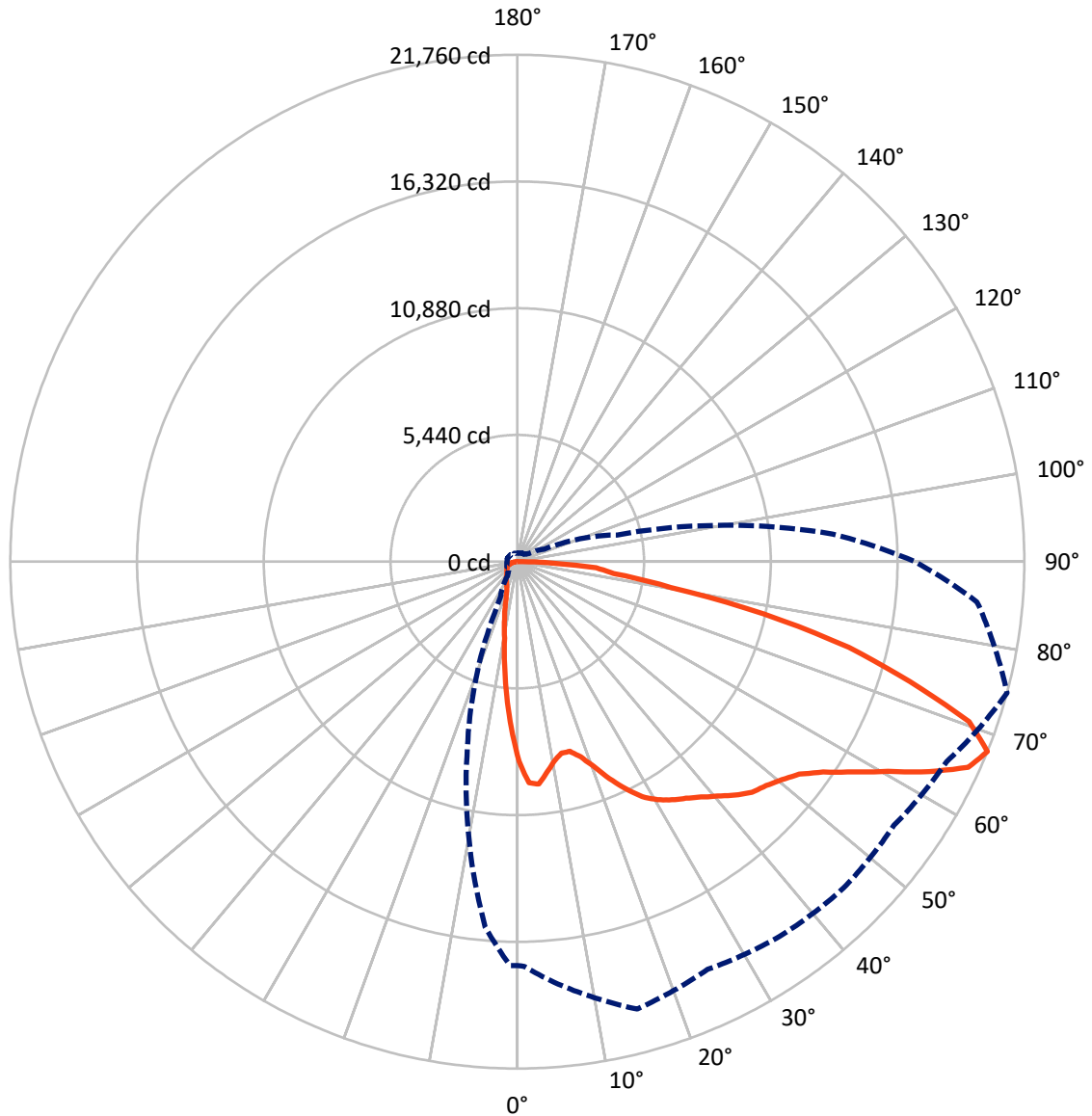
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	4640.7	0.0	4640.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	22815.3	0.0	22815.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	27456.0	0.0	27456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.6	2.4
10°-20°	1356.9	4.9
20°-30°	1952.6	7.1
30°-40°	2812.2	10.2
40°-50°	3950.4	14.4
50°-60°	5509.4	20.1
60°-70°	6550.3	23.9
70°-80°	3857.8	14.1
80°-90°	815.8	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°	27456.0	100.0
0°-180°	27456.0	100.0

**Coefficient of Utilization**



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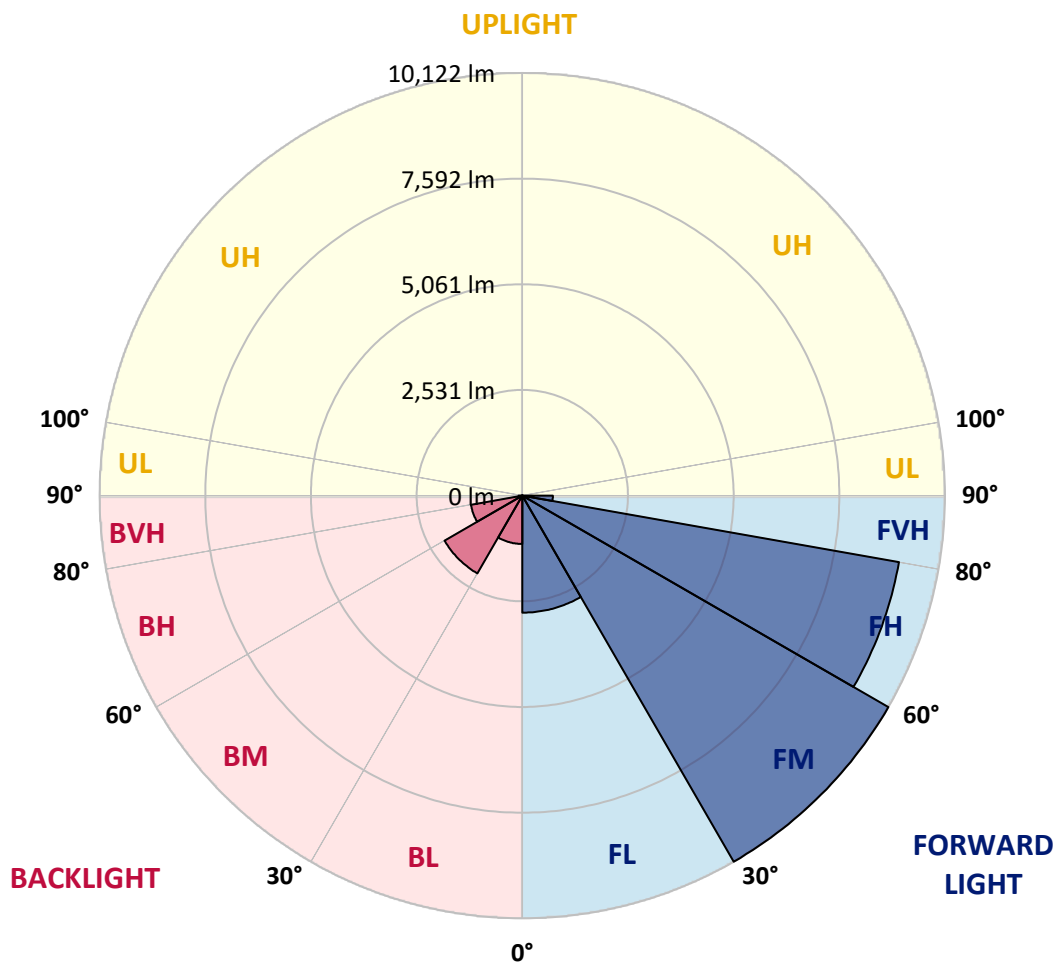
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2802.5	10.2			
FM	(30°-60°)	10122.0	36.9			
FH	(60°-80°)	9159.4	33.4			G4/12000
FVH	(80°-90°)	731.4	2.7			G4/750
BL	(0°-30°)	1157.5	4.2	B3/2500		
BM	(30°-60°)	2150.0	7.8	B2/2500		
BH	(60°-80°)	1248.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	84.4	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9
2.5°	9248.7	9261.0	9340.3	9570.9	9729.4	9787.5	9828.0	9752.3	9678.3	9498.7	9227.6
5°	9220.5	9292.7	9498.7	10016.4	10424.8	10600.9	10653.7	10426.6	10051.6	9590.3	9035.7
7.5°	8681.8	8778.6	9095.5	9963.5	10683.6	11095.6	11041.1	10630.8	9954.7	9132.5	8357.8
10°	8042.7	8150.1	8532.1	9581.5	10509.3	11076.3	11076.3	10576.2	9678.3	8701.1	7808.5
12.5°	7535.6	7648.3	8084.9	9188.9	10146.6	10683.6	10773.4	10343.8	9479.4	8428.2	7447.6
15°	7368.3	7477.5	7947.6	8951.2	9762.8	10090.3	10120.2	9979.4	9382.5	8447.6	7431.7
17.5°	7576.1	7716.9	8192.3	9021.6	9410.7	9430.1	9452.9	9563.9	9393.1	8801.5	7752.2
20°	8176.5	8327.9	8824.4	9248.7	9102.6	8901.9	8914.2	9199.4	9518.1	9386.0	8518.0
22.5°	9042.7	9174.8	9683.6	9648.4	8972.3	8558.5	8472.3	8870.2	9703.0	10115.0	9333.2
25°	9977.6	10132.6	10717.1	10241.7	9009.3	8354.3	8299.7	8676.5	9894.9	10796.3	10275.2
27.5°	11048.1	11199.5	11660.8	10840.3	9202.9	8338.5	8273.3	8658.9	10067.4	11426.6	11174.9
30°	11843.9	11983.0	12296.4	11343.9	9440.6	8444.1	8363.1	8798.0	10215.3	11858.0	12051.7
32.5°	12468.9	12613.3	12784.1	11657.3	9754.0	8636.0	8486.4	9051.5	10409.0	12187.2	12701.4
35°	13120.4	13291.2	13278.8	11935.5	10046.3	8857.8	8711.7	9417.7	10713.6	12474.2	13525.3
37.5°	13946.1	14014.8	13926.8	12185.5	10396.7	9257.5	9176.5	9961.8	11146.7	12821.1	14488.4
40°	14784.2	14921.5	14469.1	12488.3	10822.7	10009.3	10000.5	10766.4	11660.8	13227.8	15421.6
42.5°	15502.6	15618.8	14976.1	12752.4	11338.6	10926.6	10993.5	11845.7	12335.1	13699.6	16171.6
45°	16043.1	16147.0	15444.5	13007.7	12018.2	11986.5	12380.9	13002.4	13185.5	14124.0	16611.8
47.5°	16502.6	16603.0	15770.2	13395.1	12858.1	13252.4	13939.1	14208.5	13912.7	14366.9	17104.7
50°	16889.9	16919.9	15993.8	13856.3	13900.4	14803.6	15469.1	15643.4	14631.0	14715.5	17532.6
52.5°	17293.1	17254.4	16379.4	14437.4	15027.2	16275.5	16759.7	16941.0	15319.4	15145.1	18155.9
55°	18196.4	18233.3	17243.8	15169.8	16166.3	17721.0	18358.3	18184.0	16081.8	15935.7	18948.2
57.5°	19288.0	19256.3	18460.5	16316.0	17326.6	19066.1	19541.5	19261.5	17099.5	17022.0	19751.0
60°	19712.3	19754.5	19478.1	17548.4	18471.0	20244.0	20729.9	20295.1	18319.6	18284.4	20356.7
62.5°	19286.2	19523.9	19710.5	18645.3	19446.4	21110.2	21592.7	21096.2	19592.6	19847.8	20781.0
65°	18437.6	18488.6	19124.2	19574.9	19916.5	21252.8	21504.6	21240.5	20656.0	21272.2	20761.6
67.5°	17335.4	17379.4	18124.2	19879.5	19310.8	19633.0	19809.1	19731.6	20326.7	21759.9	19805.6
70°	16286.0	16250.8	17037.8	19103.1	16810.7	16321.3	16467.4	16224.4	17539.6	20568.0	17930.5
72.5°	14243.7	14370.5	15215.6	16944.5	13310.5	12514.7	12833.4	12204.9	13490.1	17615.3	14553.6
75°	11157.3	11187.2	12597.5	14220.8	10041.0	8785.7	9217.0	8954.7	10333.3	14694.4	10049.8
77.5°	7725.7	7658.8	9174.8	10861.5	7160.6	6431.7	6438.7	6313.7	7215.2	10819.2	6827.8
80°	4906.9	4804.8	5743.3	6709.9	4921.0	5264.4	5091.8	5086.5	4697.4	6674.6	4128.7
82.5°	2651.5	2764.2	3628.7	4206.2	3530.1	4068.9	3729.1	3619.9	3223.8	4178.0	2641.0
85°	1207.8	1313.4	1935.0	2861.1	2681.5	2711.4	1811.7	2137.4	2667.4	3392.8	1410.3
87.5°	118.0	151.4	399.7	1350.4	915.5	721.9	269.4	519.4	670.8	1206.0	112.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9
2.5°	9116.7	9025.1	8713.5	8456.4	8183.5	7975.8	7704.6	7523.3	7398.3	7209.9	7187.0
5°	8697.6	8474.0	7931.7	7378.9	6901.8	6542.6	6178.1	5843.6	5646.4	5584.8	5505.6
7.5°	7991.6	7614.8	6917.6	6283.8	5736.2	5201.0	4789.0	4496.7	4301.3	4186.8	4049.5
10°	7410.6	6973.9	6125.3	5348.9	4898.1	4565.4	4202.7	3889.3	3648.1	3442.1	3329.4
12.5°	7019.7	6526.7	5572.5	4942.2	4593.5	4239.7	3815.3	3463.2	3107.6	2873.4	2773.0
15°	6901.8	6380.6	5401.7	4739.7	4239.7	3776.6	3301.2	2841.7	2489.6	2267.7	2193.8
17.5°	7190.5	6560.2	5399.9	4470.3	3824.1	3271.3	2662.1	2230.7	1869.8	1704.3	1651.5
20°	7729.3	6905.3	5415.8	4204.4	3373.4	2595.2	1936.7	1582.8	1410.3	1339.9	1313.4
22.5°	8481.1	7431.7	5463.3	3942.1	2880.4	1993.1	1450.8	1271.2	1209.6	1197.2	1192.0
25°	9407.2	8083.2	5623.5	3706.2	2464.9	1521.2	1213.1	1132.1	1096.9	1084.6	1082.8
27.5°	10259.3	8924.8	5817.2	3503.7	2063.5	1311.7	1096.9	1028.2	993.0	991.2	994.8
30°	11028.7	9629.0	5979.2	3276.6	1758.9	1165.6	1021.2	952.5	919.1	917.3	927.9
32.5°	11694.3	10208.3	6098.9	3053.0	1589.9	1075.8	952.5	878.6	850.4	845.1	850.4
35°	12405.6	10785.8	6044.3	2878.7	1493.0	1001.8	901.5	829.3	795.8	780.0	780.0
37.5°	13217.2	11380.9	5951.0	2734.3	1449.0	940.2	857.4	787.0	753.6	737.7	736.0
40°	14102.8	11976.0	5822.5	2605.8	1405.0	903.2	827.5	753.6	713.1	697.2	693.7
42.5°	14884.6	12484.8	5716.8	2521.3	1332.8	910.3	801.1	728.9	677.9	656.7	655.0
45°	15564.2	12997.1	5697.5	2472.0	1273.0	899.7	794.1	709.5	649.7	626.8	623.3
47.5°	16095.9	13530.6	5808.4	2443.8	1207.8	843.4	839.8	697.2	625.0	600.4	596.9
50°	16743.8	14287.7	6061.9	2385.7	1147.9	790.5	887.4	695.5	605.7	574.0	565.2
52.5°	17606.5	15273.7	6405.3	2281.8	1061.7	741.2	846.9	695.5	582.8	551.1	540.5
55°	18911.2	16530.8	6741.5	2135.7	940.2	676.1	764.1	674.3	549.3	521.2	514.1
57.5°	19775.7	17449.8	6956.3	1933.2	788.8	628.6	658.5	640.9	515.9	485.9	485.9
60°	19819.7	17696.3	6854.2	1677.9	693.7	584.5	572.2	646.2	485.9	454.2	450.7
62.5°	19312.6	17092.4	6322.5	1449.0	642.6	537.0	517.6	566.9	456.0	424.3	419.0
65°	18520.3	15551.9	5399.9	1339.9	614.5	494.7	466.6	464.8	424.3	394.4	387.3
67.5°	17064.3	13590.5	4436.8	1276.5	600.4	447.2	420.8	412.0	387.3	362.7	359.2
70°	14918.0	11382.6	3558.3	1250.1	593.3	397.9	376.8	366.2	345.1	325.7	324.0
72.5°	11606.2	9232.9	2936.8	1232.5	589.8	352.1	329.2	315.2	302.8	285.2	285.2
75°	8336.7	6792.6	2241.3	1111.0	545.8	302.8	278.2	269.4	251.8	237.7	241.2
77.5°	5255.6	4574.2	1475.4	816.9	422.6	243.0	221.8	216.6	202.5	183.1	195.4
80°	3549.5	3216.7	861.0	514.1	265.9	177.8	170.8	169.0	153.2	132.0	133.8
82.5°	2415.6	2369.8	447.2	292.3	153.2	103.9	100.4	103.9	86.3	70.4	70.4
85°	943.7	1288.8	211.3	114.4	49.3	15.8	22.9	24.6	14.1	7.0	8.8
87.5°	17.6	132.0	5.3	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°	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9
2.5°	7151.8	7135.9	7162.3	7049.7	7072.5	7114.8	7135.9	7148.3	7322.6	7282.1	7393.0
5°	5579.5	5563.7	5665.8	5679.9	5732.7	5722.1	5773.2	5785.5	5848.9	5871.8	6026.7
7.5°	4058.3	4127.0	4243.2	4303.0	4392.8	4421.0	4394.6	4459.7	4327.7	4422.8	4450.9
10°	3260.7	3178.0	3128.7	3266.0	3283.6	3413.9	3361.1	3318.8	3396.3	3399.8	3473.8
12.5°	2714.9	2537.1	2419.1	2457.9	2500.1	2556.5	2565.3	2649.8	2706.1	2758.9	2803.0
15°	2128.6	2067.0	1959.6	1906.8	1966.7	1989.5	2044.1	2114.5	2174.4	2190.3	2250.1
17.5°	1633.9	1644.5	1626.8	1595.2	1632.1	1649.7	1653.3	1655.0	1670.9	1660.3	1748.3
20°	1315.2	1352.2	1396.2	1403.2	1415.6	1424.4	1408.5	1348.7	1350.4	1387.4	1415.6
22.5°	1190.2	1197.2	1246.5	1262.4	1301.1	1285.3	1239.5	1211.3	1207.8	1216.6	1230.7
25°	1091.6	1102.2	1137.4	1162.0	1192.0	1163.8	1130.3	1103.9	1100.4	1109.2	1123.3
27.5°	1003.6	1019.4	1051.1	1075.8	1103.9	1077.5	1045.8	1022.9	1021.2	1019.4	1028.2
30°	933.1	950.8	973.6	1001.8	1021.2	998.3	968.4	956.0	954.3	950.8	954.3
32.5°	862.7	890.9	913.8	927.9	947.2	929.6	906.7	899.7	887.4	876.8	871.5
35°	783.5	813.4	848.6	866.2	885.6	868.0	852.2	822.2	801.1	799.3	802.9
37.5°	737.7	750.0	778.2	808.1	827.5	818.7	788.8	758.8	753.6	753.6	757.1
40°	697.2	702.5	714.8	753.6	788.8	762.4	725.4	716.6	716.6	714.8	716.6
42.5°	656.7	662.0	662.0	691.9	748.3	706.0	677.9	677.9	677.9	679.6	684.9
45°	619.8	621.5	619.8	640.9	693.7	658.5	639.1	644.4	647.9	651.4	655.0
47.5°	588.1	589.8	588.1	605.7	632.1	618.0	607.4	614.5	621.5	626.8	630.3
50°	559.9	558.1	561.6	572.2	584.5	588.1	581.0	591.6	595.1	602.1	610.9
52.5°	535.2	533.5	537.0	542.3	559.9	559.9	559.9	568.7	575.7	582.8	595.1
55°	507.1	508.8	514.1	521.2	544.0	540.5	542.3	549.3	556.4	566.9	574.0
57.5°	480.7	484.2	491.2	501.8	524.7	522.9	524.7	528.2	537.0	542.3	549.3
60°	450.7	457.8	466.6	473.6	496.5	494.7	503.5	510.6	515.9	515.9	519.4
62.5°	420.8	431.4	440.2	445.4	470.1	471.9	484.2	489.5	493.0	489.5	494.7
65°	390.9	406.7	410.2	417.3	441.9	443.7	457.8	470.1	466.6	463.1	471.9
67.5°	360.9	380.3	378.5	387.3	412.0	415.5	427.8	449.0	441.9	438.4	445.4
70°	327.5	341.6	343.3	348.6	382.1	376.8	396.1	415.5	410.2	412.0	412.0
72.5°	290.5	302.8	302.8	313.4	348.6	339.8	355.7	376.8	376.8	375.0	375.0
75°	246.5	253.5	260.6	276.4	313.4	302.8	313.4	332.8	336.3	332.8	332.8
77.5°	199.0	209.5	213.0	234.2	260.6	258.8	269.4	278.2	285.2	281.7	281.7
80°	140.9	151.4	165.5	188.4	204.2	209.5	214.8	221.8	225.4	225.4	228.9
82.5°	79.2	95.1	107.4	130.3	137.3	163.7	162.0	167.3	162.0	142.6	158.5
85°	17.6	33.5	47.5	59.9	68.7	95.1	100.4	112.7	93.3	86.3	86.3
87.5°	0.0	0.0	0.0	0.0	0.0	14.1	28.2	38.7	33.5	28.2	28.2
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°	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9	8577.9
2.5°	7486.3	7639.5	7824.3	8143.0	8366.6	8607.8	8850.8	9109.6	9178.3	9248.7
5°	6069.0	6370.0	6533.8	6961.6	7410.6	7981.0	8447.6	8958.2	9171.2	9220.5
7.5°	4597.1	4801.3	5230.9	5664.0	6220.4	6819.0	7533.8	8329.7	8577.9	8681.8
10°	3644.6	3922.7	4299.5	4764.3	5252.0	5896.4	6702.8	7632.4	7984.6	8042.7
12.5°	3102.3	3412.1	3822.4	4313.6	4774.9	5260.8	6074.3	7033.8	7410.6	7535.6
15°	2480.8	2855.8	3329.4	3847.0	4348.8	4880.5	5704.5	6787.3	7222.2	7368.3
17.5°	1949.0	2251.9	2764.2	3325.9	3921.0	4593.5	5627.0	6905.3	7440.5	7576.1
20°	1491.3	1707.8	2139.2	2732.5	3429.8	4310.1	5646.4	7350.7	7991.6	8176.5
22.5°	1288.8	1399.7	1662.1	2227.2	3007.2	4063.6	5725.6	7961.7	8734.6	9042.7
25°	1167.3	1225.4	1373.3	1743.0	2604.0	3824.1	5907.0	8783.9	9773.4	9977.6
27.5°	1063.4	1105.7	1197.2	1463.1	2237.8	3602.3	6118.3	9695.9	10743.5	11048.1
30°	964.8	1021.2	1107.5	1299.4	2003.6	3399.8	6384.1	10435.4	11560.5	11843.9
32.5°	889.1	945.5	1024.7	1184.9	1804.7	3186.8	6542.6	11085.1	12227.7	12468.9
35°	827.5	875.0	957.8	1093.4	1653.3	3024.8	6510.9	11600.9	12873.9	13120.4
37.5°	783.5	824.0	906.7	1007.1	1538.8	2855.8	6495.1	12282.3	13660.9	13946.1
40°	743.0	785.3	861.0	950.8	1424.4	2656.8	6503.9	12958.4	14499.0	14784.2
42.5°	711.3	758.8	820.5	934.9	1306.4	2496.6	6503.9	13546.5	15227.9	15502.6
45°	684.9	736.0	795.8	933.1	1213.1	2375.1	6459.8	14051.8	15808.9	16043.1
47.5°	662.0	718.3	804.6	901.5	1190.2	2287.1	6421.1	14456.7	16282.5	16502.6
50°	646.2	713.1	855.7	864.5	1197.2	2260.7	6607.7	14967.3	16699.8	16889.9
52.5°	633.8	714.8	853.9	809.9	1184.9	2278.3	6996.8	15764.9	17279.1	17293.1
55°	609.2	713.1	809.9	748.3	1133.9	2308.2	7496.9	16923.4	18185.8	18196.4
57.5°	584.5	693.7	751.8	695.5	1030.0	2308.2	8099.0	18020.3	19279.2	19288.0
60°	559.9	721.9	660.2	649.7	894.4	2266.0	8734.6	18502.7	19622.5	19712.3
62.5°	535.2	727.1	589.8	609.2	795.8	2163.8	9208.2	17969.2	19157.7	19286.2
65°	507.1	586.3	544.0	566.9	744.8	1993.1	9058.6	16992.1	18284.4	18437.6
67.5°	473.6	496.5	494.7	522.9	727.1	1741.3	8269.8	15756.1	17344.2	17335.4
70°	433.1	445.4	450.7	480.7	693.7	1545.9	6891.2	14152.1	16088.9	16286.0
72.5°	390.9	401.4	406.7	433.1	660.2	1434.9	5348.9	11942.5	13935.6	14243.7
75°	345.1	352.1	359.2	382.1	625.0	1271.2	3810.1	9116.7	10673.1	11157.3
77.5°	297.6	297.6	306.4	329.2	526.4	1049.3	2556.5	6394.7	7231.0	7725.7
80°	241.2	243.0	239.4	264.1	387.3	718.3	1452.5	4271.3	4811.9	4906.9
82.5°	184.9	179.6	181.3	193.7	288.7	489.5	774.7	2653.3	2704.4	2651.5
85°	116.2	116.2	112.7	126.8	184.9	255.3	422.6	1625.1	1269.4	1207.8
87.5°	47.5	38.7	44.0	51.1	88.0	103.9	165.5	334.5	128.5	118.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)