

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: P453248

Luminaire Tested: **GALN-SA4B-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453248  
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-SA4B-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 17671 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 164  
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

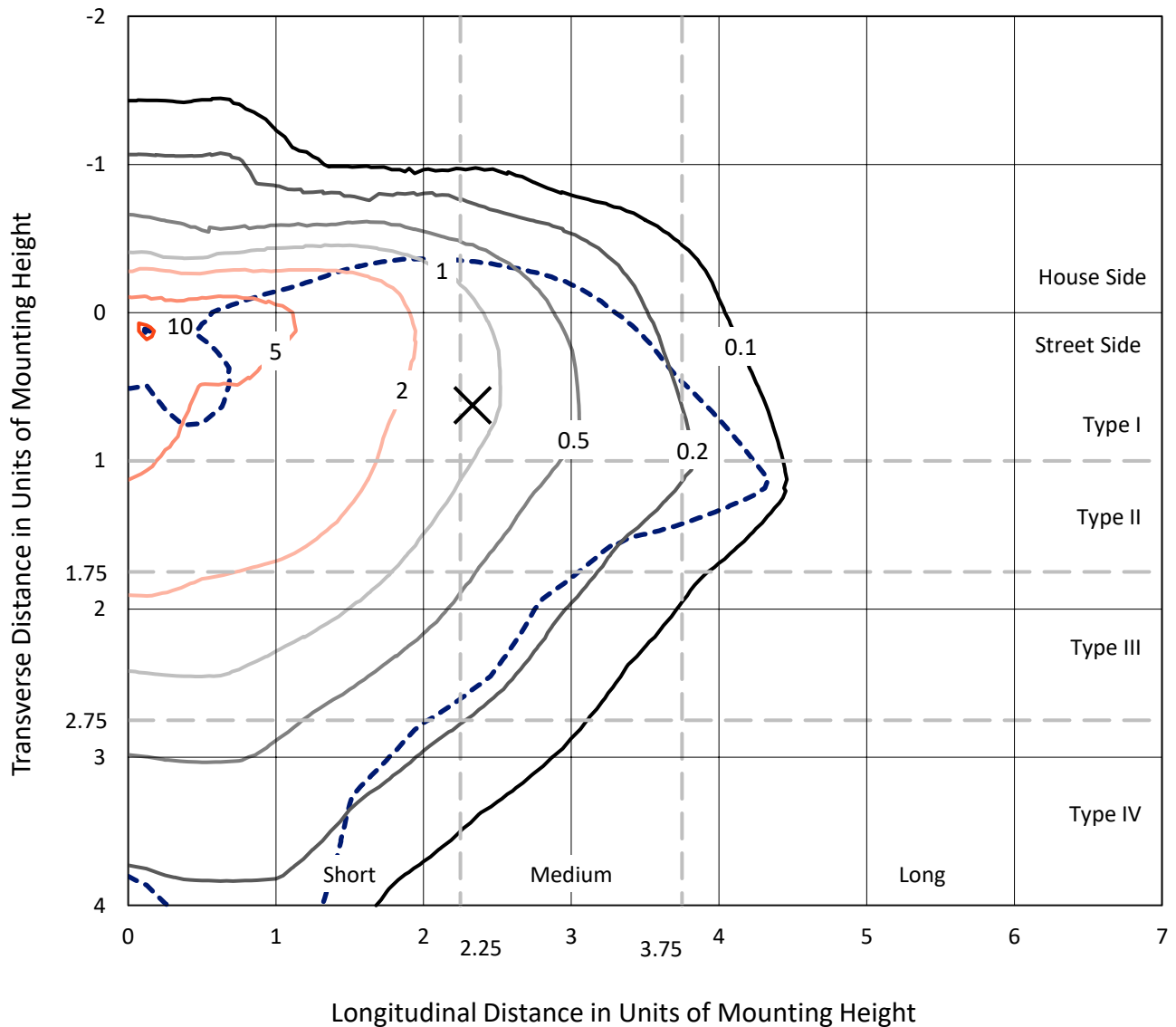




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### Iso-Footcandle Lines of Horizontal Illumination

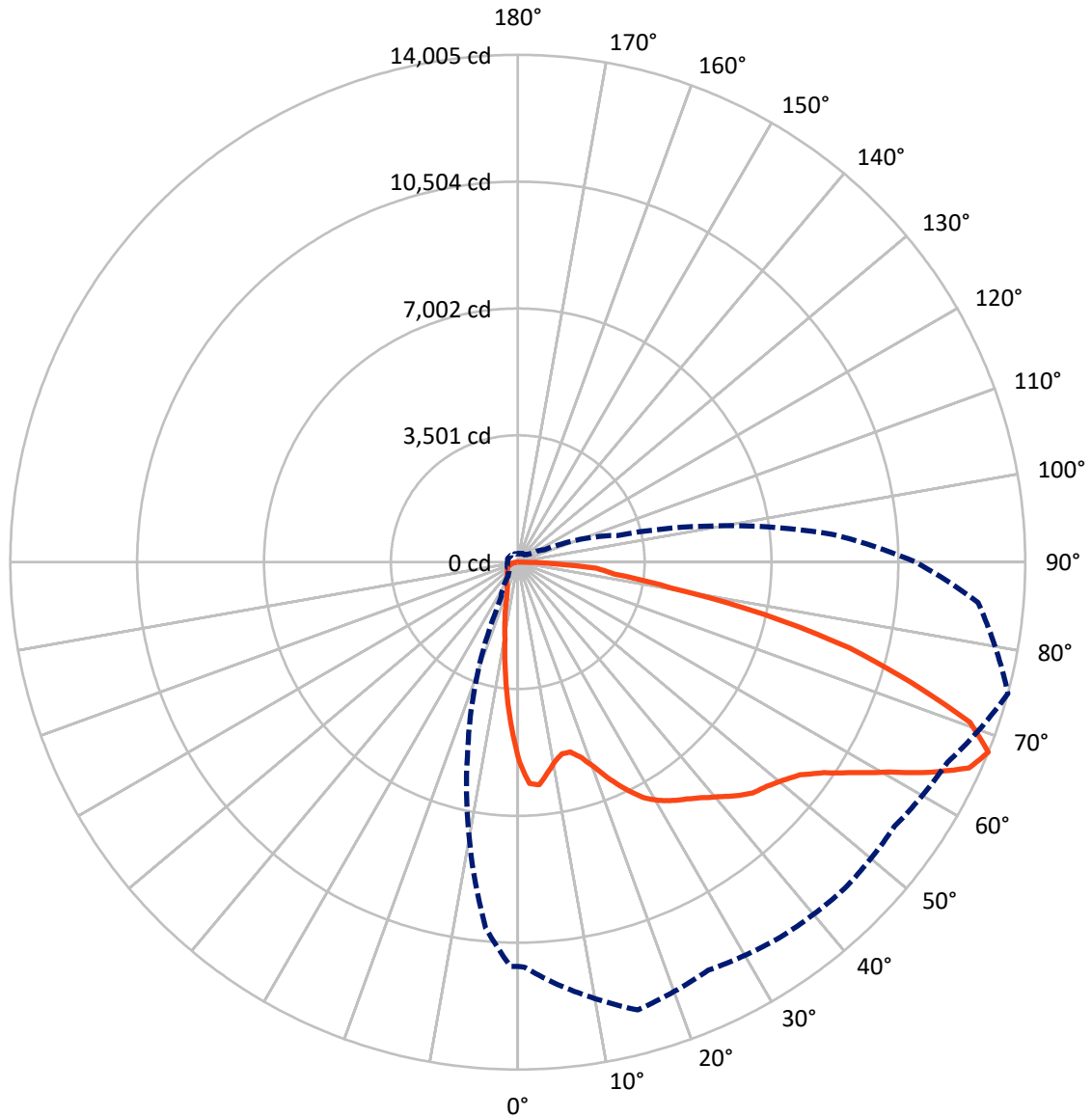
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	2986.8	0.0	2986.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	14684.2	0.0	14684.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	17671.0	0.0	17671.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.7	2.4
10°-20°	873.3	4.9
20°-30°	1256.7	7.1
30°-40°	1810.0	10.2
40°-50°	2542.5	14.4
50°-60°	3545.9	20.1
60°-70°	4215.9	23.9
70°-80°	2482.9	14.1
80°-90°	525.0	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°	17671.0	100.0
0°-180°	17671.0	100.0



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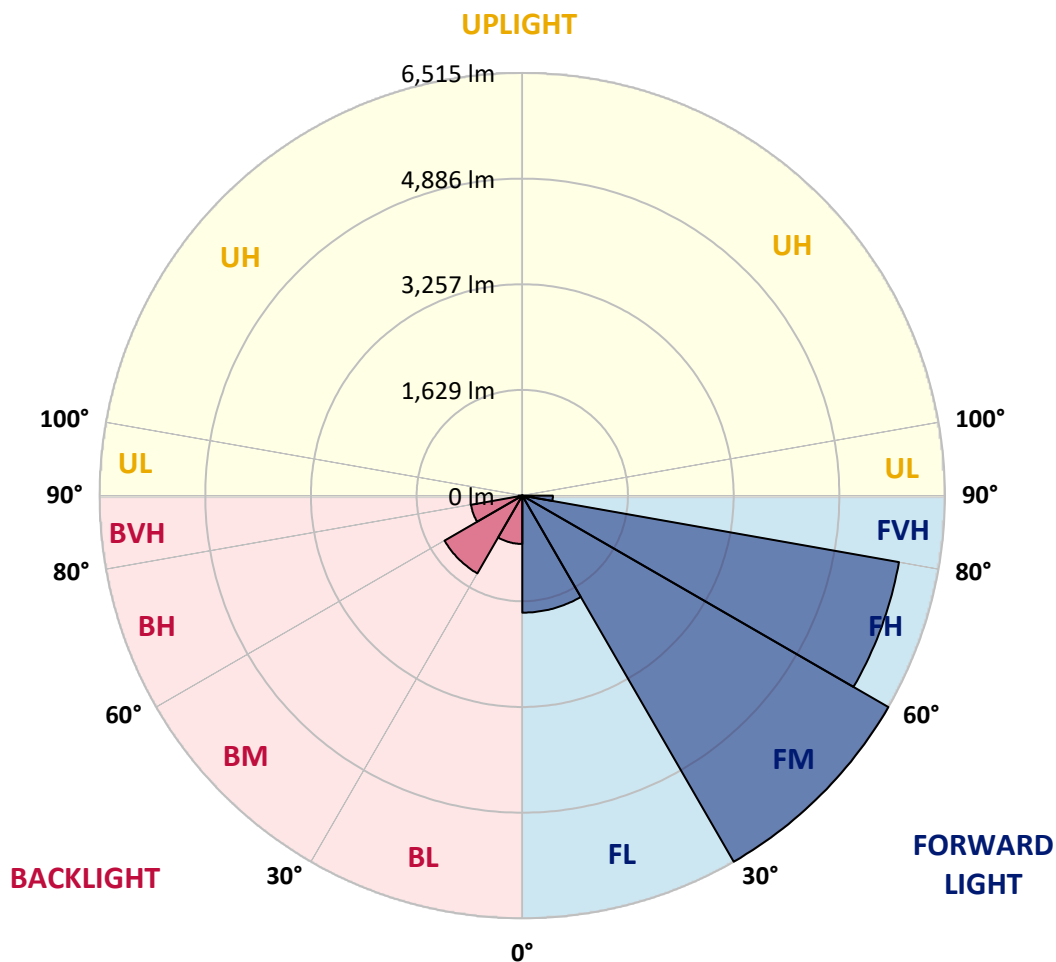
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.7	10.2			
FM	(30°-60°)	6514.6	36.9			
FH	(60°-80°)	5895.1	33.4			G3/7500
FVH	(80°-90°)	470.7	2.7			G3/500
BL	(0°-30°)	745.0	4.2	B2/1000		
BM	(30°-60°)	1383.8	7.8	B2/2500		
BH	(60°-80°)	803.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	54.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	5952.6	5960.5	6011.5	6160.0	6261.9	6299.3	6325.4	6276.7	6229.1	6113.5	5939.0
5°	5934.4	5980.9	6113.5	6446.6	6709.5	6822.9	6856.9	6710.7	6469.3	6172.4	5815.5
7.5°	5587.7	5650.0	5854.0	6412.6	6876.1	7141.3	7106.2	6842.1	6407.0	5877.8	5379.2
10°	5176.4	5245.5	5491.4	6166.7	6763.9	7128.8	7128.8	6807.0	6229.1	5600.2	5025.6
12.5°	4850.0	4922.5	5203.5	5914.1	6530.5	6876.1	6933.9	6657.4	6101.0	5424.5	4793.3
15°	4742.3	4812.6	5115.2	5761.1	6283.5	6494.2	6513.5	6422.8	6038.7	5437.0	4783.1
17.5°	4876.1	4966.7	5272.7	5806.4	6056.8	6069.3	6084.0	6155.4	6045.5	5664.8	4989.4
20°	5262.5	5359.9	5679.5	5952.6	5858.5	5729.3	5737.3	5920.9	6126.0	6041.0	5482.3
22.5°	5820.0	5905.0	6232.5	6209.8	5774.7	5508.4	5452.8	5708.9	6244.9	6510.1	6007.0
25°	6421.7	6521.4	6897.6	6591.7	5798.5	5376.9	5341.8	5584.3	6368.5	6948.6	6613.2
27.5°	7110.7	7208.1	7505.0	6977.0	5923.1	5366.7	5324.8	5573.0	6479.5	7354.3	7192.3
30°	7622.9	7712.4	7914.1	7301.1	6076.1	5434.7	5382.6	5662.5	6574.7	7631.9	7756.6
32.5°	8025.2	8118.1	8228.0	7502.8	6277.8	5558.2	5461.9	5825.7	6699.3	7843.9	8174.7
35°	8444.4	8554.4	8546.4	7681.8	6465.9	5701.0	5607.0	6061.4	6895.4	8028.6	8705.1
37.5°	8975.9	9020.1	8963.4	7842.7	6691.4	5958.2	5906.1	6411.5	7174.1	8251.8	9324.9
40°	9515.3	9603.7	9312.4	8037.6	6965.6	6442.1	6436.4	6929.4	7505.0	8513.6	9925.5
42.5°	9977.6	10052.4	9638.8	8207.6	7297.7	7032.5	7075.6	7624.0	7939.0	8817.3	10408.2
45°	10325.5	10392.4	9940.2	8371.9	7735.1	7714.7	7968.5	8368.5	8486.4	9090.3	10691.5
47.5°	10621.3	10685.9	10149.9	8621.2	8275.6	8529.4	8971.4	9144.7	8954.4	9246.7	11008.8
50°	10870.6	10889.8	10293.8	8918.1	8946.4	9527.8	9956.1	10068.3	9416.7	9471.1	11284.2
52.5°	11130.1	11105.1	10541.9	9292.1	9671.7	10475.1	10786.7	10903.4	9859.8	9747.6	11685.3
55°	11711.4	11735.2	11098.3	9763.5	10404.8	11405.4	11815.6	11703.5	10350.4	10256.4	12195.3
57.5°	12414.0	12393.6	11881.4	10501.2	11151.6	12271.2	12577.1	12397.0	11005.4	10955.6	12712.0
60°	12687.1	12714.2	12536.3	11294.4	11888.2	13029.3	13342.0	13062.1	11790.7	11768.0	13101.8
62.5°	12412.8	12565.8	12685.9	12000.3	12515.9	13586.8	13897.3	13577.7	12610.0	12774.3	13374.9
65°	11866.6	11899.5	12308.6	12598.7	12818.5	13678.6	13840.6	13670.6	13294.4	13691.0	13362.4
67.5°	11157.3	11185.6	11664.9	12794.7	12428.7	12636.1	12749.4	12699.5	13082.5	14004.9	12747.1
70°	10481.9	10459.2	10965.8	12295.0	10819.6	10504.6	10598.6	10442.2	11288.7	13237.8	11540.3
72.5°	9167.4	9249.0	9792.9	10905.7	8566.8	8054.6	8259.7	7855.2	8682.4	11337.4	9366.8
75°	7180.9	7200.2	8107.9	9152.7	6462.5	5654.6	5932.2	5763.3	6650.6	9457.5	6468.2
77.5°	4972.4	4929.3	5905.0	6990.6	4608.6	4139.5	4144.0	4063.6	4643.8	6963.4	4394.5
80°	3158.2	3092.4	3696.4	4318.5	3167.2	3388.2	3277.1	3273.7	3023.3	4295.9	2657.3
82.5°	1706.6	1779.1	2335.5	2707.2	2272.0	2618.8	2400.1	2329.8	2074.8	2689.0	1699.8
85°	777.4	845.4	1245.4	1841.4	1725.8	1745.1	1166.0	1375.7	1716.8	2183.6	907.7
87.5°	75.9	97.5	257.2	869.1	589.3	464.6	173.4	334.3	431.7	776.2	72.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	5867.6	5808.7	5608.1	5442.6	5267.0	5133.3	4958.8	4842.1	4761.6	4640.4	4625.6
5°	5597.9	5454.0	5105.0	4749.1	4442.1	4210.9	3976.3	3761.0	3634.1	3594.4	3543.4
7.5°	5143.5	4901.0	4452.3	4044.3	3691.9	3347.4	3082.2	2894.1	2768.4	2694.7	2606.3
10°	4769.5	4488.5	3942.3	3442.6	3152.5	2938.3	2704.9	2503.2	2347.9	2215.4	2142.8
12.5°	4518.0	4200.7	3586.5	3180.8	2956.5	2728.7	2455.6	2229.0	2000.1	1849.3	1784.8
15°	4442.1	4106.6	3476.6	3050.5	2728.7	2430.7	2124.7	1828.9	1602.3	1459.5	1411.9
17.5°	4627.9	4222.2	3475.5	2877.1	2461.3	2105.4	1713.4	1435.7	1203.4	1096.9	1062.9
20°	4974.6	4444.3	3485.7	2706.0	2171.2	1670.3	1246.5	1018.7	907.7	862.3	845.4
22.5°	5458.5	4783.1	3516.2	2537.2	1853.9	1282.8	933.7	818.2	778.5	770.6	767.2
25°	6054.6	5202.4	3619.4	2385.3	1586.4	979.1	780.8	728.6	706.0	698.0	696.9
27.5°	6603.0	5744.1	3744.0	2255.0	1328.1	844.2	706.0	661.8	639.1	638.0	640.2
30°	7098.2	6197.3	3848.3	2108.8	1132.0	750.2	657.2	613.0	591.5	590.4	597.2
32.5°	7526.6	6570.2	3925.3	1964.9	1023.3	692.4	613.0	565.5	547.3	543.9	547.3
35°	7984.4	6941.8	3890.2	1852.7	960.9	644.8	580.2	533.7	512.2	502.0	502.0
37.5°	8506.8	7324.9	3830.1	1759.8	932.6	605.1	551.9	506.5	485.0	474.8	473.7
40°	9076.7	7707.9	3747.4	1677.1	904.3	581.3	532.6	485.0	458.9	448.7	446.5
42.5°	9579.9	8035.4	3679.4	1622.7	857.8	585.9	515.6	469.1	436.3	422.7	421.5
45°	10017.3	8365.1	3667.0	1591.0	819.3	579.1	511.1	456.7	418.1	403.4	401.1
47.5°	10359.5	8708.5	3738.4	1572.8	777.4	542.8	540.5	448.7	402.3	386.4	384.1
50°	10776.5	9195.7	3901.5	1535.5	738.8	508.8	571.1	447.6	389.8	369.4	363.7
52.5°	11331.8	9830.3	4122.5	1468.6	683.3	477.1	545.1	447.6	375.1	354.7	347.9
55°	12171.5	10639.4	4338.9	1374.5	605.1	435.1	491.8	434.0	353.6	335.4	330.9
57.5°	12727.8	11230.9	4477.2	1244.2	507.7	404.5	423.8	412.5	332.0	312.8	312.8
60°	12756.2	11389.6	4411.5	1079.9	446.5	376.2	368.3	415.9	312.8	292.4	290.1
62.5°	12429.8	11000.9	4069.2	932.6	413.6	345.6	333.2	364.9	293.5	273.1	269.7
65°	11919.9	10009.4	3475.5	862.3	395.5	318.4	300.3	299.2	273.1	253.8	249.3
67.5°	10982.8	8747.0	2855.6	821.6	386.4	287.8	270.8	265.2	249.3	233.4	231.2
70°	9601.4	7326.0	2290.2	804.6	381.9	256.1	242.5	235.7	222.1	209.6	208.5
72.5°	7469.9	5942.4	1890.1	793.2	379.6	226.6	211.9	202.8	194.9	183.6	183.6
75°	5365.6	4371.8	1442.5	715.0	351.3	194.9	179.0	173.4	162.0	153.0	155.2
77.5°	3382.5	2944.0	949.6	525.8	272.0	156.4	142.8	139.4	130.3	117.9	125.8
80°	2284.5	2070.3	554.1	330.9	171.1	114.5	109.9	108.8	98.6	85.0	86.1
82.5°	1554.7	1525.3	287.8	188.1	98.6	66.9	64.6	66.9	55.5	45.3	45.3
85°	607.4	829.5	136.0	73.7	31.7	10.2	14.7	15.9	9.1	4.5	5.7
87.5°	11.3	85.0	3.4	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°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	4603.0	4592.8	4609.8	4537.2	4552.0	4579.2	4592.8	4600.7	4712.9	4686.8	4758.2
5°	3591.0	3580.8	3646.6	3655.6	3689.6	3682.8	3715.7	3723.6	3764.4	3779.1	3878.9
7.5°	2612.0	2656.2	2731.0	2769.5	2827.3	2845.4	2828.4	2870.3	2785.3	2846.5	2864.7
10°	2098.6	2045.4	2013.7	2102.0	2113.4	2197.2	2163.2	2136.0	2185.9	2188.2	2235.8
12.5°	1747.4	1632.9	1557.0	1581.9	1609.1	1645.4	1651.0	1705.4	1741.7	1775.7	1804.0
15°	1370.0	1330.3	1261.2	1227.2	1265.8	1280.5	1315.6	1360.9	1399.5	1409.7	1448.2
17.5°	1051.6	1058.4	1047.1	1026.7	1050.5	1061.8	1064.1	1065.2	1075.4	1068.6	1125.2
20°	846.5	870.3	898.6	903.1	911.1	916.7	906.5	868.0	869.1	892.9	911.1
22.5°	766.0	770.6	802.3	812.5	837.4	827.2	797.8	779.6	777.4	783.0	792.1
25°	702.6	709.4	732.0	747.9	767.2	749.0	727.5	710.5	708.2	713.9	723.0
27.5°	645.9	656.1	676.5	692.4	710.5	693.5	673.1	658.4	657.2	656.1	661.8
30°	600.6	611.9	626.6	644.8	657.2	642.5	623.2	615.3	614.2	611.9	614.2
32.5°	555.3	573.4	588.1	597.2	609.6	598.3	583.6	579.1	571.1	564.3	560.9
35°	504.3	523.5	546.2	557.5	570.0	558.7	548.5	529.2	515.6	514.5	516.7
37.5°	474.8	482.7	500.9	520.1	532.6	526.9	507.7	488.4	485.0	485.0	487.3
40°	448.7	452.1	460.1	485.0	507.7	490.7	466.9	461.2	461.2	460.1	461.2
42.5°	422.7	426.1	426.1	445.3	481.6	454.4	436.3	436.3	436.3	437.4	440.8
45°	398.9	400.0	398.9	412.5	446.5	423.8	411.3	414.7	417.0	419.3	421.5
47.5°	378.5	379.6	378.5	389.8	406.8	397.7	390.9	395.5	400.0	403.4	405.7
50°	360.4	359.2	361.5	368.3	376.2	378.5	373.9	380.7	383.0	387.5	393.2
52.5°	344.5	343.4	345.6	349.0	360.4	360.4	360.4	366.0	370.5	375.1	383.0
55°	326.4	327.5	330.9	335.4	350.2	347.9	349.0	353.6	358.1	364.9	369.4
57.5°	309.4	311.6	316.2	323.0	337.7	336.6	337.7	340.0	345.6	349.0	353.6
60°	290.1	294.6	300.3	304.8	319.6	318.4	324.1	328.6	332.0	332.0	334.3
62.5°	270.8	277.6	283.3	286.7	302.6	303.7	311.6	315.0	317.3	315.0	318.4
65°	251.6	261.8	264.0	268.6	284.4	285.6	294.6	302.6	300.3	298.0	303.7
67.5°	232.3	244.8	243.6	249.3	265.2	267.4	275.4	289.0	284.4	282.2	286.7
70°	210.8	219.8	221.0	224.4	245.9	242.5	255.0	267.4	264.0	265.2	265.2
72.5°	187.0	194.9	194.9	201.7	224.4	218.7	228.9	242.5	242.5	241.4	241.4
75°	158.6	163.2	167.7	177.9	201.7	194.9	201.7	214.2	216.4	214.2	214.2
77.5°	128.0	134.8	137.1	150.7	167.7	166.6	173.4	179.0	183.6	181.3	181.3
80°	90.7	97.5	106.5	121.2	131.4	134.8	138.2	142.8	145.0	145.0	147.3
82.5°	51.0	61.2	69.1	83.9	88.4	105.4	104.3	107.7	104.3	91.8	102.0
85°	11.3	21.5	30.6	38.5	44.2	61.2	64.6	72.5	60.1	55.5	55.5
87.5°	0.0	0.0	0.0	0.0	0.0	9.1	18.1	24.9	21.5	18.1	18.1
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8	5520.8
2.5°	4818.3	4916.9	5035.8	5240.9	5384.9	5540.1	5696.5	5863.1	5907.3	5952.6
5°	3906.1	4099.8	4205.2	4480.6	4769.5	5136.7	5437.0	5765.6	5902.7	5934.4
7.5°	2958.7	3090.2	3366.7	3645.4	4003.5	4388.8	4848.9	5361.1	5520.8	5587.7
10°	2345.7	2524.7	2767.2	3066.4	3380.3	3795.0	4314.0	4912.3	5139.0	5176.4
12.5°	1996.7	2196.1	2460.1	2776.3	3073.2	3385.9	3909.5	4527.0	4769.5	4850.0
15°	1596.6	1838.0	2142.8	2476.0	2798.9	3141.2	3671.5	4368.4	4648.3	4742.3
17.5°	1254.4	1449.3	1779.1	2140.6	2523.6	2956.5	3621.6	4444.3	4788.8	4876.1
20°	959.8	1099.2	1376.8	1758.7	2207.4	2774.0	3634.1	4731.0	5143.5	5262.5
22.5°	829.5	900.9	1069.7	1433.5	1935.5	2615.4	3685.1	5124.2	5621.7	5820.0
25°	751.3	788.7	883.9	1121.8	1676.0	2461.3	3801.8	5653.4	6290.3	6421.7
27.5°	684.4	711.6	770.6	941.7	1440.3	2318.5	3937.8	6240.4	6914.6	7110.7
30°	621.0	657.2	712.8	836.3	1289.6	2188.2	4108.9	6716.3	7440.4	7622.9
32.5°	572.3	608.5	659.5	762.6	1161.5	2051.1	4210.9	7134.5	7869.9	8025.2
35°	532.6	563.2	616.4	703.7	1064.1	1946.8	4190.5	7466.5	8285.8	8444.4
37.5°	504.3	530.3	583.6	648.2	990.4	1838.0	4180.3	7905.0	8792.3	8975.9
40°	478.2	505.4	554.1	611.9	916.7	1710.0	4186.0	8340.2	9331.7	9515.3
42.5°	457.8	488.4	528.1	601.7	840.8	1606.8	4186.0	8718.7	9800.8	9977.6
45°	440.8	473.7	512.2	600.6	780.8	1528.7	4157.6	9043.9	10174.8	10325.5
47.5°	426.1	462.3	517.9	580.2	766.0	1472.0	4132.7	9304.5	10479.6	10621.3
50°	415.9	458.9	550.7	556.4	770.6	1455.0	4252.8	9633.1	10748.2	10870.6
52.5°	407.9	460.1	549.6	521.3	762.6	1466.3	4503.2	10146.5	11121.0	11130.1
55°	392.1	458.9	521.3	481.6	729.8	1485.6	4825.1	10892.1	11704.6	11711.4
57.5°	376.2	446.5	483.9	447.6	662.9	1485.6	5212.6	11598.1	12408.3	12414.0
60°	360.4	464.6	424.9	418.1	575.7	1458.4	5621.7	11908.6	12629.3	12687.1
62.5°	344.5	468.0	379.6	392.1	512.2	1392.7	5926.5	11565.2	12330.1	12412.8
65°	326.4	377.3	350.2	364.9	479.3	1282.8	5830.2	10936.3	11768.0	11866.6
67.5°	304.8	319.6	318.4	336.6	468.0	1120.7	5322.5	10140.8	11162.9	11157.3
70°	278.8	286.7	290.1	309.4	446.5	994.9	4435.3	9108.5	10355.0	10481.9
72.5°	251.6	258.4	261.8	278.8	424.9	923.5	3442.6	7686.3	8969.1	9167.4
75°	222.1	226.6	231.2	245.9	402.3	818.2	2452.2	5867.6	6869.3	7180.9
77.5°	191.5	191.5	197.2	211.9	338.8	675.4	1645.4	4115.7	4654.0	4972.4
80°	155.2	156.4	154.1	170.0	249.3	462.3	934.9	2749.1	3097.0	3158.2
82.5°	119.0	115.6	116.7	124.6	185.8	315.0	498.6	1707.7	1740.6	1706.6
85°	74.8	74.8	72.5	81.6	119.0	164.3	272.0	1045.9	817.0	777.4
87.5°	30.6	24.9	28.3	32.9	56.7	66.9	106.5	215.3	82.7	75.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)