

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: P454408

Luminaire Tested: **GALN-SA5C-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454408  
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-SA5C-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA 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: 27639 lumens  
Efficiency: N/A  
Efficacy: 102.7 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): 269  
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

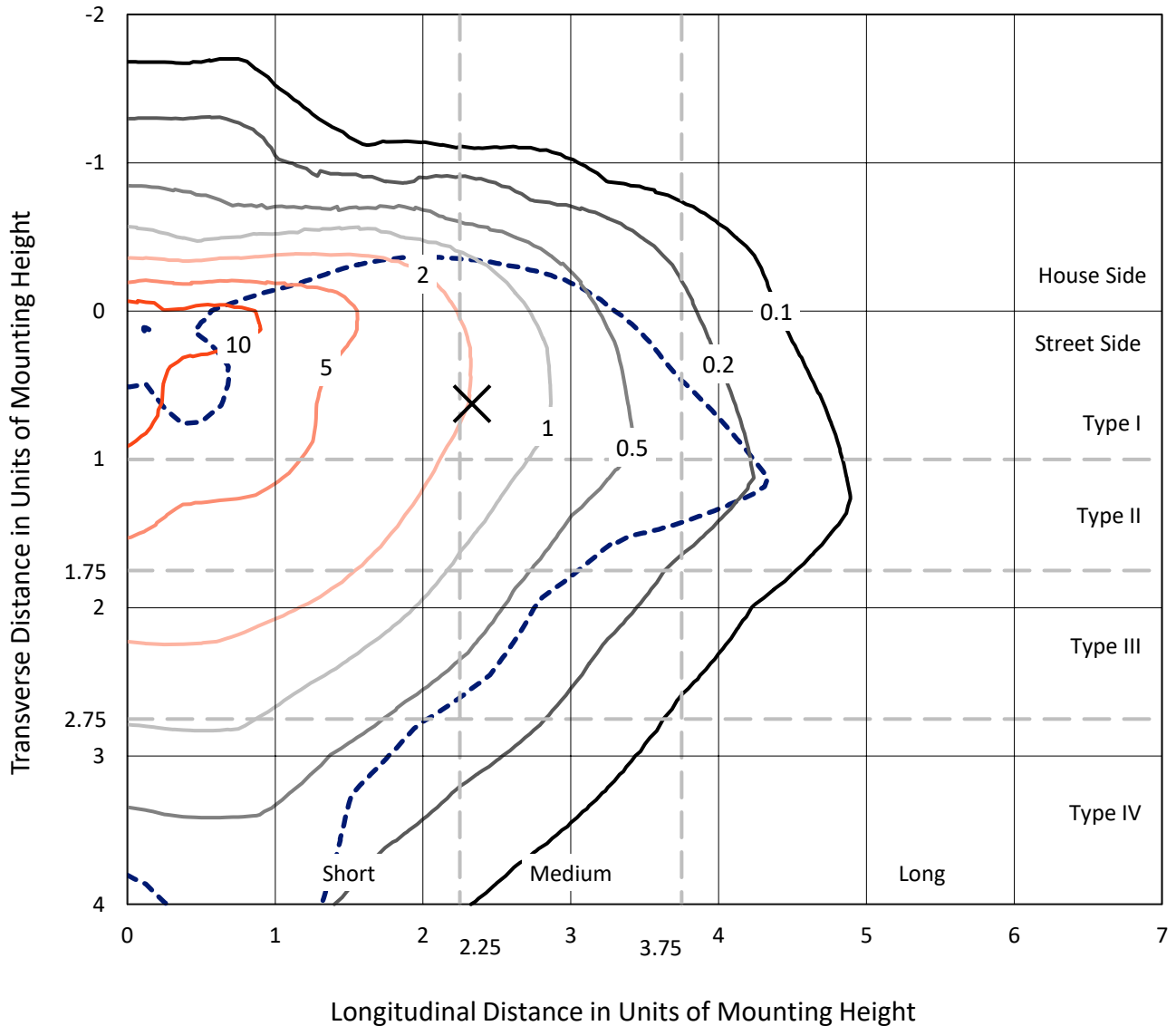




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### Iso-Footcandle Lines of Horizontal Illumination

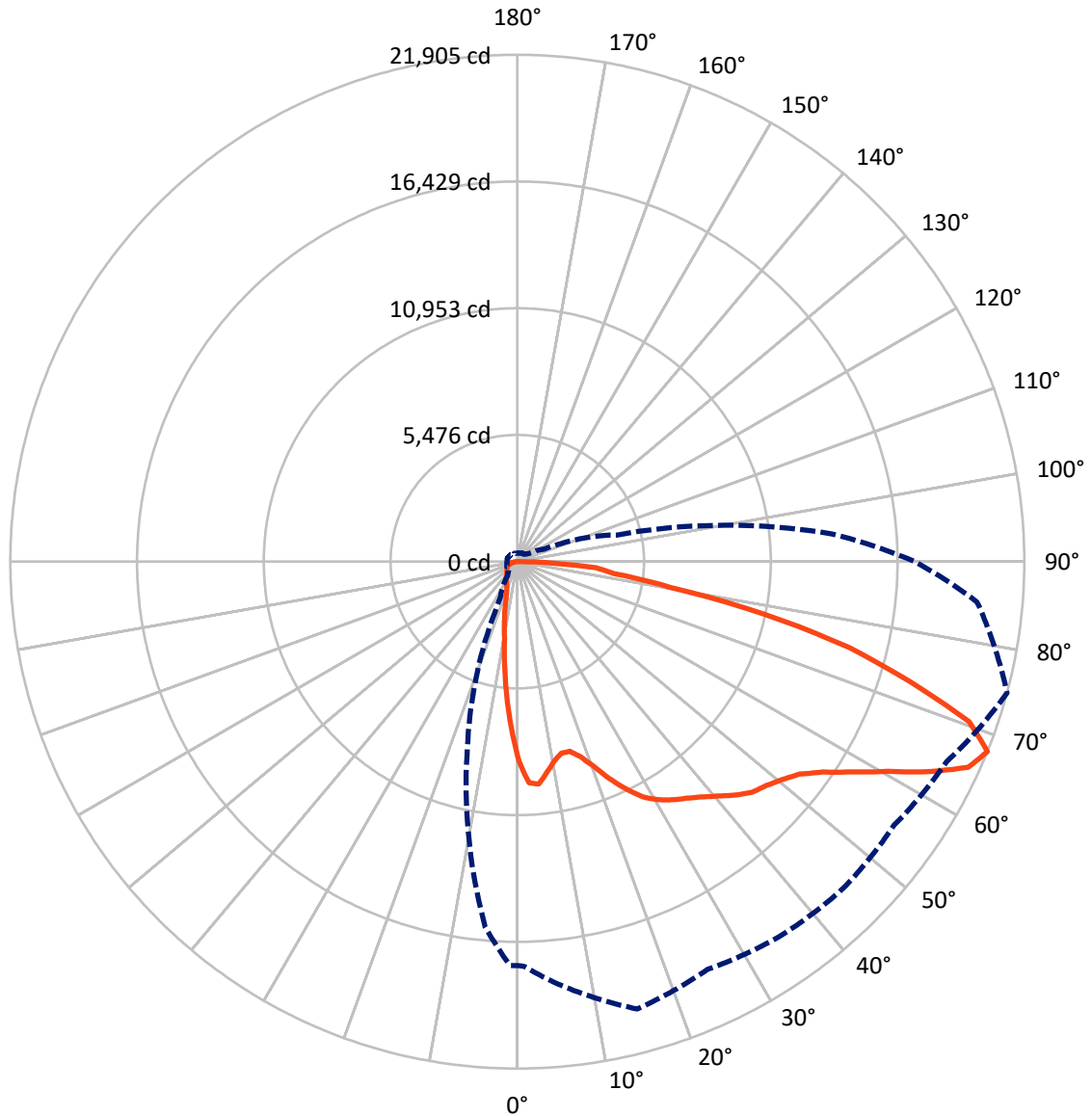
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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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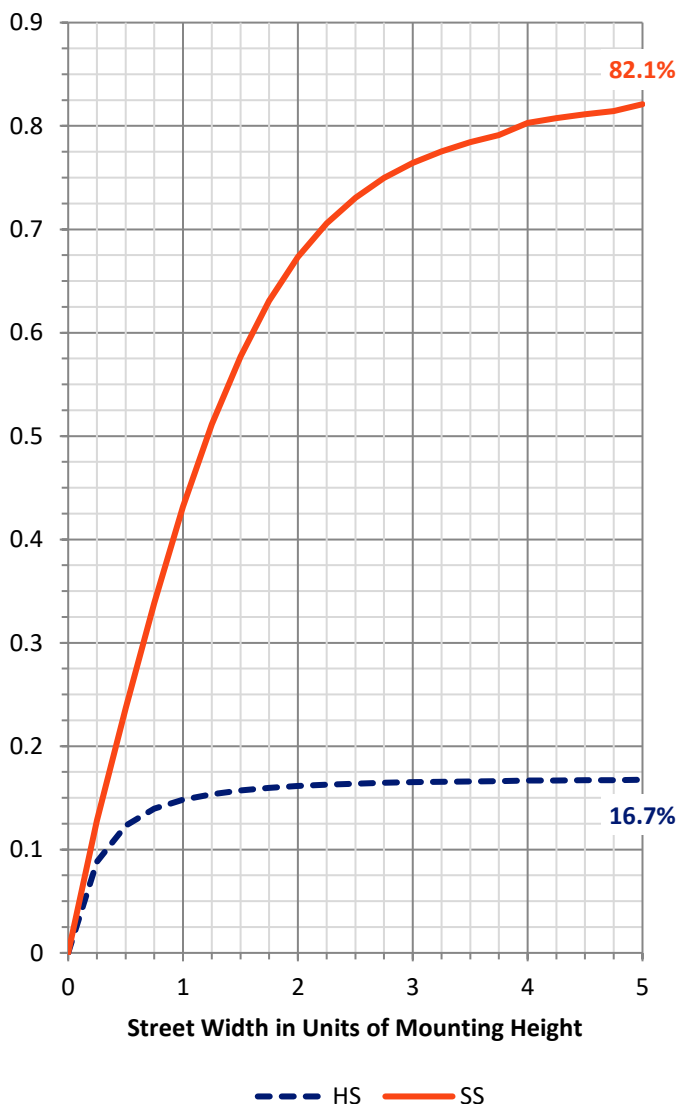
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4671.6	0.0	4671.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	22967.4	0.0	22967.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	27639.0	0.0	27639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.9	2.4
10°-20°	1365.9	4.9
20°-30°	1965.6	7.1
30°-40°	2831.0	10.2
40°-50°	3976.7	14.4
50°-60°	5546.1	20.1
60°-70°	6594.0	23.9
70°-80°	3883.5	14.1
80°-90°	821.2	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°	27639.0	100.0
0°-180°	27639.0	100.0

**Coefficient of Utilization**



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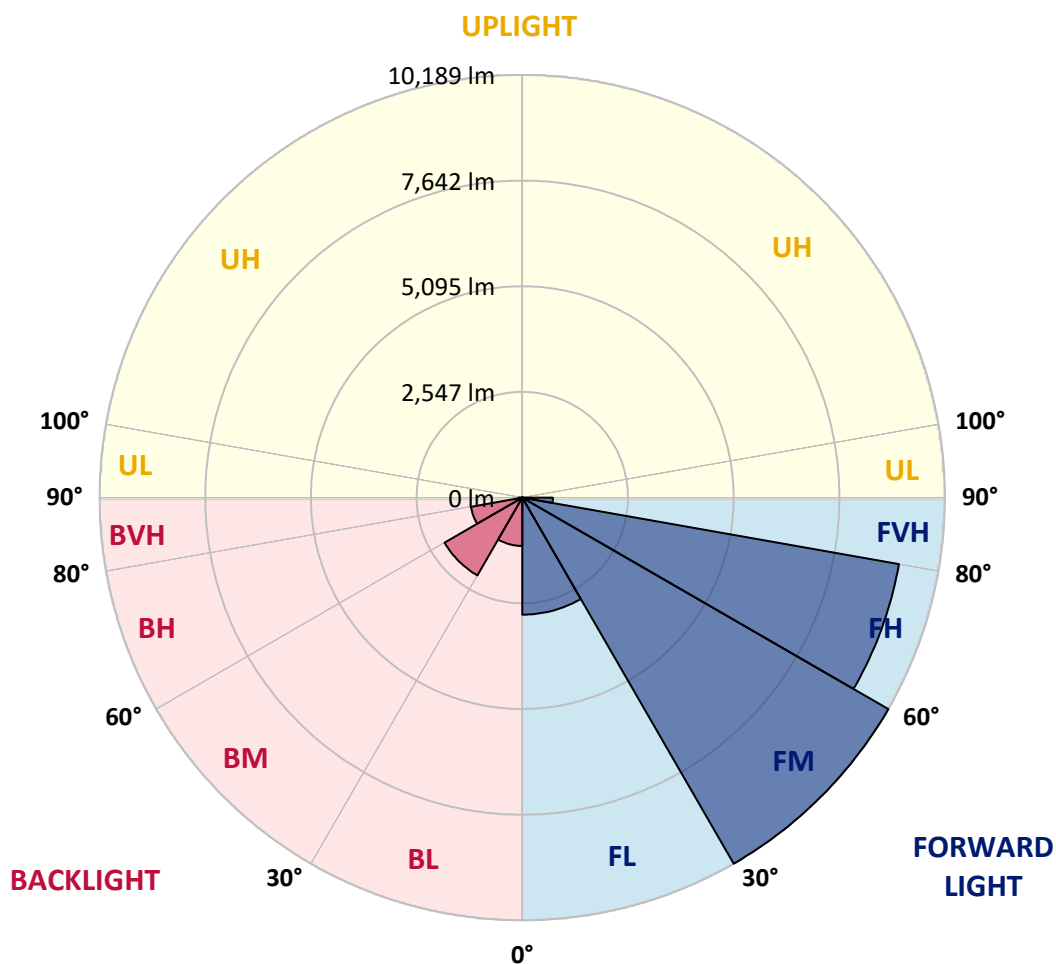
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2821.2	10.2			
FM	(30°-60°)	10189.5	36.9			
FH	(60°-80°)	9220.5	33.4			G4/12000
FVH	(80°-90°)	736.3	2.7			G4/750
BL	(0°-30°)	1165.2	4.2	B3/2500		
BM	(30°-60°)	2164.4	7.8	B2/2500		
BH	(60°-80°)	1257.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	84.9	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°	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1
2.5°	9310.4	9322.8	9402.5	9634.7	9794.2	9852.7	9893.5	9817.3	9742.8	9562.0	9289.1
5°	9282.0	9354.7	9562.0	10083.1	10494.3	10671.6	10724.7	10496.1	10118.6	9654.2	9095.9
7.5°	8739.6	8837.1	9156.2	10029.9	10754.9	11169.6	11114.6	10701.7	10021.1	9193.4	8413.5
10°	8096.3	8204.4	8589.0	9645.3	10579.4	11150.1	11150.1	10646.7	9742.8	8759.1	7860.5
12.5°	7585.8	7699.3	8138.8	9250.1	10214.3	10754.9	10845.2	10412.8	9542.5	8484.4	7497.2
15°	7417.4	7527.3	8000.6	9010.8	9827.9	10157.6	10187.7	10045.9	9445.1	8503.9	7481.3
17.5°	7626.6	7768.4	8246.9	9081.7	9473.4	9492.9	9516.0	9627.6	9455.7	8860.2	7803.8
20°	8231.0	8383.4	8883.2	9310.4	9163.2	8961.2	8973.6	9260.7	9581.5	9448.6	8574.8
22.5°	9103.0	9235.9	9748.1	9712.7	9032.1	8615.6	8528.7	8929.3	9767.6	10182.4	9395.4
25°	10044.1	10200.1	10788.5	10310.0	9069.3	8410.0	8355.0	8734.3	9960.8	10868.3	10343.7
27.5°	11121.7	11274.2	11738.5	10912.6	9264.3	8394.0	8328.5	8716.6	10134.5	11502.8	11249.4
30°	11922.9	12062.9	12378.4	11419.5	9503.5	8500.4	8418.8	8856.6	10283.4	11937.0	12132.0
32.5°	12552.1	12697.4	12869.3	11735.0	9819.0	8693.6	8542.9	9111.9	10478.4	12268.5	12786.0
35°	13207.8	13379.8	13367.4	12015.0	10113.2	8916.9	8769.8	9480.5	10785.0	12557.4	13615.5
37.5°	14039.1	14108.2	14019.6	12266.7	10466.0	9319.2	9237.7	10028.2	11221.0	12906.5	14585.0
40°	14882.7	15021.0	14565.5	12571.6	10894.9	10076.0	10067.2	10838.2	11738.5	13316.0	15524.4
42.5°	15605.9	15722.9	15075.9	12837.4	11414.2	10999.4	11066.8	11924.6	12417.4	13791.0	16279.4
45°	16150.0	16254.6	15547.4	13094.4	12098.3	12066.4	12463.4	13089.1	13273.4	14218.1	16722.5
47.5°	16612.6	16713.6	15875.3	13484.3	12943.8	13340.8	14032.0	14303.2	14005.4	14462.7	17218.8
50°	17002.5	17032.7	16100.4	13948.7	13993.0	14902.2	15572.2	15747.7	14728.5	14813.6	17649.4
52.5°	17408.4	17369.4	16488.5	14533.6	15127.3	16384.0	16871.4	17053.9	15421.6	15246.1	18276.9
55°	18317.6	18354.9	17358.8	15270.9	16274.1	17839.1	18480.7	18305.2	16189.0	16041.9	19074.4
57.5°	19416.5	19384.6	18583.5	16424.7	17442.1	19193.2	19671.7	19389.9	17213.4	17135.5	19882.7
60°	19843.7	19886.2	19607.9	17665.4	18594.1	20378.9	20868.1	20430.3	18441.7	18406.3	20492.4
62.5°	19414.7	19654.0	19841.9	18769.6	19576.0	21250.9	21736.6	21236.8	19723.1	19980.1	20919.5
65°	18560.5	18611.9	19251.7	19705.4	20049.3	21394.5	21648.0	21382.1	20793.7	21414.0	20900.0
67.5°	17450.9	17495.2	18245.0	20012.0	19439.6	19763.9	19941.1	19863.2	20462.2	21905.0	19937.6
70°	16394.6	16359.1	17151.4	19230.4	16922.8	16430.0	16577.2	16332.6	17656.5	20705.0	18050.0
72.5°	14338.6	14466.2	15317.0	17057.5	13399.3	12598.1	12918.9	12286.2	13580.0	17732.7	14650.6
75°	11231.6	11261.8	12681.4	14315.6	10107.9	8844.2	9278.5	9014.4	10402.1	14792.4	10116.8
77.5°	7777.2	7709.9	9235.9	10933.9	7208.3	6474.5	6481.6	6355.8	7263.2	10891.3	6873.3
80°	4939.6	4836.8	5781.5	6754.6	4953.8	5299.4	5125.7	5120.4	4728.7	6719.1	4156.3
82.5°	2669.2	2782.7	3652.9	4234.2	3553.6	4096.0	3753.9	3644.0	3245.2	4205.9	2658.6
85°	1215.9	1322.2	1947.9	2880.1	2699.3	2729.5	1823.8	2151.7	2685.2	3415.4	1419.7
87.5°	118.8	152.4	402.3	1359.4	921.6	726.7	271.2	522.9	675.3	1214.1	113.4
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°	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1
2.5°	9177.4	9085.3	8771.6	8512.8	8238.1	8028.9	7756.0	7573.4	7447.6	7257.9	7234.9
5°	8755.6	8530.5	7984.6	7428.1	6947.8	6586.2	6219.3	5882.6	5684.1	5622.0	5542.3
7.5°	8044.9	7665.6	6963.7	6325.7	5774.4	5235.6	4820.9	4526.7	4329.9	4214.7	4076.5
10°	7460.0	7020.4	6166.1	5384.5	4930.8	4595.8	4230.7	3915.2	3672.4	3465.0	3351.6
12.5°	7066.5	6570.2	5609.6	4975.1	4624.2	4267.9	3840.8	3486.3	3128.3	2892.5	2791.5
15°	6947.8	6423.1	5437.7	4771.3	4267.9	3801.8	3323.2	2860.6	2506.2	2282.8	2208.4
17.5°	7238.4	6603.9	5435.9	4500.1	3849.6	3293.1	2679.9	2245.6	1882.3	1715.7	1662.5
20°	7780.8	6951.3	5451.9	4232.5	3395.9	2612.5	1949.6	1593.4	1419.7	1348.8	1322.2
22.5°	8537.6	7481.3	5499.7	3968.4	2899.6	2006.3	1460.4	1279.7	1217.6	1205.2	1199.9
25°	9469.9	8137.0	5661.0	3730.9	2481.3	1531.3	1221.2	1139.6	1104.2	1091.8	1090.0
27.5°	10327.7	8984.2	5856.0	3527.1	2077.2	1320.4	1104.2	1035.1	999.6	997.9	1001.4
30°	11102.2	9693.2	6019.0	3298.4	1770.6	1173.3	1028.0	958.9	925.2	923.4	934.0
32.5°	11772.2	10276.3	6139.6	3073.3	1600.5	1082.9	958.9	884.4	856.1	850.7	856.1
35°	12488.3	10857.7	6084.6	2897.9	1503.0	1008.5	907.5	834.8	801.1	785.2	785.2
37.5°	13305.3	11456.7	5990.7	2752.5	1458.7	946.5	863.2	792.3	758.6	742.6	740.9
40°	14196.8	12055.8	5861.3	2623.1	1414.4	909.2	833.0	758.6	717.8	701.9	698.3
42.5°	14983.8	12568.0	5754.9	2538.1	1341.7	916.3	806.4	733.8	682.4	661.1	659.3
45°	15667.9	13083.8	5735.4	2488.4	1281.4	905.7	799.3	714.3	654.0	631.0	627.4
47.5°	16203.2	13620.8	5847.1	2460.1	1215.9	849.0	845.4	701.9	629.2	604.4	600.8
50°	16855.4	14382.9	6102.3	2401.6	1155.6	795.8	893.3	700.1	609.7	577.8	568.9
52.5°	17723.9	15375.5	6448.0	2297.0	1068.8	746.2	852.5	700.1	586.7	554.8	544.1
55°	19037.2	16641.0	6786.5	2149.9	946.5	680.6	769.2	678.8	553.0	524.6	517.5
57.5°	19907.5	17566.1	7002.7	1946.1	794.0	632.7	662.9	645.1	519.3	489.2	489.2
60°	19951.8	17814.3	6899.9	1689.1	698.3	588.4	576.0	650.5	489.2	457.3	453.7
62.5°	19441.3	17206.3	6364.6	1458.7	646.9	540.6	521.1	570.7	459.0	427.1	421.8
65°	18643.8	15655.5	5435.9	1348.8	618.6	498.0	469.7	467.9	427.1	397.0	389.9
67.5°	17178.0	13681.1	4466.4	1285.0	604.4	450.2	423.6	414.7	389.9	365.1	361.6
70°	15017.4	11458.5	3582.0	1258.4	597.3	400.6	379.3	368.7	347.4	327.9	326.1
72.5°	11683.6	9294.4	2956.3	1240.7	593.8	354.5	331.4	317.3	304.9	287.1	287.1
75°	8392.3	6837.9	2256.3	1118.4	549.4	304.9	280.0	271.2	253.5	239.3	242.8
77.5°	5290.6	4604.7	1485.3	822.4	425.4	244.6	223.3	218.0	203.8	184.3	196.7
80°	3573.1	3238.2	866.7	517.5	267.6	179.0	171.9	170.1	154.2	132.9	134.7
82.5°	2431.7	2385.6	450.2	294.2	154.2	104.6	101.0	104.6	86.8	70.9	70.9
85°	950.0	1297.4	212.7	115.2	49.6	16.0	23.0	24.8	14.2	7.1	8.9
87.5°	17.7	132.9	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°	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1
2.5°	7199.4	7183.5	7210.1	7096.6	7119.7	7162.2	7183.5	7195.9	7371.4	7330.6	7442.3
5°	5616.7	5600.7	5703.5	5717.7	5770.9	5760.3	5811.7	5824.1	5887.9	5910.9	6066.9
7.5°	4085.4	4154.5	4271.5	4331.7	4422.1	4450.5	4423.9	4489.5	4356.5	4452.2	4480.6
10°	3282.5	3199.2	3149.5	3287.8	3305.5	3436.7	3383.5	3341.0	3418.9	3422.5	3496.9
12.5°	2733.0	2554.0	2435.3	2474.3	2516.8	2573.5	2582.4	2667.4	2724.2	2777.3	2821.6
15°	2142.8	2080.8	1972.7	1919.5	1979.8	2002.8	2057.7	2128.6	2188.9	2204.9	2265.1
17.5°	1644.8	1655.4	1637.7	1605.8	1643.0	1660.7	1664.3	1666.0	1682.0	1671.4	1760.0
20°	1324.0	1361.2	1405.5	1412.6	1425.0	1433.9	1417.9	1357.6	1359.4	1396.6	1425.0
22.5°	1198.1	1205.2	1254.9	1270.8	1309.8	1293.8	1247.8	1219.4	1215.9	1224.7	1238.9
25°	1098.9	1109.5	1145.0	1169.8	1199.9	1171.5	1137.9	1111.3	1107.7	1116.6	1130.8
27.5°	1010.3	1026.2	1058.1	1082.9	1111.3	1084.7	1052.8	1029.8	1028.0	1026.2	1035.1
30°	939.4	957.1	980.1	1008.5	1028.0	1004.9	974.8	962.4	960.6	957.1	960.6
32.5°	868.5	896.8	919.9	934.0	953.5	935.8	912.8	905.7	893.3	882.6	877.3
35°	788.7	818.8	854.3	872.0	891.5	873.8	857.8	827.7	806.4	804.7	808.2
37.5°	742.6	755.0	783.4	813.5	833.0	824.2	794.0	763.9	758.6	758.6	762.1
40°	701.9	707.2	719.6	758.6	794.0	767.4	730.2	721.4	721.4	719.6	721.4
42.5°	661.1	666.4	666.4	696.5	753.3	710.7	682.4	682.4	682.4	684.1	689.5
45°	623.9	625.7	623.9	645.1	698.3	662.9	643.4	648.7	652.2	655.8	659.3
47.5°	592.0	593.8	592.0	609.7	636.3	622.1	611.5	618.6	625.7	631.0	634.5
50°	563.6	561.8	565.4	576.0	588.4	592.0	584.9	595.5	599.1	606.2	615.0
52.5°	538.8	537.0	540.6	545.9	563.6	563.6	563.6	572.5	579.6	586.7	599.1
55°	510.4	512.2	517.5	524.6	547.7	544.1	545.9	553.0	560.1	570.7	577.8
57.5°	483.9	487.4	494.5	505.1	528.2	526.4	528.2	531.7	540.6	545.9	553.0
60°	453.7	460.8	469.7	476.8	499.8	498.0	506.9	514.0	519.3	519.3	522.9
62.5°	423.6	434.2	443.1	448.4	473.2	475.0	487.4	492.7	496.3	492.7	498.0
65°	393.5	409.4	413.0	420.1	444.9	446.6	460.8	473.2	469.7	466.1	475.0
67.5°	363.3	382.8	381.1	389.9	414.7	418.3	430.7	452.0	444.9	441.3	448.4
70°	329.7	343.8	345.6	350.9	384.6	379.3	398.8	418.3	413.0	414.7	414.7
72.5°	292.4	304.9	304.9	315.5	350.9	342.1	358.0	379.3	379.3	377.5	377.5
75°	248.1	255.2	262.3	278.3	315.5	304.9	315.5	335.0	338.5	335.0	335.0
77.5°	200.3	210.9	214.5	235.7	262.3	260.5	271.2	280.0	287.1	283.6	283.6
80°	141.8	152.4	166.6	189.6	205.6	210.9	216.2	223.3	226.9	226.9	230.4
82.5°	79.8	95.7	108.1	131.2	138.2	164.8	163.1	168.4	163.1	143.6	159.5
85°	17.7	33.7	47.9	60.3	69.1	95.7	101.0	113.4	93.9	86.8	86.8
87.5°	0.0	0.0	0.0	0.0	0.0	14.2	28.4	39.0	33.7	28.4	28.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1	8635.1
2.5°	7536.2	7690.4	7876.5	8197.3	8422.4	8665.2	8909.8	9170.3	9239.5	9310.4
5°	6109.4	6412.5	6577.3	7008.0	7460.0	8034.2	8503.9	9017.9	9232.4	9282.0
7.5°	4627.7	4833.3	5265.8	5701.8	6261.8	6864.5	7584.1	8385.2	8635.1	8739.6
10°	3668.8	3948.9	4328.2	4796.1	5287.0	5935.7	6747.5	7683.3	8037.8	8096.3
12.5°	3122.9	3434.9	3847.9	4342.4	4806.7	5295.9	6114.7	7080.7	7460.0	7585.8
15°	2497.3	2874.8	3351.6	3872.7	4377.8	4913.1	5742.5	6832.6	7270.3	7417.4
17.5°	1962.0	2266.9	2782.7	3348.0	3947.1	4624.2	5664.6	6951.3	7490.1	7626.6
20°	1501.2	1719.2	2153.5	2750.7	3452.6	4338.8	5684.1	7399.7	8044.9	8231.0
22.5°	1297.4	1409.0	1673.1	2242.1	3027.2	4090.7	5763.8	8014.7	8792.8	9103.0
25°	1175.1	1233.6	1382.5	1754.7	2621.4	3849.6	5946.4	8842.4	9838.5	10044.1
27.5°	1070.5	1113.1	1205.2	1472.9	2252.7	3626.3	6159.1	9760.5	10815.1	11121.7
30°	971.3	1028.0	1114.8	1308.0	2017.0	3422.5	6426.7	10504.9	11637.5	11922.9
32.5°	895.1	951.8	1031.5	1192.8	1816.7	3208.0	6586.2	11159.0	12309.2	12552.1
35°	833.0	880.9	964.2	1100.7	1664.3	3045.0	6554.3	11678.3	12959.7	13207.8
37.5°	788.7	829.5	912.8	1013.8	1549.1	2874.8	6538.3	12364.2	13752.0	14039.1
40°	747.9	790.5	866.7	957.1	1433.9	2674.5	6547.2	13044.8	14595.6	14882.7
42.5°	716.0	763.9	825.9	941.1	1315.1	2513.2	6547.2	13636.8	15329.4	15605.9
45°	689.5	740.9	801.1	939.4	1221.2	2391.0	6502.9	14145.4	15914.3	16150.0
47.5°	666.4	723.1	810.0	907.5	1198.1	2302.3	6463.9	14553.1	16391.1	16612.6
50°	650.5	717.8	861.4	870.2	1205.2	2275.7	6651.8	15067.1	16811.1	17002.5
52.5°	638.1	719.6	859.6	815.3	1192.8	2293.5	7043.5	15870.0	17394.2	17408.4
55°	613.2	717.8	815.3	753.3	1141.4	2323.6	7546.8	17036.2	18307.0	18317.6
57.5°	588.4	698.3	756.8	700.1	1036.8	2323.6	8153.0	18140.4	19407.7	19416.5
60°	563.6	726.7	664.6	654.0	900.4	2281.1	8792.8	18626.0	19753.3	19843.7
62.5°	538.8	732.0	593.8	613.2	801.1	2178.3	9269.6	18089.0	19285.4	19414.7
65°	510.4	590.2	547.7	570.7	749.7	2006.3	9118.9	17105.3	18406.3	18560.5
67.5°	476.8	499.8	498.0	526.4	732.0	1752.9	8324.9	15861.1	17459.8	17450.9
70°	436.0	448.4	453.7	483.9	698.3	1556.2	6937.1	14246.5	16196.1	16394.6
72.5°	393.5	404.1	409.4	436.0	664.6	1444.5	5384.5	12022.1	14028.5	14338.6
75°	347.4	354.5	361.6	384.6	629.2	1279.7	3835.4	9177.4	10744.2	11231.6
77.5°	299.5	299.5	308.4	331.4	529.9	1056.3	2573.5	6437.3	7279.2	7777.2
80°	242.8	244.6	241.0	265.9	389.9	723.1	1462.2	4299.8	4843.9	4939.6
82.5°	186.1	180.8	182.6	195.0	290.7	492.7	779.9	2671.0	2722.4	2669.2
85°	117.0	117.0	113.4	127.6	186.1	257.0	425.4	1635.9	1277.9	1215.9
87.5°	47.9	39.0	44.3	51.4	88.6	104.6	166.6	336.8	129.4	118.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)