

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: P451422

Luminaire Tested: **GALN-SA2B-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8218 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

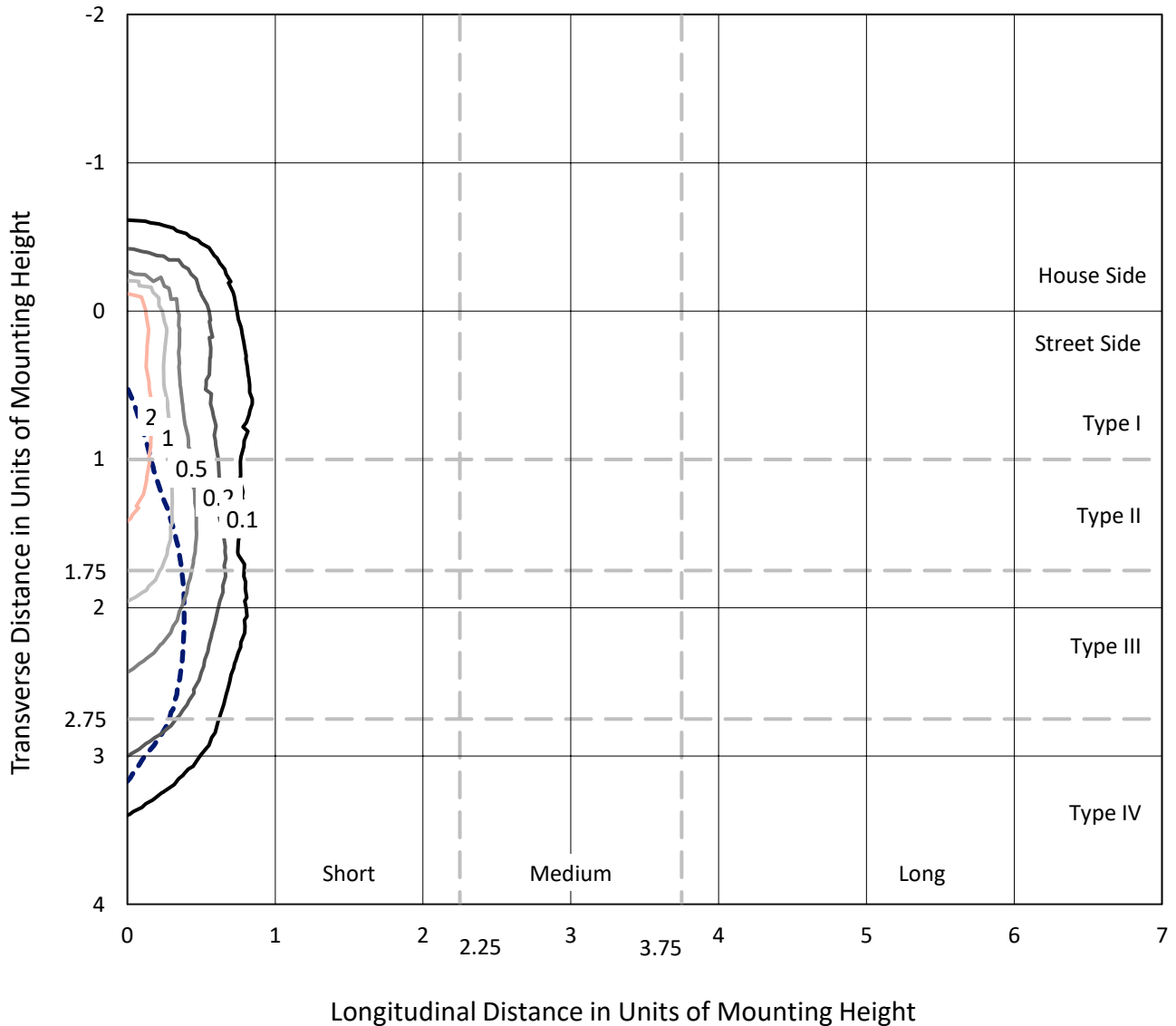
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

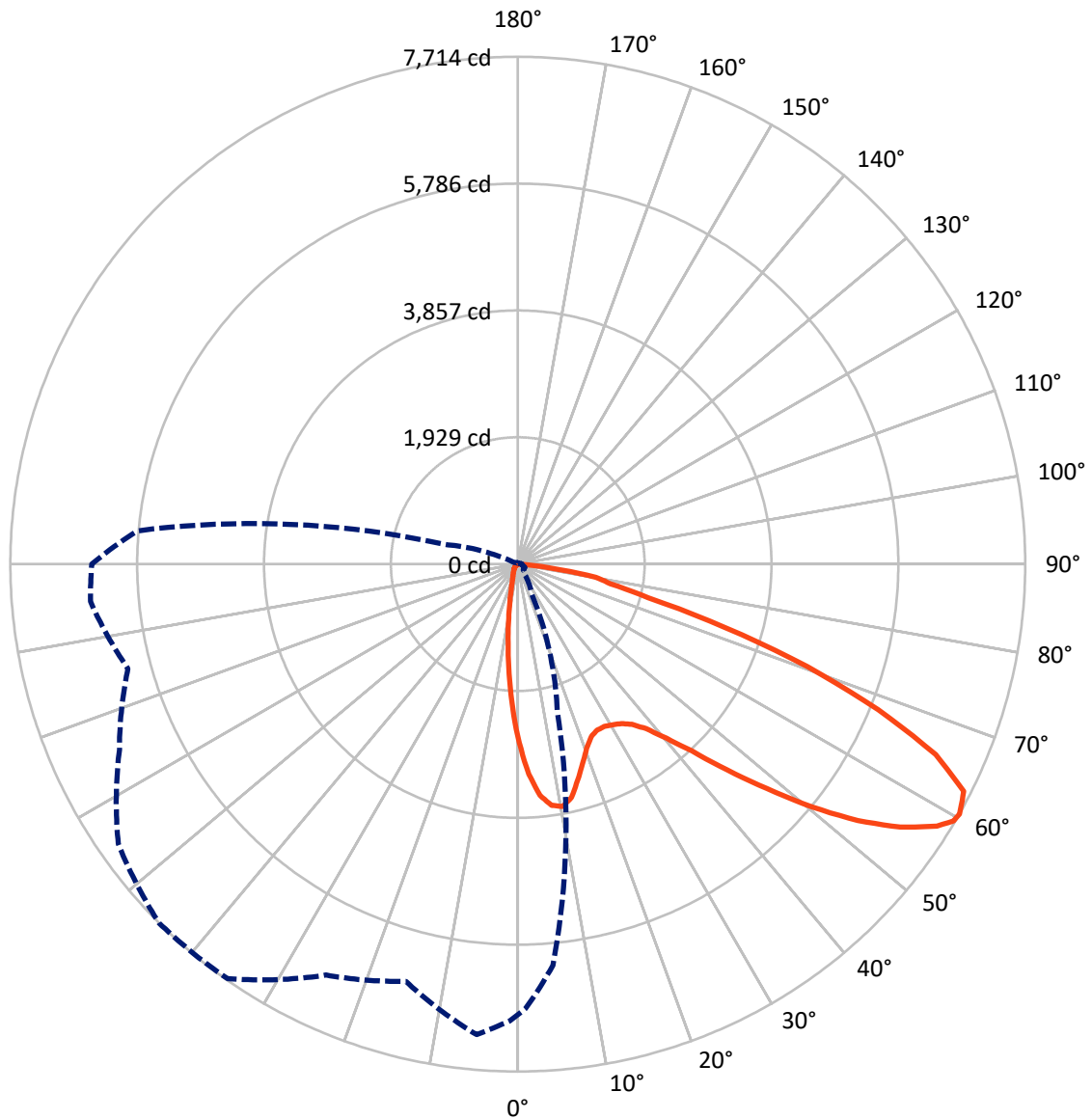
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1013.6	0.0	1013.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7204.4	0.0	7204.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8218.0	0.0	8218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.0	2.5
10°-20°	401.2	4.9
20°-30°	588.3	7.2
30°-40°	874.9	10.6
40°-50°	1273.2	15.5
50°-60°	1836.1	22.3
60°-70°	2019.5	24.6
70°-80°	904.6	11.0
80°-90°	118.2	1.4
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°	8218.0	100.0
0°-180°	8218.0	100.0

**Coefficient of Utilization**



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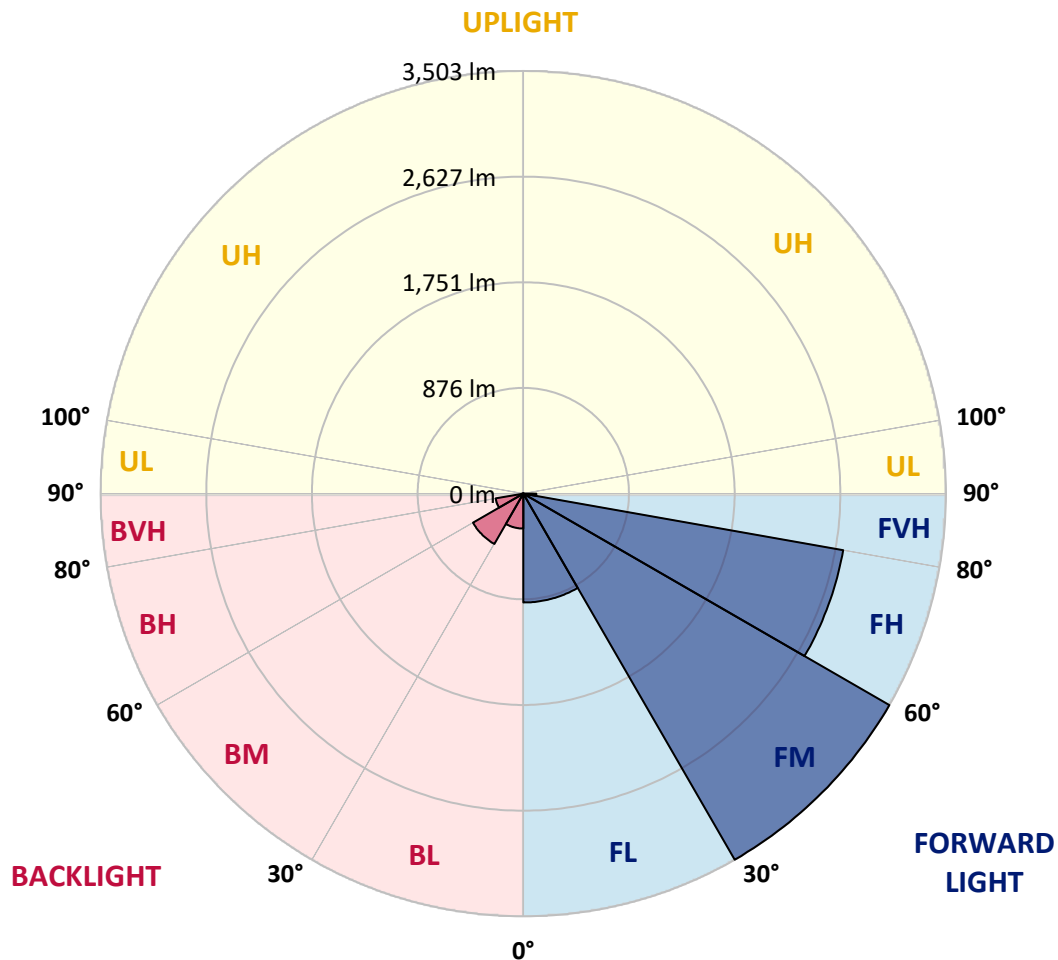
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.9	11.0			
FM	(30°-60°)	3502.8	42.6			
FH	(60°-80°)	2691.6	32.8			G2/5000
FVH	(80°-90°)	108.1	1.3			G2/225
BL	(0°-30°)	289.6	3.5	B1/500		
BM	(30°-60°)	481.4	5.9	B1/1000		
BH	(60°-80°)	232.4	2.8	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	2986.0	2972.9	2942.9	2851.7	2772.4	2668.7	2563.7	2481.3	2430.7	2337.6	2295.1
5°	2893.0	2899.2	2812.4	2625.0	2416.3	2273.9	2118.3	1994.6	1858.5	1772.3	1681.7
7.5°	2649.9	2637.5	2543.1	2282.0	2028.4	1822.2	1625.5	1465.5	1365.0	1284.4	1216.9
10°	2441.9	2432.6	2312.0	1975.9	1703.5	1549.2	1416.2	1276.2	1168.2	1050.1	955.8
12.5°	2311.4	2290.1	2151.4	1800.4	1578.6	1434.9	1290.0	1144.4	995.1	875.8	761.5
15°	2267.6	2237.0	2082.7	1739.8	1498.6	1316.2	1134.4	967.0	795.2	663.4	577.2
17.5°	2347.0	2296.4	2132.1	1729.2	1403.1	1161.3	937.7	719.6	541.0	440.4	387.3
20°	2528.8	2470.7	2257.0	1718.5	1296.9	987.6	712.8	508.5	374.2	319.2	289.9
22.5°	2798.6	2718.7	2441.9	1735.4	1198.8	818.3	514.7	359.2	297.4	263.0	242.4
25°	3122.8	3056.0	2676.2	1795.4	1121.3	685.3	397.9	293.6	250.5	229.3	213.6
27.5°	3478.3	3371.5	2979.2	1867.2	1050.7	582.2	349.2	262.4	223.0	203.7	195.5
30°	3731.3	3648.2	3232.8	1917.2	962.7	504.8	319.2	258.6	223.6	200.5	185.5
32.5°	3981.2	3875.0	3445.2	1940.3	898.3	451.0	276.1	225.5	196.2	184.3	169.3
35°	4248.5	4137.3	3657.0	1927.8	850.2	415.4	250.5	201.2	168.0	148.1	133.1
37.5°	4519.0	4401.6	3867.5	1882.8	820.2	401.1	230.5	191.2	158.7	138.1	121.8
40°	4840.1	4683.3	4064.9	1846.0	789.0	393.6	217.4	184.9	151.8	129.9	113.7
42.5°	5102.5	4953.2	4251.7	1826.6	767.7	376.1	217.4	179.9	147.4	123.1	106.2
45°	5351.1	5196.2	4453.4	1842.2	759.0	354.2	219.9	179.3	144.3	118.1	101.2
47.5°	5559.1	5424.8	4660.8	1900.9	747.8	330.5	206.8	188.0	142.4	113.7	96.2
50°	5804.7	5674.7	4935.1	2019.6	727.8	306.7	190.5	202.4	141.8	109.9	91.8
52.5°	6150.7	6010.2	5313.6	2154.6	695.9	270.5	175.5	200.5	139.3	103.7	87.5
55°	6573.6	6460.0	5752.2	2316.4	652.2	229.9	151.8	178.0	131.8	93.1	80.0
57.5°	6844.8	6747.9	6080.8	2386.3	585.3	188.0	133.7	149.3	120.6	83.1	71.2
59°	6876.6	6789.2	6149.5	2363.2	541.6	171.8	124.9	128.1	117.4	77.5	66.2
60°	6849.8	6759.2	6122.0	2318.2	501.0	160.5	117.4	113.7	118.1	74.3	62.5
62.5°	6677.3	6522.4	5855.3	2090.2	437.9	147.4	104.3	93.1	104.3	66.8	55.6
65°	6344.4	6112.0	5327.4	1769.1	412.9	139.9	88.7	78.1	79.3	58.7	48.1
67.5°	5762.8	5469.8	4624.6	1437.4	402.3	140.6	75.0	70.0	61.2	50.0	42.5
70°	4843.2	4550.9	3710.7	1182.5	397.3	140.6	63.7	60.0	51.2	41.9	36.9
72.5°	3432.1	3117.2	2503.1	928.9	357.9	139.9	54.3	54.3	41.9	35.0	30.0
75°	1939.0	1941.5	1573.6	657.2	297.4	115.6	43.7	43.1	30.6	26.9	22.5
77.5°	1130.1	1110.1	1060.7	282.4	138.1	52.5	30.6	26.2	21.2	19.4	16.2
80°	581.0	477.9	465.4	102.4	49.4	33.1	21.2	15.0	13.7	12.5	11.2
82.5°	171.8	172.4	153.7	41.2	27.5	21.9	10.6	8.1	7.5	6.9	6.9
85°	11.9	7.5	8.7	12.5	16.9	8.7	0.6	1.9	1.9	2.5	3.1
87.5°	1.2	0.6	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	2248.3	2275.8	2224.5	2225.8	2183.3	2197.0	2147.1	2163.3	2134.0	2156.4	2222.7
5°	1691.7	1697.9	1656.7	1643.6	1649.8	1675.4	1685.4	1639.8	1659.2	1621.1	1618.6
7.5°	1191.9	1199.4	1175.7	1172.5	1217.5	1206.9	1226.3	1179.4	1135.1	1154.4	1118.8
10°	925.8	894.6	845.8	832.1	823.3	829.0	829.0	786.5	780.2	763.4	789.0
12.5°	730.9	692.8	646.6	584.1	568.5	567.2	544.1	506.6	494.8	480.4	501.6
15°	531.0	515.4	476.6	441.7	406.1	399.2	361.7	331.1	290.5	284.9	283.0
17.5°	373.6	350.5	349.8	329.8	309.2	295.5	260.5	225.5	209.9	208.0	208.0
20°	279.9	271.7	258.6	256.1	249.9	234.3	203.0	184.3	176.8	177.4	179.9
22.5°	235.5	229.9	218.0	212.4	209.9	196.2	173.0	160.5	156.8	156.8	157.4
25°	210.5	205.5	192.4	183.7	180.5	170.5	152.4	143.1	139.9	139.9	139.9
27.5°	191.8	185.5	171.8	164.3	158.7	147.4	136.2	126.8	123.7	123.7	124.3
30°	178.7	171.8	159.3	149.3	140.6	130.6	121.2	113.1	109.3	108.7	109.3
32.5°	161.2	154.9	142.4	136.2	126.2	114.3	106.8	99.3	95.6	96.2	95.6
35°	125.6	123.7	114.9	116.8	111.2	101.2	94.3	86.2	81.8	81.2	82.5
37.5°	114.3	106.8	96.8	97.5	95.6	91.8	80.6	71.8	68.7	68.7	69.3
40°	105.6	98.1	86.8	81.2	81.8	81.8	70.0	60.6	57.5	56.8	58.1
42.5°	98.1	90.6	78.1	68.7	66.2	69.3	59.3	50.0	46.9	45.6	46.9
45°	93.1	85.0	70.6	60.0	52.5	56.2	48.7	41.2	37.5	37.5	36.9
47.5°	88.1	80.6	65.0	51.8	43.7	41.9	40.0	33.1	29.4	28.7	29.4
50°	83.7	76.2	58.7	45.0	36.9	32.5	32.5	26.2	23.7	22.5	23.1
52.5°	79.3	71.2	53.1	40.0	31.9	26.2	23.1	21.2	19.4	18.7	19.4
55°	73.1	65.0	47.5	34.4	27.5	21.9	18.1	17.5	16.2	15.0	16.2
57.5°	65.6	58.1	41.9	29.4	21.9	16.9	15.0	14.4	13.1	12.5	12.5
59°	61.2	54.3	38.7	25.6	19.4	15.0	13.7	13.1	11.9	10.6	11.2
60°	58.7	53.1	36.9	23.7	17.5	13.7	12.5	11.9	10.6	10.0	10.6
62.5°	51.8	47.5	32.5	19.4	13.7	10.0	8.7	9.4	8.7	8.1	8.7
65°	45.6	41.9	27.5	15.0	10.6	6.9	6.2	8.1	7.5	6.9	7.5
67.5°	40.6	36.2	23.1	11.2	7.5	3.7	4.4	6.9	6.9	6.2	6.9
70°	35.0	31.2	18.7	8.1	3.7	1.9	3.1	5.0	6.2	5.6	6.2
72.5°	28.7	24.4	14.4	5.6	1.9	0.0	1.9	4.4	6.2	5.6	6.2
75°	22.5	18.1	10.6	3.1	0.0	0.0	0.6	3.7	6.2	5.6	6.2
77.5°	16.2	13.1	6.2	0.6	0.0	0.0	0.6	3.7	6.2	5.6	6.2
80°	10.6	9.4	2.5	0.0	0.0	0.0	0.6	3.7	6.2	6.2	6.9
82.5°	6.9	5.0	0.0	0.0	0.0	0.0	1.2	5.0	6.9	7.5	7.5
85°	3.1	0.0	0.0	0.0	0.0	0.0	2.5	6.2	8.1	8.1	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.4	7.5	9.4	9.4	9.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	2233.9	2273.3	2328.9	2414.4	2483.8	2593.1	2676.8	2791.1	2906.7	2941.7	2996.0
5°	1644.2	1694.8	1821.0	1935.9	2008.4	2239.5	2385.7	2616.2	2823.0	2922.3	3030.4
7.5°	1141.9	1201.9	1298.1	1458.7	1611.1	1799.1	2035.3	2298.9	2601.8	2743.7	2896.1
10°	801.5	876.4	1012.0	1143.8	1335.6	1514.3	1747.3	2038.4	2372.6	2540.0	2731.2
12.5°	506.0	572.8	752.1	900.2	1139.4	1346.8	1561.7	1825.4	2212.7	2384.5	2585.0
15°	289.2	345.5	429.2	619.1	884.6	1158.8	1426.8	1732.9	2130.8	2342.6	2559.4
17.5°	215.5	230.5	268.0	375.4	617.2	937.7	1302.5	1704.8	2186.4	2435.1	2682.4
20°	181.2	191.2	208.6	251.1	393.6	722.1	1181.3	1709.8	2366.3	2678.7	2913.6
22.5°	162.4	168.7	183.0	210.5	268.6	526.0	1039.5	1739.1	2584.4	2977.9	3249.0
25°	142.4	150.6	163.0	186.8	223.6	364.8	899.6	1804.7	2889.8	3357.7	3612.6
27.5°	126.8	134.3	146.8	168.7	196.2	278.6	736.5	1861.0	3212.2	3740.0	3948.7
30°	111.2	118.7	131.2	148.7	173.7	225.5	561.0	1894.1	3525.1	4026.8	4187.3
32.5°	98.1	104.3	116.2	131.8	152.4	191.2	442.3	1859.7	3764.4	4287.3	4394.7
35°	85.0	92.5	102.4	116.8	134.9	163.0	367.9	1741.0	3969.9	4555.3	4594.0
37.5°	71.2	80.0	90.6	103.7	118.1	149.9	295.5	1609.8	4189.8	4889.5	4825.8
40°	60.0	68.1	78.1	92.5	105.6	137.4	227.4	1469.9	4427.2	5203.1	5078.8
42.5°	48.7	57.5	69.3	82.5	104.3	119.9	176.2	1325.0	4640.2	5476.1	5307.4
45°	38.7	46.2	58.7	75.6	103.7	103.1	136.2	1181.9	4800.8	5671.0	5477.9
47.5°	30.6	36.9	49.4	73.7	95.6	87.5	109.3	1093.2	4969.4	5846.5	5608.5
50°	24.4	30.6	42.5	76.8	83.7	75.0	91.8	1107.6	5132.5	5935.8	5662.2
52.5°	20.6	26.9	36.9	60.6	64.3	65.6	80.6	1173.8	5343.0	6031.4	5769.0
55°	18.1	23.7	31.2	42.5	50.0	58.7	73.7	1221.9	5624.7	6236.3	6004.6
57.5°	14.4	20.6	28.1	36.2	41.2	51.2	68.1	1225.6	5879.6	6499.3	6317.5
59°	13.1	18.7	26.2	34.4	36.9	46.2	64.3	1193.8	5889.0	6538.7	6461.2
60°	11.9	18.1	25.0	31.9	35.0	43.7	61.2	1156.9	5804.0	6476.2	6520.5
62.5°	10.0	15.6	21.9	25.6	30.0	36.2	53.1	1023.2	5392.4	6193.2	6410.6
65°	8.7	13.7	18.7	21.2	25.0	31.2	46.9	819.0	4937.6	5809.6	6095.8
67.5°	8.1	12.5	16.2	18.1	21.9	28.7	41.9	578.5	4348.5	5323.0	5622.9
70°	7.5	11.9	14.4	16.9	19.4	24.4	35.6	337.3	3349.6	4469.7	4786.4
72.5°	7.5	11.2	12.5	14.4	16.9	21.9	33.1	182.4	2290.1	3409.6	3818.8
75°	7.5	10.6	11.2	12.5	15.0	20.0	29.4	95.6	1480.5	2368.8	2923.6
77.5°	7.5	10.0	11.2	11.9	14.4	17.5	25.6	60.0	986.4	1659.2	1975.9
80°	8.1	10.0	10.6	11.9	13.7	16.2	21.2	40.0	579.7	998.3	1202.5
82.5°	8.7	10.0	11.2	12.5	14.4	15.6	18.7	25.0	267.4	660.3	747.1
85°	9.4	10.6	11.9	13.1	15.0	15.6	17.5	18.1	43.7	298.0	402.9
87.5°	10.0	11.2	12.5	13.7	16.2	16.2	16.2	16.2	15.0	31.9	81.2
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°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	3064.7	3135.3	3184.7	3197.2	3161.6	3145.3	3100.4	3030.4	2987.9	2986.0
5°	3229.7	3395.2	3510.2	3529.5	3460.8	3344.6	3206.6	3028.5	2924.2	2893.0
7.5°	3201.6	3491.4	3676.3	3703.2	3587.6	3365.8	3098.5	2811.7	2698.1	2649.9
10°	3086.0	3439.6	3703.8	3746.3	3592.0	3279.6	2939.8	2620.0	2478.8	2441.9
12.5°	2987.3	3344.6	3579.5	3638.2	3521.4	3209.7	2844.9	2496.9	2345.7	2311.4
15°	2944.2	3232.2	3375.8	3405.8	3386.5	3165.9	2834.9	2478.2	2305.1	2267.6
17.5°	2987.3	3136.6	3154.7	3185.3	3228.4	3161.6	2931.1	2580.0	2393.2	2347.0
20°	3100.4	3053.5	2978.5	2991.7	3090.4	3179.7	3102.2	2805.5	2578.1	2528.8
22.5°	3292.8	3032.9	2863.0	2851.7	2976.7	3240.3	3353.4	3111.0	2847.4	2798.6
25°	3528.9	3084.7	2820.5	2796.1	2932.3	3329.0	3626.3	3485.2	3197.2	3122.8
27.5°	3786.3	3192.2	2820.5	2796.8	2928.6	3407.7	3860.0	3816.3	3559.5	3478.3
30°	3927.4	3280.9	2861.1	2834.2	2974.8	3453.3	3984.9	4110.5	3831.9	3731.3
32.5°	4053.6	3404.0	2940.4	2889.8	3071.6	3520.8	4096.7	4360.4	4048.6	3981.2
35°	4169.8	3535.8	3049.8	2991.0	3199.1	3613.2	4220.4	4622.7	4350.4	4248.5
37.5°	4297.9	3688.8	3220.3	3170.3	3412.1	3793.1	4367.2	4967.6	4647.1	4519.0
40°	4437.2	3866.2	3500.8	3479.5	3750.7	3996.8	4552.8	5335.5	4985.7	4840.1
42.5°	4579.0	4070.5	3844.4	3879.3	4134.2	4282.3	4743.3	5618.5	5263.0	5102.5
45°	4707.7	4331.6	4291.0	4464.1	4581.5	4560.9	4884.5	5817.8	5504.8	5351.1
47.5°	4870.1	4712.1	4831.4	5098.1	5101.2	4863.9	4991.3	5980.8	5712.8	5559.1
50°	5051.9	5161.2	5529.2	5800.9	5727.8	5161.8	5116.2	6173.8	5927.7	5804.7
52.5°	5262.4	5664.1	6173.8	6475.6	6305.0	5486.7	5324.3	6382.5	6268.8	6150.7
55°	5507.3	6007.1	6816.7	7057.2	6885.4	5890.2	5640.4	6665.5	6654.2	6573.6
57.5°	5784.0	6369.4	7189.0	7514.4	7361.4	6363.8	6082.0	6932.2	6889.7	6844.8
59°	6002.7	6555.5	7353.3	7690.6	7598.1	6695.5	6378.7	7098.4	6944.1	6876.6
60°	6135.1	6681.7	7413.9	7714.3	7693.1	6892.9	6566.8	7179.6	6943.5	6849.8
62.5°	6528.0	6902.2	7390.7	7608.8	7691.8	7271.4	7118.4	7268.9	6814.8	6677.3
65°	6668.0	6829.1	7007.8	6980.9	7052.2	7252.1	7470.7	7170.9	6539.9	6344.4
67.5°	6395.6	6027.7	6090.8	5911.5	5876.5	6447.5	7327.7	6691.1	6002.1	5762.8
70°	5391.1	4617.7	4585.9	4668.3	4442.2	5219.9	6579.9	5767.2	5114.4	4843.2
72.5°	4243.5	3263.4	2994.8	3298.4	3291.5	3982.4	5466.1	4092.4	3455.2	3432.1
75°	3337.1	2272.0	1994.0	2043.4	2138.3	2883.0	4353.5	2598.7	2127.7	1939.0
77.5°	2240.2	1609.8	1501.8	1441.2	1543.6	1851.0	2754.3	1409.3	1193.2	1130.1
80°	1291.2	1169.4	1328.1	1205.7	1260.6	1166.3	1370.0	646.6	536.6	581.0
82.5°	840.2	665.9	709.7	527.2	720.9	727.1	439.8	191.2	161.8	171.8
85°	525.4	312.3	175.5	124.9	248.6	457.3	137.4	11.9	13.7	11.9
87.5°	136.2	51.8	21.9	32.5	40.0	35.6	31.9	1.9	0.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)