

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: P528861

Luminaire Tested: **GALN-SA4A-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8364 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

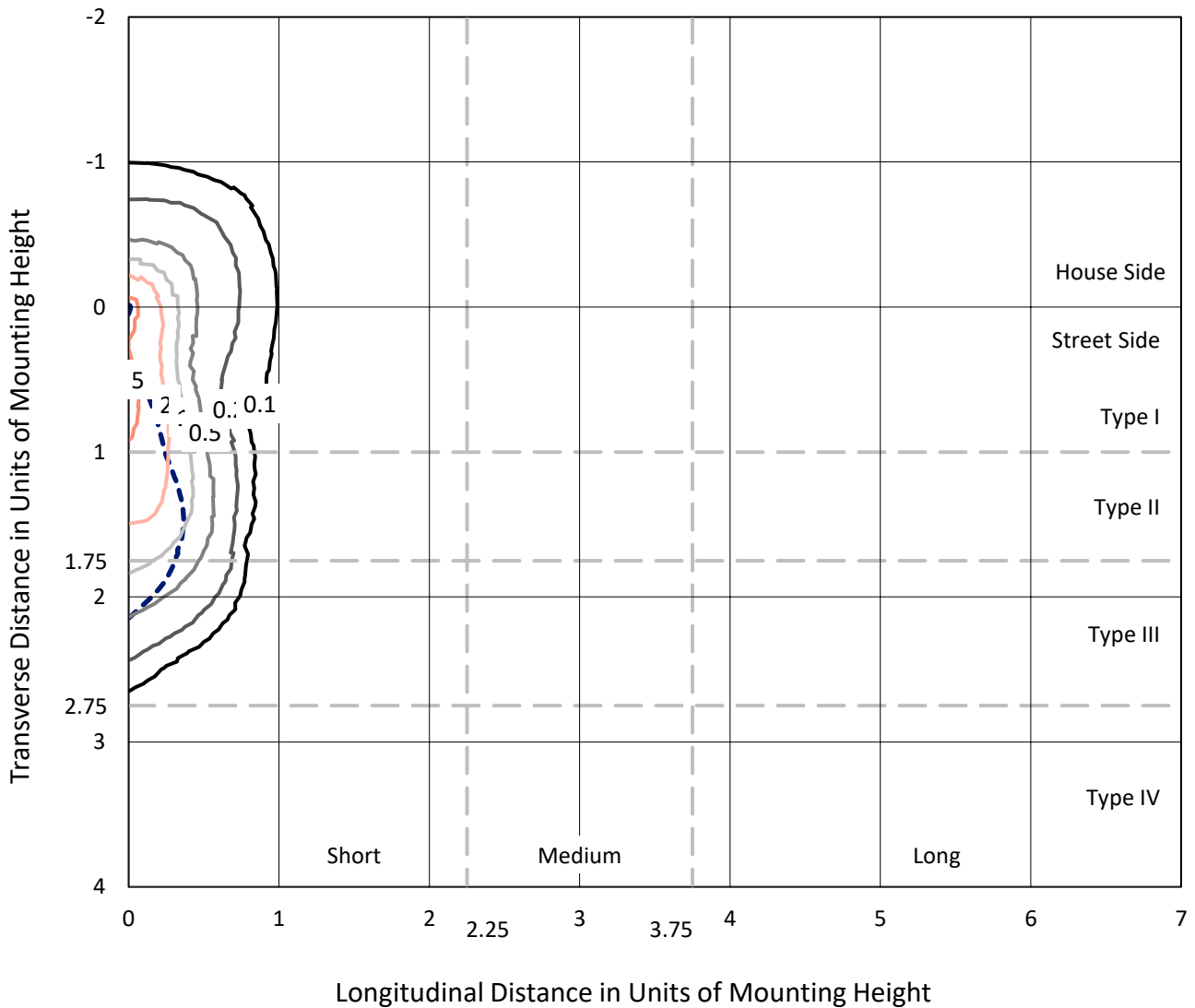
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

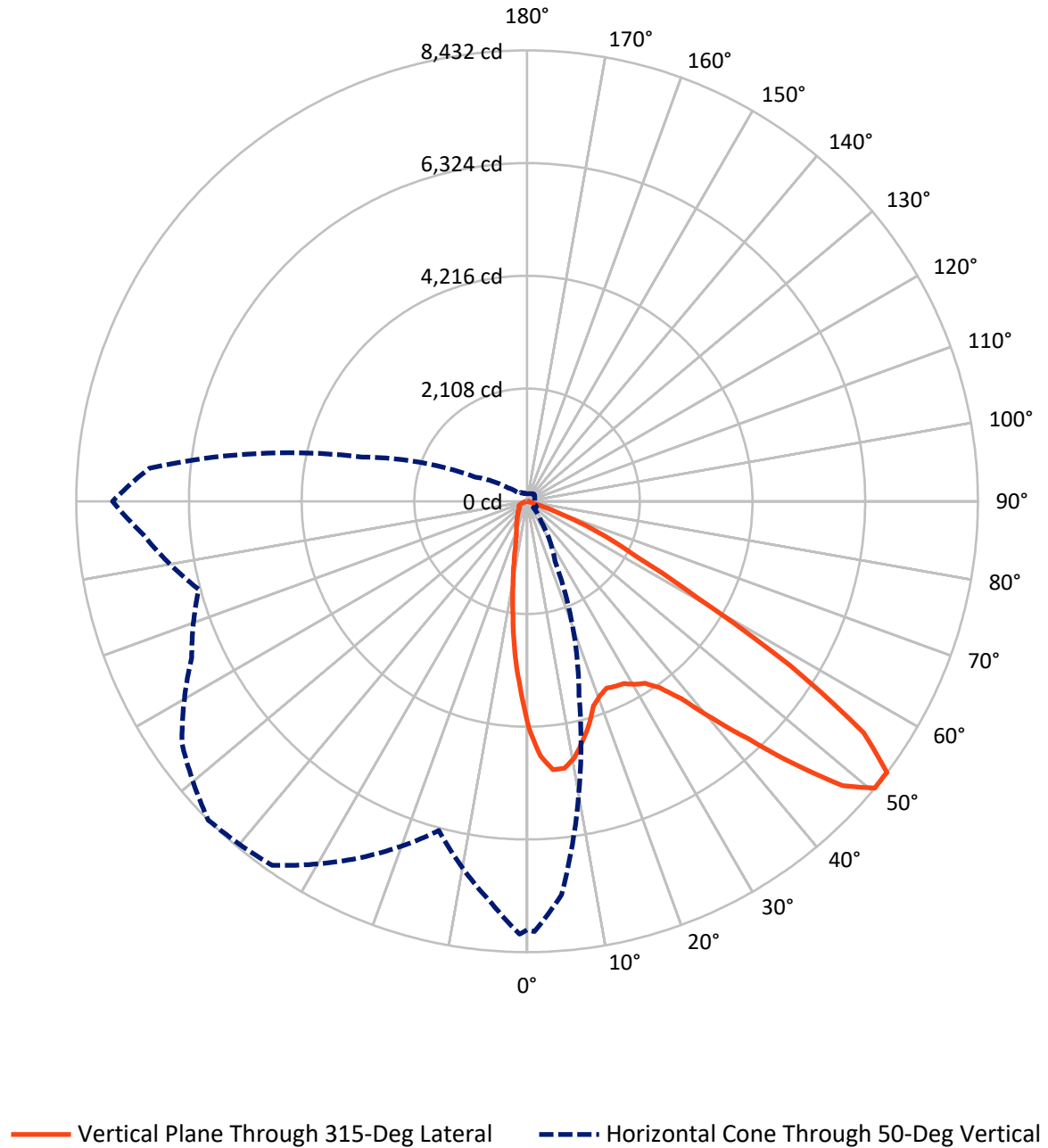
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1675.3	0.0	1675.3
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	6688.7	0.0	6688.7
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	8364.0	0.0	8364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.2	3.7
10°-20°	614.5	7.3
20°-30°	923.1	11.0
30°-40°	1385.5	16.6
40°-50°	1947.3	23.3
50°-60°	2100.5	25.1
60°-70°	975.3	11.7
70°-80°	91.8	1.1
80°-90°	16.9	0.2
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°	8364.0	100.0
0°-180°	8364.0	100.0

**Coefficient of Utilization**



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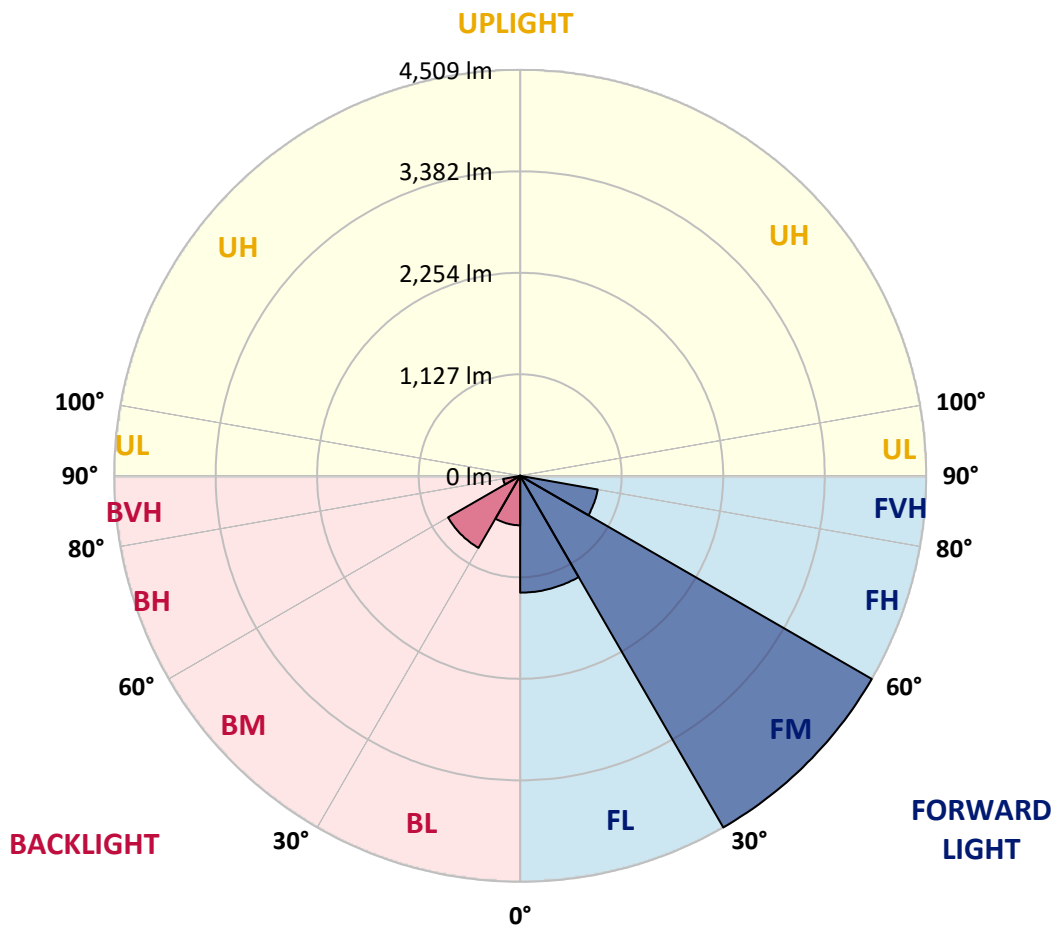
CATALOG NUMBER: GALN-SA4A-727-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.6	15.5			
FM (30°-60°)	4508.8	53.9			
FH (60°-80°)	874.6	10.5			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	549.1	6.6	B2/1000		
BM (30°-60°)	924.5	11.1	B1/1000		
BH (60°-80°)	192.4	2.3	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	4409.2	4341.2	4254.9	4183.5	4077.3	3863.2	3805.2	3735.5	3677.4	3599.4	3489.9
5°	4009.3	3987.7	3947.9	3679.0	3484.9	3226.0	3013.6	2924.0	2806.2	2709.9	2640.2
7.5°	3703.9	3617.6	3491.5	3221.0	2910.7	2633.6	2397.9	2260.2	2104.2	2051.1	1956.5
10°	3377.0	3396.9	3211.1	2831.1	2456.0	2232.0	2086.0	1953.2	1812.1	1719.2	1584.8
12.5°	3272.5	3207.8	3065.0	2595.4	2275.1	2066.0	1888.5	1724.2	1574.8	1425.5	1296.0
15°	3340.5	3240.9	3041.8	2545.6	2135.7	1875.2	1652.8	1430.5	1292.7	1101.9	967.5
17.5°	3584.5	3504.8	3237.6	2598.7	2064.4	1692.7	1362.4	1133.4	922.7	750.1	682.0
20°	3991.0	3878.2	3543.0	2666.8	1958.2	1471.9	1105.2	823.1	624.0	550.9	512.8
22.5°	4389.3	4327.9	3904.7	2797.9	1863.6	1276.1	829.7	554.3	466.3	453.0	428.1
25°	5147.7	4963.5	4457.3	3035.2	1790.6	1091.9	625.6	446.4	395.0	385.0	388.3
27.5°	5599.0	5444.7	4968.4	3192.8	1709.3	950.9	529.4	409.9	375.0	353.5	345.2
30°	6032.2	5852.9	5222.3	3285.7	1535.0	801.5	469.6	393.3	385.0	353.5	343.5
32.5°	6365.7	6189.8	5589.1	3425.1	1463.7	705.3	386.7	307.0	285.4	282.1	312.0
35°	6876.8	6689.3	5902.7	3501.5	1408.9	655.5	335.2	273.8	248.9	239.0	240.6
37.5°	7353.1	7225.3	6193.1	3531.3	1350.8	640.6	300.4	245.6	224.0	217.4	215.7
40°	7751.4	7466.0	6468.6	3562.9	1325.9	612.3	278.8	224.0	209.1	199.1	199.1
42.5°	7933.9	7643.5	6777.3	3544.6	1319.3	567.5	278.8	205.8	194.2	184.2	182.5
45°	7894.1	7776.3	6915.0	3536.3	1319.3	522.7	253.9	200.8	184.2	170.9	167.6
47.5°	7997.0	7842.6	7087.6	3571.2	1292.7	491.2	214.1	210.8	174.2	157.6	154.3
50°	8015.2	8045.1	7388.0	3752.1	1234.6	451.4	167.6	207.4	167.6	142.7	139.4
52°	8134.7	7948.9	7479.2	3848.3	1173.2	421.5	141.1	177.6	161.0	132.8	129.4
52.5°	7970.4	8091.6	7500.8	3883.2	1179.9	401.6	136.1	174.2	157.6	132.8	124.5
55°	7786.2	7902.4	7412.8	3957.8	1082.0	315.3	106.2	126.1	142.7	116.2	111.2
57.5°	6767.3	6885.1	6442.1	3624.3	881.2	222.4	88.0	94.6	126.1	107.9	102.9
60°	6015.6	5930.9	5406.5	3023.6	625.6	124.5	69.7	73.0	137.7	99.6	97.9
62.5°	5497.8	5316.9	4518.7	2334.9	381.7	83.0	54.8	56.4	106.2	92.9	92.9
65°	4067.4	3864.9	3002.0	1412.2	187.5	58.1	41.5	44.8	66.4	79.7	79.7
67.5°	2321.6	2243.6	1450.4	637.2	78.0	36.5	31.5	34.8	51.4	64.7	61.4
70°	1067.0	957.5	557.6	134.4	36.5	24.9	24.9	28.2	41.5	48.1	44.8
72.5°	312.0	295.4	136.1	21.6	14.9	14.9	16.6	21.6	31.5	36.5	33.2
75°	23.2	14.9	10.0	6.6	6.6	10.0	13.3	21.6	31.5	34.8	28.2
77.5°	1.7	3.3	1.7	1.7	5.0	10.0	14.9	26.6	41.5	43.1	31.5
80°	1.7	1.7	0.0	1.7	5.0	10.0	16.6	29.9	46.5	49.8	26.6
82.5°	0.0	0.0	0.0	1.7	6.6	13.3	19.9	31.5	43.1	53.1	28.2
85°	0.0	0.0	0.0	1.7	10.0	18.3	23.2	8.3	5.0	0.0	0.0
87.5°	0.0	0.0	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°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	3567.9	3524.7	3508.1	3523.1	3518.1	3513.1	3604.4	3584.5	3581.1	3611.0	3604.4
5°	2678.4	2602.0	2811.1	2726.5	2814.5	2867.6	2877.5	2882.5	2943.9	2879.2	2963.8
7.5°	1908.4	1928.3	1926.6	1983.1	2084.3	2173.9	2227.0	2185.5	2182.2	2173.9	2137.4
10°	1525.1	1490.2	1483.6	1470.3	1501.8	1578.2	1642.9	1591.4	1554.9	1604.7	1589.8
12.5°	1246.3	1198.1	1171.6	1118.5	1120.1	1171.6	1171.6	1171.6	1208.1	1236.3	1257.9
15°	955.9	916.0	916.0	862.9	851.3	853.0	879.5	882.8	940.9	957.5	965.8
17.5°	668.8	647.2	672.1	693.7	680.4	683.7	693.7	697.0	705.3	698.6	715.2
20°	514.4	511.1	517.8	555.9	584.1	600.7	589.1	572.5	562.6	539.3	539.3
22.5°	436.4	443.1	454.7	486.2	522.7	532.7	519.4	481.2	451.4	448.1	449.7
25°	388.3	395.0	413.2	433.1	453.0	469.6	456.4	428.1	411.5	396.6	396.6
27.5°	358.4	361.8	371.7	386.7	403.3	416.5	411.5	396.6	378.4	371.7	356.8
30°	335.2	340.2	351.8	355.1	370.1	376.7	368.4	365.1	353.5	345.2	340.2
32.5°	323.6	321.9	330.2	333.6	335.2	340.2	330.2	335.2	333.6	320.3	315.3
35°	243.9	257.2	278.8	297.0	302.0	308.7	307.0	300.4	282.1	267.2	248.9
37.5°	219.0	227.3	239.0	253.9	273.8	282.1	278.8	262.2	240.6	230.7	227.3
40°	202.5	207.4	217.4	227.3	247.3	262.2	250.6	235.6	219.0	210.8	205.8
42.5°	187.5	189.2	194.2	204.1	219.0	242.3	222.4	202.5	195.8	190.8	187.5
45°	170.9	170.9	177.6	182.5	199.1	220.7	200.8	182.5	179.2	175.9	174.2
47.5°	157.6	159.3	162.6	169.3	182.5	197.5	184.2	169.3	161.0	159.3	156.0
50°	141.1	142.7	149.4	156.0	172.6	180.9	172.6	156.0	147.7	142.7	142.7
52°	127.8	132.8	139.4	152.7	164.3	177.6	167.6	149.4	139.4	134.4	131.1
52.5°	126.1	129.4	136.1	151.0	164.3	175.9	165.9	147.7	136.1	132.8	129.4
55°	112.8	117.8	129.4	147.7	162.6	175.9	162.6	146.0	129.4	121.1	117.8
57.5°	107.9	111.2	126.1	149.4	161.0	175.9	162.6	146.0	129.4	114.5	111.2
60°	102.9	109.5	126.1	144.4	159.3	177.6	164.3	144.4	126.1	107.9	107.9
62.5°	97.9	102.9	124.5	141.1	152.7	170.9	157.6	141.1	121.1	102.9	101.2
65°	84.6	92.9	109.5	117.8	131.1	147.7	134.4	122.8	106.2	91.3	89.6
67.5°	64.7	68.0	81.3	91.3	99.6	114.5	107.9	92.9	81.3	69.7	69.7
70°	44.8	48.1	58.1	63.1	71.4	79.7	74.7	63.1	54.8	48.1	46.5
72.5°	31.5	33.2	36.5	39.8	43.1	46.5	44.8	36.5	31.5	29.9	28.2
75°	24.9	28.2	29.9	28.2	26.6	24.9	24.9	21.6	18.3	16.6	16.6
77.5°	24.9	26.6	24.9	21.6	18.3	16.6	14.9	13.3	10.0	8.3	10.0
80°	21.6	21.6	21.6	18.3	16.6	14.9	13.3	11.6	10.0	8.3	8.3
82.5°	23.2	23.2	21.6	18.3	18.3	14.9	14.9	13.3	11.6	8.3	8.3
85°	0.0	0.0	0.0	3.3	8.3	14.9	14.9	13.3	11.6	10.0	10.0
87.5°	0.0	0.0	0.0	0.0	1.7	3.3	6.6	8.3	10.0	10.0	10.0
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°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	3664.1	3727.2	3846.6	3966.1	4039.1	4125.4	4281.4	4364.4	4472.3	4525.4	4629.9
5°	2952.2	3101.5	3154.7	3290.7	3436.8	3582.8	3815.1	4070.7	4283.1	4429.1	4618.3
7.5°	2154.0	2188.8	2394.6	2485.9	2724.8	2990.4	3307.3	3629.3	3898.1	4137.1	4281.4
10°	1614.7	1742.4	1871.9	2046.1	2238.6	2512.4	2816.1	3171.2	3519.7	3758.7	3941.2
12.5°	1297.7	1398.9	1571.5	1759.0	1996.3	2177.2	2482.6	2834.4	3285.7	3519.7	3760.4
15°	982.4	1111.8	1307.7	1501.8	1752.4	1943.2	2251.9	2695.0	3275.8	3597.7	3805.2
17.5°	728.5	816.5	992.4	1209.8	1465.3	1734.1	2150.7	2680.0	3387.0	3770.3	3984.4
20°	557.6	587.5	698.6	892.8	1169.9	1521.7	1986.4	2744.8	3715.6	4190.2	4407.5
22.5°	451.4	464.7	507.8	642.2	911.0	1335.9	1908.4	2789.6	4085.6	4693.0	4983.4
25°	393.3	390.0	418.2	476.3	711.9	1161.6	1808.8	2958.8	4538.6	5283.7	5544.3
27.5°	358.4	358.4	371.7	413.2	590.8	1048.8	1745.8	3080.0	4995.0	5803.2	5944.2
30°	340.2	343.5	381.7	395.0	491.2	914.4	1641.2	3202.8	5431.4	6135.1	6329.2
32.5°	315.3	302.0	293.7	326.9	413.2	793.2	1536.7	3254.2	5784.9	6541.6	6707.6
35°	242.3	235.6	245.6	270.5	355.1	690.3	1420.5	3312.3	6191.5	7012.9	7046.1
37.5°	219.0	217.4	224.0	245.6	298.7	600.7	1337.5	3297.4	6501.8	7402.9	7313.3
40°	202.5	202.5	207.4	225.7	267.2	537.7	1251.2	3284.1	6802.2	7841.0	7578.8
42.5°	189.2	189.2	197.5	209.1	253.9	496.2	1186.5	3265.8	7054.4	8109.8	7734.8
45°	170.9	175.9	189.2	200.8	257.2	468.0	1138.4	3196.1	7140.7	8106.5	7660.1
47.5°	157.6	164.3	177.6	194.2	232.3	459.7	1105.2	3134.7	7110.8	7907.4	7426.1
50°	142.7	151.0	169.3	197.5	197.5	443.1	1070.4	3189.5	7089.3	7753.0	7202.1
52°	132.8	139.4	162.6	192.5	172.6	408.2	1048.8	3295.7	7177.2	7733.1	7102.5
52.5°	131.1	136.1	157.6	189.2	164.3	401.6	1033.8	3320.6	7205.4	7683.3	7170.6
55°	116.2	122.8	144.4	147.7	134.4	330.2	985.7	3377.0	7066.0	7585.4	7105.8
57.5°	109.5	112.8	127.8	121.1	116.2	248.9	848.0	3289.1	6276.1	6737.4	6611.3
60°	101.2	104.5	119.5	94.6	97.9	174.2	637.2	2855.9	5039.8	5614.0	5841.3
62.5°	97.9	96.2	112.8	76.3	83.0	126.1	449.7	2321.6	3883.2	4621.6	5014.9
65°	86.3	84.6	81.3	64.7	71.4	97.9	268.8	1515.1	2736.5	3496.5	3712.2
67.5°	66.4	69.7	59.7	51.4	59.7	76.3	149.4	678.7	1435.4	2097.6	2271.8
70°	46.5	49.8	48.1	44.8	53.1	63.1	86.3	232.3	594.1	1101.9	1214.7
72.5°	28.2	34.8	36.5	38.2	46.5	54.8	61.4	74.7	157.6	390.0	484.6
75°	16.6	23.2	28.2	33.2	38.2	46.5	51.4	53.1	54.8	73.0	117.8
77.5°	11.6	16.6	24.9	31.5	38.2	46.5	54.8	58.1	54.8	51.4	54.8
80°	10.0	16.6	23.2	29.9	39.8	48.1	54.8	54.8	53.1	46.5	49.8
82.5°	10.0	16.6	24.9	31.5	38.2	46.5	53.1	54.8	49.8	46.5	48.1
85°	11.6	18.3	26.6	33.2	41.5	38.2	34.8	28.2	26.6	21.6	23.2
87.5°	11.6	16.6	16.6	18.3	19.9	19.9	19.9	18.3	14.9	13.3	13.3
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°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	4634.9	4767.7	4762.7	4766.0	4746.1	4611.7	4546.9	4382.7	4429.1	4409.2
5°	4812.5	4943.6	5056.4	5043.1	4890.5	4707.9	4437.4	4181.9	4112.2	4009.3
7.5°	4634.9	4950.2	5054.7	5039.8	4814.1	4580.1	4148.7	3893.1	3772.0	3703.9
10°	4352.8	4717.9	4847.3	4873.9	4721.2	4366.1	3969.4	3559.6	3494.8	3377.0
12.5°	4191.8	4457.3	4537.0	4608.3	4555.2	4289.7	3833.4	3440.1	3350.5	3272.5
15°	4060.7	4218.4	4251.6	4332.9	4364.4	4221.7	3904.7	3569.5	3348.8	3340.5
17.5°	4181.9	4117.1	3996.0	4020.9	4120.5	4223.3	4088.9	3825.1	3611.0	3584.5
20°	4382.7	4097.2	3823.4	3884.8	3967.8	4283.1	4367.7	4181.9	4059.1	3991.0
22.5°	4613.3	4132.1	3768.7	3798.5	3956.2	4417.5	4819.1	4716.2	4487.2	4389.3
25°	5039.8	4228.3	3811.8	3831.7	4047.4	4605.0	5227.3	5303.7	5167.6	5147.7
27.5°	5456.3	4477.2	3906.4	3861.6	4093.9	4787.6	5474.6	5884.5	5645.5	5599.0
30°	5668.7	4679.7	4047.4	3971.1	4286.4	4898.8	5623.9	6262.8	6053.7	6032.2
32.5°	5994.0	4863.9	4157.0	4059.1	4394.3	5036.5	5902.7	6676.0	6473.6	6365.7
35°	6130.1	5064.7	4397.6	4283.1	4702.9	5229.0	6045.4	7044.4	6981.4	6876.8
37.5°	6392.3	5280.4	4681.4	4674.7	5076.3	5479.6	6302.7	7545.6	7534.0	7353.1
40°	6413.8	5516.1	5129.4	5338.5	5653.8	5916.0	6528.4	7685.0	7874.2	7751.4
42.5°	6447.0	5929.3	5904.4	6077.0	6347.5	6291.0	6536.6	7718.2	8006.9	7933.9
45°	6462.0	6342.5	6692.6	7011.3	7124.1	6782.2	6458.7	7655.1	8076.6	7894.1
47.5°	6342.5	6697.6	7329.9	7945.5	7978.7	7084.3	6425.5	7590.4	8118.1	7997.0
50°	6359.1	6920.0	7880.8	8431.8	8310.6	7351.4	6374.0	7550.6	8096.5	8015.2
52°	6319.3	6925.0	7958.8	8421.8	8337.2	7203.8	6286.1	7397.9	8076.6	8134.7
52.5°	6364.1	6895.1	7877.5	8428.4	8318.9	7276.8	6274.5	7482.5	8088.3	7970.4
55°	6209.7	6540.0	7401.2	7635.2	7618.6	6604.7	5917.7	7202.1	7784.6	7786.2
57.5°	5612.3	5668.7	5804.8	5799.8	5723.5	5192.5	5061.4	6622.9	6939.9	6767.3
60°	4945.2	4150.3	3783.6	3634.2	3549.6	3463.3	4477.2	6058.7	6088.6	6015.6
62.5°	4273.1	2877.5	2389.6	2348.1	2368.1	2683.4	4327.9	5834.7	5655.5	5497.8
65°	3448.4	2097.6	1735.8	1681.0	1875.2	2215.4	3503.1	4473.9	4198.5	4067.4
67.5°	2165.6	1530.0	1173.2	1070.4	1304.3	1525.1	2301.7	2811.1	2502.5	2321.6
70°	1284.4	854.6	531.0	476.3	536.0	813.1	1289.4	1402.3	1160.0	1067.0
72.5°	506.1	313.6	147.7	126.1	131.1	285.4	474.6	463.0	350.1	312.0
75°	136.1	94.6	51.4	41.5	34.8	53.1	76.3	49.8	18.3	23.2
77.5°	63.1	56.4	44.8	34.8	26.6	19.9	10.0	3.3	3.3	1.7
80°	54.8	48.1	41.5	34.8	26.6	16.6	8.3	1.7	1.7	1.7
82.5°	51.4	44.8	38.2	31.5	24.9	16.6	8.3	1.7	0.0	0.0
85°	21.6	28.2	31.5	29.9	26.6	16.6	8.3	1.7	0.0	0.0
87.5°	11.6	10.0	8.3	6.6	5.0	3.3	3.3	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

(END OF REPORT)