

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: P528157

Luminaire Tested: **GALN-SA3B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7853 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

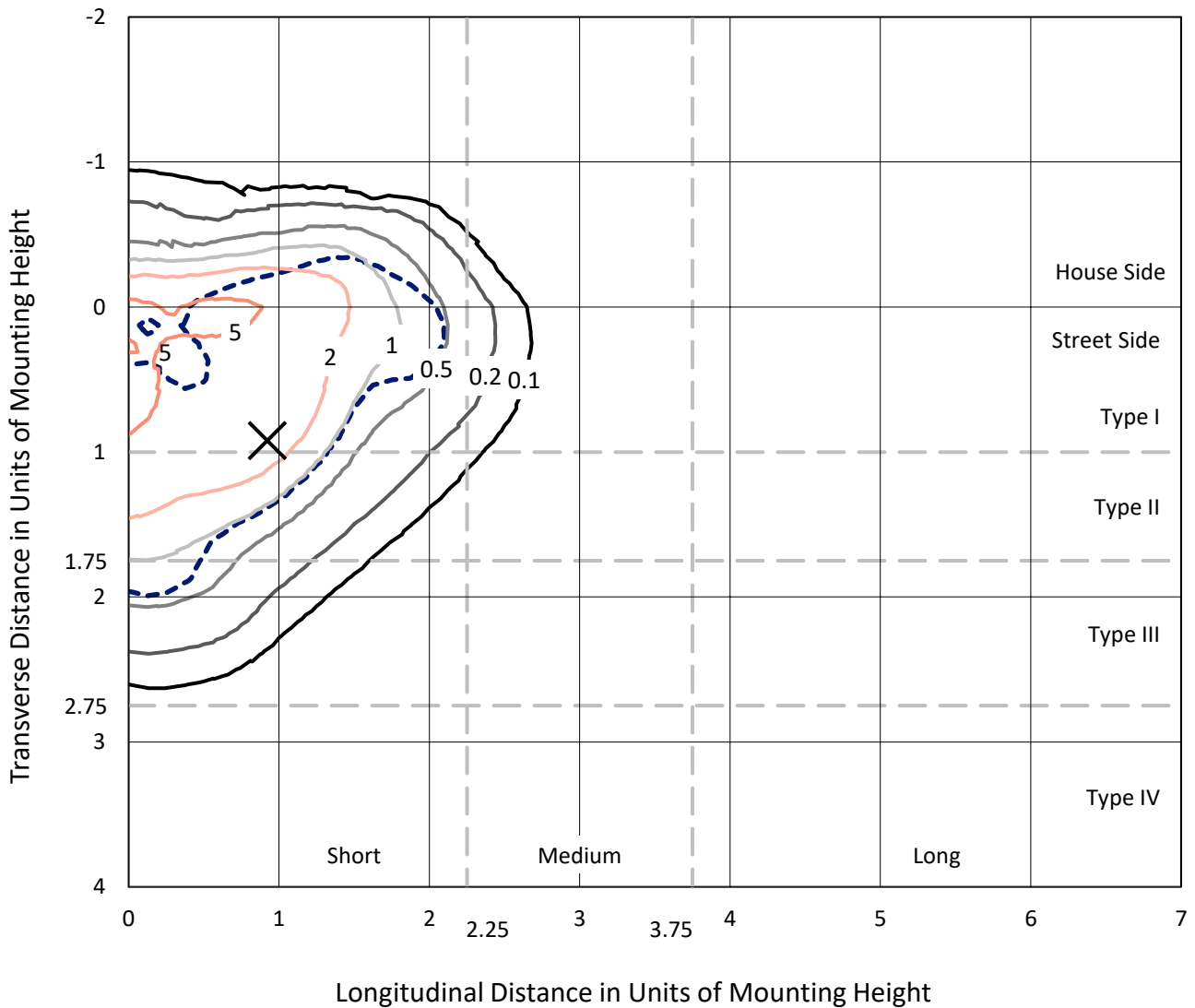
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

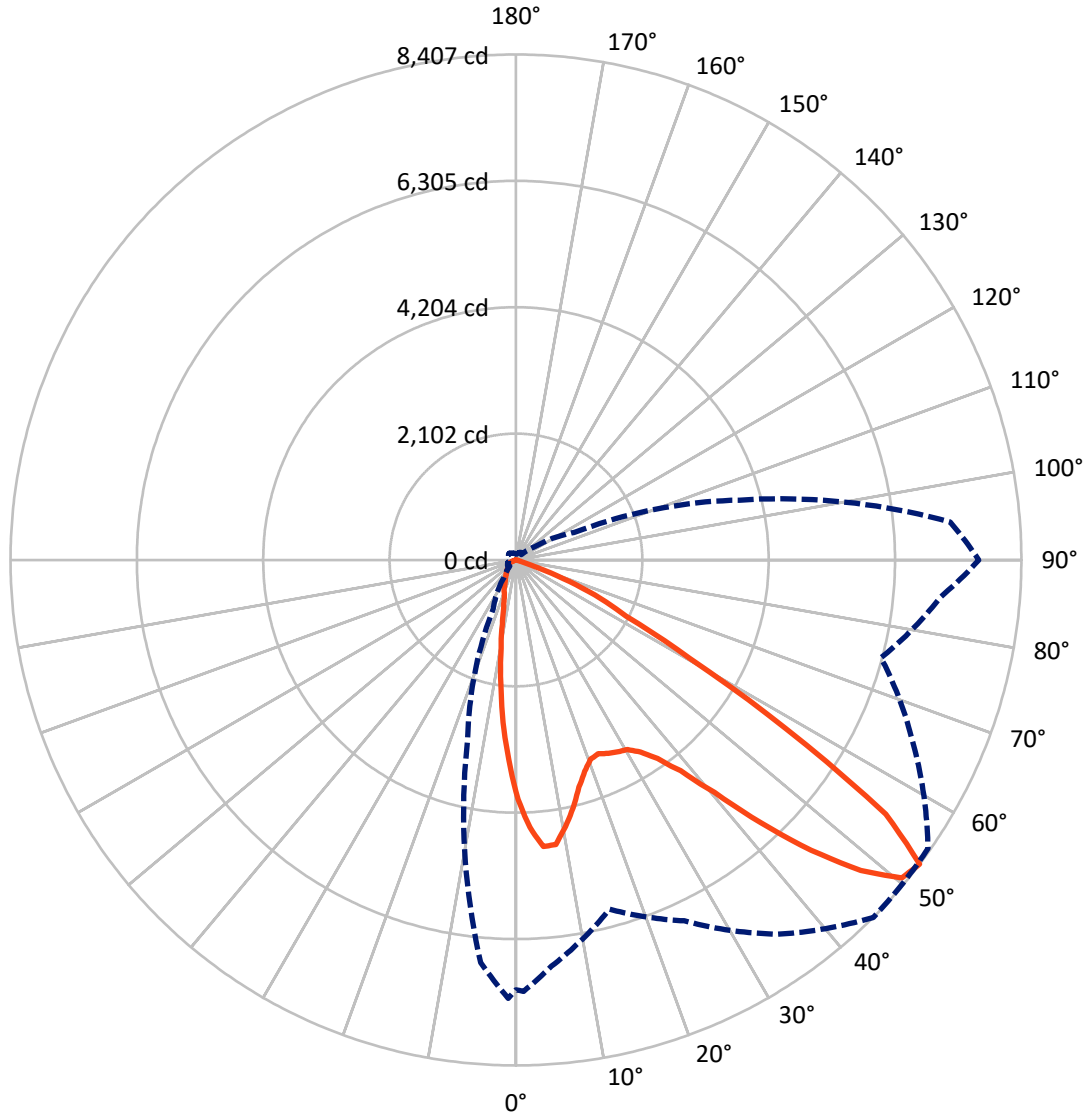
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1593.8	0.0	1593.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	6259.2	0.0	6259.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	7853.0	0.0	7853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	3.7
10°-20°	572.9	7.3
20°-30°	871.9	11.1
30°-40°	1303.2	16.6
40°-50°	1855.8	23.6
50°-60°	1994.9	25.4
60°-70°	884.0	11.3
70°-80°	71.5	0.9
80°-90°	8.3	0.1
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°	7853.0	100.0
0°-180°	7853.0	100.0

**Coefficient of Utilization**

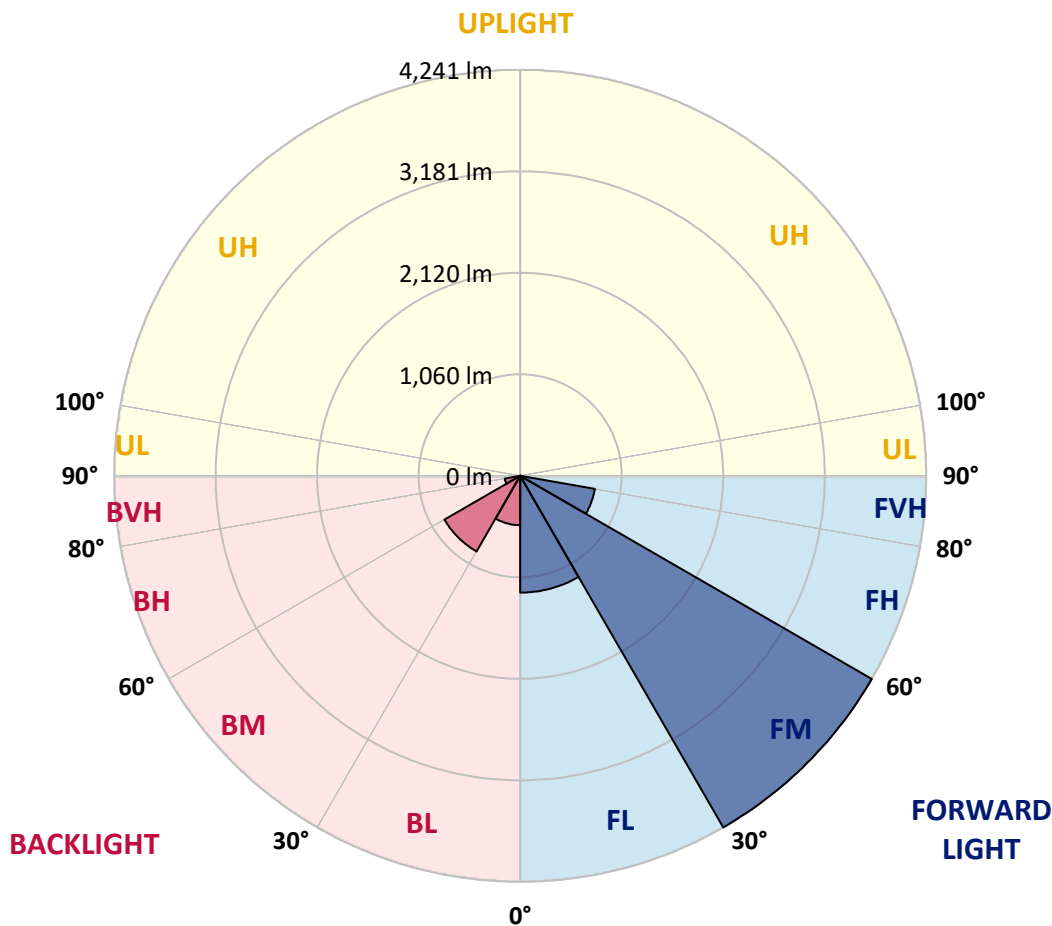


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.7	15.5			
FM (30°-60°)	4240.9	54.0			
FH (60°-80°)	792.5	10.1			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	515.5	6.6	B2/1000		
BM (30°-60°)	913.1	11.6	B1/1000		
BH (60°-80°)	163.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			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°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	4213.5	4225.9	4293.8	4378.8	4423.6	4525.5	4454.5	4473.0	4434.4	4298.5	4191.9
5°	4085.3	4083.8	4170.3	4380.3	4579.6	4781.9	4788.1	4680.0	4490.0	4281.5	3983.4
7.5°	3699.2	3759.4	3849.0	4184.2	4553.3	4704.7	4777.3	4650.6	4358.7	4060.6	3737.8
10°	3407.3	3438.2	3589.5	3994.2	4264.5	4466.8	4511.6	4439.0	4215.1	3842.8	3481.4
12.5°	3238.9	3254.4	3432.0	3771.8	4057.5	4207.3	4229.0	4262.9	4102.3	3753.2	3319.2
15°	3240.5	3252.8	3492.2	3776.4	3889.2	3849.0	3920.1	3918.5	3988.0	3736.3	3455.1
17.5°	3473.7	3487.6	3703.8	3844.4	3794.9	3700.7	3696.1	3767.1	3913.9	3947.9	3660.6
20°	3875.3	3907.7	4066.8	4059.1	3781.0	3591.1	3538.6	3592.6	3934.0	4127.0	4074.5
22.5°	4415.9	4460.6	4571.9	4358.7	3844.4	3516.9	3499.9	3605.0	4066.8	4527.1	4544.1
25°	5042.9	5118.6	5172.7	4899.3	4069.9	3645.1	3564.8	3745.5	4246.0	4961.1	5141.8
27.5°	5458.4	5537.2	5524.8	5134.1	4221.2	3679.1	3611.1	3779.5	4402.0	5064.6	5453.8
30°	5782.8	5830.7	5917.2	5260.7	4372.6	3774.9	3659.0	3923.1	4452.9	5243.7	5830.7
32.5°	6161.2	6193.6	6199.8	5484.7	4605.8	3895.3	3807.3	4102.3	4678.4	5415.2	6164.3
35°	6542.7	6590.6	6490.2	5761.2	4749.5	4119.3	4054.4	4412.8	4859.1	5592.8	6531.9
37.5°	6956.6	6981.3	6749.7	5875.4	4954.9	4483.8	4448.3	4747.9	5172.7	5914.1	6939.6
40°	7304.2	7327.3	7026.1	6016.0	5171.1	4993.5	5084.6	5387.4	5599.0	6122.6	7143.5
42.5°	7497.2	7551.3	7118.8	5938.8	5605.2	5571.2	5975.8	6082.4	6093.2	6181.3	7325.8
45°	7549.7	7525.0	6965.9	6002.1	5985.1	6521.1	6888.7	7029.2	6584.4	6289.4	7372.1
47.5°	7307.2	7339.7	6740.4	5946.5	6484.0	7240.8	7716.5	7977.6	6950.5	6195.2	7257.8
50°	7111.1	7069.4	6667.8	5906.3	6618.4	7580.6	8314.3	8373.0	7287.2	6311.0	7132.7
52.5°	7149.7	7176.0	6783.6	6012.9	6621.5	7600.7	8407.0	8366.8	7298.0	6284.8	7087.9
55°	7231.6	7115.7	6734.2	5778.1	6178.2	7040.0	7461.7	7399.9	6735.8	6005.2	6978.3
57.5°	6240.0	6419.1	6192.1	5158.8	5070.7	5304.0	5296.2	5486.2	5024.4	5168.0	6352.7
60°	5064.6	5095.5	5180.4	4412.8	3509.2	3428.9	3317.7	3197.2	3381.0	4418.9	5778.1
62.5°	4454.5	4417.4	4720.1	4014.3	2477.4	2074.3	2055.8	2129.9	2608.7	4215.1	5419.8
65°	3237.4	3283.7	3503.0	3115.3	1859.6	1583.2	1555.4	1774.7	2111.4	3377.9	4136.3
67.5°	1977.0	2066.6	2086.7	1921.4	1261.9	1002.4	962.3	1161.5	1524.5	2185.5	2424.9
70°	912.8	1020.9	1122.9	1048.7	730.6	412.4	389.2	488.1	769.2	1257.3	1286.6
72.5°	276.5	278.0	389.2	406.2	236.3	92.7	81.9	108.1	261.0	415.5	437.1
75°	20.1	21.6	52.5	60.2	44.8	23.2	24.7	29.3	55.6	92.7	69.5
77.5°	1.5	1.5	1.5	7.7	13.9	15.4	20.1	23.2	29.3	34.0	30.9
80°	1.5	0.0	1.5	6.2	10.8	15.4	18.5	21.6	23.2	26.3	23.2
82.5°	0.0	0.0	0.0	4.6	10.8	15.4	17.0	23.2	26.3	30.9	26.3
85°	0.0	0.0	0.0	4.6	10.8	17.0	15.4	7.7	0.0	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°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	4210.4	4150.2	4012.7	3943.2	3779.5	3756.3	3595.7	3569.4	3515.4	3486.0	3415.0
5°	3852.1	3779.5	3555.5	3367.1	3147.8	2994.9	2877.5	2770.9	2709.1	2652.0	2678.2
7.5°	3560.2	3348.6	3099.9	2784.8	2531.5	2367.8	2188.6	2041.9	1955.4	1896.7	1910.6
10°	3254.4	3116.9	2770.9	2417.2	2111.4	1995.6	1855.0	1742.2	1620.2	1515.2	1465.8
12.5°	3158.6	2954.7	2520.7	2160.8	1929.1	1816.4	1655.8	1526.0	1370.0	1241.8	1197.0
15°	3175.6	2979.4	2452.7	2068.1	1794.8	1600.1	1408.6	1248.0	1076.5	987.0	940.6
17.5°	3452.1	3112.3	2497.5	1970.8	1607.9	1337.6	1101.3	897.4	769.2	676.5	656.4
20°	3791.9	3399.5	2593.3	1899.8	1455.0	1064.2	804.7	628.6	522.1	506.6	502.0
22.5°	4289.2	3869.1	2798.7	1851.9	1268.1	829.4	551.4	457.2	427.8	424.7	426.3
25°	4984.2	4457.6	3022.7	1811.8	1127.5	639.4	451.0	387.7	378.4	373.8	381.5
27.5°	5285.4	4812.8	3141.6	1725.3	999.3	576.1	444.8	384.6	358.3	350.6	355.2
30°	5657.7	5049.1	3328.5	1577.0	810.9	474.2	415.5	418.6	406.2	367.6	355.2
32.5°	6151.9	5344.1	3422.7	1472.0	724.4	392.3	304.3	279.6	312.0	318.2	329.0
35°	6468.6	5643.8	3470.6	1410.2	679.6	335.2	257.9	234.8	227.0	228.6	234.8
37.5°	7057.0	6048.4	3530.8	1345.3	645.6	291.9	233.2	211.6	200.8	200.8	207.0
40°	7409.2	6369.7	3612.7	1309.8	611.6	265.7	211.6	193.1	183.8	183.8	186.9
42.5°	7497.2	6528.8	3584.9	1297.4	573.0	259.5	193.1	179.2	168.4	166.8	165.3
45°	7654.8	6771.3	3589.5	1283.5	532.9	236.3	182.3	166.8	151.4	149.8	148.3
47.5°	7827.8	6945.8	3598.8	1229.5	494.3	197.7	190.0	154.5	135.9	132.8	132.8
50°	7679.5	7084.8	3679.1	1175.4	444.8	160.6	186.9	145.2	120.5	115.8	117.4
52.5°	7698.0	7248.5	3849.0	1099.7	383.0	128.2	151.4	137.5	109.7	101.9	103.5
55°	7401.5	7075.6	3872.2	1019.4	299.6	98.9	115.8	120.5	92.7	89.6	89.6
57.5°	6371.2	5991.3	3416.5	826.3	197.7	81.9	83.4	105.0	80.3	77.2	78.8
60°	5452.2	4809.7	2749.3	545.2	123.6	64.9	60.2	106.6	71.0	69.5	74.1
62.5°	4970.3	3952.5	2085.1	338.3	84.9	49.4	41.7	86.5	61.8	61.8	68.0
65°	3591.1	2655.1	1212.5	177.6	60.2	38.6	30.9	49.4	51.0	52.5	55.6
67.5°	2224.1	1340.7	511.2	86.5	40.2	26.3	20.1	30.9	34.0	34.0	37.1
70°	1098.2	534.4	169.9	49.4	30.9	21.6	13.9	17.0	17.0	15.4	17.0
72.5°	339.8	160.6	43.2	30.9	21.6	13.9	7.7	6.2	3.1	0.0	1.5
75°	38.6	30.9	27.8	21.6	13.9	6.2	1.5	0.0	0.0	0.0	0.0
77.5°	23.2	26.3	26.3	21.6	13.9	4.6	0.0	0.0	0.0	0.0	0.0
80°	18.5	20.1	21.6	20.1	12.4	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	23.2	26.3	29.3	26.3	17.0	7.7	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.6	1.5	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	3385.6	3351.7	3399.5	3328.5	3326.9	3328.5	3308.4	3289.9	3319.2	3398.0	3405.7
5°	2584.0	2656.6	2679.8	2755.5	2713.8	2652.0	2664.3	2622.6	2724.6	2769.4	2733.8
7.5°	1881.3	1876.6	2032.6	2041.9	2062.0	2063.5	2060.4	1978.6	1895.2	1913.7	1969.3
10°	1459.6	1380.8	1456.5	1448.8	1498.2	1484.3	1504.4	1416.3	1445.7	1445.7	1481.2
12.5°	1189.3	1105.9	1092.0	1071.9	1092.0	1099.7	1107.4	1090.4	1139.9	1163.0	1187.8
15°	908.2	861.9	849.5	810.9	817.1	838.7	857.2	864.9	849.5	885.0	888.1
17.5°	659.5	658.0	665.7	664.2	658.0	653.3	651.8	631.7	625.5	628.6	641.0
20°	500.4	512.8	539.0	565.3	579.2	562.2	539.0	505.1	491.2	494.3	495.8
22.5°	427.8	446.4	481.9	511.2	525.1	494.3	452.6	423.2	417.0	415.5	413.9
25°	387.7	409.3	435.6	444.8	443.3	424.7	393.9	381.5	378.4	375.3	361.4
27.5°	366.1	373.8	378.4	389.2	393.9	381.5	373.8	355.2	352.2	352.2	342.9
30°	353.7	349.1	355.2	347.5	353.7	344.4	346.0	346.0	338.3	341.3	341.3
32.5°	329.0	330.5	330.5	315.1	319.7	308.9	319.7	329.0	330.5	332.1	344.4
35°	240.9	268.8	282.7	282.7	287.3	279.6	278.0	267.2	253.3	239.4	233.2
37.5°	211.6	222.4	240.9	251.8	259.5	253.3	239.4	222.4	214.7	208.5	202.3
40°	188.4	197.7	210.1	222.4	237.9	230.1	208.5	200.8	191.5	191.5	185.3
42.5°	169.9	174.5	182.3	200.8	217.8	202.3	186.9	180.7	176.1	174.5	173.0
45°	152.9	154.5	162.2	177.6	197.7	182.3	166.8	159.1	160.6	162.2	160.6
47.5°	137.5	140.6	145.2	163.7	176.1	168.4	151.4	146.7	146.7	146.7	148.3
50°	118.9	126.7	135.9	151.4	160.6	156.0	142.1	135.9	132.8	132.8	134.4
52.5°	106.6	112.8	125.1	143.6	156.0	148.3	134.4	125.1	118.9	117.4	120.5
55°	92.7	103.5	123.6	137.5	154.5	146.7	131.3	120.5	109.7	108.1	108.1
57.5°	83.4	100.4	118.9	135.9	149.8	143.6	131.3	117.4	103.5	101.9	101.9
60°	78.8	97.3	115.8	131.3	149.8	140.6	129.7	114.3	98.9	98.9	97.3
62.5°	74.1	91.1	109.7	125.1	143.6	135.9	125.1	109.7	94.2	94.2	91.1
65°	61.8	78.8	91.1	105.0	125.1	117.4	106.6	95.8	83.4	80.3	81.9
67.5°	43.2	54.1	66.4	80.3	92.7	89.6	84.9	77.2	66.4	64.9	63.3
70°	21.6	29.3	40.2	54.1	64.9	61.8	58.7	52.5	46.3	44.8	44.8
72.5°	3.1	9.3	17.0	24.7	34.0	35.5	34.0	32.4	30.9	29.3	30.9
75°	0.0	0.0	0.0	6.2	13.9	17.0	20.1	23.2	23.2	20.1	24.7
77.5°	0.0	0.0	0.0	0.0	1.5	7.7	15.4	20.1	24.7	21.6	29.3
80°	0.0	0.0	0.0	0.0	1.5	9.3	15.4	21.6	24.7	21.6	30.9
82.5°	0.0	0.0	0.0	0.0	1.5	10.8	15.4	20.1	23.2	21.6	27.8
85°	0.0	0.0	0.0	0.0	4.6	9.3	6.2	3.1	1.5	1.5	4.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	3449.0	3558.6	3676.0	3720.8	3859.8	3964.8	4035.9	4188.8	4212.0	4213.5
5°	2770.9	2826.5	3027.3	3121.5	3328.5	3489.1	3660.6	3907.7	4073.0	4085.3
7.5°	1969.3	2123.7	2208.7	2454.3	2709.1	2960.9	3215.7	3503.0	3694.6	3699.2
10°	1584.7	1685.1	1836.5	2020.3	2235.0	2491.4	2831.2	3164.8	3359.4	3407.3
12.5°	1275.8	1451.9	1624.9	1814.8	1978.6	2171.6	2537.7	2982.5	3143.1	3238.9
15°	982.3	1143.0	1346.8	1569.3	1754.6	2012.5	2429.6	2937.7	3208.0	3240.5
17.5°	724.4	868.0	1056.5	1266.5	1544.5	1910.6	2448.1	3164.8	3419.6	3473.7
20°	520.5	603.9	752.2	996.2	1349.9	1791.7	2466.6	3394.9	3782.6	3875.3
22.5°	412.4	446.4	543.7	759.9	1132.2	1666.6	2597.9	3835.1	4281.5	4415.9
25°	358.3	376.9	423.2	599.3	994.7	1654.2	2808.0	4363.3	4945.6	5042.9
27.5°	346.0	349.1	389.2	549.9	920.5	1572.3	2888.3	4738.7	5359.6	5458.4
30°	364.5	413.9	417.0	464.9	783.1	1410.2	2930.0	5101.6	5710.2	5782.8
32.5°	315.1	299.6	310.5	359.9	688.9	1316.0	3008.8	5418.3	6110.2	6161.2
35°	219.3	230.1	254.8	312.0	602.4	1217.1	3028.9	5767.3	6490.2	6542.7
37.5°	202.3	208.5	228.6	265.7	529.8	1161.5	3001.1	6022.2	6884.0	6956.6
40°	188.4	196.2	207.0	240.9	475.7	1099.7	2962.4	6252.3	7125.0	7304.2
42.5°	177.6	183.8	193.1	230.1	429.4	1037.9	2908.4	6576.7	7341.2	7497.2
45°	165.3	174.5	185.3	224.0	403.1	996.2	2868.2	6556.6	7466.3	7549.7
47.5°	152.9	168.4	180.7	208.5	395.4	976.2	2885.2	6480.9	7364.4	7307.2
50°	140.6	160.6	182.3	173.0	376.9	936.0	2905.3	6584.4	7121.9	7111.1
52.5°	129.7	152.9	169.9	142.1	335.2	897.4	3099.9	6720.3	7293.3	7149.7
55°	114.3	137.5	135.9	114.3	271.8	868.0	3252.8	6723.4	7177.5	7231.6
57.5°	103.5	122.0	106.6	95.8	200.8	725.9	3004.1	5637.6	6144.2	6240.0
60°	95.8	118.9	80.3	75.7	131.3	523.6	2622.6	4366.4	4883.9	5064.6
62.5°	88.0	112.8	63.3	61.8	91.1	372.2	2156.2	3654.4	4208.9	4454.5
65°	77.2	80.3	51.0	47.9	64.9	200.8	1312.9	2516.1	3146.2	3237.4
67.5°	63.3	61.8	41.7	38.6	43.2	97.3	579.2	1260.3	1824.1	1977.0
70°	51.0	51.0	35.5	30.9	30.9	44.8	151.4	502.0	824.8	912.8
72.5°	37.1	38.6	27.8	24.7	23.2	21.6	24.7	100.4	216.2	276.5
75°	32.4	34.0	27.8	21.6	17.0	13.9	10.8	9.3	12.4	20.1
77.5°	35.5	35.5	29.3	20.1	15.4	10.8	6.2	3.1	3.1	1.5
80°	44.8	46.3	38.6	26.3	18.5	12.4	7.7	3.1	1.5	1.5
82.5°	47.9	52.5	43.2	32.4	23.2	13.9	7.7	1.5	0.0	0.0
85°	12.4	20.1	34.0	29.3	23.2	13.9	7.7	1.5	0.0	0.0
87.5°	0.0	1.5	4.6	4.6	6.2	6.2	4.6	1.5	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)