

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: P533099

Luminaire Tested: **GALN-SA8C-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533099  
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-SA8C-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA 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: 28583 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

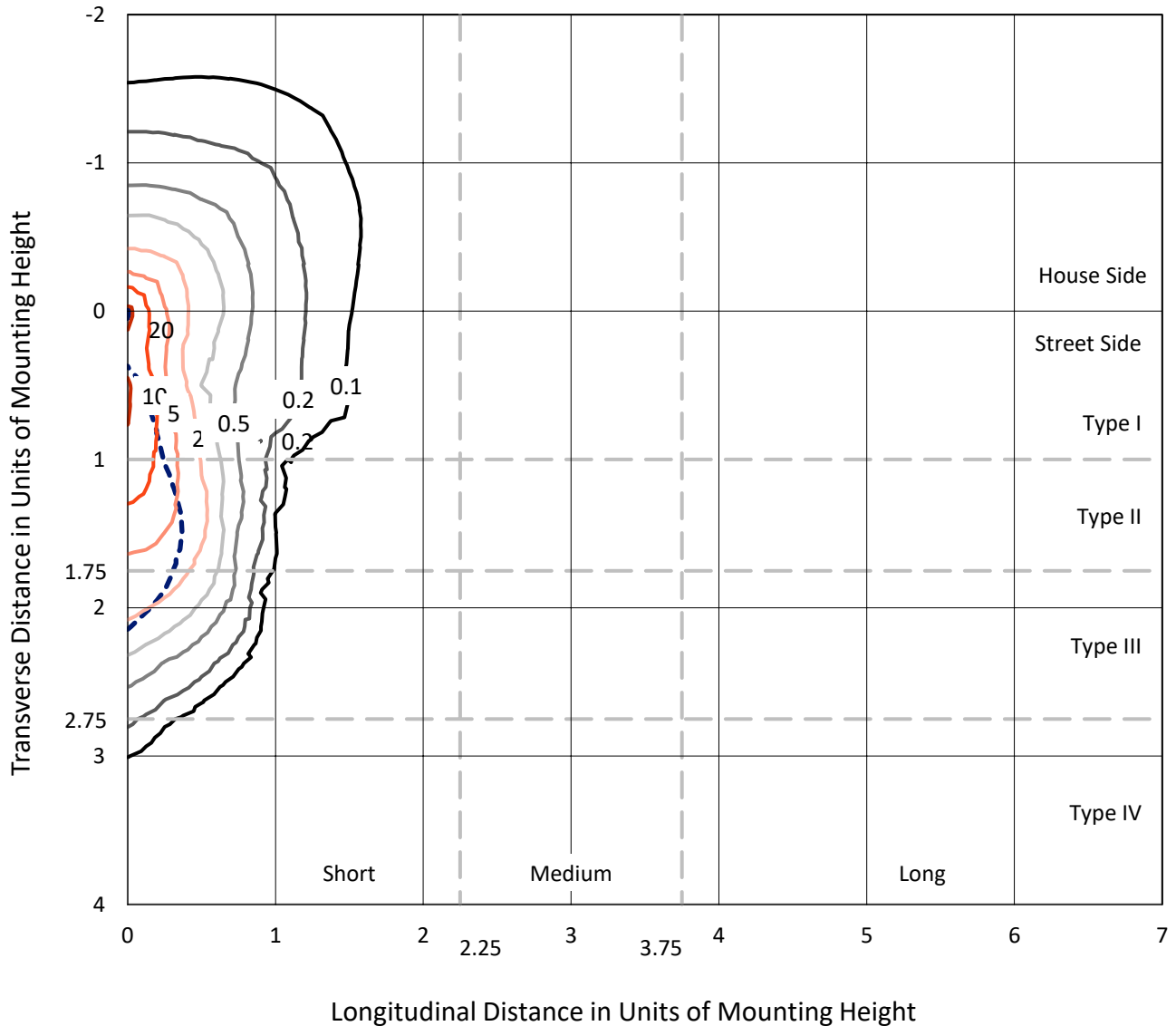
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

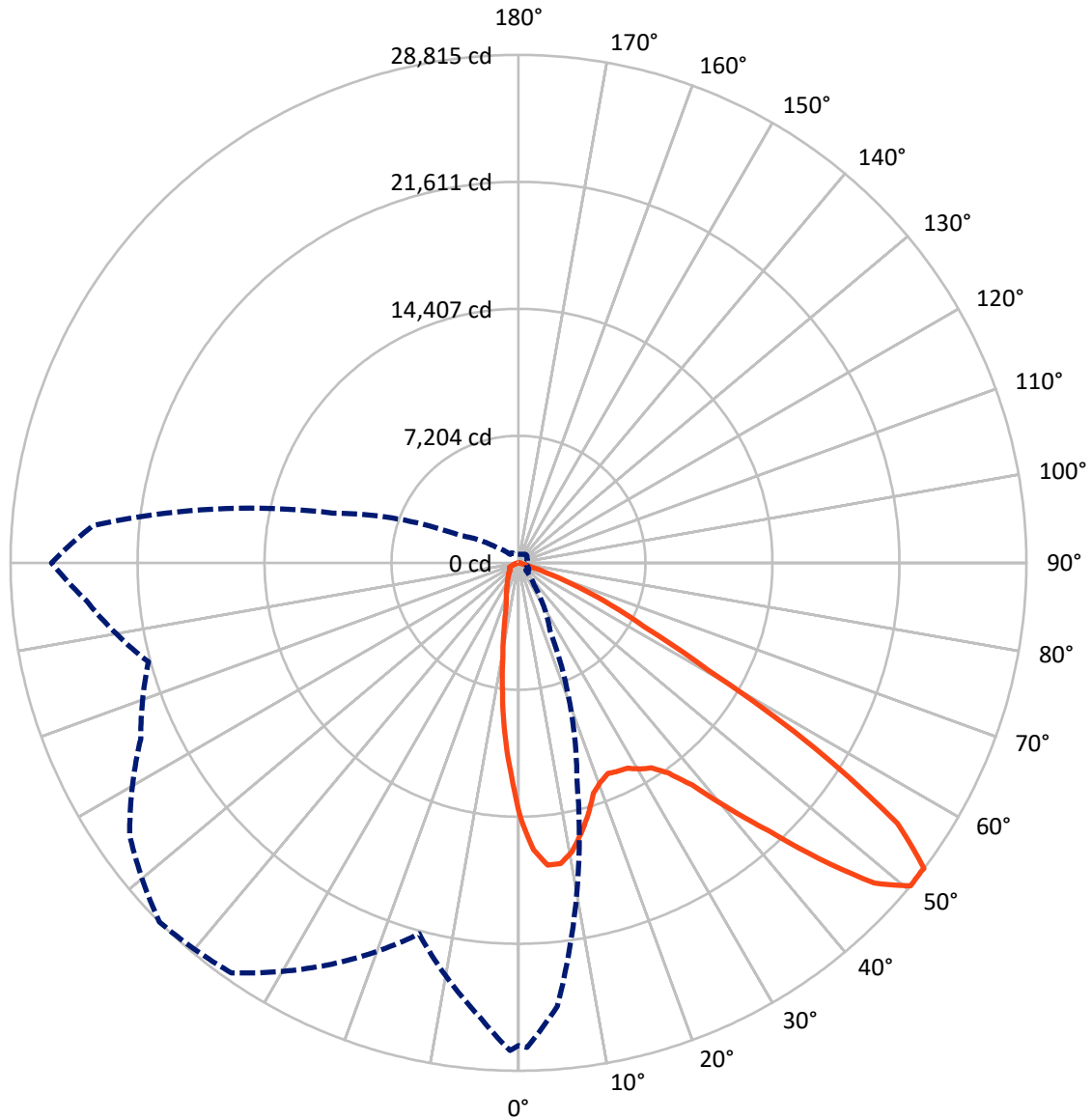
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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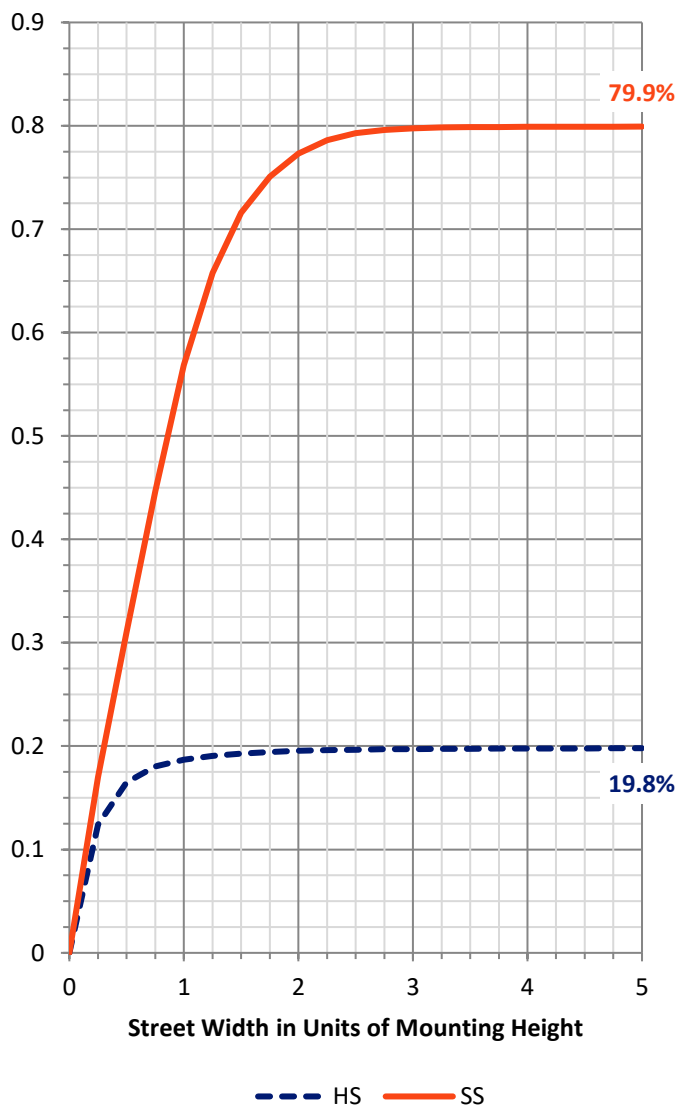
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5725.2	0.0	5725.2
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	22857.8	0.0	22857.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	28583.0	0.0	28583.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1056.5	3.7
10°-20°	2099.8	7.3
20°-30°	3154.6	11.0
30°-40°	4735.0	16.6
40°-50°	6654.6	23.3
50°-60°	7178.2	25.1
60°-70°	3332.8	11.7
70°-80°	313.6	1.1
80°-90°	57.8	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°	28583.0	100.0
0°-180°	28583.0	100.0

**Coefficient of Utilization**



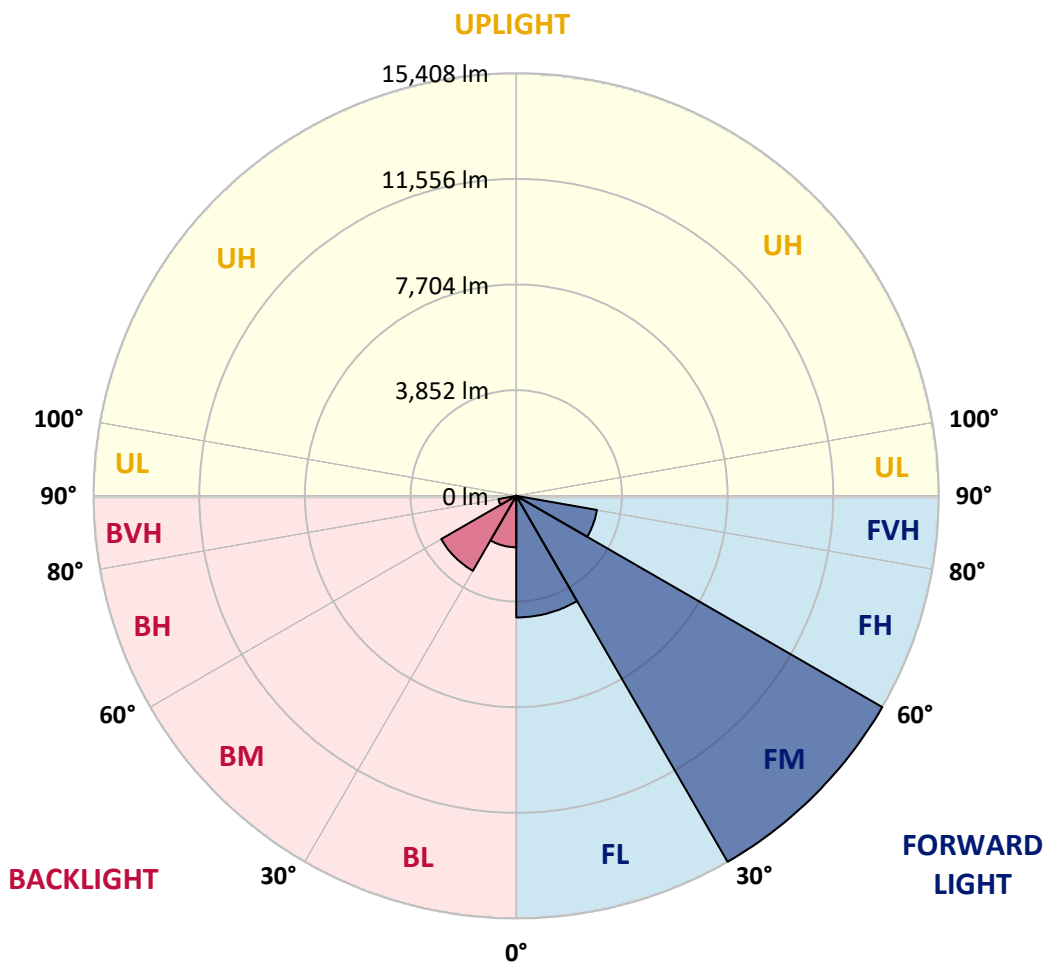
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4434.4	15.5			
FM	(30°-60°)	15408.4	53.9			
FH	(60°-80°)	2989.0	10.5			G2/5000
FVH	(80°-90°)	26.0	0.1			G1/100
BL	(0°-30°)	1876.6	6.6	B3/2500		
BM	(30°-60°)	3159.4	11.1	B3/5000		
BH	(60°-80°)	657.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	31.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2
2.5°	15068.0	14835.4	14540.6	14296.7	13933.8	13202.2	13003.7	12765.5	12567.0	12300.5	11926.2
5°	13701.2	13627.5	13491.4	12572.7	11909.2	11024.5	10298.6	9992.4	9589.7	9260.8	9022.6
7.5°	12657.8	12362.9	11931.9	11007.5	9947.0	8999.9	8194.7	7724.0	7190.9	7009.4	6686.2
10°	11540.6	11608.6	10973.5	9674.8	8393.1	7627.6	7128.5	6674.8	6192.8	5875.2	5415.8
12.5°	11183.3	10962.1	10474.4	8869.5	7775.0	7060.4	6453.6	5892.2	5381.8	4871.4	4429.1
15°	11415.8	11075.5	10395.0	8699.4	7298.6	6408.3	5648.4	4888.4	4417.7	3765.6	3306.2
17.5°	12249.5	11977.2	11064.2	8880.9	7054.8	5784.5	4655.9	3873.3	3153.1	2563.3	2330.8
20°	13638.9	13253.2	12107.7	9113.4	6691.8	5030.2	3776.9	2812.8	2132.3	1882.8	1752.4
22.5°	14999.9	14790.1	13344.0	9561.4	6368.6	4361.0	2835.5	1894.1	1593.6	1548.2	1463.1
25°	17591.6	16962.1	15232.4	10372.3	6119.1	3731.5	2138.0	1525.5	1349.7	1315.7	1327.0
27.5°	19134.1	18606.7	16979.1	10911.1	5841.2	3249.5	1809.1	1400.7	1281.7	1207.9	1179.6
30°	20614.2	20001.8	17846.8	11228.7	5245.7	2739.1	1604.9	1344.0	1315.7	1207.9	1173.9
32.5°	21754.1	21153.0	19100.1	11705.0	5001.9	2410.2	1321.4	1049.1	975.4	964.1	1066.2
35°	23500.8	22860.0	20171.9	11965.9	4814.7	2240.1	1145.6	935.7	850.7	816.6	822.3
37.5°	25128.4	24691.7	21164.3	12068.0	4616.2	2189.0	1026.5	839.3	765.6	742.9	737.2
40°	26489.4	25514.0	22105.7	12175.7	4531.2	2092.6	952.7	765.6	714.6	680.5	680.5
42.5°	27113.3	26120.8	23160.5	12113.3	4508.5	1939.5	952.7	703.2	663.5	629.5	623.8
45°	26977.1	26574.5	23631.2	12085.0	4508.5	1786.4	867.7	686.2	629.5	584.1	572.8
47.5°	27328.8	26801.3	24221.0	12204.1	4417.7	1678.6	731.6	720.2	595.5	538.7	527.4
50°	27391.1	27493.2	25247.5	12822.2	4219.3	1542.5	572.8	708.9	572.8	487.7	476.4
52°	27799.4	27164.3	25559.4	13151.1	4009.4	1440.4	482.0	606.8	550.1	453.7	442.3
52.5°	27238.0	27652.0	25633.1	13270.2	4032.1	1372.4	465.0	595.5	538.7	453.7	425.3
55°	26608.5	27005.5	25332.5	13525.4	3697.5	1077.5	362.9	431.0	487.7	397.0	380.0
57.5°	23126.5	23529.2	22015.0	12385.6	3011.3	759.9	300.6	323.2	431.0	368.6	351.6
60°	20557.5	20268.3	18476.3	10332.6	2138.0	425.3	238.2	249.5	470.7	340.3	334.6
62.5°	18788.2	18170.0	15442.2	7979.2	1304.3	283.6	187.1	192.8	362.9	317.6	317.6
65°	13899.7	13207.9	10258.9	4826.1	640.8	198.5	141.8	153.1	226.8	272.2	272.2
67.5°	7933.8	7667.2	4956.5	2177.7	266.5	124.8	107.7	119.1	175.8	221.2	209.8
70°	3646.5	3272.2	1905.5	459.4	124.8	85.1	85.1	96.4	141.8	164.5	153.1
72.5°	1066.2	1009.4	465.0	73.7	51.0	51.0	56.7	73.7	107.7	124.8	113.4
75°	79.4	51.0	34.0	22.7	22.7	34.0	45.4	73.7	107.7	119.1	96.4
77.5°	5.7	11.3	5.7	5.7	17.0	34.0	51.0	90.7	141.8	147.4	107.7
80°	5.7	5.7	0.0	5.7	17.0	34.0	56.7	102.1	158.8	170.1	90.7
82.5°	0.0	0.0	0.0	5.7	22.7	45.4	68.1	107.7	147.4	181.5	96.4
85°	0.0	0.0	0.0	5.7	34.0	62.4	79.4	28.4	17.0	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°	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2
2.5°	12192.7	12045.3	11988.6	12039.6	12022.6	12005.6	12317.5	12249.5	12238.1	12340.2	12317.5
5°	9153.1	8892.2	9606.7	9317.5	9618.1	9799.6	9833.6	9850.6	10060.4	9839.3	10128.5
7.5°	6521.7	6589.8	6584.1	6776.9	7122.8	7429.1	7610.5	7468.8	7457.4	7429.1	7304.3
10°	5211.7	5092.6	5069.9	5024.5	5132.3	5393.2	5614.3	5438.5	5313.8	5483.9	5432.9
12.5°	4259.0	4094.5	4003.8	3822.3	3828.0	4003.8	4003.8	4003.8	4128.5	4224.9	4298.7
15°	3266.5	3130.4	3130.4	2948.9	2909.2	2914.9	3005.7	3017.0	3215.5	3272.2	3300.5
17.5°	2285.4	2211.7	2296.8	2370.5	2325.1	2336.5	2370.5	2381.8	2410.2	2387.5	2444.2
20°	1758.0	1746.7	1769.4	1899.8	1996.2	2052.9	2013.2	1956.5	1922.5	1843.1	1843.1
22.5°	1491.5	1514.2	1553.9	1661.6	1786.4	1820.4	1775.0	1644.6	1542.5	1531.2	1536.9
25°	1327.0	1349.7	1412.1	1480.1	1548.2	1604.9	1559.5	1463.1	1406.4	1355.4	1355.4
27.5°	1224.9	1236.3	1270.3	1321.4	1378.1	1423.4	1406.4	1355.4	1293.0	1270.3	1219.3
30°	1145.6	1162.6	1202.3	1213.6	1264.6	1287.3	1259.0	1247.6	1207.9	1179.6	1162.6
32.5°	1105.9	1100.2	1128.5	1139.9	1145.6	1162.6	1128.5	1145.6	1139.9	1094.5	1077.5
35°	833.6	879.0	952.7	1015.1	1032.1	1054.8	1049.1	1026.5	964.1	913.0	850.7
37.5°	748.6	776.9	816.6	867.7	935.7	964.1	952.7	896.0	822.3	788.3	776.9
40°	691.9	708.9	742.9	776.9	845.0	896.0	856.3	805.3	748.6	720.2	703.2
42.5°	640.8	646.5	663.5	697.5	748.6	828.0	759.9	691.9	669.2	652.2	640.8
45°	584.1	584.1	606.8	623.8	680.5	754.2	686.2	623.8	612.5	601.1	595.5
47.5°	538.7	544.4	555.8	578.4	623.8	674.9	629.5	578.4	550.1	544.4	533.1
50°	482.0	487.7	510.4	533.1	589.8	618.1	589.8	533.1	504.7	487.7	487.7
52°	436.7	453.7	476.4	521.7	561.4	606.8	572.8	510.4	476.4	459.4	448.0
52.5°	431.0	442.3	465.0	516.1	561.4	601.1	567.1	504.7	465.0	453.7	442.3
55°	385.6	402.6	442.3	504.7	555.8	601.1	555.8	499.1	442.3	414.0	402.6
57.5°	368.6	380.0	431.0	510.4	550.1	601.1	555.8	499.1	442.3	391.3	380.0
60°	351.6	374.3	431.0	493.4	544.4	606.8	561.4	493.4	431.0	368.6	368.6
62.5°	334.6	351.6	425.3	482.0	521.7	584.1	538.7	482.0	414.0	351.6	345.9
65°	289.2	317.6	374.3	402.6	448.0	504.7	459.4	419.7	362.9	311.9	306.2
67.5°	221.2	232.5	277.9	311.9	340.3	391.3	368.6	317.6	277.9	238.2	238.2
70°	153.1	164.5	198.5	215.5	243.9	272.2	255.2	215.5	187.1	164.5	158.8
72.5°	107.7	113.4	124.8	136.1	147.4	158.8	153.1	124.8	107.7	102.1	96.4
75°	85.1	96.4	102.1	96.4	90.7	85.1	85.1	73.7	62.4	56.7	56.7
77.5°	85.1	90.7	85.1	73.7	62.4	56.7	51.0	45.4	34.0	28.4	34.0
80°	73.7	73.7	73.7	62.4	56.7	51.0	45.4	39.7	34.0	28.4	28.4
82.5°	79.4	79.4	73.7	62.4	62.4	51.0	51.0	45.4	39.7	28.4	28.4
85°	0.0	0.0	0.0	11.3	28.4	51.0	51.0	45.4	39.7	34.0	34.0
87.5°	0.0	0.0	0.0	0.0	5.7	11.3	22.7	28.4	34.0	34.0	34.0
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°	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2
2.5°	12521.7	12737.2	13145.5	13553.8	13803.3	14098.2	14631.3	14914.8	15283.5	15464.9	15822.2
5°	10088.8	10599.2	10780.7	11245.7	11744.7	12243.8	13037.7	13911.1	14637.0	15136.0	15782.5
7.5°	7361.0	7480.1	8183.3	8495.2	9311.9	10219.2	11302.4	12402.6	13321.3	14137.9	14631.3
10°	5517.9	5954.6	6396.9	6992.4	7650.2	8586.0	9623.8	10837.4	12028.3	12844.9	13468.7
12.5°	4434.8	4780.7	5370.5	6011.3	6822.3	7440.4	8483.9	9686.1	11228.7	12028.3	12850.6
15°	3357.3	3799.6	4468.8	5132.3	5988.6	6640.8	7695.6	9209.8	11194.6	12294.8	13003.7
17.5°	2489.6	2790.2	3391.3	4134.2	5007.5	5926.2	7349.7	9158.7	11574.6	12884.6	13616.2
20°	1905.5	2007.5	2387.5	3051.0	3998.1	5200.3	6788.2	9379.9	12697.5	14319.4	15062.3
22.5°	1542.5	1587.9	1735.3	2194.7	3113.4	4565.2	6521.7	9533.0	13962.1	16037.7	17030.1
25°	1344.0	1332.7	1429.1	1627.6	2432.9	3969.7	6181.4	10111.5	15510.3	18056.6	18947.0
27.5°	1224.9	1224.9	1270.3	1412.1	2018.9	3584.1	5965.9	10525.5	17069.8	19831.6	20313.7
30°	1162.6	1173.9	1304.3	1349.7	1678.6	3124.7	5608.7	10945.1	18561.3	20965.8	21629.4
32.5°	1077.5	1032.1	1003.8	1117.2	1412.1	2710.8	5251.4	11120.9	19769.3	22355.2	22922.4
35°	828.0	805.3	839.3	924.4	1213.6	2359.2	4854.4	11319.4	21158.7	23965.8	24079.2
37.5°	748.6	742.9	765.6	839.3	1020.8	2052.9	4570.9	11268.4	22219.1	25298.5	24992.3
40°	691.9	691.9	708.9	771.3	913.0	1837.4	4276.0	11223.0	23245.6	26795.7	25899.6
42.5°	646.5	646.5	674.9	714.6	867.7	1695.6	4054.8	11160.6	24107.6	27714.4	26432.7
45°	584.1	601.1	646.5	686.2	879.0	1599.2	3890.3	10922.4	24402.5	27703.0	26177.5
47.5°	538.7	561.4	606.8	663.5	793.9	1570.9	3776.9	10712.6	24300.4	27022.5	25377.9
50°	487.7	516.1	578.4	674.9	674.9	1514.2	3657.8	10899.7	24226.7	26495.1	24612.3
52°	453.7	476.4	555.8	657.8	589.8	1395.1	3584.1	11262.7	24527.3	26427.1	24272.1
52.5°	448.0	465.0	538.7	646.5	561.4	1372.4	3533.1	11347.8	24623.7	26256.9	24504.6
55°	397.0	419.7	493.4	504.7	459.4	1128.5	3368.6	11540.6	24147.3	25922.3	24283.4
57.5°	374.3	385.6	436.7	414.0	397.0	850.7	2897.9	11240.0	21447.9	23024.4	22593.4
60°	345.9	357.3	408.3	323.2	334.6	595.5	2177.7	9759.9	17223.0	19185.1	19962.1
62.5°	334.6	328.9	385.6	260.9	283.6	431.0	1536.9	7933.8	13270.2	15793.9	17137.9
65°	294.9	289.2	277.9	221.2	243.9	334.6	918.7	5177.7	9351.5	11948.9	12686.1
67.5°	226.8	238.2	204.2	175.8	204.2	260.9	510.4	2319.5	4905.5	7168.2	7763.7
70°	158.8	170.1	164.5	153.1	181.5	215.5	294.9	793.9	2030.2	3765.6	4151.2
72.5°	96.4	119.1	124.8	130.4	158.8	187.1	209.8	255.2	538.7	1332.7	1655.9
75°	56.7	79.4	96.4	113.4	130.4	158.8	175.8	181.5	187.1	249.5	402.6
77.5°	39.7	56.7	85.1	107.7	130.4	158.8	187.1	198.5	187.1	175.8	187.1
80°	34.0	56.7	79.4	102.1	136.1	164.5	187.1	187.1	181.5	158.8	170.1
82.5°	34.0	56.7	85.1	107.7	130.4	158.8	181.5	187.1	170.1	158.8	164.5
85°	39.7	62.4	90.7	113.4	141.8	130.4	119.1	96.4	90.7	73.7	79.4
87.5°	39.7	56.7	56.7	62.4	68.1	68.1	68.1	62.4	51.0	45.4	45.4
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°	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2	14495.2
2.5°	15839.2	16292.9	16275.9	16287.2	16219.2	15759.8	15538.7	14977.2	15136.0	15068.0
5°	16446.0	16894.0	17279.7	17234.3	16712.6	16088.7	15164.4	14291.0	14052.8	13701.2
7.5°	15839.2	16916.7	17274.0	17223.0	16451.7	15652.1	14177.6	13304.3	12890.3	12657.8
10°	14875.1	16122.8	16565.1	16655.9	16134.1	14920.5	13565.1	12164.4	11943.2	11540.6
12.5°	14325.1	15232.4	15504.6	15748.5	15567.0	14659.6	13100.1	11756.1	11449.8	11183.3
15°	13877.0	14415.8	14529.2	14807.1	14914.8	14427.1	13344.0	12198.4	11444.2	11415.8
17.5°	14291.0	14069.9	13655.9	13740.9	14081.2	14432.8	13973.4	13071.8	12340.2	12249.5
20°	14977.2	14001.8	13066.1	13275.9	13559.5	14637.0	14926.2	14291.0	13871.4	13638.9
22.5°	15765.5	14120.9	12878.9	12981.0	13519.8	15096.3	16468.7	16117.1	15334.5	14999.9
25°	17223.0	14449.8	13026.4	13094.4	13831.7	15737.1	17863.8	18124.7	17659.6	17591.6
27.5°	18646.4	15300.5	13349.6	13196.5	13990.5	16361.0	18708.8	20109.5	19292.9	19134.1
30°	19372.3	15992.3	13831.7	13570.8	14648.3	16740.9	19219.2	21402.5	20688.0	20614.2
32.5°	20483.8	16621.8	14206.0	13871.4	15016.9	17211.6	20171.9	22814.6	22122.7	21754.1
35°	20948.8	17308.0	15028.3	14637.0	16071.7	17869.5	20659.6	24073.6	23858.1	23500.8
37.5°	21844.9	18045.3	15998.0	15975.3	17347.7	18725.8	21538.6	25786.2	25746.5	25128.4
40°	21918.6	18850.5	17529.2	18243.7	19321.2	20217.3	22309.9	26262.6	26909.1	26489.4
42.5°	22032.0	20262.6	20177.6	20767.4	21691.7	21498.9	22338.2	26376.0	27362.8	27113.3
45°	22083.0	21674.7	22871.3	23960.2	24345.8	23177.5	22071.7	26160.5	27601.0	26977.1
47.5°	21674.7	22888.3	25049.0	27153.0	27266.4	24209.7	21958.3	25939.3	27742.7	27328.8
50°	21731.4	23648.2	26931.8	28814.6	28400.6	25122.7	21782.5	25803.2	27669.0	27391.1
52°	21595.3	23665.3	27198.3	28780.5	28491.3	24618.0	21481.9	25281.5	27601.0	27799.4
52.5°	21748.4	23563.2	26920.4	28803.2	28428.9	24867.5	21442.2	25570.7	27640.7	27238.0
55°	21221.0	22349.6	25292.8	26092.5	26035.8	22570.7	20222.9	24612.3	26602.9	26608.5
57.5°	19179.5	19372.3	19837.3	19820.3	19559.4	17744.7	17296.7	22633.1	23716.3	23126.5
60°	16899.7	14183.3	12930.0	12419.6	12130.4	11835.5	15300.5	20705.0	20807.1	20557.5
62.5°	14602.9	9833.6	8166.3	8024.5	8092.6	9170.1	14790.1	19939.4	19326.9	18788.2
65°	11784.4	7168.2	5931.9	5744.8	6408.3	7570.8	11971.6	15289.1	14347.7	13899.7
67.5°	7400.7	5228.7	4009.4	3657.8	4457.4	5211.7	7865.7	9606.7	8551.9	7933.8
70°	4389.4	2920.6	1814.7	1627.6	1831.7	2778.8	4406.4	4792.0	3964.1	3646.5
72.5°	1729.7	1071.8	504.7	431.0	448.0	975.4	1621.9	1582.2	1196.6	1066.2
75°	465.0	323.2	175.8	141.8	119.1	181.5	260.9	170.1	62.4	79.4
77.5°	215.5	192.8	153.1	119.1	90.7	68.1	34.0	11.3	11.3	5.7
80°	187.1	164.5	141.8	119.1	90.7	56.7	28.4	5.7	5.7	5.7
82.5°	175.8	153.1	130.4	107.7	85.1	56.7	28.4	5.7	0.0	0.0
85°	73.7	96.4	107.7	102.1	90.7	56.7	28.4	5.7	0.0	0.0
87.5°	39.7	34.0	28.4	22.7	17.0	11.3	11.3	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)