

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: P651190

Luminaire Tested: **GALN-SA1D-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651190  
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-SA1D-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4727.3 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 65  
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

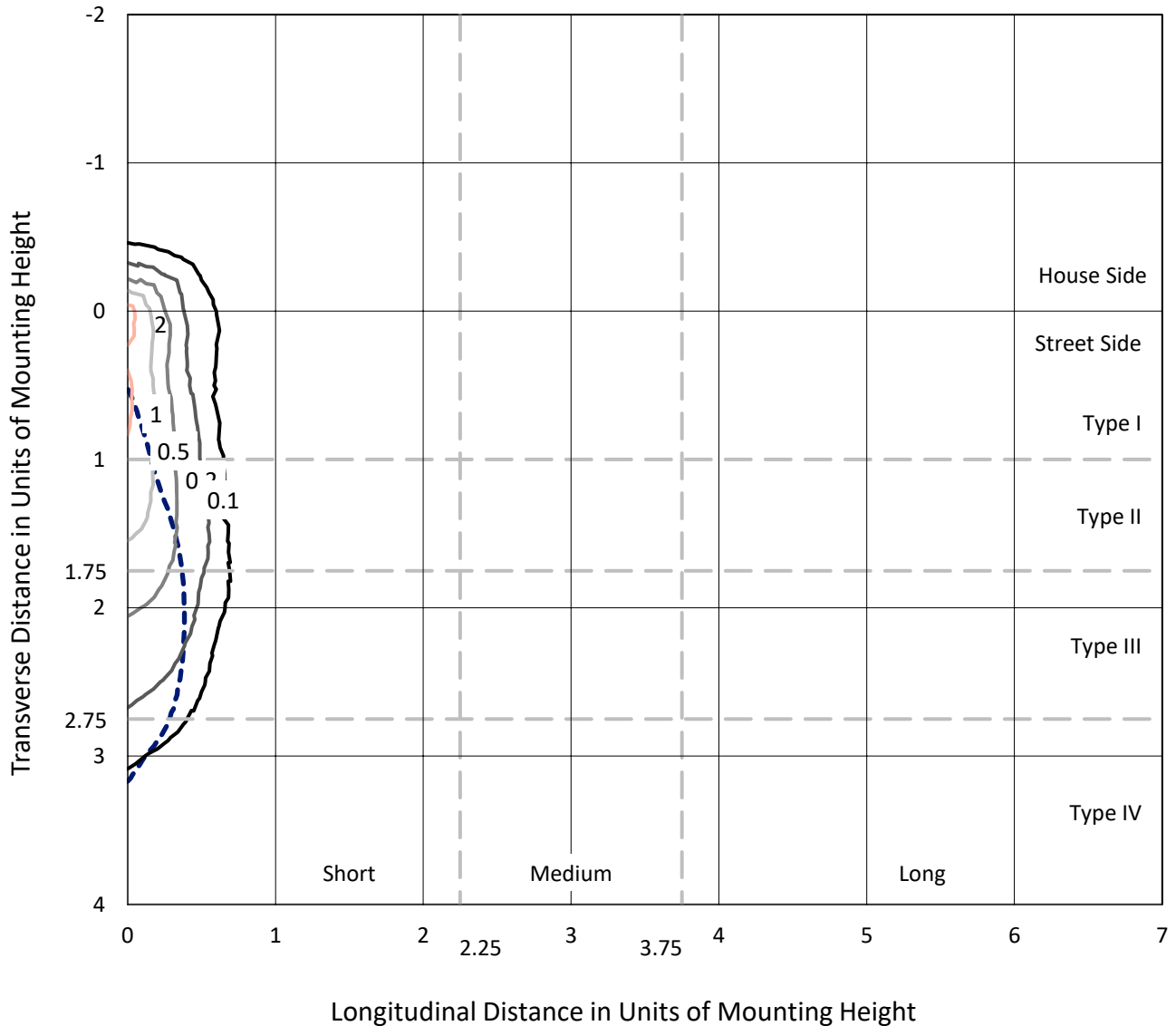




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### Iso-Footcandle Lines of Horizontal Illumination

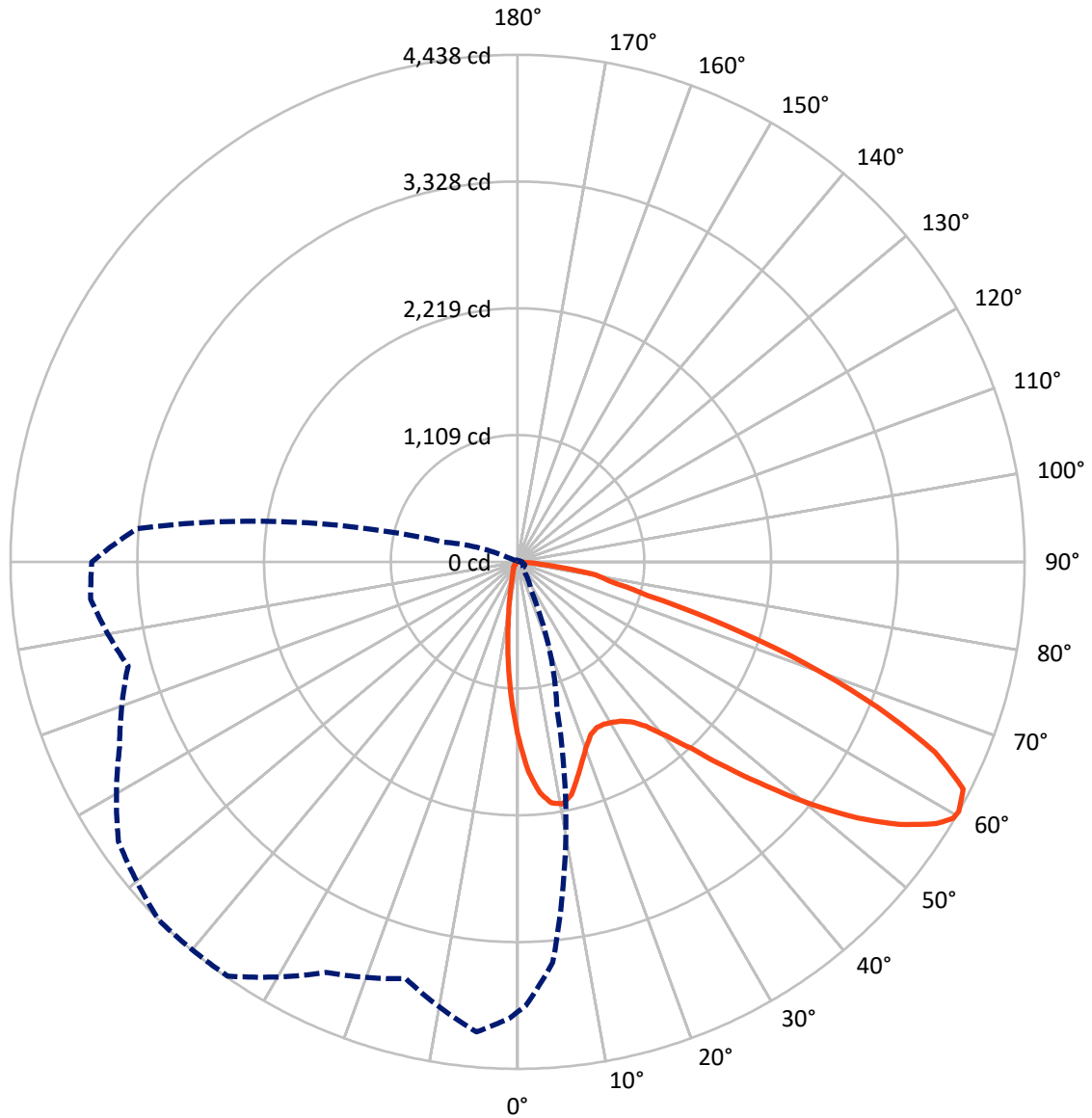
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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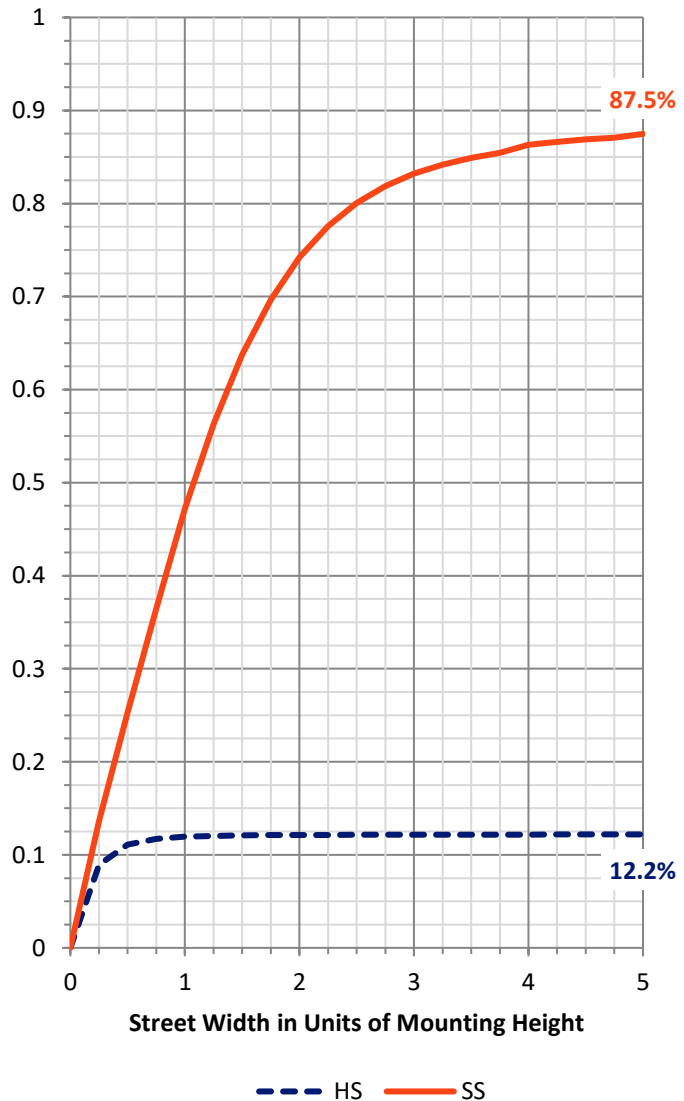
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	583.1	0.0	583.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4144.2	0.0	4144.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	4727.3	0.0	4727.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	2.5
10°-20°	230.8	4.9
20°-30°	338.4	7.2
30°-40°	503.3	10.6
40°-50°	732.4	15.5
50°-60°	1056.2	22.3
60°-70°	1161.7	24.6
70°-80°	520.3	11.0
80°-90°	68.0	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°	4727.3	100.0
0°-180°	4727.3	100.0

**Coefficient of Utilization**



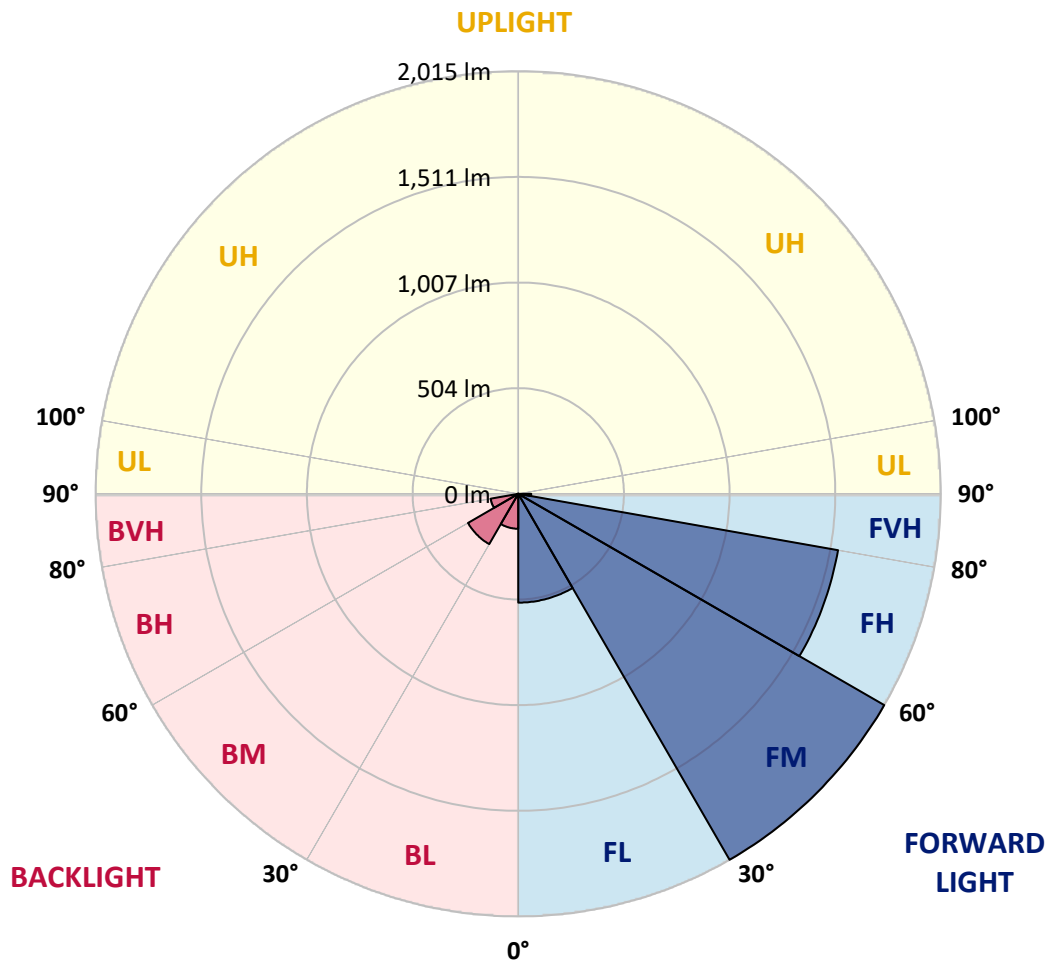
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.8	11.0			
FM (30°-60°)	2014.9	42.6			
FH (60°-80°)	1548.3	32.8			G1/1800
FVH (80°-90°)	62.2	1.3			G1/100
BL (0°-30°)	166.6	3.5	B1/500		
BM (30°-60°)	276.9	5.9	B1/1000		
BH (60°-80°)	133.7	2.8	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4
2.5°	1717.7	1710.1	1692.8	1640.4	1594.8	1535.1	1474.8	1427.3	1398.2	1344.7	1320.2
5°	1664.1	1667.7	1617.7	1509.9	1389.9	1308.0	1218.5	1147.4	1069.1	1019.5	967.3
7.5°	1524.3	1517.2	1462.9	1312.7	1166.8	1048.2	935.0	843.0	785.2	738.8	700.0
10°	1404.6	1399.3	1330.0	1136.6	979.9	891.2	814.6	734.1	672.0	604.1	549.8
12.5°	1329.5	1317.3	1237.6	1035.6	908.0	825.4	742.0	658.3	572.5	503.8	438.1
15°	1304.4	1286.8	1198.1	1000.8	862.0	757.2	652.5	556.2	457.4	381.6	332.0
17.5°	1350.1	1321.0	1226.4	994.7	807.1	668.0	539.3	413.9	311.2	253.3	222.8
20°	1454.6	1421.2	1298.3	988.6	746.0	568.1	410.0	292.5	215.2	183.6	166.8
22.5°	1609.8	1563.8	1404.6	998.3	689.6	470.7	296.1	206.6	171.1	151.3	139.4
25°	1796.4	1757.9	1539.5	1032.7	645.0	394.2	228.9	168.9	144.1	131.9	122.9
27.5°	2000.8	1939.3	1713.7	1074.0	604.4	334.9	200.9	151.0	128.3	117.2	112.4
30°	2146.4	2098.5	1859.6	1102.8	553.7	290.3	183.6	148.8	128.7	115.4	106.7
32.5°	2290.1	2229.0	1981.8	1116.1	516.7	259.4	158.9	129.7	112.9	106.0	97.4
35°	2443.9	2379.9	2103.6	1108.9	489.0	238.9	144.1	115.7	96.6	85.2	76.5
37.5°	2599.5	2531.9	2224.7	1083.0	471.8	230.7	132.6	109.9	91.2	79.4	70.1
40°	2784.2	2694.0	2338.2	1061.8	453.9	226.4	125.1	106.4	87.3	74.8	65.4
42.5°	2935.1	2849.2	2445.7	1050.7	441.6	216.3	125.1	103.5	84.8	70.8	61.1
45°	3078.1	2989.0	2561.8	1059.7	436.6	203.8	126.5	103.1	83.0	68.0	58.2
47.5°	3197.8	3120.5	2681.0	1093.5	430.2	190.1	118.9	108.2	81.9	65.4	55.3
50°	3339.0	3264.3	2838.8	1161.8	418.6	176.4	109.6	116.4	81.6	63.2	52.8
52.5°	3538.1	3457.3	3056.6	1239.4	400.3	155.6	101.0	115.4	80.1	59.6	50.3
55°	3781.4	3716.0	3308.8	1332.5	375.2	132.2	87.3	102.4	75.9	53.6	46.0
57.5°	3937.3	3881.6	3497.9	1372.7	336.7	108.2	76.9	85.9	69.4	47.8	41.0
59°	3955.6	3905.4	3537.4	1359.4	311.6	98.8	71.9	73.7	67.5	44.6	38.1
60°	3940.2	3888.1	3521.6	1333.5	288.2	92.3	67.5	65.4	68.0	42.7	35.9
62.5°	3841.0	3751.9	3368.1	1202.4	251.9	84.8	60.0	53.6	60.0	38.4	32.0
65°	3649.5	3515.8	3064.5	1017.7	237.5	80.5	51.0	44.9	45.7	33.8	27.7
67.5°	3315.0	3146.4	2660.3	826.9	231.4	80.8	43.1	40.3	35.2	28.8	24.5
70°	2786.0	2617.8	2134.5	680.2	228.6	80.8	36.7	34.5	29.4	24.1	21.2
72.5°	1974.2	1793.1	1439.9	534.4	205.9	80.5	31.3	31.3	24.1	20.1	17.2
75°	1115.4	1116.8	905.2	378.0	171.1	66.4	25.1	24.8	17.6	15.5	13.0
77.5°	650.1	638.6	610.1	162.4	79.4	30.2	17.6	15.1	12.2	11.1	9.3
80°	334.2	274.9	267.7	59.0	28.4	19.0	12.2	8.7	7.9	7.1	6.5
82.5°	98.8	99.2	88.4	23.7	15.8	12.6	6.1	4.7	4.3	4.0	4.0
85°	6.8	4.3	5.0	7.1	9.7	5.0	0.3	1.1	1.1	1.4	1.8
87.5°	0.8	0.3	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°	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4
2.5°	1293.3	1309.1	1279.7	1280.3	1255.9	1263.8	1235.1	1244.4	1227.5	1240.5	1278.6
5°	973.1	976.7	953.0	945.5	949.1	963.8	969.5	943.3	954.5	932.5	931.1
7.5°	685.7	690.0	676.2	674.5	700.4	694.2	705.4	678.4	653.0	664.1	643.6
10°	532.5	514.6	486.5	478.6	473.7	476.8	476.8	452.4	448.8	439.1	453.9
12.5°	420.4	398.5	371.9	336.0	327.0	326.3	313.0	291.4	284.6	276.4	288.5
15°	305.5	296.5	274.2	254.1	233.5	229.6	208.1	190.5	167.1	163.8	162.8
17.5°	214.9	201.6	201.3	189.7	177.9	170.0	149.9	129.7	120.8	119.7	119.7
20°	161.0	156.3	148.8	147.3	143.7	134.7	116.8	106.0	101.7	102.0	103.5
22.5°	135.5	132.2	125.4	122.2	120.8	112.9	99.6	92.3	90.2	90.2	90.6
25°	121.1	118.2	110.7	105.6	103.9	98.1	87.7	82.2	80.5	80.5	80.5
27.5°	110.3	106.7	98.8	94.5	91.2	84.8	78.3	72.9	71.1	71.1	71.5
30°	102.8	98.8	91.7	85.9	80.8	75.1	69.7	65.0	62.9	62.5	62.9
32.5°	92.7	89.1	81.9	78.3	72.6	65.8	61.5	57.1	55.0	55.3	55.0
35°	72.2	71.1	66.1	67.2	64.0	58.2	54.2	49.6	47.1	46.7	47.4
37.5°	65.8	61.5	55.7	56.1	55.0	52.8	46.3	41.3	39.5	39.5	39.9
40°	60.7	56.4	50.0	46.7	47.1	47.1	40.3	34.8	33.1	32.7	33.4
42.5°	56.4	52.1	44.9	39.5	38.1	39.9	34.1	28.8	26.9	26.2	26.9
45°	53.6	48.9	40.6	34.5	30.2	32.4	28.0	23.7	21.5	21.5	21.2
47.5°	50.6	46.3	37.3	29.9	25.1	24.1	23.0	19.0	16.9	16.6	16.9
50°	48.2	43.8	33.8	25.9	21.2	18.7	18.7	15.1	13.6	13.0	13.3
52.5°	45.7	41.0	30.5	23.0	18.3	15.1	13.3	12.2	11.1	10.8	11.1
55°	42.0	37.3	27.3	19.8	15.8	12.6	10.4	10.1	9.3	8.7	9.3
57.5°	37.8	33.4	24.1	16.9	12.6	9.7	8.7	8.2	7.6	7.1	7.1
59°	35.2	31.3	22.3	14.7	11.1	8.7	7.9	7.6	6.8	6.1	6.5
60°	33.8	30.5	21.2	13.6	10.1	7.9	7.1	6.8	6.1	5.7	6.1
62.5°	29.9	27.3	18.7	11.1	7.9	5.7	5.0	5.4	5.0	4.7	5.0
65°	26.2	24.1	15.8	8.7	6.1	4.0	3.6	4.7	4.3	4.0	4.3
67.5°	23.4	20.9	13.3	6.5	4.3	2.2	2.5	4.0	4.0	3.6	4.0
70°	20.1	18.0	10.8	4.7	2.2	1.1	1.8	2.9	3.6	3.2	3.6
72.5°	16.6	14.0	8.2	3.2	1.1	0.0	1.1	2.5	3.6	3.2	3.6
75°	13.0	10.4	6.1	1.8	0.0	0.0	0.3	2.2	3.6	3.2	3.6
77.5°	9.3	7.6	3.6	0.3	0.0	0.0	0.3	2.2	3.6	3.2	3.6
80°	6.1	5.4	1.4	0.0	0.0	0.0	0.3	2.2	3.6	3.6	4.0
82.5°	4.0	2.9	0.0	0.0	0.0	0.0	0.8	2.9	4.0	4.3	4.3
85°	1.8	0.0	0.0	0.0	0.0	0.0	1.4	3.6	4.7	4.7	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.5	4.3	5.4	5.4	5.4
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°	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4
2.5°	1285.0	1307.7	1339.6	1388.8	1428.8	1491.6	1539.8	1605.6	1672.0	1692.2	1723.4
5°	945.8	974.9	1047.5	1113.6	1155.3	1288.2	1372.3	1505.0	1623.9	1681.0	1743.1
7.5°	656.9	691.4	746.7	839.1	926.8	1034.9	1170.8	1322.4	1496.6	1578.2	1665.9
10°	461.0	504.2	582.1	658.0	768.3	871.0	1005.1	1172.5	1364.8	1461.1	1571.1
12.5°	291.1	329.5	432.6	517.8	655.5	774.7	898.4	1050.0	1272.8	1371.6	1487.0
15°	166.3	198.7	246.8	356.1	508.8	666.6	820.7	996.8	1225.8	1347.5	1472.3
17.5°	124.0	132.6	154.2	216.0	355.1	539.3	749.2	980.7	1257.7	1400.7	1543.0
20°	104.2	109.9	120.0	144.5	226.4	415.4	679.5	983.5	1361.2	1540.9	1675.9
22.5°	93.4	97.1	105.3	121.1	154.5	302.6	598.0	1000.5	1486.6	1713.0	1869.0
25°	81.9	86.6	93.8	107.5	128.7	209.8	517.5	1038.1	1662.3	1931.4	2078.1
27.5°	72.9	77.3	84.4	97.1	112.9	160.3	423.7	1070.5	1847.8	2151.4	2271.4
30°	64.0	68.3	75.4	85.5	99.9	129.7	322.7	1089.5	2027.8	2316.4	2408.7
32.5°	56.4	60.0	66.9	75.9	87.7	109.9	254.4	1069.8	2165.4	2466.1	2528.0
35°	48.9	53.2	59.0	67.2	77.6	93.8	211.7	1001.5	2283.7	2620.3	2642.6
37.5°	41.0	46.0	52.1	59.6	68.0	86.2	170.0	926.0	2410.1	2812.6	2776.0
40°	34.5	39.2	44.9	53.2	60.7	79.1	130.8	845.5	2546.6	2993.0	2921.5
42.5°	28.0	33.1	39.9	47.4	60.0	69.0	101.3	762.2	2669.2	3150.0	3053.0
45°	22.3	26.6	33.8	43.5	59.6	59.3	78.3	679.9	2761.6	3262.2	3151.1
47.5°	17.6	21.2	28.4	42.4	55.0	50.3	62.9	628.8	2858.6	3363.1	3226.2
50°	14.0	17.6	24.5	44.2	48.2	43.1	52.8	637.1	2952.3	3414.5	3257.1
52.5°	11.9	15.5	21.2	34.8	37.0	37.8	46.3	675.2	3073.4	3469.5	3318.5
55°	10.4	13.6	18.0	24.5	28.8	33.8	42.4	702.9	3235.5	3587.4	3454.0
57.5°	8.2	11.9	16.1	20.9	23.7	29.4	39.2	705.0	3382.2	3738.6	3634.0
59°	7.6	10.8	15.1	19.8	21.2	26.6	37.0	686.7	3387.5	3761.3	3716.7
60°	6.8	10.4	14.4	18.3	20.1	25.1	35.2	665.5	3338.7	3725.3	3750.9
62.5°	5.7	9.0	12.6	14.7	17.2	20.9	30.5	588.6	3101.9	3562.6	3687.6
65°	5.0	7.9	10.8	12.2	14.4	18.0	26.9	471.1	2840.2	3341.9	3506.5
67.5°	4.7	7.1	9.3	10.4	12.6	16.6	24.1	332.8	2501.4	3062.0	3234.5
70°	4.3	6.8	8.2	9.7	11.1	14.0	20.5	194.0	1926.8	2571.1	2753.3
72.5°	4.3	6.5	7.1	8.2	9.7	12.6	19.0	105.0	1317.3	1961.3	2196.7
75°	4.3	6.1	6.5	7.1	8.7	11.5	16.9	55.0	851.7	1362.7	1681.7
77.5°	4.3	5.7	6.5	6.8	8.2	10.1	14.7	34.5	567.4	954.5	1136.6
80°	4.7	5.7	6.1	6.8	7.9	9.3	12.2	23.0	333.5	574.2	691.7
82.5°	5.0	5.7	6.5	7.1	8.2	9.0	10.8	14.4	153.8	379.8	429.8
85°	5.4	6.1	6.8	7.6	8.7	9.0	10.1	10.4	25.1	171.4	231.8
87.5°	5.7	6.5	7.1	7.9	9.3	9.3	9.3	9.3	8.7	18.3	46.7
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°	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4	1562.4
2.5°	1762.9	1803.5	1832.0	1839.1	1818.7	1809.3	1783.4	1743.1	1718.8	1717.7
5°	1857.8	1953.1	2019.2	2030.3	1990.7	1924.0	1844.5	1742.1	1682.1	1664.1
7.5°	1841.6	2008.4	2114.8	2130.2	2063.7	1936.2	1782.3	1617.4	1552.0	1524.3
10°	1775.2	1978.5	2130.6	2155.0	2066.3	1886.5	1691.1	1507.1	1425.9	1404.6
12.5°	1718.4	1924.0	2059.0	2092.8	2025.6	1846.3	1636.4	1436.3	1349.3	1329.5
15°	1693.6	1859.3	1941.9	1959.1	1948.0	1821.2	1630.7	1425.5	1326.0	1304.4
17.5°	1718.4	1804.3	1814.7	1832.3	1857.1	1818.7	1686.0	1484.1	1376.6	1350.1
20°	1783.4	1756.5	1713.4	1720.9	1777.7	1829.1	1784.5	1613.8	1483.0	1454.6
22.5°	1894.1	1744.7	1646.8	1640.4	1712.3	1863.9	1928.9	1789.6	1637.8	1609.8
25°	2029.9	1774.4	1622.5	1608.4	1686.8	1915.0	2086.0	2004.8	1839.1	1796.4
27.5°	2178.0	1836.2	1622.5	1608.7	1684.6	1960.2	2220.4	2195.3	2047.6	2000.8
30°	2259.2	1887.3	1645.8	1630.4	1711.2	1986.4	2292.2	2364.5	2204.2	2146.4
32.5°	2331.8	1958.1	1691.4	1662.3	1766.9	2025.3	2356.6	2508.2	2328.9	2290.1
35°	2398.6	2033.9	1754.3	1720.5	1840.2	2078.4	2427.7	2659.2	2502.5	2443.9
37.5°	2472.3	2121.9	1852.4	1823.7	1962.7	2182.0	2512.2	2857.5	2673.1	2599.5
40°	2552.4	2223.9	2013.8	2001.6	2157.5	2299.0	2618.9	3069.1	2867.9	2784.2
42.5°	2634.0	2341.5	2211.4	2231.5	2378.2	2463.3	2728.5	3232.0	3027.4	2935.1
45°	2708.0	2491.7	2468.3	2567.9	2635.4	2623.6	2809.7	3346.6	3166.5	3078.1
47.5°	2801.5	2710.5	2779.2	2932.6	2934.4	2797.8	2871.2	3440.4	3286.2	3197.8
50°	2906.0	2968.9	3180.6	3336.8	3294.8	2969.2	2943.0	3551.4	3409.8	3339.0
52.5°	3027.1	3258.2	3551.4	3725.0	3626.9	3156.1	3062.7	3671.4	3606.0	3538.1
55°	3168.0	3455.4	3921.2	4059.5	3960.7	3388.2	3244.5	3834.2	3827.7	3781.4
57.5°	3327.2	3663.9	4135.4	4322.6	4234.5	3660.6	3498.6	3987.6	3963.2	3937.3
59°	3452.9	3771.0	4229.8	4423.9	4370.7	3851.4	3669.3	4083.2	3994.5	3955.6
60°	3529.1	3843.5	4264.7	4437.5	4425.3	3965.0	3777.4	4129.9	3994.1	3940.2
62.5°	3755.1	3970.4	4251.4	4376.8	4424.6	4182.8	4094.7	4181.3	3920.1	3841.0
65°	3835.6	3928.3	4031.1	4015.7	4056.6	4171.6	4297.4	4124.9	3762.0	3649.5
67.5°	3679.0	3467.3	3503.6	3400.5	3380.3	3708.8	4215.1	3848.9	3452.6	3315.0
70°	3101.1	2656.3	2638.0	2685.4	2555.3	3002.7	3785.0	3317.5	2942.0	2786.0
72.5°	2441.0	1877.2	1722.7	1897.3	1893.3	2290.8	3144.2	2354.0	1987.5	1974.2
75°	1919.6	1306.9	1147.0	1175.4	1230.0	1658.4	2504.2	1494.9	1223.9	1115.4
77.5°	1288.6	926.0	863.9	829.0	887.9	1064.7	1584.4	810.6	686.3	650.1
80°	742.8	672.7	764.0	693.6	725.2	670.9	788.0	371.9	308.6	334.2
82.5°	483.3	383.1	408.2	303.3	414.7	418.3	253.0	109.9	93.1	98.8
85°	302.2	179.6	101.0	71.9	143.1	263.1	79.1	6.8	7.9	6.8
87.5°	78.3	29.9	12.6	18.7	23.0	20.5	18.3	1.1	0.3	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)