

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: P269342

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T2R-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17742.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 162  
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: 25 FT

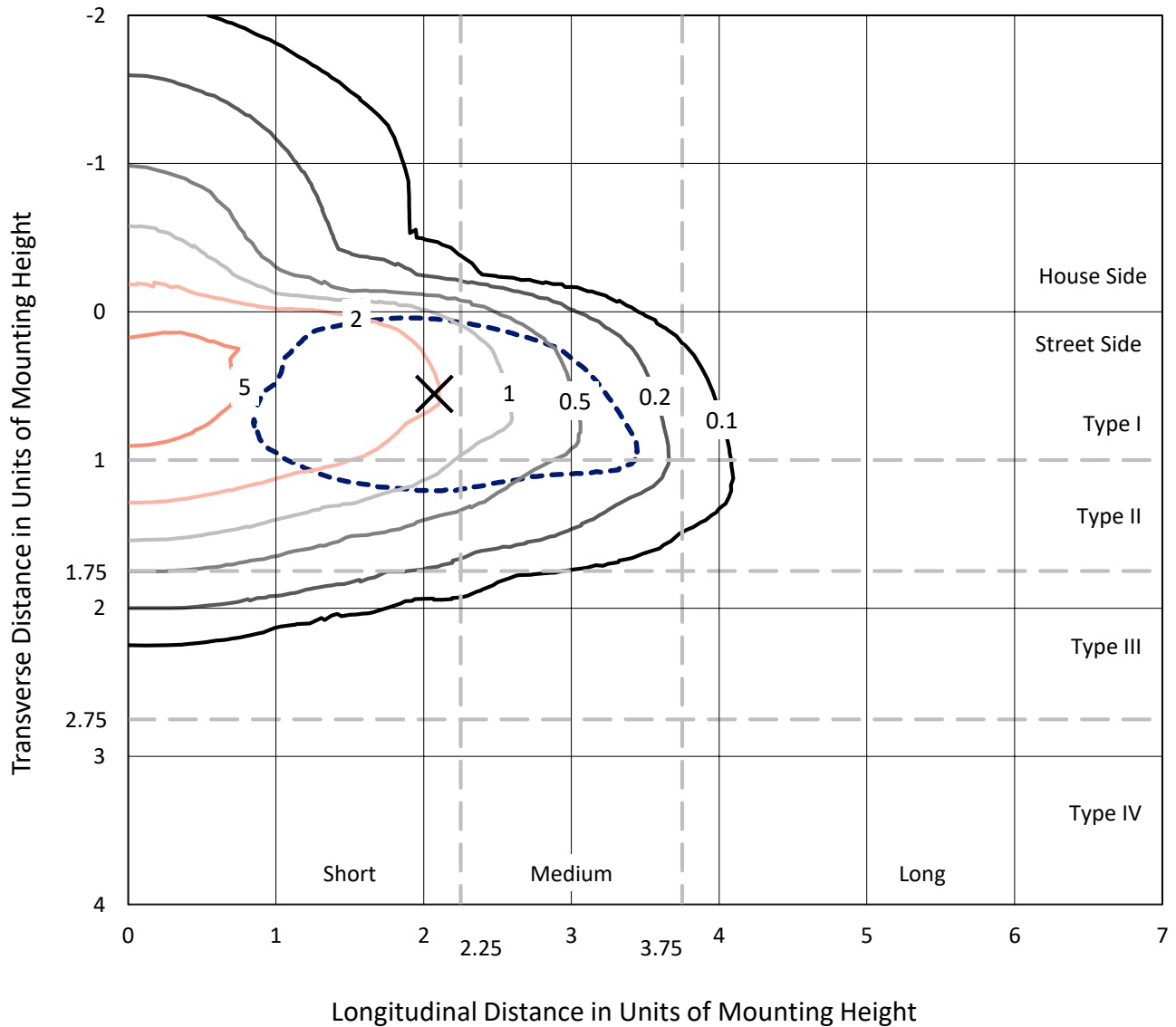


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### Iso-Footcandle Lines of Horizontal Illumination

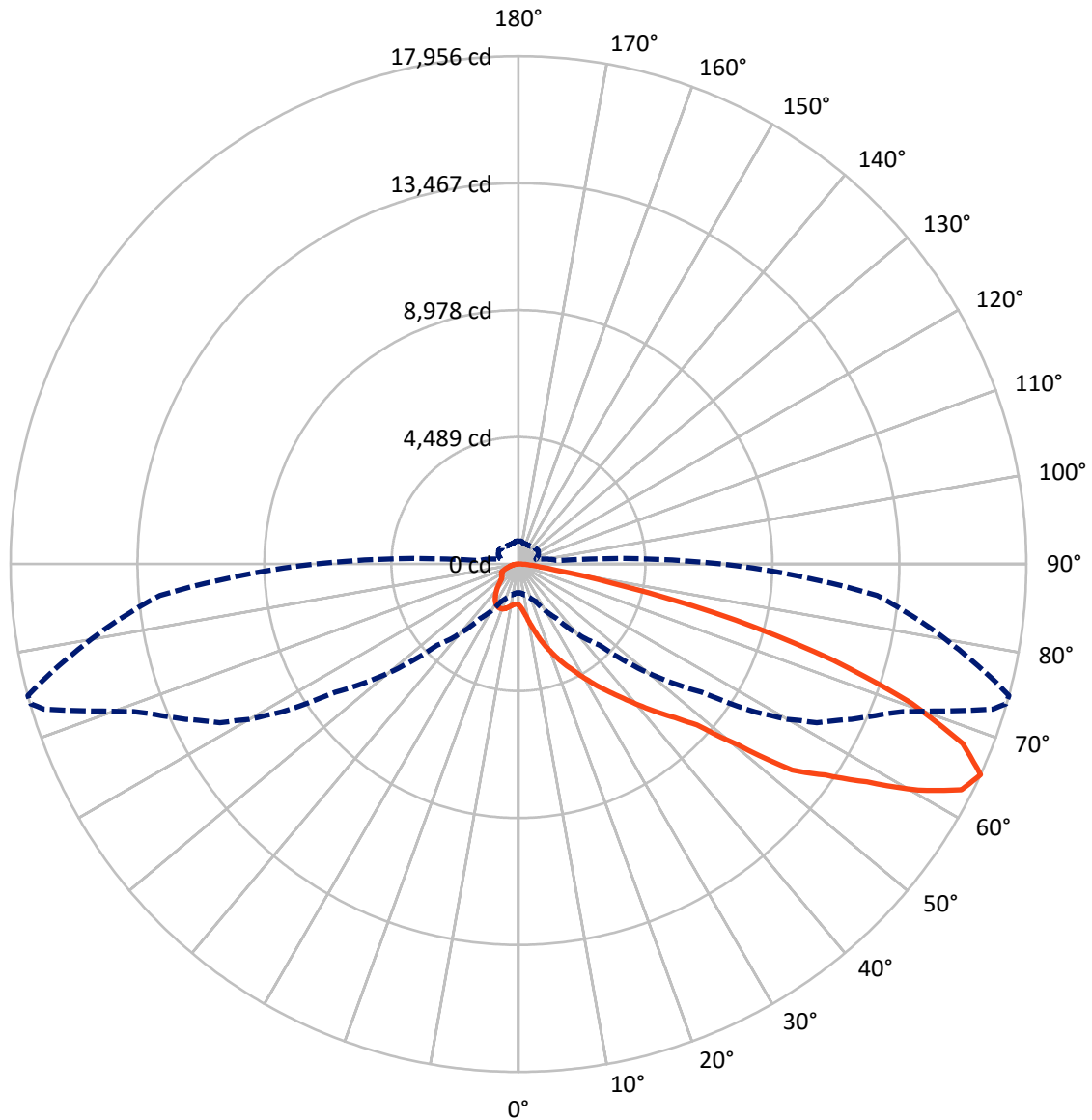
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2735.4	0.0	2735.4
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	15006.8	0.0	15006.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	17742.2	0.0	17742.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	1.0
10°-20°	696.4	3.9
20°-30°	1428.7	8.1
30°-40°	2403.7	13.5
40°-50°	3321.3	18.7
50°-60°	4145.9	23.4
60°-70°	3730.9	21.0
70°-80°	1563.9	8.8
80°-90°	273.2	1.5
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°	17742.2	100.0
0°-180°	17742.2	100.0

**Coefficient of Utilization**



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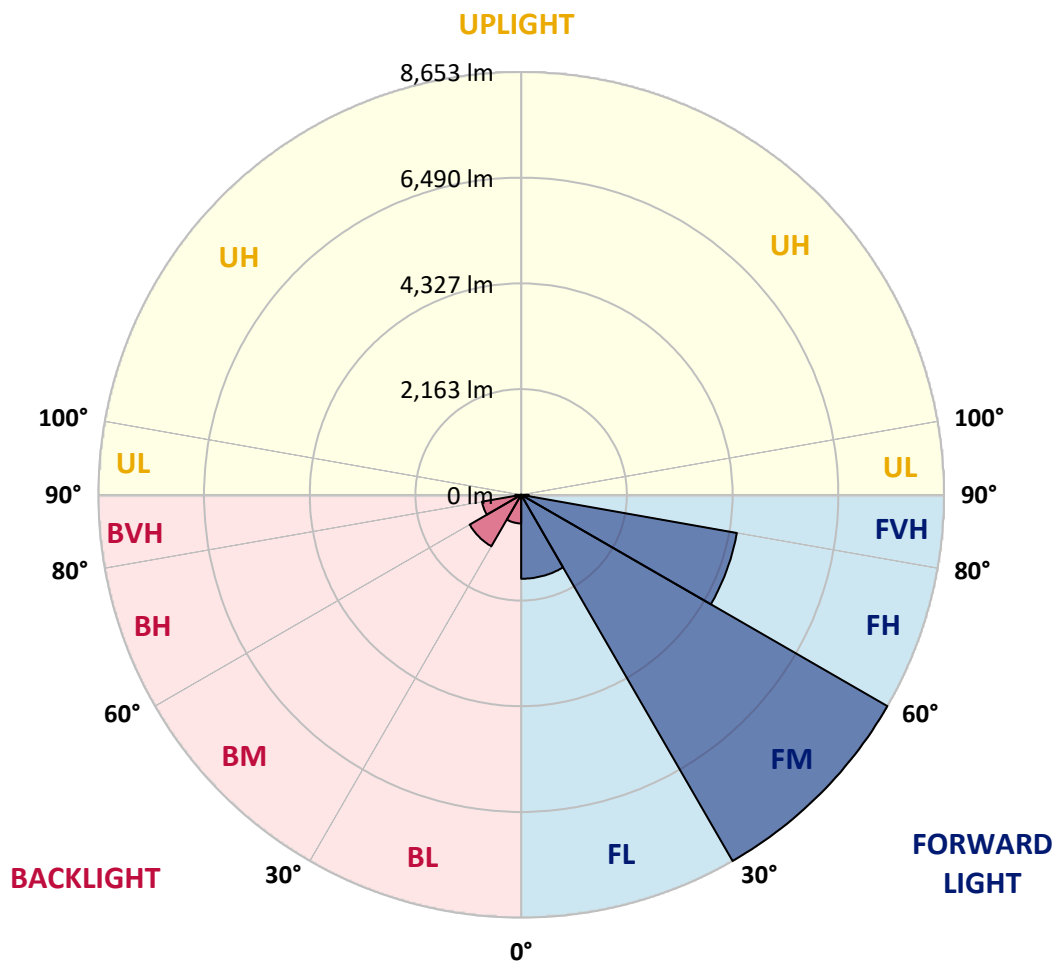
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.3	9.7			
FM (30°-60°)	8653.3	48.8			
FH (60°-80°)	4481.6	25.3			G2/5000
FVH (80°-90°)	153.6	0.9			G2/225
BL (0°-30°)	585.0	3.3	B2/1000		
BM (30°-60°)	1217.6	6.9	B2/2500		
BH (60°-80°)	813.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	119.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1830.7	1810.5	1815.7	1782.0	1740.8	1687.0	1627.5	1626.7	1627.5	1621.6	1599.8
5°	2538.6	2514.3	2505.1	2429.5	2318.6	2160.8	1989.4	1970.9	1963.3	1944.1	1899.6
7.5°	3055.1	3041.8	3027.4	2970.2	2869.5	2693.2	2463.1	2423.5	2385.8	2376.6	2326.3
10°	3388.4	3385.2	3354.9	3339.8	3276.7	3123.9	2899.8	2862.0	2820.8	2806.6	2753.7
12.5°	3652.1	3651.3	3637.1	3641.3	3586.8	3475.8	3282.6	3248.2	3218.0	3174.3	3136.5
15°	3834.4	3835.3	3856.2	3879.8	3871.3	3796.6	3615.3	3600.0	3574.0	3543.9	3499.3
17.5°	3984.0	3988.0	4009.9	4052.8	4099.0	4093.0	3949.5	3936.9	3914.3	3873.0	3849.5
20°	4321.4	4337.5	4295.4	4295.4	4300.5	4323.2	4254.4	4244.2	4212.3	4190.6	4172.0
22.5°	4891.7	4910.1	4815.3	4718.6	4623.8	4554.9	4486.0	4498.7	4476.9	4461.7	4450.8
25°	5632.5	5646.7	5493.0	5330.1	5136.9	4885.0	4714.6	4706.9	4695.3	4686.0	4680.9
27.5°	6329.4	6335.2	6190.0	5951.5	5727.2	5365.3	4946.2	4937.1	4922.8	4905.1	4890.1
30°	6925.7	6924.0	6774.5	6546.8	6306.7	5906.1	5298.2	5269.5	5227.5	5179.7	5142.7
32.5°	7442.1	7439.7	7275.8	7039.8	6788.0	6441.9	5780.1	5721.3	5655.9	5562.7	5506.4
35°	7848.5	7846.9	7692.4	7446.3	7157.4	6946.7	6332.7	6260.6	6177.5	6052.3	5965.7
37.5°	8002.2	8002.2	7915.8	7747.8	7492.6	7348.0	6946.7	6859.3	6770.3	6628.4	6530.9
40°	7912.5	7914.1	7932.6	7901.4	7777.2	7666.3	7519.4	7467.3	7390.9	7263.2	7161.6
42.5°	7610.9	7620.1	7742.8	7893.0	7955.2	7937.6	8027.4	8003.9	7950.2	7851.9	7771.2
45°	7228.8	7257.3	7391.8	7675.6	8004.7	8171.9	8453.2	8455.7	8445.7	8392.8	8330.6
47.5°	6704.0	6744.2	6921.4	7305.2	7888.8	8399.4	8885.7	8908.3	8929.3	8894.8	8866.5
50°	6007.0	6054.8	6320.1	6829.1	7652.9	8635.4	9702.9	9805.2	9900.9	9889.3	9908.6
52.5°	5260.4	5316.6	5641.6	6208.5	7247.3	8690.1	10225.0	10392.2	10559.3	10696.3	10841.6
55°	4586.8	4556.7	4881.6	5478.8	6580.4	8444.0	10694.5	10896.1	11082.5	11250.6	11423.4
57.5°	3674.0	3723.6	4049.4	4639.7	5697.9	7749.5	11017.9	11312.6	11580.5	11858.4	12103.8
60°	2685.7	2735.2	3088.7	3688.4	4739.6	6696.3	10770.9	11217.8	11646.9	12072.6	12405.1
62.5°	1621.6	1658.6	1970.2	2541.1	3654.8	5447.6	9670.9	10257.0	10888.5	11397.4	11907.3
65°	1009.4	1030.4	1145.5	1459.6	2347.2	4067.0	7901.4	8540.5	9220.7	9866.5	10396.4
67.5°	826.4	833.8	854.8	922.1	1289.1	2652.1	5880.9	6447.0	7060.9	7685.5	8275.1
70°	743.2	738.1	738.1	742.4	826.4	1425.9	3850.3	4219.0	4730.5	5273.8	5812.9
72.5°	670.9	666.0	656.8	644.2	674.4	870.0	1990.3	2268.2	2637.0	3119.8	3636.2
75°	602.9	596.3	585.3	569.3	590.4	656.8	955.6	1072.3	1252.1	1509.2	1797.1
77.5°	532.4	524.0	513.9	502.2	529.0	510.5	560.2	602.1	670.9	753.3	861.7
80°	452.7	445.1	441.7	435.9	467.7	388.8	395.6	421.6	461.9	506.4	556.8
82.5°	354.4	354.4	367.9	370.3	405.7	279.6	295.6	318.3	339.3	362.7	386.4
85°	233.5	235.1	280.5	298.1	319.9	188.1	221.7	229.2	246.0	259.5	269.6
87.5°	73.0	79.0	171.2	189.8	184.0	106.7	136.1	139.3	151.2	160.3	168.8
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1599.8	1589.7	1580.5	1579.6	1572.9	1563.7	1567.1	1552.7	1553.6	1546.1	1537.5
5°	1881.1	1874.4	1840.7	1831.6	1806.3	1790.4	1787.8	1754.3	1750.1	1730.8	1709.7
7.5°	2285.8	2264.1	2216.9	2194.3	2151.5	2119.6	2104.5	2060.0	2038.2	1987.8	1965.1
10°	2709.9	2682.2	2624.3	2592.4	2551.2	2500.1	2472.2	2407.6	2382.5	2336.2	2280.8
12.5°	3102.9	3075.3	3015.6	2991.3	2936.6	2882.1	2851.8	2778.8	2746.1	2672.2	2628.5
15°	3466.6	3438.9	3386.8	3361.6	3307.0	3262.6	3222.2	3149.9	3111.4	3042.5	2985.3
17.5°	3819.4	3789.9	3744.6	3721.9	3668.9	3623.7	3579.9	3512.0	3472.5	3403.6	3352.4
20°	4146.8	4124.9	4092.1	4062.0	4009.0	3968.0	3915.9	3857.1	3800.0	3749.5	3700.8
22.5°	4432.3	4424.0	4388.7	4375.3	4329.9	4294.5	4249.3	4191.3	4150.2	4086.4	4041.0
25°	4678.5	4675.9	4659.1	4654.8	4622.9	4589.4	4579.3	4531.4	4493.6	4437.4	4390.3
27.5°	4890.1	4892.6	4888.3	4900.2	4891.7	4876.5	4877.3	4861.4	4839.6	4792.5	4751.4
30°	5125.2	5111.7	5119.4	5136.1	5141.1	5142.7	5170.6	5179.7	5178.1	5147.0	5126.8
32.5°	5457.7	5425.9	5396.4	5394.0	5410.8	5417.4	5464.4	5488.7	5509.8	5517.3	5520.8
35°	5881.8	5818.0	5756.7	5723.9	5695.3	5702.9	5736.5	5776.0	5822.2	5854.1	5891.9
37.5°	6415.9	6337.8	6229.4	6152.2	6132.9	6090.9	6112.7	6143.8	6189.1	6238.6	6304.2
40°	7063.4	6944.9	6823.2	6720.7	6665.3	6588.1	6587.2	6581.3	6609.0	6655.3	6747.6
42.5°	7686.4	7581.5	7452.2	7344.7	7272.5	7169.2	7148.2	7093.6	7106.2	7146.5	7236.3
45°	8270.2	8183.6	8104.7	7980.5	7919.1	7807.3	7772.1	7707.5	7671.3	7689.9	7779.7
47.5°	8835.3	8779.9	8697.6	8616.9	8569.9	8469.9	8424.7	8378.4	8332.3	8330.6	8424.7
50°	9937.1	9907.6	9810.3	9726.3	9748.9	9626.3	9634.0	9509.6	9566.0	9572.6	9770.0
52.5°	10972.4	11074.9	11147.2	11235.5	11292.5	11303.5	11341.2	11397.4	11465.4	11599.9	11782.9
55°	11565.4	11693.9	11768.6	11835.8	11946.6	11970.2	12033.2	12108.0	12167.5	12318.6	12474.0
57.5°	12269.9	12508.4	12624.4	12731.0	12880.4	12937.6	13042.6	13124.1	13201.3	13380.2	13568.3
60°	12704.1	12994.7	13230.6	13399.5	13586.8	13721.2	13879.8	14007.5	14188.9	14403.1	14683.4
62.5°	12359.1	12785.5	13098.8	13388.6	13643.0	13900.0	14127.6	14366.1	14641.6	14965.7	15400.6
65°	10984.2	11418.4	11955.1	12255.7	12592.4	12988.9	13334.8	13721.2	14096.6	14568.4	15211.7
67.5°	8842.8	9347.6	9950.5	10253.7	10640.9	11083.4	11471.4	11943.2	12381.7	12953.6	13748.7
70°	6374.0	7026.5	7533.6	7850.2	8302.0	8758.0	9132.6	9681.8	10044.6	10630.7	11452.9
72.5°	4035.9	4550.8	5172.3	5571.1	5972.6	6434.4	6817.2	7291.0	7629.3	8163.4	8908.3
75°	2169.9	2549.6	3095.4	3474.1	3904.2	4298.7	4747.3	5064.7	5314.9	5737.4	6342.0
77.5°	1017.1	1247.9	1524.2	1815.7	2107.1	2411.1	2706.7	2963.6	3071.0	3312.9	3669.8
80°	617.2	692.0	772.6	862.5	984.3	1082.5	1212.6	1306.7	1313.4	1389.9	1499.0
82.5°	412.3	440.0	464.5	487.2	518.1	542.4	570.2	602.9	616.3	634.1	669.2
85°	281.3	294.7	299.9	314.0	310.8	319.1	330.0	340.9	346.8	345.9	361.9
87.5°	173.1	179.8	183.1	186.4	184.0	180.6	185.6	191.5	193.1	188.1	189.8
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1539.3	1531.8	1524.2	1519.2	1517.4	1473.0	1453.6	1441.1	1414.2	1392.4	1374.8
5°	1698.1	1682.0	1669.5	1654.4	1646.0	1533.4	1492.3	1463.7	1416.6	1389.0	1363.7
7.5°	1953.4	1908.8	1882.8	1853.5	1828.2	1624.9	1556.9	1512.4	1446.9	1410.0	1381.5
10°	2243.1	2196.8	2155.8	2110.4	2071.0	1746.8	1647.6	1578.9	1492.3	1444.5	1406.7
12.5°	2566.4	2521.1	2468.9	2411.1	2360.7	1901.3	1763.6	1665.3	1546.9	1483.0	1430.1
15°	2948.4	2868.6	2805.6	2738.6	2679.7	2086.0	1898.7	1762.7	1604.8	1518.3	1447.8
17.5°	3303.6	3219.7	3134.0	3075.3	3007.3	2293.5	2034.8	1861.7	1652.7	1541.0	1451.1
20°	3650.5	3558.9	3485.1	3406.2	3334.8	2508.3	2180.0	1949.1	1683.8	1541.9	1430.1
22.5°	3956.1	3899.2	3816.8	3731.1	3658.8	2723.4	2316.1	2023.1	1695.6	1522.4	1393.2
25°	4303.9	4243.5	4142.7	4070.4	3989.8	2942.6	2449.6	2080.1	1688.9	1486.3	1336.0
27.5°	4675.0	4607.9	4504.6	4429.0	4331.5	3170.2	2572.2	2121.3	1663.7	1427.6	1259.7
30°	5062.2	5000.9	4899.3	4822.8	4724.5	3411.1	2709.1	2148.9	1613.1	1346.2	1170.6
32.5°	5477.9	5426.7	5326.0	5246.1	5141.1	3672.4	2836.8	2157.4	1536.8	1249.6	1076.6
35°	5872.6	5837.2	5752.4	5677.7	5568.6	3919.2	2972.0	2153.1	1446.1	1143.8	990.9
37.5°	6316.8	6295.9	6253.8	6158.9	6025.4	4254.4	3134.0	2135.5	1335.2	1038.8	925.4
40°	6790.5	6792.2	6746.8	6682.1	6557.7	4660.8	3327.2	2101.1	1214.2	946.5	865.7
42.5°	7291.8	7317.9	7295.9	7249.9	7130.6	5070.6	3558.1	2059.2	1096.7	856.5	807.0
45°	7866.2	7898.1	7931.7	7863.7	7747.8	5611.4	3862.2	2004.6	969.9	781.9	766.8
47.5°	8528.8	8579.2	8609.4	8610.3	8494.4	6281.5	4355.9	1971.8	857.4	731.4	747.4
50°	9927.0	9943.0	10014.3	10138.6	10049.6	7832.6	5218.3	1951.7	780.9	700.4	733.1
52.5°	11941.6	12117.1	12240.6	12232.2	12111.3	8817.7	5693.6	1847.5	735.6	688.6	726.4
55°	12762.1	12981.2	13209.7	13270.1	13176.1	9658.2	6143.0	1743.4	713.9	697.1	729.0
57.5°	13855.5	14225.0	14538.2	14670.1	14533.9	10734.0	6734.1	1688.9	707.1	719.7	744.9
60°	15132.8	15589.6	16001.1	16237.9	16237.9	11970.2	7347.1	1666.1	697.9	753.3	771.7
62.5°	15953.2	16624.3	17245.7	17592.4	17582.3	12830.9	7619.3	1588.8	676.9	776.8	808.7
65°	15956.7	16754.4	17546.4	17936.0	17956.1	12725.1	7170.0	1403.2	638.2	780.2	845.7
67.5°	14626.5	15477.1	16399.9	16835.9	16936.6	11714.1	6206.7	1153.9	575.3	746.5	859.0
70°	12353.1	13183.6	14125.8	14554.2	14733.0	9985.7	4999.2	889.3	494.6	672.7	831.4
72.5°	9732.1	10546.7	11202.7	11515.8	11655.2	7632.7	3640.4	671.8	405.7	566.8	756.6
75°	6890.4	7501.7	7850.2	7919.9	7941.7	4601.1	2211.9	499.6	334.2	440.9	639.1
77.5°	3889.0	4151.0	4122.4	4153.6	3895.0	1776.0	963.3	357.7	275.4	335.1	495.4
80°	1518.3	1565.3	1470.4	1441.1	1321.8	661.0	424.9	249.4	220.1	253.6	346.8
82.5°	669.2	691.2	670.9	676.1	646.6	340.9	254.5	180.6	168.0	185.6	230.1
85°	368.7	375.4	373.8	384.7	368.7	136.1	120.9	110.9	117.6	125.9	147.9
87.5°	179.8	181.4	175.4	184.7	178.9	68.9	59.6	63.1	68.9	70.5	70.5
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):**

	135°	145°	155°	165°	175°	180°
0°	1441.9	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1362.1	1355.5	1356.3	1354.6	1351.2	1351.2
5°	1350.3	1343.7	1343.7	1342.0	1337.8	1338.7
7.5°	1362.1	1351.2	1347.0	1341.1	1335.2	1335.2
10°	1375.6	1356.3	1344.5	1334.4	1326.8	1326.8
12.5°	1385.6	1355.5	1336.0	1322.7	1315.1	1315.1
15°	1389.0	1349.6	1322.7	1306.7	1299.9	1299.0
17.5°	1378.1	1326.8	1294.1	1275.7	1267.1	1264.8
20°	1344.5	1285.7	1246.2	1225.3	1213.5	1209.3
22.5°	1294.1	1226.9	1180.7	1159.0	1143.8	1141.2
25°	1223.5	1151.4	1106.1	1085.1	1076.6	1074.1
27.5°	1141.2	1074.1	1035.4	1022.0	1014.5	1013.6
30°	1063.1	1006.0	977.4	967.5	958.2	956.5
32.5°	990.1	954.0	943.1	928.8	907.0	904.5
35°	938.0	934.6	927.1	895.3	868.3	860.8
37.5°	906.1	937.2	898.6	835.6	816.3	814.7
40°	887.6	911.2	844.9	822.9	824.6	822.9
42.5°	845.7	870.0	846.6	836.4	843.1	844.9
45°	803.7	830.6	859.0	852.4	868.3	868.3
47.5°	780.2	820.4	858.2	858.2	881.7	890.2
50°	753.3	812.1	844.9	856.5	875.0	868.3
52.5°	751.6	797.8	825.5	846.6	854.8	847.3
55°	754.0	786.0	806.1	829.8	839.7	840.6
57.5°	757.5	779.3	792.8	803.7	833.8	833.8
60°	765.9	773.4	780.9	786.8	826.4	827.2
62.5°	779.3	767.5	765.9	771.7	822.2	818.7
65°	800.3	759.2	746.5	752.4	817.9	807.8
67.5°	828.9	746.5	722.1	726.4	814.7	792.8
70°	854.8	726.4	692.0	687.8	782.7	744.1
72.5°	857.4	703.0	650.1	637.3	680.2	643.2
75°	815.4	686.9	603.8	566.8	561.8	556.8
77.5°	734.9	677.7	550.0	492.1	482.0	485.4
80°	614.7	643.2	485.4	416.5	471.2	465.2
82.5°	459.4	567.6	412.3	368.7	367.9	324.9
85°	255.3	442.5	335.8	276.3	192.2	186.4
87.5°	71.3	246.0	235.1	156.1	106.7	110.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)