

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: P269422

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269422
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-06-LED-E1-T2R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 21231.4 lumens
Efficiency: N/A
Efficacy: 110.0 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 - G3

Input Watts (W): 193
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

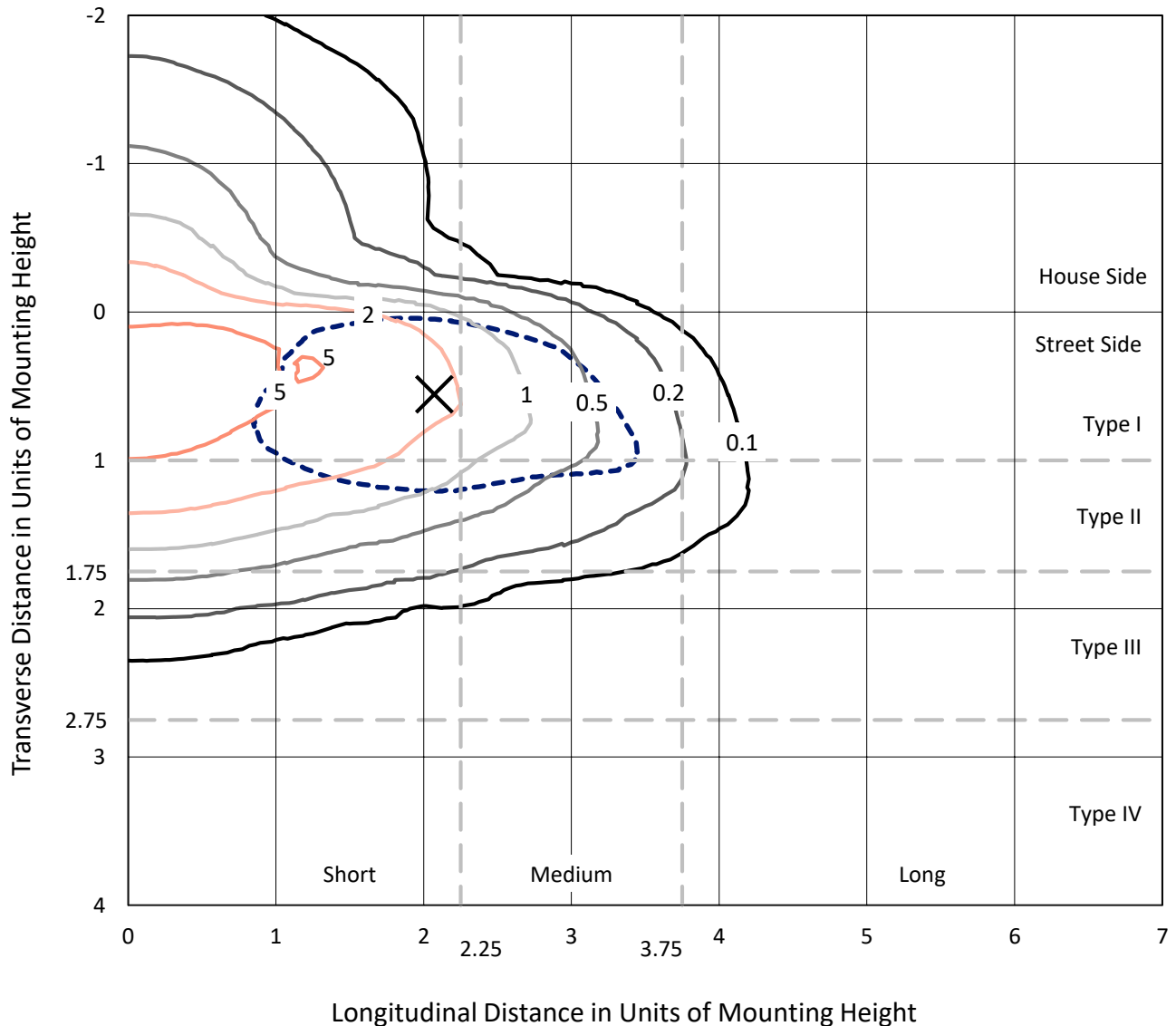


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

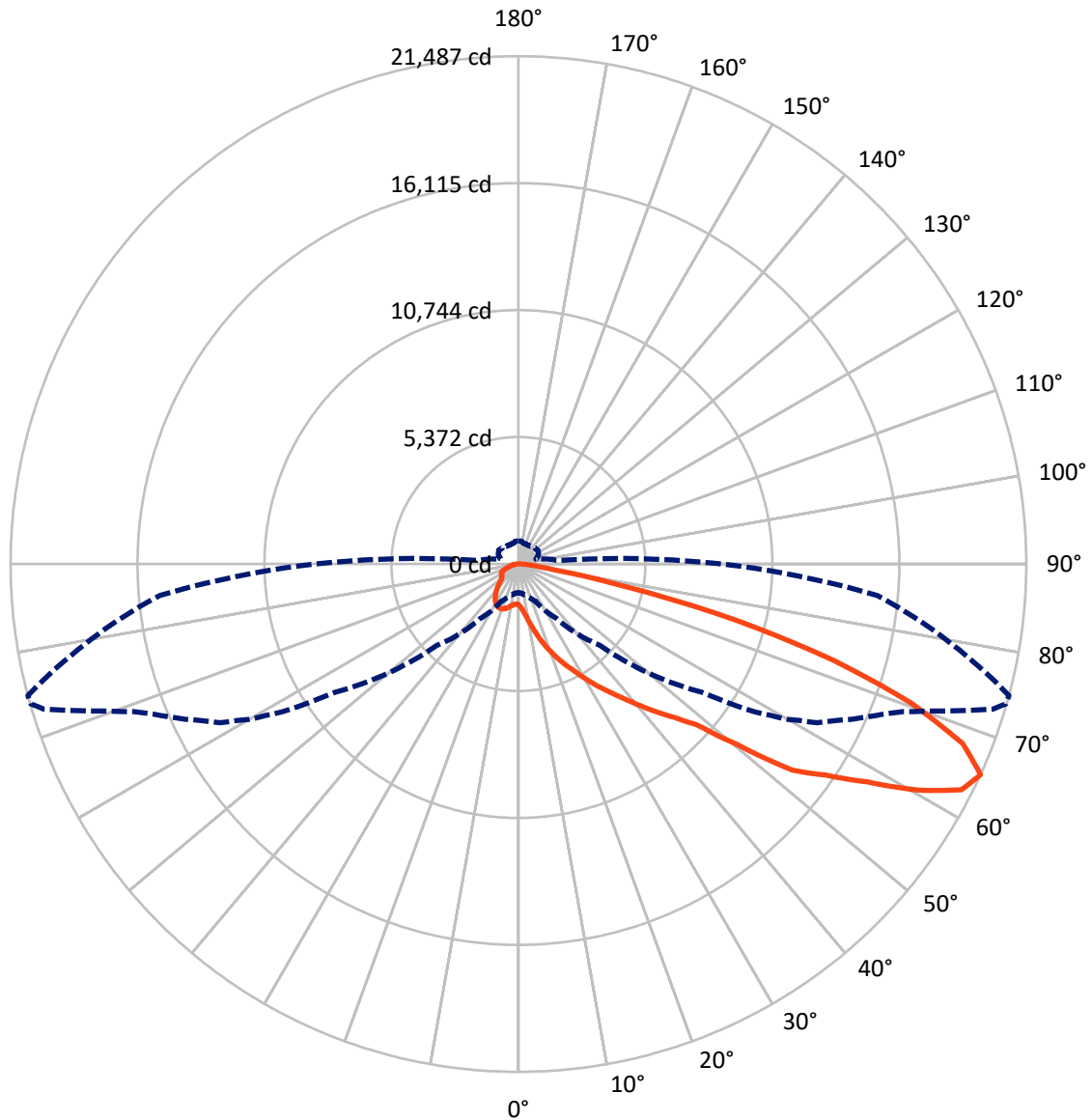


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	3273.4	0.0	3273.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	17958.0	0.0	17958.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	21231.4	0.0	21231.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	1.0
10°-20°	833.3	3.9
20°-30°	1709.7	8.1
30°-40°	2876.4	13.5
40°-50°	3974.4	18.7
50°-60°	4961.3	23.4
60°-70°	4464.6	21.0
70°-80°	1871.5	8.8
80°-90°	327.0	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°	21231.4	100.0
0°-180°	21231.4	100.0



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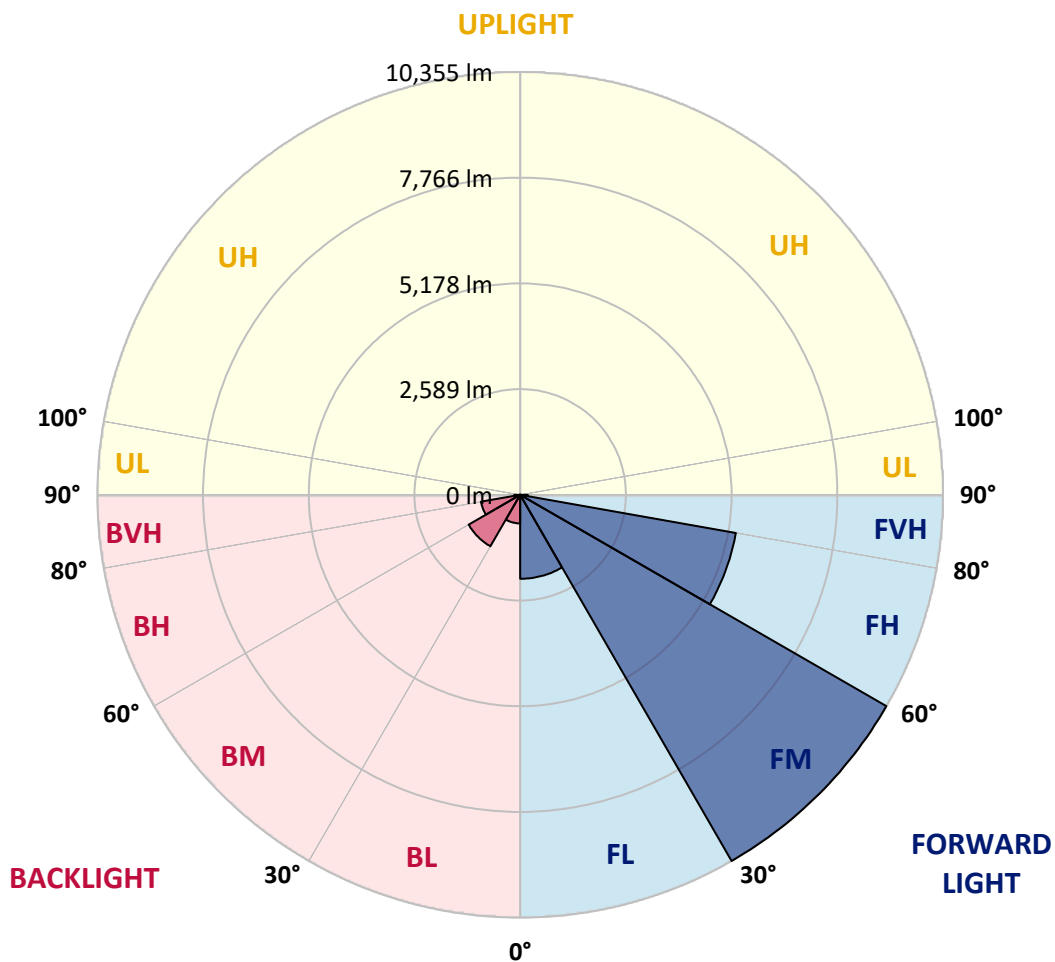
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.2	9.7			
FM (30°-60°)	10355.1	48.8			
FH (60°-80°)	5363.0	25.3			G3/7500
FVH (80°-90°)	183.8	0.9			G2/225
BL (0°-30°)	700.0	3.3	B2/1000		
BM (30°-60°)	1457.0	6.9	B2/2500		
BH (60°-80°)	973.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	143.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5
2.5°	2190.7	2166.6	2172.6	2132.4	2083.2	2018.9	1947.5	1946.5	1947.5	1940.5	1914.4
5°	3037.9	3008.8	2997.7	2907.3	2774.7	2585.7	2380.7	2358.6	2349.4	2326.4	2273.2
7.5°	3655.9	3639.8	3622.8	3554.5	3433.9	3222.8	2947.5	2900.2	2855.1	2843.9	2783.7
10°	4054.9	4050.8	4014.6	3996.6	3921.2	3738.3	3470.1	3424.8	3375.6	3358.5	3295.2
12.5°	4370.4	4369.4	4352.4	4357.4	4292.0	4159.4	3928.3	3887.1	3850.9	3798.7	3753.4
15°	4588.5	4589.5	4614.7	4642.8	4632.6	4543.3	4326.1	4308.1	4277.0	4240.8	4187.4
17.5°	4767.3	4772.3	4798.6	4849.8	4905.0	4898.0	4726.2	4711.2	4683.9	4634.7	4606.6
20°	5171.4	5190.4	5140.2	5140.2	5146.2	5173.3	5091.0	5078.8	5040.7	5014.6	4992.5
22.5°	5853.6	5875.9	5762.3	5646.7	5533.1	5450.7	5368.4	5383.5	5357.2	5339.2	5326.1
25°	6740.1	6757.1	6573.2	6378.2	6147.1	5845.7	5641.6	5632.6	5618.5	5607.5	5601.4
27.5°	7574.1	7581.2	7407.3	7121.9	6853.6	6420.5	5919.0	5908.0	5890.8	5869.7	5851.6
30°	8287.7	8285.5	8106.8	7834.4	7547.0	7067.7	6340.1	6305.9	6255.6	6198.3	6154.2
32.5°	8905.6	8902.7	8706.7	8424.2	8122.8	7708.7	6916.9	6846.5	6768.2	6656.6	6589.2
35°	9392.0	9390.1	9205.1	8910.6	8565.0	8312.7	7578.1	7491.8	7392.2	7242.6	7139.0
37.5°	9575.9	9575.9	9472.4	9271.4	8966.0	8793.1	8312.7	8208.3	8101.8	7931.9	7815.3
40°	9468.5	9470.4	9492.5	9455.4	9306.6	9174.0	8998.1	8935.8	8844.4	8691.6	8570.0
42.5°	9107.6	9118.6	9265.4	9445.3	9519.7	9498.6	9606.0	9578.0	9513.6	9396.0	9299.6
45°	8650.4	8684.5	8845.4	9185.0	9578.9	9778.9	10115.5	10118.6	10106.6	10043.2	9968.9
47.5°	8022.4	8070.6	8282.6	8741.9	9440.3	10051.2	10633.1	10660.2	10685.3	10644.1	10610.1
50°	7188.2	7245.5	7563.1	8172.1	9158.0	10333.7	11611.0	11733.5	11848.0	11834.0	11857.1
52.5°	6294.9	6362.2	6751.1	7429.4	8672.4	10399.0	12236.0	12436.0	12636.0	12799.7	12973.6
55°	5489.0	5452.7	5841.7	6556.1	7874.6	10104.6	12797.8	13038.9	13261.9	13463.0	13670.0
57.5°	4396.6	4455.9	4845.7	5552.2	6818.5	9273.5	13184.7	13537.4	13858.0	14190.5	14484.0
60°	3213.7	3273.1	3696.2	4413.6	5671.8	8013.3	12889.2	13423.8	13937.4	14446.8	14844.9
62.5°	1940.5	1984.7	2357.5	3040.9	4373.5	6519.0	11572.8	12274.3	13029.8	13638.8	14248.8
65°	1208.0	1233.1	1370.8	1746.6	2808.8	4866.8	9455.4	10220.0	11034.2	11806.9	12440.9
67.5°	988.9	997.8	1023.0	1103.4	1542.6	3173.5	7037.5	7714.9	8449.4	9197.0	9902.6
70°	889.3	883.4	883.4	888.3	988.9	1706.4	4607.5	5048.7	5660.8	6311.0	6956.0
72.5°	802.9	796.8	785.8	770.7	806.9	1041.0	2381.6	2714.3	3155.4	3733.3	4351.3
75°	721.6	713.6	700.4	681.4	706.4	785.8	1143.6	1283.3	1498.4	1805.9	2150.5
77.5°	637.1	627.0	615.0	601.0	633.0	610.9	670.2	720.5	802.9	901.4	1031.1
80°	541.7	532.6	528.7	521.6	559.7	465.3	473.3	504.5	552.6	605.9	666.3
82.5°	424.1	424.1	440.2	443.1	485.4	334.7	353.8	380.9	406.0	434.2	462.3
85°	279.4	281.3	335.6	356.7	382.9	225.1	265.3	274.3	294.5	310.5	322.6
87.5°	87.5	94.4	205.1	227.1	220.1	127.6	162.9	166.8	180.9	192.0	201.9
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°	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5
2.5°	1914.4	1902.3	1891.3	1890.3	1882.2	1871.2	1875.2	1858.1	1859.1	1850.1	1840.0
5°	2251.1	2243.0	2202.9	2191.8	2161.6	2142.5	2139.6	2099.2	2094.3	2071.1	2046.0
7.5°	2735.3	2709.3	2653.1	2625.8	2574.6	2536.5	2518.4	2465.0	2439.0	2378.6	2351.6
10°	3242.9	3209.7	3140.4	3102.1	3053.0	2991.6	2958.5	2881.1	2851.0	2795.7	2729.4
12.5°	3713.2	3680.0	3608.8	3579.6	3514.2	3449.0	3412.8	3325.3	3286.1	3197.6	3145.4
15°	4148.4	4115.1	4052.9	4022.7	3957.5	3904.2	3856.0	3769.5	3723.3	3640.8	3572.5
17.5°	4570.3	4535.3	4480.9	4453.8	4390.6	4336.3	4283.9	4202.6	4155.4	4072.9	4011.7
20°	4962.3	4936.1	4897.0	4860.8	4797.5	4748.4	4686.0	4615.6	4547.3	4487.0	4428.7
22.5°	5304.0	5293.9	5251.8	5235.7	5181.5	5139.3	5084.9	5015.5	4966.3	4890.0	4835.7
25°	5598.4	5595.5	5575.3	5570.3	5532.1	5491.9	5479.9	5422.6	5377.3	5310.1	5253.7
27.5°	5851.6	5854.8	5849.7	5863.7	5853.6	5835.6	5836.6	5817.6	5791.5	5735.0	5685.9
30°	6133.1	6117.0	6126.0	6146.2	6152.1	6154.2	6187.3	6198.3	6196.4	6159.1	6135.1
32.5°	6530.9	6492.8	6457.6	6454.6	6474.8	6482.8	6539.0	6568.1	6593.3	6602.4	6606.3
35°	7038.5	6962.1	6888.7	6849.5	6815.4	6824.5	6864.7	6911.9	6967.2	7005.3	7050.5
37.5°	7677.6	7584.2	7454.6	7362.1	7339.0	7288.8	7314.9	7352.1	7406.3	7465.6	7544.0
40°	8452.4	8310.7	8165.1	8042.4	7976.1	7883.6	7882.6	7875.6	7908.8	7964.1	8074.5
42.5°	9198.0	9072.5	8917.7	8789.0	8702.7	8579.1	8553.9	8488.7	8503.6	8552.0	8659.4
45°	9896.4	9793.1	9698.6	9549.8	9476.5	9342.8	9300.6	9223.2	9180.0	9202.1	9309.7
47.5°	10572.8	10506.4	10408.0	10311.6	10255.3	10135.7	10081.4	10026.2	9970.8	9968.9	10081.4
50°	11891.4	11856.1	11739.5	11639.1	11666.2	11519.4	11528.5	11379.8	11447.1	11455.1	11691.4
52.5°	13130.3	13253.0	13339.4	13444.9	13513.3	13526.3	13571.6	13638.8	13720.3	13881.0	14100.2
55°	13839.8	13993.5	14083.1	14163.4	14296.0	14324.3	14399.7	14489.0	14560.4	14741.2	14927.1
57.5°	14682.9	14968.4	15107.1	15234.6	15413.6	15481.8	15607.5	15705.0	15797.5	16011.5	16236.5
60°	15202.6	15550.2	15832.5	16034.6	16258.8	16419.5	16609.4	16762.2	16979.3	17235.5	17571.1
62.5°	14789.4	15300.0	15674.9	16021.5	16326.1	16633.6	16905.8	17191.3	17520.9	17908.8	18429.4
65°	13144.4	13663.9	14306.1	14665.9	15068.9	15543.3	15957.2	16419.5	16868.7	17433.4	18203.3
67.5°	10581.9	11185.9	11907.4	12270.2	12733.5	13263.0	13727.3	14292.0	14816.6	15501.1	16452.6
70°	7627.4	8408.2	9015.2	9394.0	9934.6	10480.3	10928.6	11585.8	12020.0	12721.3	13705.3
72.5°	4829.6	5445.6	6189.3	6666.7	7147.1	7699.7	8158.0	8724.8	9129.7	9768.9	10660.2
75°	2596.7	3051.0	3704.2	4157.4	4671.9	5144.2	5680.8	6060.8	6360.2	6865.7	7589.2
77.5°	1216.9	1493.3	1824.0	2172.6	2521.4	2885.1	3238.8	3546.4	3675.1	3964.4	4391.5
80°	738.6	828.1	924.5	1032.1	1177.8	1295.4	1451.1	1563.7	1571.8	1663.1	1793.7
82.5°	493.3	526.5	555.7	582.9	620.0	649.1	682.4	721.6	737.6	758.7	800.8
85°	336.7	352.8	358.8	375.9	371.8	381.9	395.0	408.0	415.0	413.9	433.2
87.5°	207.0	215.1	219.0	223.0	220.1	216.0	222.2	229.1	231.1	225.1	227.1
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°	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5
2.5°	1842.1	1833.0	1824.0	1817.9	1816.0	1762.7	1739.5	1724.4	1692.2	1666.1	1645.1
5°	2032.0	2012.8	1997.8	1979.8	1969.7	1835.0	1785.7	1751.5	1695.3	1662.1	1632.0
7.5°	2337.5	2284.2	2253.0	2217.8	2187.7	1944.6	1863.2	1809.8	1731.6	1687.2	1653.2
10°	2684.1	2628.9	2579.7	2525.3	2478.2	2090.3	1971.7	1889.2	1785.7	1728.5	1683.2
12.5°	3071.0	3016.8	2954.4	2885.1	2824.8	2275.1	2110.4	1992.8	1851.0	1774.7	1711.5
15°	3528.4	3432.9	3357.4	3277.0	3206.7	2496.2	2272.2	2109.3	1920.3	1816.9	1732.6
17.5°	3953.4	3852.9	3750.3	3680.0	3598.6	2744.4	2434.9	2227.9	1977.7	1844.0	1736.6
20°	4368.4	4258.9	4170.4	4076.0	3990.6	3001.7	2608.8	2332.4	2014.9	1845.1	1711.5
22.5°	4734.2	4665.8	4567.4	4464.8	4378.5	3259.1	2771.6	2420.8	2028.9	1821.9	1667.2
25°	5150.3	5077.8	4957.2	4870.9	4774.4	3521.3	2931.3	2489.3	2020.8	1778.7	1598.9
27.5°	5594.5	5514.1	5390.4	5300.0	5183.4	3793.6	3078.1	2538.4	1990.7	1708.3	1507.4
30°	6057.7	5984.2	5862.8	5771.3	5653.8	4082.0	3242.0	2571.6	1930.5	1610.9	1400.8
32.5°	6555.1	6493.8	6373.2	6277.7	6152.1	4394.6	3394.7	2581.6	1839.0	1495.3	1288.3
35°	7027.4	6985.2	6883.7	6794.3	6663.6	4690.1	3556.4	2576.6	1730.5	1368.7	1185.9
37.5°	7559.1	7533.9	7483.7	7370.1	7210.3	5091.0	3750.3	2555.5	1597.8	1243.1	1107.4
40°	8125.8	8127.9	8073.5	7996.3	7847.5	5577.3	3981.5	2514.4	1453.1	1132.6	1036.0
42.5°	8725.7	8756.9	8730.7	8675.6	8532.8	6067.7	4257.8	2464.1	1312.5	1025.1	965.8
45°	9413.1	9451.3	9491.5	9410.1	9271.4	6714.9	4621.7	2398.7	1160.7	935.6	917.4
47.5°	10206.1	10266.3	10302.5	10303.5	10164.9	7516.8	5212.5	2359.6	1026.0	875.3	894.4
50°	11879.2	11898.3	11983.7	12132.5	12026.0	9372.9	6244.6	2335.5	934.5	838.1	877.4
52.5°	14290.1	14500.1	14647.9	14637.7	14493.1	10551.8	6813.5	2210.9	880.2	824.0	869.3
55°	15271.8	15534.1	15807.5	15879.9	15767.3	11557.7	7351.0	2086.3	854.2	834.0	872.3
57.5°	16580.2	17022.4	17397.3	17555.0	17392.3	12845.0	8058.4	2020.8	846.2	861.2	891.4
60°	18108.8	18655.5	19147.8	19431.2	19431.2	14324.3	8792.2	1993.8	835.2	901.4	923.5
62.5°	19090.6	19893.5	20637.1	21052.1	21040.1	15354.3	9117.6	1901.4	810.0	929.6	967.7
65°	19094.6	20049.4	20997.0	21463.3	21487.3	15227.7	8580.0	1679.2	763.7	933.6	1012.0
67.5°	17502.8	18520.7	19625.2	20146.7	20267.4	14017.7	7427.4	1380.8	688.5	893.4	1028.0
70°	14782.5	15776.4	16903.9	17416.3	17630.5	11949.6	5982.4	1064.2	592.0	804.9	994.9
72.5°	11646.0	12620.8	13405.8	13780.5	13947.4	9133.7	4356.3	804.0	485.4	678.3	905.4
75°	8245.5	8977.0	9394.0	9477.5	9503.6	5506.0	2646.9	597.9	399.9	527.6	764.7
77.5°	4653.8	4967.4	4933.2	4970.3	4660.9	2125.4	1152.6	428.1	329.6	401.0	592.9
80°	1816.9	1873.1	1759.6	1724.4	1581.7	790.9	508.5	298.4	263.4	303.4	415.0
82.5°	800.8	827.1	802.9	809.0	773.8	408.0	304.4	216.0	201.0	222.2	275.3
85°	441.2	449.2	447.1	460.2	441.2	162.9	144.6	132.7	140.7	150.7	176.8
87.5°	215.1	217.1	210.1	221.2	214.1	82.5	71.3	75.4	82.5	84.4	84.4
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):

	135°	145°	155°	165°	175°	180°
0°	1725.5	1725.5	1725.5	1725.5	1725.5	1725.5
2.5°	1630.0	1622.0	1623.0	1620.9	1616.9	1616.9
5°	1616.0	1607.8	1607.8	1605.9	1600.9	1601.9
7.5°	1630.0	1616.9	1611.9	1604.8	1597.8	1597.8
10°	1646.1	1623.0	1608.9	1596.8	1587.8	1587.8
12.5°	1658.1	1622.0	1598.9	1582.8	1573.7	1573.7
15°	1662.1	1615.0	1582.8	1563.7	1555.7	1554.6
17.5°	1649.1	1587.8	1548.6	1526.5	1516.3	1513.5
20°	1608.9	1538.5	1491.2	1466.3	1452.1	1447.1
22.5°	1548.6	1468.2	1412.9	1386.9	1368.7	1365.8
25°	1464.1	1377.7	1323.6	1298.4	1288.3	1285.4
27.5°	1365.8	1285.4	1239.1	1223.0	1214.0	1212.9
30°	1272.2	1203.9	1169.8	1157.6	1146.6	1144.6
32.5°	1184.9	1141.6	1128.5	1111.5	1085.3	1082.3
35°	1122.5	1118.5	1109.4	1071.3	1039.1	1030.0
37.5°	1084.3	1121.5	1075.4	1000.0	976.7	974.8
40°	1062.2	1090.4	1011.0	984.8	986.9	984.8
42.5°	1012.0	1041.0	1013.0	1000.9	1008.9	1011.0
45°	961.7	993.9	1028.0	1019.9	1039.1	1039.1
47.5°	933.6	981.8	1027.0	1027.0	1055.1	1065.2
50°	901.4	971.7	1011.0	1025.1	1047.2	1039.1
52.5°	899.5	954.7	987.9	1013.0	1023.0	1013.9
55°	902.4	940.6	964.7	992.8	1004.9	1005.9
57.5°	906.4	932.6	948.6	961.7	997.8	997.8
60°	916.5	925.6	934.5	941.7	988.9	989.8
62.5°	932.6	918.4	916.5	923.5	983.9	979.8
65°	957.8	908.5	893.4	900.5	978.9	966.8
67.5°	991.9	893.4	864.2	869.3	974.8	948.6
70°	1023.0	869.3	828.1	823.0	936.7	890.4
72.5°	1026.0	841.2	777.8	762.8	814.0	769.8
75°	975.7	821.9	722.5	678.3	672.3	666.3
77.5°	879.4	811.0	658.2	588.8	576.8	580.8
80°	735.6	769.8	580.8	498.4	563.7	556.7
82.5°	549.8	679.3	493.3	441.2	440.2	388.8
85°	305.6	529.6	402.0	330.7	230.1	223.0
87.5°	85.3	294.5	281.3	186.8	127.6	132.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)