

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: P269261

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269261
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-04-LED-E1-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21733 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

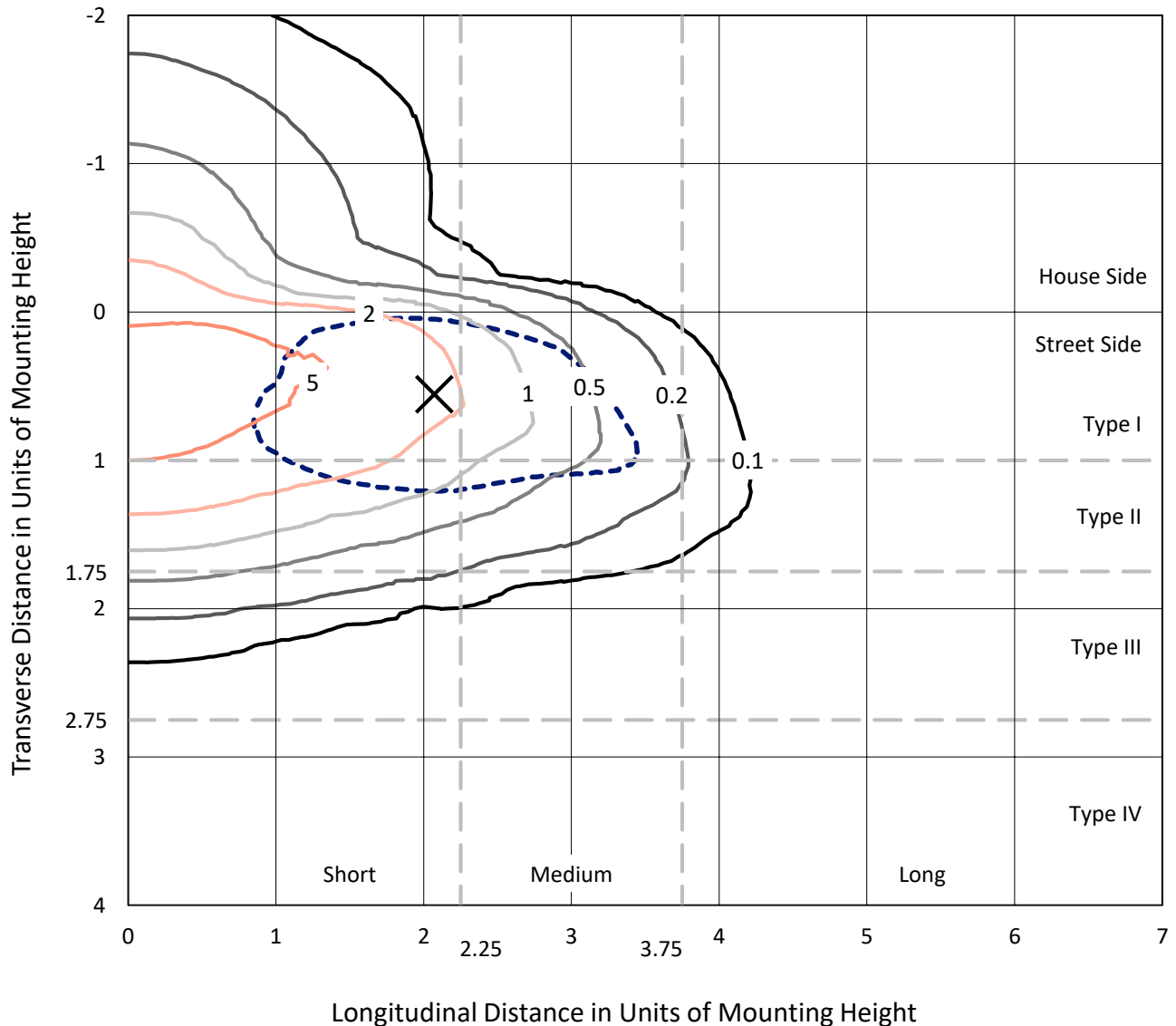
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

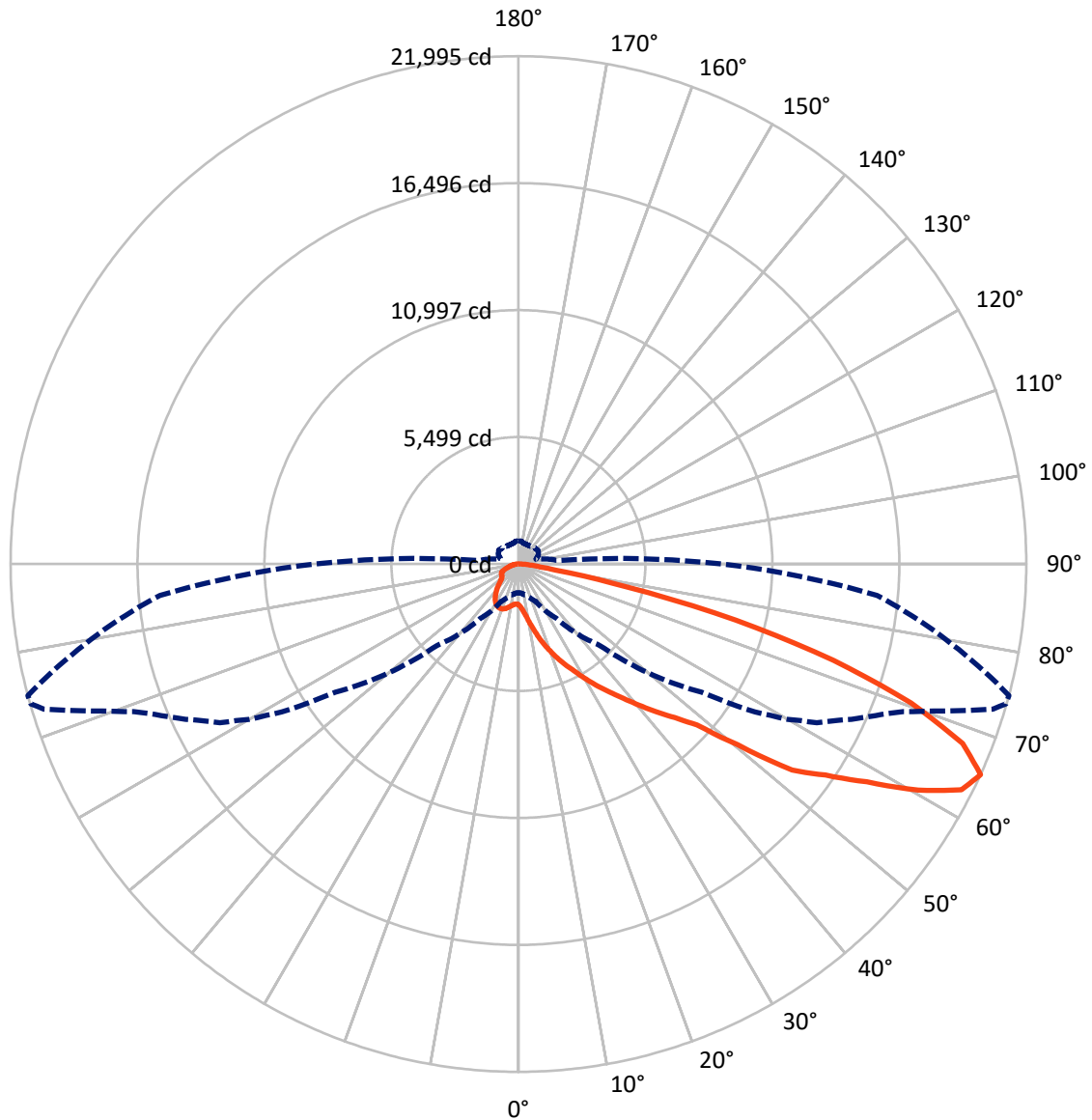
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3350.7	0.0	3350.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18382.2	0.0	18382.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	21733.0	0.0	21733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.0
10°-20°	853.0	3.9
20°-30°	1750.1	8.1
30°-40°	2944.4	13.5
40°-50°	4068.3	18.7
50°-60°	5078.5	23.4
60°-70°	4570.1	21.0
70°-80°	1915.7	8.8
80°-90°	334.7	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°	21733.0	100.0
0°-180°	21733.0	100.0

Coefficient of Utilization



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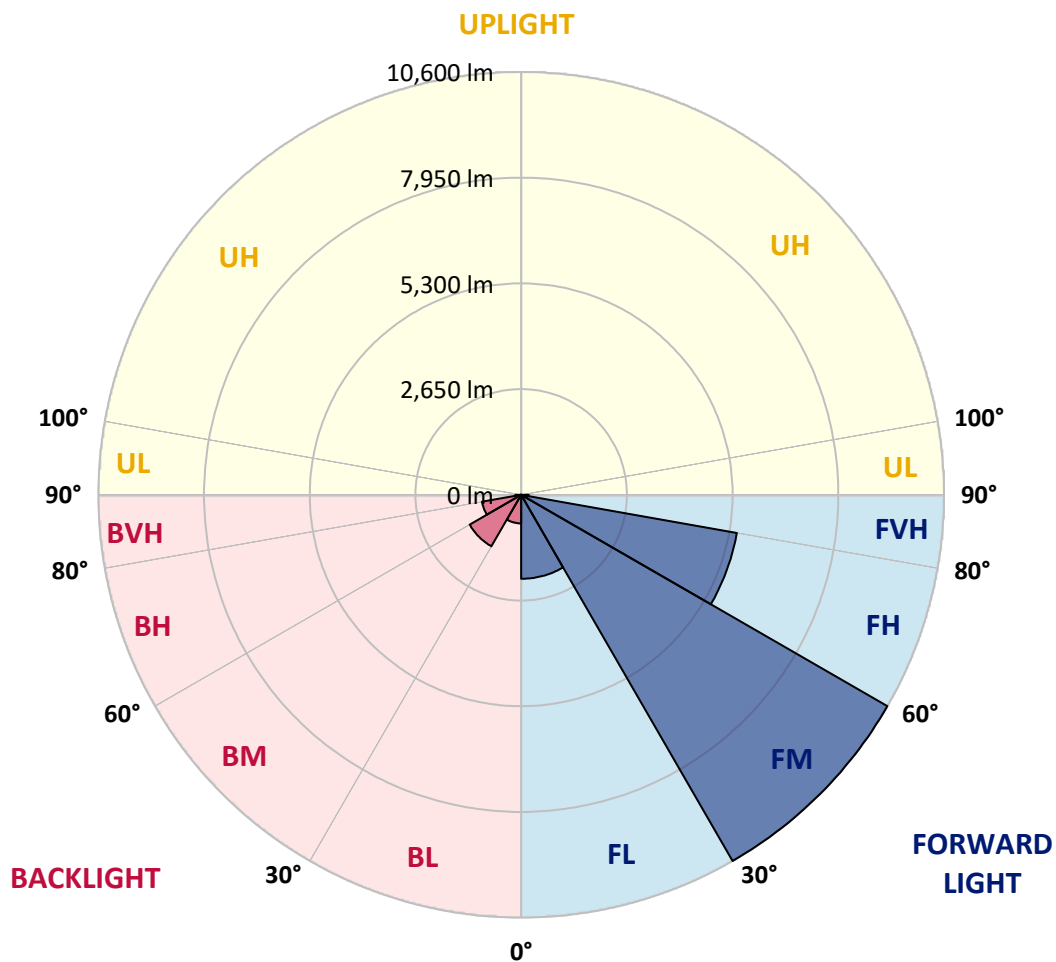
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2104.8	9.7			
FM	(30°-60°)	10599.7	48.8			
FH	(60°-80°)	5489.7	25.3			G3/7500
FVH	(80°-90°)	188.1	0.9			G2/225
BL	(0°-30°)	716.6	3.3	B2/1000		
BM	(30°-60°)	1491.4	6.9	B2/2500		
BH	(60°-80°)	996.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	146.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2
2.5°	2242.4	2217.7	2223.9	2182.8	2132.4	2066.6	1993.6	1992.5	1993.6	1986.3	1959.7
5°	3109.7	3079.7	3068.5	2975.9	2840.1	2646.8	2436.9	2414.3	2405.0	2381.3	2326.8
7.5°	3742.2	3725.8	3708.4	3638.3	3515.0	3298.9	3017.0	2968.7	2922.5	2911.0	2849.5
10°	4150.7	4146.5	4109.6	4091.1	4013.8	3826.6	3552.0	3505.6	3455.3	3437.9	3373.0
12.5°	4473.6	4472.7	4455.1	4460.3	4393.4	4257.6	4021.1	3978.9	3941.9	3888.4	3842.1
15°	4696.9	4698.0	4723.6	4752.5	4742.2	4650.5	4428.5	4409.9	4378.0	4341.0	4286.4
17.5°	4880.0	4885.2	4911.9	4964.4	5020.8	5013.7	4837.8	4822.5	4794.7	4744.2	4715.5
20°	5293.5	5313.0	5261.6	5261.6	5267.8	5295.6	5211.2	5198.9	5159.8	5133.1	5110.4
22.5°	5992.0	6014.6	5898.5	5780.1	5663.9	5579.6	5495.1	5510.6	5483.9	5465.3	5452.0
25°	6899.3	6916.7	6728.5	6528.9	6292.4	5983.7	5774.9	5765.7	5751.3	5740.0	5733.8
27.5°	7753.0	7760.3	7582.4	7290.1	7015.6	6572.1	6058.9	6047.5	6030.1	6008.5	5989.9
30°	8483.5	8481.3	8298.3	8019.4	7725.2	7234.6	6489.9	6455.0	6403.5	6344.8	6299.5
32.5°	9116.0	9112.9	8912.4	8623.3	8314.7	7890.9	7080.4	7008.2	6928.1	6813.9	6745.0
35°	9613.9	9611.9	9422.6	9121.2	8767.3	8509.1	7757.1	7668.7	7566.9	7413.6	7307.6
37.5°	9802.1	9802.1	9696.1	9490.5	9177.8	9000.7	8509.1	8402.1	8293.2	8119.2	7999.9
40°	9692.1	9694.1	9716.7	9678.7	9526.4	9390.7	9210.7	9146.9	9053.3	8897.0	8772.5
42.5°	9322.8	9334.1	9484.2	9668.4	9744.5	9723.0	9832.9	9804.2	9738.3	9618.1	9519.2
45°	8854.8	8889.7	9054.2	9402.0	9805.2	10010.0	10354.6	10357.6	10345.3	10280.5	10204.3
47.5°	8211.9	8261.3	8478.3	8948.3	9663.2	10288.6	10884.4	10912.2	10937.9	10895.6	10860.7
50°	7358.0	7416.6	7741.8	8365.0	9374.3	10577.7	11885.1	12010.7	12127.9	12113.6	12137.2
52.5°	6443.5	6512.5	6910.7	7605.0	8877.4	10644.6	12525.0	12729.7	12934.4	13102.0	13280.1
55°	5618.5	5581.4	5979.7	6711.0	8060.6	10343.3	13100.1	13346.9	13575.2	13781.0	13992.9
57.5°	4500.4	4561.1	4960.3	5683.3	6979.6	9492.5	13496.0	13857.2	14185.2	14525.8	14826.2
60°	3289.7	3350.4	3783.4	4517.8	5805.7	8202.6	13193.6	13741.0	14266.5	14788.1	15195.4
62.5°	1986.3	2031.5	2413.2	3112.7	4476.8	6673.0	11846.0	12564.1	13337.7	13961.1	14585.4
65°	1236.4	1262.2	1403.2	1787.8	2875.1	4981.8	9678.7	10461.5	11294.7	12085.7	12734.9
67.5°	1012.2	1021.5	1047.2	1129.4	1579.0	3248.5	7203.8	7897.1	8649.1	9414.3	10136.5
70°	910.3	904.2	904.2	909.4	1012.2	1746.7	4716.5	5167.9	5794.4	6460.0	7120.4
72.5°	821.9	815.8	804.4	789.0	826.0	1065.7	2437.9	2778.4	3230.0	3821.5	4454.2
75°	738.5	730.3	716.9	697.4	723.1	804.4	1170.6	1313.6	1533.8	1848.5	2201.3
77.5°	652.2	641.8	629.5	615.1	648.0	625.4	686.1	737.6	821.9	922.6	1055.4
80°	554.4	545.2	541.0	534.0	572.9	476.3	484.5	516.3	565.8	620.3	682.1
82.5°	434.2	434.2	450.6	453.6	496.9	342.6	362.0	389.9	415.6	444.4	473.1
85°	286.0	288.0	343.6	365.3	391.9	230.4	271.6	280.8	301.4	317.9	330.1
87.5°	89.6	96.7	209.8	232.5	225.2	130.7	166.6	170.8	185.2	196.5	206.8
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°	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2
2.5°	1959.7	1947.3	1935.9	1934.9	1926.7	1915.4	1919.5	1902.0	1903.0	1893.7	1883.4
5°	2304.2	2296.0	2254.8	2243.4	2212.6	2193.1	2190.0	2148.8	2143.7	2120.1	2094.4
7.5°	2800.0	2773.2	2715.7	2687.9	2635.4	2596.3	2577.9	2523.2	2496.6	2434.9	2407.1
10°	3319.4	3285.6	3214.6	3175.5	3125.1	3062.3	3028.4	2949.1	2918.4	2861.7	2793.9
12.5°	3800.9	3767.0	3693.9	3664.0	3597.3	3530.3	3493.4	3403.9	3363.8	3273.2	3219.7
15°	4246.3	4212.4	4148.6	4117.7	4050.8	3996.4	3947.1	3858.5	3811.1	3726.9	3656.9
17.5°	4678.4	4642.4	4586.8	4559.1	4494.2	4438.6	4385.2	4301.9	4253.6	4169.2	4106.4
20°	5079.6	5052.7	5012.7	4975.6	4910.9	4860.4	4796.7	4724.6	4654.7	4592.9	4533.3
22.5°	5429.3	5419.0	5375.7	5359.4	5303.9	5260.6	5205.0	5134.1	5083.7	5005.4	4949.9
25°	5730.6	5727.7	5707.0	5701.9	5662.7	5621.7	5609.2	5550.6	5504.4	5435.5	5377.9
27.5°	5989.9	5993.0	5987.8	6002.2	5992.0	5973.5	5974.4	5955.0	5928.2	5870.7	5820.2
30°	6278.0	6261.5	6270.8	6291.3	6297.5	6299.5	6333.5	6344.8	6342.8	6304.7	6280.1
32.5°	6685.2	6646.2	6610.2	6607.2	6627.6	6635.9	6693.5	6723.4	6749.1	6758.3	6762.4
35°	7204.8	7126.7	7051.4	7011.5	6976.3	6985.7	7026.8	7075.1	7131.7	7170.8	7217.2
37.5°	7859.0	7763.3	7630.7	7536.1	7512.3	7461.0	7487.6	7525.7	7581.2	7641.9	7722.2
40°	8652.0	8507.0	8357.9	8232.3	8164.5	8069.8	8068.8	8061.7	8095.5	8152.2	8265.3
42.5°	9415.3	9286.8	9128.3	8996.7	8908.2	8781.7	8756.0	8689.1	8704.5	8754.0	8863.9
45°	10130.2	10024.4	9927.7	9775.4	9700.3	9563.4	9520.2	9441.0	9396.9	9419.4	9529.6
47.5°	10822.6	10754.7	10653.9	10555.2	10497.6	10375.2	10319.5	10263.0	10206.5	10204.3	10319.5
50°	12172.3	12136.2	12016.8	11914.0	11941.8	11791.6	11800.9	11648.6	11717.5	11725.8	11967.5
52.5°	13440.5	13566.1	13654.4	13762.6	13832.5	13845.8	13892.1	13961.1	14044.3	14208.9	14433.2
55°	14166.8	14324.2	14415.7	14497.9	14633.7	14662.6	14739.7	14831.2	14904.3	15089.5	15279.8
57.5°	15029.8	15322.0	15464.0	15594.5	15777.7	15847.5	15976.1	16076.0	16170.6	16389.8	16620.1
60°	15561.7	15917.5	16206.6	16413.4	16642.8	16807.4	17001.9	17158.2	17380.3	17642.6	17986.3
62.5°	15138.9	15661.4	16045.2	16399.9	16711.7	17026.5	17305.2	17597.3	17934.8	18331.8	18864.6
65°	13455.0	13986.8	14644.1	15012.4	15424.8	15910.4	16334.2	16807.4	17267.2	17845.3	18633.3
67.5°	10831.9	11450.1	12188.7	12560.0	13034.1	13576.4	14051.6	14629.6	15166.7	15867.1	16841.3
70°	7807.6	8606.8	9228.2	9615.9	10169.4	10728.0	11186.8	11859.5	12303.8	13021.9	14028.9
72.5°	4943.7	5574.3	6335.6	6824.2	7315.8	7881.5	8350.7	8930.9	9345.3	9999.7	10912.2
75°	2658.1	3123.0	3791.7	4255.6	4782.2	5265.8	5815.1	6203.9	6510.5	7027.8	7768.5
77.5°	1245.7	1528.6	1867.0	2223.9	2580.9	2953.3	3315.4	3630.2	3761.8	4058.2	4495.3
80°	756.1	847.6	946.4	1056.4	1205.5	1326.0	1485.3	1600.6	1608.9	1702.5	1836.1
82.5°	505.0	539.1	568.8	596.7	634.7	664.6	698.4	738.5	755.0	776.7	819.9
85°	344.6	361.1	367.2	384.7	380.6	390.9	404.2	417.6	424.9	423.8	443.4
87.5°	211.9	220.2	224.2	228.3	225.2	221.2	227.4	234.5	236.7	230.4	232.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2
2.5°	1885.5	1876.3	1867.0	1860.8	1858.9	1804.2	1780.6	1765.2	1732.3	1705.5	1684.0
5°	2079.9	2060.4	2045.0	2026.4	2016.2	1878.4	1828.0	1792.9	1735.3	1701.4	1670.6
7.5°	2392.6	2338.2	2306.3	2270.2	2239.5	1990.5	1907.1	1852.7	1772.4	1727.1	1692.1
10°	2747.6	2691.1	2640.6	2585.1	2536.6	2139.7	2018.2	1934.0	1828.0	1769.3	1722.9
12.5°	3143.6	3088.1	3024.2	2953.3	2891.6	2328.9	2160.2	2039.8	1894.9	1816.6	1751.9
15°	3611.6	3513.9	3436.7	3354.5	3282.4	2555.1	2325.8	2159.2	1965.9	1859.9	1773.4
17.5°	4046.8	3943.9	3838.9	3767.0	3683.7	2809.3	2492.4	2280.5	2024.4	1887.6	1777.6
20°	4471.7	4359.5	4268.9	4172.3	4084.9	3072.7	2670.4	2387.5	2062.5	1888.6	1751.9
22.5°	4846.0	4776.1	4675.3	4570.3	4482.0	3335.9	2837.0	2478.1	2076.9	1865.1	1706.6
25°	5272.0	5197.9	5074.3	4986.0	4887.1	3604.4	3000.6	2548.0	2068.6	1820.8	1636.6
27.5°	5726.5	5644.3	5517.7	5425.1	5305.8	3883.3	3150.7	2598.3	2037.7	1748.7	1543.0
30°	6200.8	6125.7	6001.2	5907.7	5787.3	4178.5	3318.5	2632.4	1976.0	1649.0	1434.0
32.5°	6710.0	6647.3	6523.9	6426.0	6297.5	4498.4	3474.9	2642.6	1882.5	1530.6	1318.7
35°	7193.4	7150.2	7046.3	6954.8	6821.1	4800.8	3640.4	2637.6	1771.4	1401.0	1213.8
37.5°	7737.6	7711.9	7660.4	7544.2	7380.7	5211.2	3838.9	2616.0	1635.5	1272.4	1133.7
40°	8317.8	8319.8	8264.2	8185.0	8032.9	5709.1	4075.6	2573.7	1487.5	1159.4	1060.5
42.5°	8931.8	8963.7	8937.1	8880.5	8734.4	6211.2	4358.4	2522.4	1343.4	1049.2	988.6
45°	9635.5	9674.6	9715.8	9632.4	9490.5	6873.6	4730.8	2455.4	1188.1	957.8	939.2
47.5°	10447.1	10508.8	10545.9	10546.9	10405.0	7694.4	5335.8	2415.4	1050.3	896.0	915.6
50°	12159.8	12179.4	12266.9	12419.1	12310.1	9594.3	6392.1	2390.6	956.7	857.9	898.0
52.5°	14627.6	14842.6	14993.8	14983.5	14835.4	10801.0	6974.4	2263.1	901.1	843.5	889.9
55°	15632.7	15901.1	16180.9	16255.0	16139.8	11830.7	7524.7	2135.5	874.4	853.7	892.8
57.5°	16971.9	17424.6	17808.2	17969.8	17803.1	13148.4	8248.9	2068.6	866.1	881.5	912.4
60°	18536.5	19096.1	19600.2	19890.4	19890.4	14662.6	8999.8	2040.9	854.7	922.6	945.3
62.5°	19541.5	20363.5	21124.6	21549.5	21537.1	15716.9	9333.1	1946.3	829.0	951.6	990.7
65°	19545.6	20522.9	21492.8	21970.2	21994.9	15587.4	8782.8	1718.8	781.7	955.6	1035.8
67.5°	17916.2	18958.3	20088.7	20622.7	20746.0	14348.8	7602.9	1413.5	704.6	914.5	1052.4
70°	15131.7	16149.0	17303.2	17827.9	18046.9	12231.9	6123.7	1089.4	605.8	823.9	1018.4
72.5°	11921.1	12919.1	13722.4	14106.1	14276.9	9349.5	4459.2	822.9	496.9	694.3	926.8
75°	8440.1	9189.0	9615.9	9701.3	9728.0	5636.1	2709.5	612.0	409.4	540.1	782.9
77.5°	4763.7	5084.6	5049.7	5087.8	4771.0	2175.7	1179.8	438.3	337.5	410.4	607.0
80°	1859.9	1917.4	1801.2	1765.2	1619.1	809.6	520.5	305.6	269.5	310.6	424.9
82.5°	819.9	846.7	821.9	828.1	792.0	417.6	311.7	221.2	205.7	227.4	281.9
85°	451.6	459.8	457.7	471.2	451.6	166.6	148.1	135.7	144.0	154.2	181.1
87.5°	220.2	222.2	215.0	226.4	219.0	84.4	73.0	77.2	84.4	86.3	86.3
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°	1766.2	1766.2	1766.2	1766.2	1766.2	1766.2
2.5°	1668.5	1660.2	1661.2	1659.2	1655.1	1655.1
5°	1654.0	1645.9	1645.9	1643.8	1638.7	1639.6
7.5°	1668.5	1655.1	1649.9	1642.8	1635.5	1635.5
10°	1685.0	1661.2	1647.0	1634.6	1625.4	1625.4
12.5°	1697.3	1660.2	1636.6	1620.2	1610.9	1610.9
15°	1701.4	1653.2	1620.2	1600.6	1592.3	1591.3
17.5°	1688.1	1625.4	1585.1	1562.5	1552.2	1549.1
20°	1647.0	1574.9	1526.5	1500.8	1486.4	1481.2
22.5°	1585.1	1502.9	1446.4	1419.5	1401.0	1397.9
25°	1498.7	1410.2	1354.7	1329.0	1318.7	1315.7
27.5°	1397.9	1315.7	1268.3	1251.9	1242.6	1241.5
30°	1302.4	1232.4	1197.4	1185.0	1173.7	1171.7
32.5°	1212.8	1168.5	1155.2	1137.8	1110.9	1107.9
35°	1149.0	1144.9	1135.6	1096.6	1063.7	1054.4
37.5°	1109.9	1148.0	1100.7	1023.4	999.9	997.7
40°	1087.3	1116.1	1034.8	1008.1	1010.1	1008.1
42.5°	1035.8	1065.7	1037.0	1024.5	1032.8	1034.8
45°	984.5	1017.3	1052.4	1044.1	1063.7	1063.7
47.5°	955.6	1005.1	1051.2	1051.2	1080.1	1090.5
50°	922.6	994.8	1034.8	1049.2	1071.9	1063.7
52.5°	920.7	977.3	1011.2	1037.0	1047.2	1037.9
55°	923.7	962.9	987.5	1016.3	1028.6	1029.6
57.5°	927.9	954.5	971.1	984.5	1021.5	1021.5
60°	938.1	947.4	956.7	963.8	1012.2	1013.3
62.5°	954.5	940.2	938.1	945.3	1007.1	1003.0
65°	980.3	929.9	914.5	921.8	1001.9	989.6
67.5°	1015.3	914.5	884.7	889.9	997.7	971.1
70°	1047.2	889.9	847.6	842.5	958.8	911.4
72.5°	1050.3	860.9	796.2	780.7	833.2	788.0
75°	998.8	841.4	739.7	694.3	688.2	682.1
77.5°	900.1	830.2	673.8	602.9	590.5	594.6
80°	753.0	788.0	594.6	510.1	577.2	569.9
82.5°	562.7	695.4	505.0	451.6	450.6	398.0
85°	312.7	542.0	411.5	338.4	235.5	228.3
87.5°	87.5	301.4	288.0	191.2	130.7	135.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)