

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: P193931

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193931
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-03-LED-E1-T2R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 10179 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

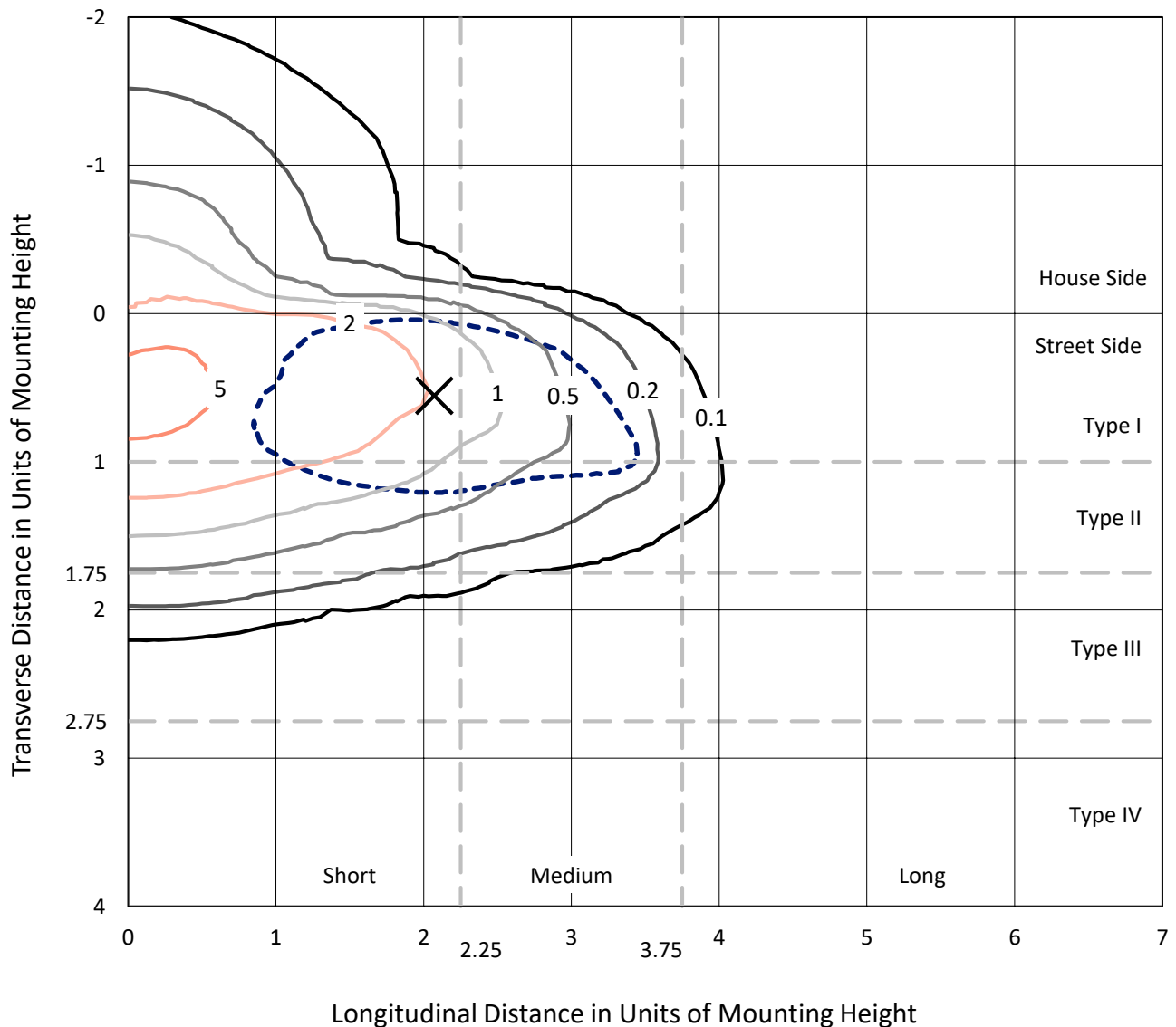


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

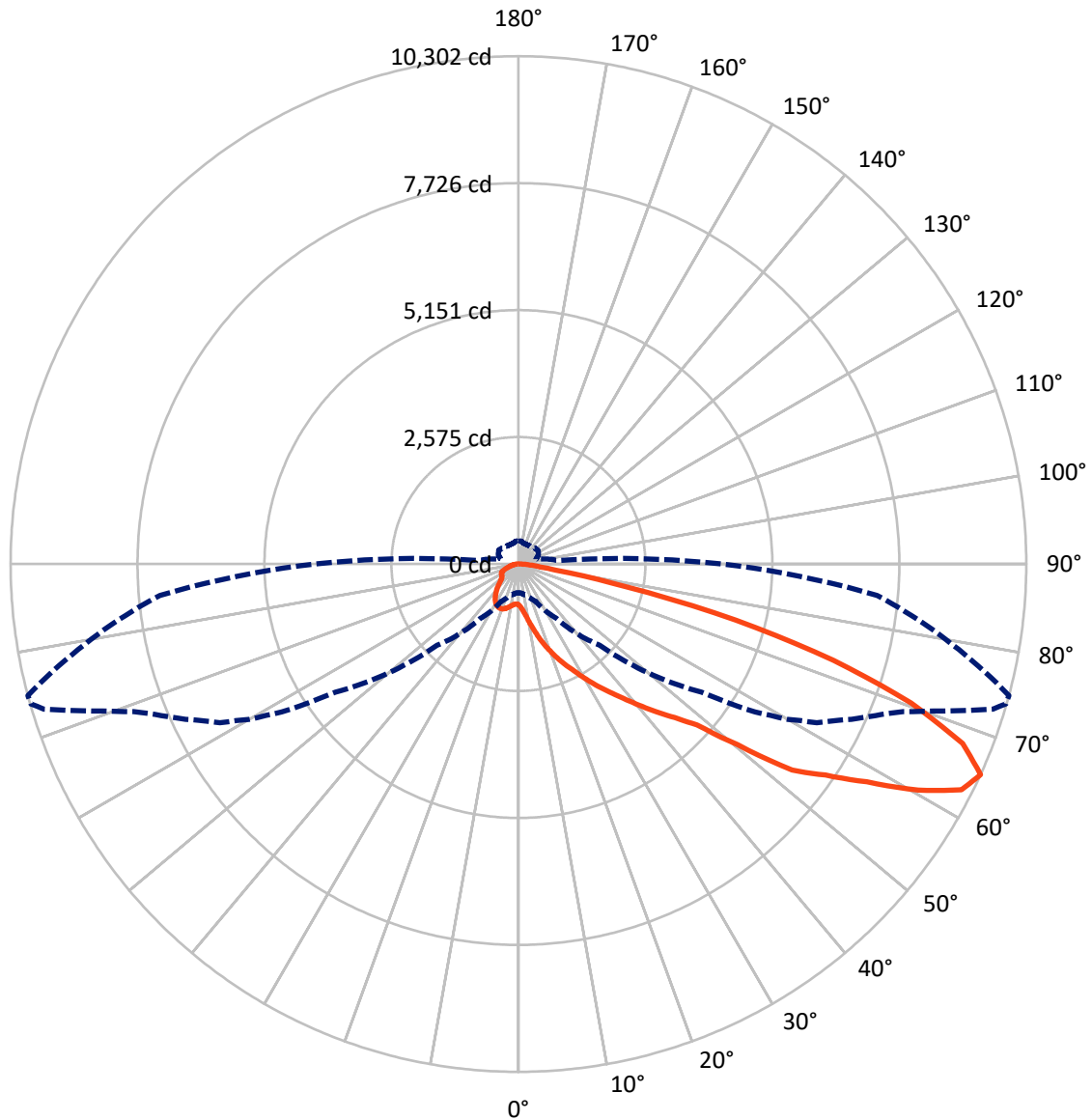


Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Full Cutoff

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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	1569.4	0.0	1569.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8609.6	0.0	8609.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	10179.0	0.0	10179.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.0
10°-20°	399.5	3.9
20°-30°	819.7	8.1
30°-40°	1379.0	13.5
40°-50°	1905.5	18.7
50°-60°	2378.6	23.4
60°-70°	2140.5	21.0
70°-80°	897.3	8.8
80°-90°	156.8	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°	10179.0	100.0
0°-180°	10179.0	100.0



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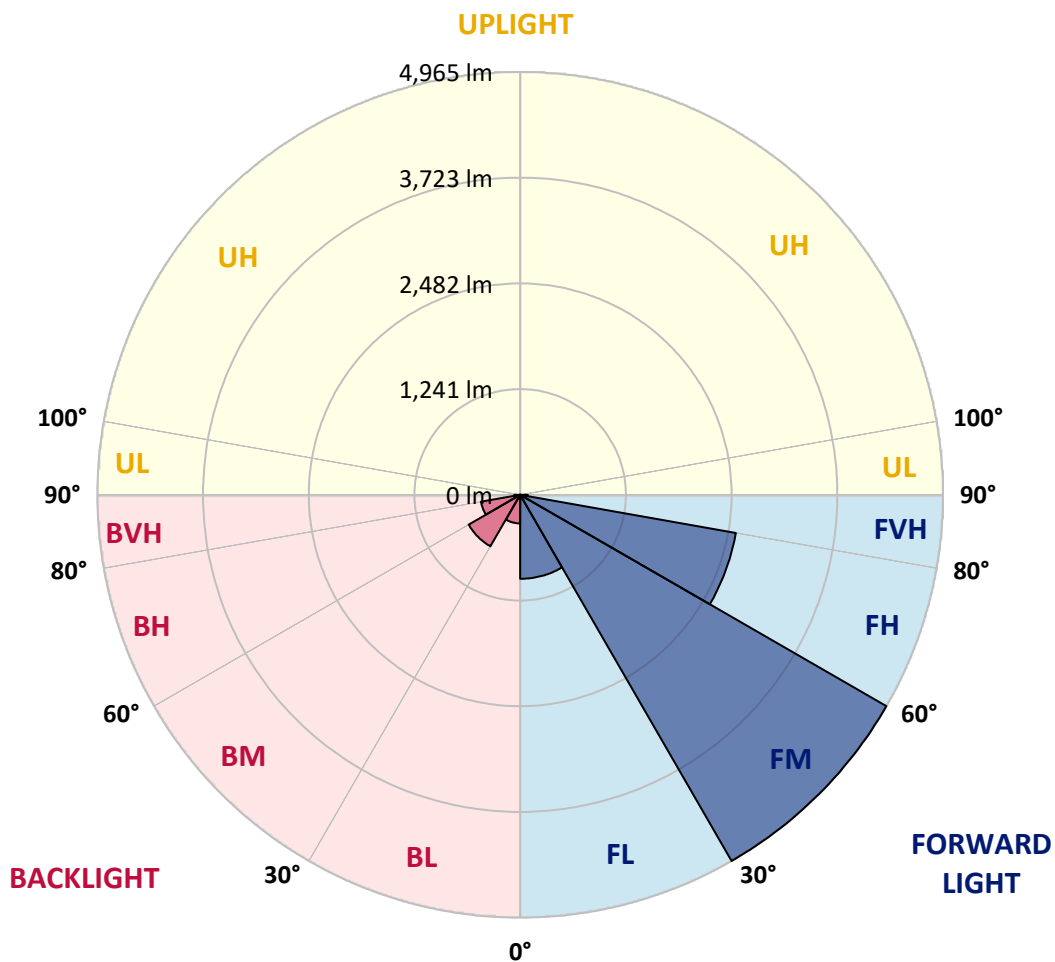
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.8	9.7			
FM (30°-60°)	4964.5	48.8			
FH (60°-80°)	2571.2	25.3			G2/5000
FVH (80°-90°)	88.1	0.9			G1/100
BL (0°-30°)	335.6	3.3	B1/500		
BM (30°-60°)	698.5	6.9	B1/1000		
BH (60°-80°)	466.6	4.6	B1/500		G1/500
BVH (80°-90°)	68.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	1050.3	1038.7	1041.6	1022.4	998.8	967.9	933.7	933.2	933.7	930.3	917.8
5°	1456.5	1442.5	1437.2	1393.8	1330.2	1239.7	1141.4	1130.8	1126.4	1115.4	1089.8
7.5°	1752.8	1745.1	1736.9	1704.1	1646.3	1545.1	1413.1	1390.5	1368.8	1363.5	1334.6
10°	1944.0	1942.1	1924.8	1916.1	1880.0	1792.3	1663.6	1642.0	1618.3	1610.2	1579.8
12.5°	2095.3	2094.8	2086.6	2089.1	2057.7	1994.1	1883.3	1863.6	1846.2	1821.2	1799.5
15°	2199.9	2200.3	2212.4	2225.9	2221.1	2178.2	2074.1	2065.4	2050.5	2033.2	2007.6
17.5°	2285.6	2288.0	2300.6	2325.1	2351.6	2348.3	2265.9	2258.6	2245.6	2222.0	2208.5
20°	2479.3	2488.5	2464.4	2464.4	2467.3	2480.3	2440.8	2435.0	2416.7	2404.1	2393.5
22.5°	2806.4	2817.0	2762.6	2707.2	2652.8	2613.2	2573.7	2581.0	2568.4	2559.8	2553.5
25°	3231.4	3239.6	3151.4	3057.9	2947.1	2802.6	2704.8	2700.4	2693.7	2688.4	2685.5
27.5°	3631.3	3634.6	3551.3	3414.5	3285.8	3078.2	2837.8	2832.5	2824.3	2814.2	2805.5
30°	3973.3	3972.4	3886.6	3756.1	3618.3	3388.4	3039.6	3023.3	2999.2	2971.7	2950.5
32.5°	4269.6	4268.2	4174.3	4038.9	3894.3	3695.8	3316.2	3282.5	3244.9	3191.4	3159.1
35°	4502.8	4501.9	4413.2	4272.1	4106.3	3985.4	3633.2	3591.8	3544.1	3472.3	3422.7
37.5°	4591.0	4591.0	4541.4	4445.0	4298.6	4215.7	3985.4	3935.3	3884.2	3802.8	3746.9
40°	4539.5	4540.4	4551.0	4533.2	4461.9	4398.3	4314.0	4284.1	4240.3	4167.0	4108.7
42.5°	4366.5	4371.8	4442.1	4528.4	4564.0	4553.9	4605.5	4592.0	4561.1	4504.8	4458.5
45°	4147.3	4163.7	4240.7	4403.6	4592.5	4688.3	4849.7	4851.2	4845.4	4815.0	4779.4
47.5°	3846.2	3869.3	3970.9	4191.1	4526.0	4818.9	5097.9	5110.9	5122.9	5103.2	5086.8
50°	3446.3	3473.7	3626.0	3917.9	4390.6	4954.3	5566.6	5625.4	5680.3	5673.6	5684.7
52.5°	3018.0	3050.2	3236.7	3561.9	4157.9	4985.6	5866.3	5962.2	6058.1	6136.6	6219.9
55°	2631.6	2614.2	2800.7	3143.2	3775.3	4844.4	6135.6	6251.3	6358.2	6454.6	6553.8
57.5°	2107.8	2136.3	2323.2	2661.9	3269.0	4446.0	6321.1	6490.2	6643.9	6803.4	6944.1
60°	1540.8	1569.2	1772.0	2116.0	2719.2	3841.8	6179.5	6435.8	6682.0	6926.3	7117.0
62.5°	930.3	951.5	1130.3	1457.9	2096.8	3125.4	5548.3	5884.6	6246.9	6538.9	6831.3
65°	579.1	591.2	657.2	837.4	1346.6	2333.3	4533.2	4899.8	5290.1	5660.6	5964.6
67.5°	474.1	478.4	490.5	529.0	739.6	1521.5	3374.0	3698.7	4050.9	4409.4	4747.6
70°	426.4	423.5	423.5	425.9	474.1	818.1	2209.0	2420.5	2713.9	3025.7	3335.0
72.5°	385.0	382.1	376.8	369.5	386.9	499.1	1141.8	1301.3	1512.8	1789.9	2086.2
75°	345.9	342.1	335.8	326.7	338.7	376.8	548.3	615.2	718.4	865.8	1031.0
77.5°	305.5	300.6	294.9	288.1	303.5	292.9	321.4	345.4	385.0	432.2	494.3
80°	259.7	255.4	253.4	250.1	268.4	223.1	226.9	241.9	265.0	290.5	319.4
82.5°	203.3	203.3	211.0	212.5	232.7	160.4	169.6	182.6	194.6	208.1	221.6
85°	133.9	134.9	160.9	171.0	183.6	107.9	127.2	131.5	141.2	148.9	154.7
87.5°	41.9	45.3	98.3	108.9	105.5	61.2	78.1	80.0	86.7	92.0	96.8
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°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	917.8	912.0	906.7	906.3	902.4	897.1	899.0	890.8	891.3	887.0	882.2
5°	1079.2	1075.4	1056.1	1050.8	1036.3	1027.2	1025.7	1006.5	1004.1	993.0	980.9
7.5°	1311.4	1298.9	1271.9	1258.9	1234.4	1216.0	1207.4	1181.8	1169.3	1140.4	1127.4
10°	1554.7	1538.8	1505.6	1487.3	1463.7	1434.3	1418.4	1381.3	1366.8	1340.3	1308.5
12.5°	1780.2	1764.3	1730.1	1716.1	1684.8	1653.5	1636.2	1594.3	1575.5	1533.1	1508.0
15°	1988.8	1972.9	1943.1	1928.6	1897.3	1871.8	1848.6	1807.2	1785.0	1745.5	1712.8
17.5°	2191.2	2174.3	2148.3	2135.3	2105.0	2078.9	2053.9	2014.9	1992.2	1952.7	1923.3
20°	2379.1	2366.6	2347.8	2330.4	2300.1	2276.5	2246.6	2212.9	2180.1	2151.2	2123.3
22.5°	2542.9	2538.1	2517.8	2510.1	2484.1	2463.9	2437.9	2404.6	2381.0	2344.4	2318.4
25°	2684.1	2682.6	2673.0	2670.6	2652.3	2633.0	2627.2	2599.8	2578.1	2545.8	2518.8
27.5°	2805.5	2806.9	2804.5	2811.3	2806.4	2797.8	2798.3	2789.1	2776.6	2749.6	2726.0
30°	2940.4	2932.7	2937.0	2946.6	2949.5	2950.5	2966.4	2971.7	2970.7	2952.9	2941.3
32.5°	3131.2	3112.9	3096.0	3094.6	3104.2	3108.0	3135.0	3149.0	3161.0	3165.4	3167.3
35°	3374.5	3337.9	3302.7	3283.9	3267.5	3271.9	3291.1	3313.8	3340.3	3358.6	3380.3
37.5°	3680.9	3636.1	3573.9	3529.6	3518.5	3494.4	3507.0	3524.8	3550.8	3579.2	3616.8
40°	4052.4	3984.4	3914.6	3855.8	3824.0	3779.7	3779.2	3775.8	3791.7	3818.2	3871.2
42.5°	4409.9	4349.6	4275.4	4213.8	4172.3	4113.1	4101.0	4069.7	4076.9	4100.1	4151.6
45°	4744.7	4695.1	4649.8	4578.5	4543.3	4479.2	4459.0	4421.9	4401.2	4411.8	4463.3
47.5°	5068.9	5037.1	4989.9	4943.7	4916.7	4859.4	4833.3	4806.8	4780.3	4779.4	4833.3
50°	5701.1	5684.2	5628.3	5580.1	5593.1	5522.8	5527.1	5455.8	5488.1	5492.0	5605.2
52.5°	6295.1	6353.9	6395.3	6445.9	6478.7	6484.9	6506.6	6538.9	6577.9	6655.0	6760.0
55°	6635.3	6709.0	6751.8	6790.4	6854.0	6867.5	6903.6	6946.5	6980.7	7067.4	7156.6
57.5°	7039.5	7176.3	7242.8	7304.0	7389.7	7422.5	7482.7	7529.5	7573.8	7676.4	7784.3
60°	7288.6	7455.3	7590.6	7687.5	7794.9	7872.0	7963.1	8036.3	8140.4	8263.2	8424.1
62.5°	7090.5	7335.3	7515.0	7681.2	7827.2	7974.6	8105.2	8242.0	8400.1	8586.0	8835.6
65°	6301.9	6550.9	6858.8	7031.3	7224.5	7451.9	7650.4	7872.0	8087.4	8358.1	8727.2
67.5°	5073.3	5362.8	5708.8	5882.7	6104.8	6358.7	6581.3	6852.1	7103.6	7431.7	7887.9
70°	3656.8	4031.2	4322.2	4503.8	4763.0	5024.6	5239.5	5554.6	5762.7	6099.0	6570.7
72.5°	2315.5	2610.8	2967.4	3196.2	3426.5	3691.5	3911.2	4182.9	4377.1	4683.5	5110.9
75°	1245.0	1462.7	1775.9	1993.2	2239.9	2466.3	2723.6	2905.7	3049.3	3291.6	3638.5
77.5°	583.5	715.9	874.5	1041.6	1208.8	1383.2	1552.8	1700.2	1761.9	1900.7	2105.4
80°	354.1	397.0	443.2	494.8	564.7	621.0	695.7	749.7	753.5	797.4	860.0
82.5°	236.6	252.5	266.4	279.4	297.3	311.2	327.1	345.9	353.6	363.8	384.0
85°	161.4	169.1	172.0	180.2	178.3	183.1	189.3	195.6	199.0	198.5	207.7
87.5°	99.2	103.1	105.0	107.0	105.5	103.6	106.5	109.8	110.8	107.9	108.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	883.1	878.8	874.5	871.6	870.6	845.1	834.0	826.8	811.3	798.8	788.7
5°	974.2	965.0	957.8	949.1	944.3	879.8	856.1	839.8	812.8	796.9	782.4
7.5°	1120.7	1095.1	1080.2	1063.3	1048.9	932.3	893.2	867.7	830.1	808.9	792.5
10°	1286.9	1260.4	1236.8	1210.7	1188.1	1002.1	945.3	905.8	856.1	828.7	807.0
12.5°	1472.4	1446.3	1416.5	1383.2	1354.3	1090.8	1011.8	955.4	887.5	850.8	820.5
15°	1691.6	1645.8	1609.7	1571.1	1537.4	1196.8	1089.3	1011.3	920.7	871.1	830.6
17.5°	1895.4	1847.2	1798.1	1764.3	1725.3	1315.8	1167.4	1068.1	948.2	884.1	832.5
20°	2094.4	2041.8	1999.4	1954.2	1913.2	1439.1	1250.7	1118.2	966.0	884.6	820.5
22.5°	2269.7	2237.0	2189.7	2140.6	2099.2	1562.5	1328.8	1160.6	972.7	873.5	799.3
25°	2469.2	2434.5	2376.7	2335.3	2289.0	1688.2	1405.4	1193.4	968.9	852.8	766.5
27.5°	2682.1	2643.6	2584.3	2541.0	2485.1	1818.8	1475.7	1217.0	954.4	819.0	722.7
30°	2904.2	2869.1	2810.8	2766.9	2710.6	1957.0	1554.3	1232.9	925.5	772.3	671.6
32.5°	3142.7	3113.3	3055.5	3009.8	2949.5	2106.9	1627.5	1237.7	881.7	716.9	617.7
35°	3369.2	3348.9	3300.3	3257.4	3194.8	2248.5	1705.1	1235.3	829.6	656.2	568.5
37.5°	3624.0	3612.0	3587.9	3533.5	3456.9	2440.8	1798.1	1225.2	766.1	596.0	530.9
40°	3895.8	3896.7	3870.7	3833.6	3762.3	2674.0	1908.9	1205.4	696.7	543.0	496.7
42.5°	4183.4	4198.3	4185.8	4159.3	4090.9	2909.1	2041.4	1181.4	629.2	491.4	463.0
45°	4513.0	4531.3	4550.5	4511.5	4445.0	3219.3	2215.8	1150.0	556.5	448.5	439.9
47.5°	4893.1	4922.0	4939.3	4939.8	4873.3	3603.8	2499.1	1131.2	491.9	419.6	428.8
50°	5695.3	5704.4	5745.4	5816.7	5765.6	4493.7	2993.9	1119.7	448.1	401.8	420.6
52.5°	6851.1	6951.8	7022.6	7017.8	6948.4	5058.8	3266.6	1059.9	422.1	395.1	416.8
55°	7321.8	7447.6	7578.6	7613.3	7559.3	5541.1	3524.3	1000.2	409.5	399.9	418.2
57.5°	7949.1	8161.1	8340.8	8416.4	8338.4	6158.3	3863.5	968.9	405.7	412.9	427.4
60°	8681.9	8944.0	9180.1	9315.9	9315.9	6867.5	4215.2	955.9	400.4	432.2	442.8
62.5°	9152.6	9537.6	9894.1	10093.1	10087.3	7361.3	4371.3	911.6	388.3	445.7	464.0
65°	9154.5	9612.3	10066.6	10290.1	10301.7	7300.6	4113.5	805.1	366.2	447.6	485.2
67.5°	8391.4	8879.4	9408.9	9659.0	9716.8	6720.5	3560.9	662.0	330.0	428.3	492.9
70°	7087.2	7563.7	8104.2	8350.0	8452.6	5729.0	2868.1	510.2	283.8	385.9	477.0
72.5°	5583.5	6050.8	6427.1	6606.8	6686.8	4379.0	2088.6	385.4	232.7	325.2	434.1
75°	3953.1	4303.9	4503.8	4543.8	4556.3	2639.7	1269.0	286.7	191.8	252.9	366.6
77.5°	2231.2	2381.5	2365.1	2382.9	2234.6	1019.0	552.6	205.2	158.0	192.2	284.3
80°	871.1	898.1	843.6	826.8	758.3	379.2	243.8	143.1	126.2	145.5	199.0
82.5°	384.0	396.5	385.0	387.8	371.0	195.6	146.0	103.6	96.4	106.5	132.0
85°	211.5	215.4	214.4	220.7	211.5	78.1	69.4	63.6	67.5	72.3	84.8
87.5°	103.1	104.1	100.7	106.0	102.6	39.5	34.2	36.1	39.5	40.5	40.5
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°	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	781.5	777.6	778.1	777.1	775.2	775.2
5°	774.7	770.9	770.9	769.9	767.5	768.0
7.5°	781.5	775.2	772.8	769.4	766.1	766.1
10°	789.2	778.1	771.4	765.6	761.2	761.2
12.5°	795.0	777.6	766.5	758.8	754.5	754.5
15°	796.9	774.2	758.8	749.7	745.8	745.3
17.5°	790.6	761.2	742.4	731.8	727.0	725.6
20°	771.4	737.6	715.0	702.9	696.2	693.8
22.5°	742.4	703.9	677.4	664.9	656.2	654.8
25°	702.0	660.5	634.5	622.5	617.7	616.2
27.5°	654.8	616.2	594.1	586.3	582.0	581.5
30°	609.9	577.2	560.8	555.0	549.7	548.8
32.5°	568.0	547.3	541.1	532.9	520.3	518.9
35°	538.2	536.2	531.9	513.6	498.2	493.8
37.5°	519.9	537.7	515.5	479.4	468.3	467.3
40°	509.3	522.7	484.7	472.2	473.1	472.2
42.5°	485.2	499.1	485.6	479.9	483.7	484.7
45°	461.1	476.5	492.9	489.0	498.2	498.2
47.5°	447.6	470.7	492.4	492.4	505.9	510.7
50°	432.2	465.9	484.7	491.4	502.0	498.2
52.5°	431.2	457.7	473.6	485.6	490.5	486.1
55°	432.7	451.0	462.5	476.0	481.8	482.3
57.5°	434.6	447.1	454.8	461.1	478.4	478.4
60°	439.4	443.7	448.1	451.4	474.1	474.6
62.5°	447.1	440.4	439.4	442.8	471.7	469.7
65°	459.1	435.5	428.3	431.7	469.3	463.5
67.5°	475.5	428.3	414.3	416.8	467.3	454.8
70°	490.5	416.8	397.0	394.6	449.0	426.9
72.5°	491.9	403.3	372.9	365.7	390.3	369.1
75°	467.8	394.1	346.4	325.2	322.3	319.4
77.5°	421.6	388.8	315.6	282.3	276.5	278.5
80°	352.7	369.1	278.5	239.0	270.3	266.9
82.5°	263.5	325.7	236.6	211.5	211.0	186.5
85°	146.5	253.9	192.7	158.5	110.3	107.0
87.5°	41.0	141.2	134.9	89.6	61.2	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)