

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: P193960

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193960
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-02-LED-E1-T2R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11358 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

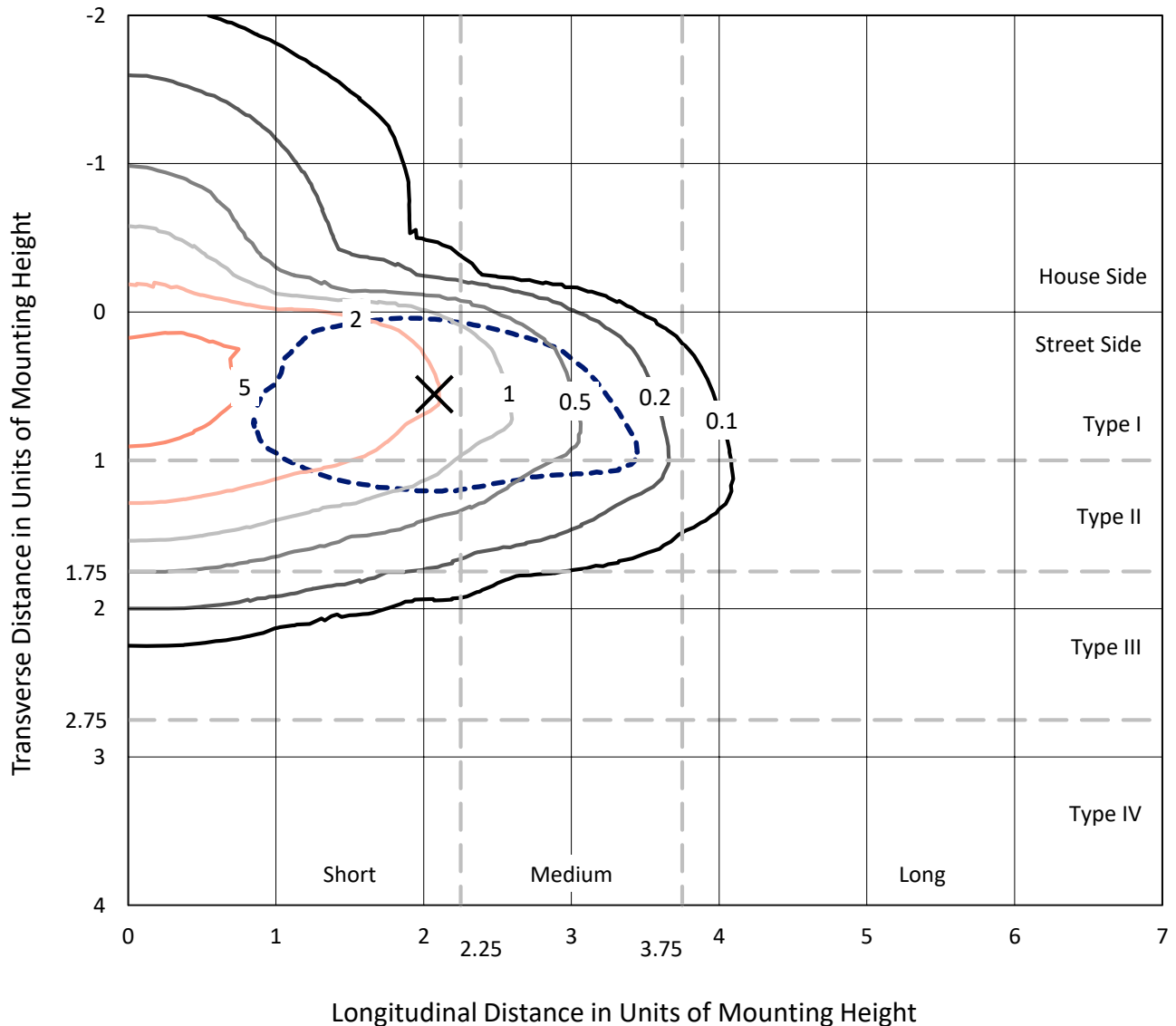


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Iso-Footcandle Lines of Horizontal Illumination

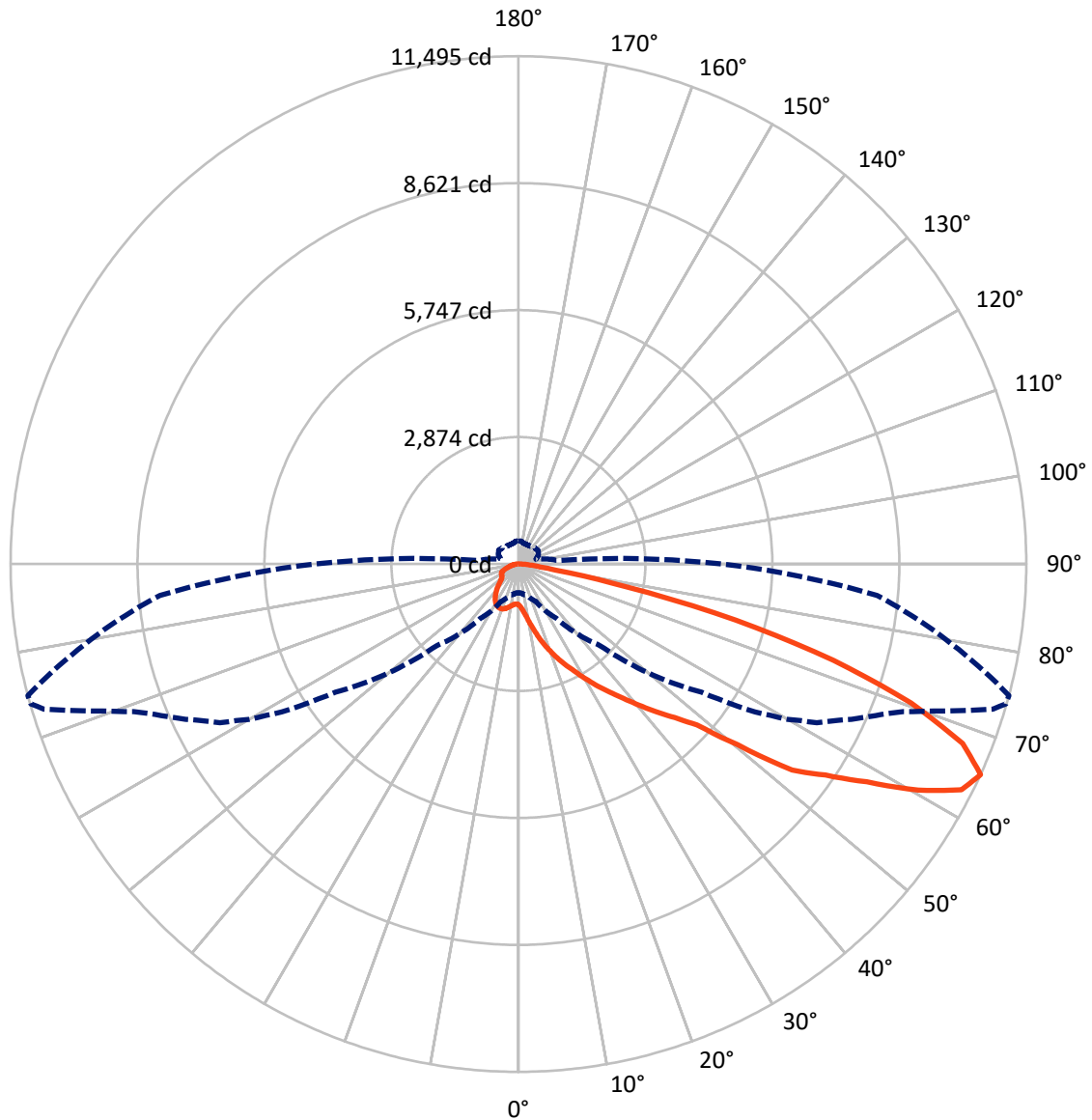
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1751.1	0.0	1751.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9606.9	0.0	9606.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	11358.0	0.0	11358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.0
10°-20°	445.8	3.9
20°-30°	914.6	8.1
30°-40°	1538.8	13.5
40°-50°	2126.2	18.7
50°-60°	2654.1	23.4
60°-70°	2388.4	21.0
70°-80°	1001.2	8.8
80°-90°	174.9	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°	11358.0	100.0
0°-180°	11358.0	100.0

Coefficient of Utilization



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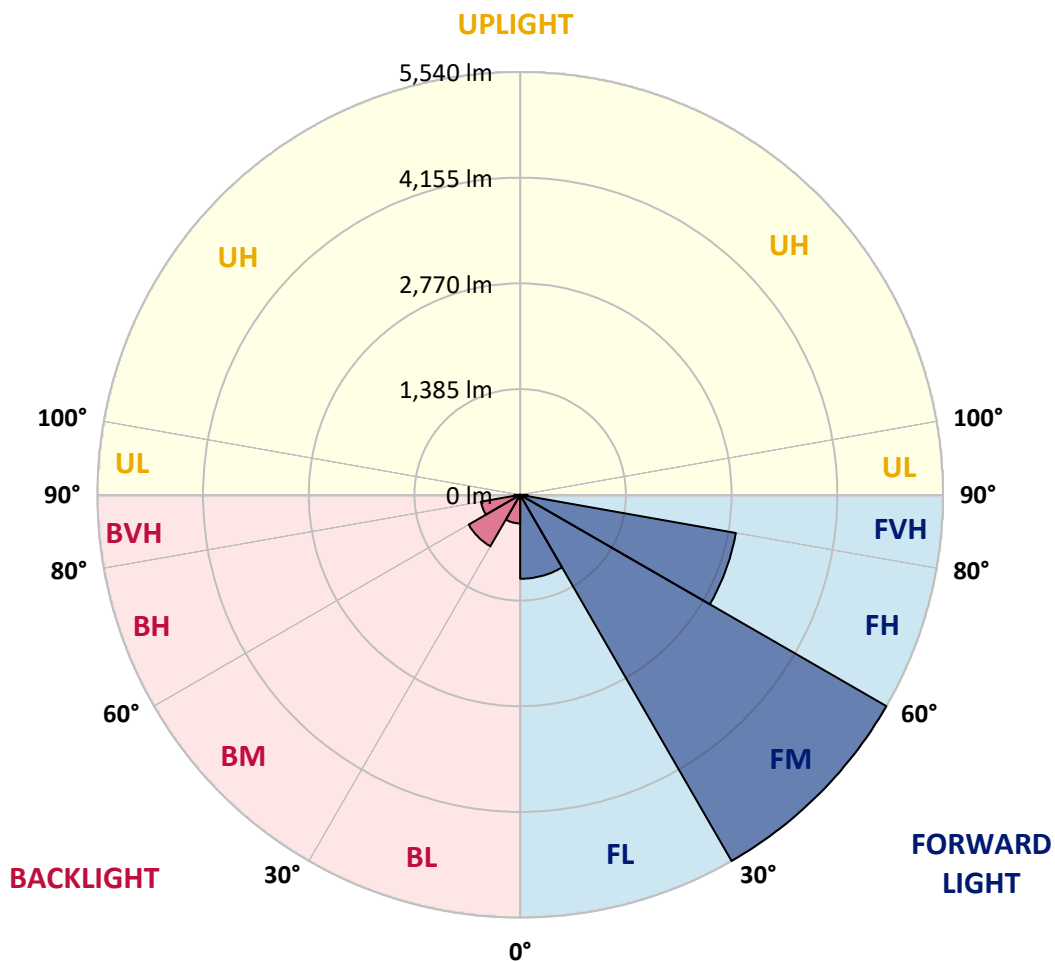
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.0	9.7			
FM (30°-60°)	5539.6	48.8			
FH (60°-80°)	2869.0	25.3			G2/5000
FVH (80°-90°)	98.3	0.9			G1/100
BL (0°-30°)	374.5	3.3	B1/500		
BM (30°-60°)	779.4	6.9	B1/1000		
BH (60°-80°)	520.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	76.6	0.7			G1/100
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°	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	1172.0	1159.1	1162.3	1140.8	1114.4	1080.0	1041.9	1041.3	1041.9	1038.1	1024.1
5°	1625.2	1609.6	1603.7	1555.3	1484.3	1383.2	1273.6	1261.7	1256.9	1244.5	1216.0
7.5°	1955.8	1947.2	1938.0	1901.5	1837.0	1724.1	1576.8	1551.5	1527.3	1521.4	1489.1
10°	2169.2	2167.1	2147.7	2138.0	2097.7	1999.9	1856.3	1832.1	1805.8	1796.7	1762.8
12.5°	2338.0	2337.5	2328.3	2331.0	2296.1	2225.1	2101.5	2079.4	2060.1	2032.1	2007.9
15°	2454.7	2455.2	2468.6	2483.7	2478.3	2430.5	2314.4	2304.7	2288.0	2268.7	2240.2
17.5°	2550.4	2553.1	2567.0	2594.4	2624.0	2620.2	2528.3	2520.3	2505.7	2479.4	2464.3
20°	2766.5	2776.7	2749.8	2749.8	2753.0	2767.6	2723.5	2717.0	2696.6	2682.6	2670.8
22.5°	3131.5	3143.3	3082.6	3020.8	2960.0	2915.9	2871.8	2879.9	2865.9	2856.3	2849.3
25°	3605.7	3614.8	3516.4	3412.1	3288.5	3127.2	3018.1	3013.2	3005.7	2999.8	2996.6
27.5°	4051.9	4055.6	3962.6	3810.0	3666.4	3434.7	3166.4	3160.5	3151.4	3140.1	3130.4
30°	4433.6	4432.5	4336.8	4191.1	4037.4	3780.9	3391.7	3373.4	3346.5	3315.9	3292.2
32.5°	4764.2	4762.6	4657.7	4506.7	4345.4	4123.9	3700.3	3662.7	3620.7	3561.0	3525.0
35°	5024.4	5023.3	4924.4	4766.9	4581.9	4447.0	4054.0	4007.8	3954.6	3874.5	3819.1
37.5°	5122.8	5122.8	5067.4	4959.9	4796.4	4704.0	4447.0	4391.1	4334.1	4243.3	4180.9
40°	5065.2	5066.3	5078.1	5058.3	4978.7	4907.7	4813.6	4780.3	4731.4	4649.7	4584.6
42.5°	4872.2	4878.2	4956.6	5052.9	5092.7	5081.4	5138.9	5123.8	5089.4	5026.5	4974.9
45°	4627.6	4645.9	4731.9	4913.6	5124.4	5231.4	5411.5	5413.1	5406.6	5372.7	5333.0
47.5°	4291.6	4317.4	4430.9	4676.6	5050.2	5377.0	5688.3	5702.8	5716.3	5694.2	5676.0
50°	3845.4	3876.1	4046.0	4371.7	4899.1	5528.1	6211.4	6277.0	6338.3	6330.7	6343.1
52.5°	3367.5	3403.5	3611.6	3974.5	4639.5	5563.1	6545.8	6652.8	6759.7	6847.4	6940.4
55°	2936.4	2917.0	3125.1	3507.3	4212.6	5405.5	6846.3	6975.3	7094.7	7202.2	7312.9
57.5°	2352.0	2383.7	2592.3	2970.2	3647.6	4960.9	7053.3	7242.0	7413.5	7591.4	7748.4
60°	1719.2	1751.0	1977.3	2361.1	3034.2	4286.8	6895.2	7181.2	7455.9	7728.5	7941.4
62.5°	1038.1	1061.8	1261.2	1626.8	2339.6	3487.4	6191.0	6566.2	6970.5	7296.3	7622.6
65°	646.2	659.6	733.3	934.3	1502.6	2603.6	5058.3	5467.4	5902.8	6316.2	6655.5
67.5°	529.0	533.8	547.3	590.3	825.2	1697.7	3764.8	4127.1	4520.1	4920.1	5297.5
70°	475.8	472.5	472.5	475.2	529.0	912.8	2464.9	2700.9	3028.3	3376.1	3721.2
72.5°	429.5	426.3	420.4	412.3	431.7	557.0	1274.1	1452.1	1688.1	1997.2	2327.8
75°	386.0	381.7	374.7	364.5	377.9	420.4	611.8	686.5	801.6	966.1	1150.5
77.5°	340.8	335.5	329.0	321.5	338.7	326.9	358.6	385.5	429.5	482.2	551.6
80°	289.8	284.9	282.8	279.0	299.4	248.9	253.2	269.9	295.7	324.2	356.4
82.5°	226.9	226.9	235.5	237.1	259.7	179.0	189.2	203.7	217.2	232.2	247.3
85°	149.5	150.5	179.6	190.8	204.8	120.4	141.9	146.8	157.5	166.1	172.6
87.5°	46.8	50.5	109.7	121.5	117.7	68.3	87.1	89.2	96.8	102.7	108.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	1024.1	1017.7	1011.8	1011.2	1006.9	1001.0	1003.2	994.0	994.6	989.7	984.3
5°	1204.2	1199.9	1178.4	1172.5	1156.4	1146.2	1144.5	1123.0	1120.4	1108.0	1094.5
7.5°	1463.3	1449.4	1419.3	1404.7	1377.3	1356.9	1347.2	1318.7	1304.7	1272.5	1258.0
10°	1734.8	1717.1	1680.0	1659.6	1633.2	1600.4	1582.7	1541.3	1525.2	1495.6	1460.1
12.5°	1986.4	1968.7	1930.5	1914.9	1880.0	1845.0	1825.7	1778.9	1757.9	1710.6	1682.7
15°	2219.2	2201.5	2168.1	2152.0	2117.1	2088.6	2062.8	2016.5	1991.8	1947.7	1911.2
17.5°	2445.0	2426.2	2397.1	2382.6	2348.8	2319.7	2291.8	2248.2	2223.0	2178.9	2146.1
20°	2654.7	2640.7	2619.7	2600.4	2566.5	2540.1	2506.8	2469.2	2432.6	2400.4	2369.2
22.5°	2837.4	2832.1	2809.5	2800.9	2771.9	2749.3	2720.2	2683.1	2656.8	2615.9	2586.9
25°	2995.0	2993.3	2982.6	2979.9	2959.5	2938.0	2931.5	2900.9	2876.7	2840.7	2810.6
27.5°	3130.4	3132.0	3129.4	3136.9	3131.5	3121.8	3122.4	3112.2	3098.2	3068.1	3041.7
30°	3281.0	3272.4	3277.2	3287.9	3291.2	3292.2	3310.0	3315.9	3314.8	3294.9	3282.0
32.5°	3493.8	3473.4	3454.6	3453.0	3463.7	3468.0	3498.1	3513.7	3527.2	3532.0	3534.2
35°	3765.3	3724.5	3685.2	3664.3	3646.0	3650.8	3672.3	3697.6	3727.2	3747.6	3771.8
37.5°	4107.2	4057.2	3987.9	3938.4	3926.1	3899.2	3913.2	3933.1	3962.1	3993.8	4035.7
40°	4521.7	4445.9	4368.0	4302.4	4266.9	4217.5	4216.9	4213.2	4230.9	4260.5	4319.6
42.5°	4920.6	4853.4	4770.6	4701.8	4655.6	4589.5	4576.0	4541.1	4549.1	4575.0	4632.5
45°	5294.3	5238.9	5188.4	5108.8	5069.5	4998.0	4975.5	4934.1	4911.0	4922.8	4980.3
47.5°	5656.1	5620.6	5567.9	5516.3	5486.2	5422.2	5393.2	5363.6	5334.0	5333.0	5393.2
50°	6361.4	6342.6	6280.2	6226.5	6241.0	6162.5	6167.3	6087.8	6123.8	6128.1	6254.4
52.5°	7024.2	7089.8	7136.1	7192.5	7229.1	7236.1	7260.3	7296.3	7339.8	7425.8	7543.0
55°	7403.8	7486.0	7533.9	7576.9	7647.9	7662.9	7703.2	7751.1	7789.2	7886.0	7985.5
57.5°	7854.8	8007.5	8081.7	8150.0	8245.7	8282.2	8349.4	8401.6	8451.0	8565.5	8686.0
60°	8132.8	8318.8	8469.8	8577.9	8697.8	8783.8	8885.4	8967.1	9083.2	9220.3	9399.9
62.5°	7911.8	8184.9	8385.4	8570.9	8733.8	8898.3	9044.0	9196.7	9373.0	9580.5	9859.0
65°	7031.8	7309.7	7653.2	7845.7	8061.3	8315.0	8536.5	8783.8	9024.1	9326.2	9738.0
67.5°	5660.9	5984.0	6370.0	6564.1	6811.9	7095.2	7343.6	7645.7	7926.3	8292.4	8801.5
70°	4080.4	4498.1	4822.8	5025.5	5314.7	5606.6	5846.4	6198.0	6430.2	6805.4	7331.8
72.5°	2583.7	2913.2	3311.1	3566.4	3823.4	4119.1	4364.2	4667.4	4884.1	5226.0	5702.8
75°	1389.2	1632.1	1981.6	2224.0	2499.3	2752.0	3039.0	3242.3	3402.5	3672.9	4059.9
77.5°	651.0	798.9	975.7	1162.3	1348.8	1543.4	1732.7	1897.2	1966.0	2120.8	2349.3
80°	395.1	443.0	494.6	552.1	630.1	693.0	776.3	836.5	840.8	889.7	959.6
82.5°	264.0	281.7	297.3	311.8	331.7	347.3	365.0	386.0	394.6	405.9	428.5
85°	180.1	188.7	191.9	201.1	198.9	204.3	211.3	218.3	222.0	221.5	231.7
87.5°	110.7	115.0	117.2	119.3	117.7	115.6	118.8	122.6	123.6	120.4	121.5
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°	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	985.4	980.6	975.7	972.5	971.4	942.9	930.6	922.5	905.3	891.3	880.0
5°	1087.0	1076.8	1068.7	1059.1	1053.7	981.7	955.3	937.0	906.9	889.2	873.1
7.5°	1250.5	1222.0	1205.3	1186.5	1170.3	1040.3	996.7	968.2	926.3	902.6	884.3
10°	1435.9	1406.4	1380.0	1351.0	1325.7	1118.2	1054.8	1010.7	955.3	924.7	900.5
12.5°	1642.9	1613.9	1580.5	1543.4	1511.2	1217.1	1129.0	1066.1	990.3	949.4	915.5
15°	1887.5	1836.4	1796.1	1753.1	1715.5	1335.4	1215.5	1128.4	1027.3	972.0	926.8
17.5°	2114.9	2061.1	2006.3	1968.7	1925.1	1468.2	1302.6	1191.9	1058.0	986.5	929.0
20°	2336.9	2278.3	2231.0	2180.5	2134.8	1605.8	1395.6	1247.8	1077.9	987.0	915.5
22.5°	2532.6	2496.1	2443.4	2388.5	2342.3	1743.4	1482.7	1295.1	1085.4	974.7	891.9
25°	2755.2	2716.5	2652.0	2605.7	2554.1	1883.7	1568.2	1331.6	1081.1	951.5	855.3
27.5°	2992.8	2949.8	2883.7	2835.3	2772.9	2029.4	1646.7	1358.0	1065.0	913.9	806.4
30°	3240.6	3201.4	3136.3	3087.4	3024.5	2183.7	1734.3	1375.7	1032.7	861.8	749.4
32.5°	3506.7	3474.0	3409.4	3358.4	3291.2	2350.9	1816.0	1381.1	983.8	799.9	689.2
35°	3759.4	3736.8	3682.5	3634.7	3564.8	2509.0	1902.6	1378.4	925.7	732.2	634.4
37.5°	4043.8	4030.4	4003.5	3942.7	3857.3	2723.5	2006.3	1367.1	854.8	665.0	592.4
40°	4347.0	4348.1	4319.1	4277.7	4198.1	2983.7	2130.0	1345.1	777.4	605.9	554.3
42.5°	4668.0	4684.6	4670.6	4641.1	4564.7	3246.0	2277.8	1318.2	702.1	548.3	516.6
45°	5035.7	5056.1	5077.6	5034.1	4959.9	3592.2	2472.4	1283.2	620.9	500.5	490.8
47.5°	5459.8	5492.1	5511.4	5512.0	5437.8	4021.2	2788.5	1262.3	548.9	468.2	478.5
50°	6354.9	6365.2	6410.8	6490.4	6433.4	5014.2	3340.6	1249.4	500.0	448.4	469.3
52.5°	7644.6	7757.0	7836.0	7830.6	7753.2	5644.8	3644.9	1182.7	470.9	440.8	465.0
55°	8169.9	8310.2	8456.4	8495.1	8434.9	6182.9	3932.5	1116.1	457.0	446.2	466.6
57.5°	8869.8	9106.4	9306.9	9391.3	9304.2	6871.6	4311.0	1081.1	452.7	460.7	476.8
60°	9687.5	9980.0	10243.4	10395.0	10395.0	7662.9	4703.4	1066.6	446.7	482.2	494.1
62.5°	10212.7	10642.3	11040.1	11262.1	11255.7	8214.0	4877.6	1017.1	433.3	497.3	517.7
65°	10214.9	10725.6	11232.6	11482.0	11494.9	8146.2	4590.0	898.3	408.6	499.4	541.4
67.5°	9363.3	9907.9	10498.7	10777.8	10842.3	7498.9	3973.4	738.7	368.3	477.9	550.0
70°	7908.1	8439.7	9042.9	9317.1	9431.6	6392.6	3200.3	569.3	316.6	430.6	532.2
72.5°	6230.2	6751.7	7171.5	7372.1	7461.3	4886.2	2330.5	430.1	259.7	362.9	484.4
75°	4411.0	4802.4	5025.5	5070.1	5084.1	2945.5	1416.0	319.9	214.0	282.2	409.1
77.5°	2489.6	2657.3	2639.1	2659.0	2493.4	1137.0	616.6	229.0	176.3	214.5	317.2
80°	972.0	1002.1	941.3	922.5	846.2	423.1	272.0	159.7	140.9	162.4	222.0
82.5°	428.5	442.4	429.5	432.8	414.0	218.3	162.9	115.6	107.5	118.8	147.3
85°	236.0	240.3	239.2	246.2	236.0	87.1	77.4	71.0	75.3	80.6	94.6
87.5°	115.0	116.1	112.4	118.3	114.5	44.1	38.2	40.3	44.1	45.2	45.2
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°	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	872.0	867.7	868.2	867.1	865.0	865.0
5°	864.5	860.2	860.2	859.1	856.4	856.9
7.5°	872.0	865.0	862.3	858.5	854.8	854.8
10°	880.6	868.2	860.7	854.2	849.4	849.4
12.5°	887.0	867.7	855.3	846.7	841.9	841.9
15°	889.2	863.9	846.7	836.5	832.2	831.7
17.5°	882.2	849.4	828.4	816.6	811.2	809.6
20°	860.7	823.1	797.8	784.4	776.8	774.1
22.5°	828.4	785.4	755.9	741.9	732.2	730.6
25°	783.3	737.0	708.0	694.6	689.2	687.6
27.5°	730.6	687.6	662.9	654.3	649.4	648.9
30°	680.6	644.0	625.8	619.3	613.4	612.3
32.5°	633.8	610.7	603.7	594.6	580.6	579.0
35°	600.5	598.3	593.5	573.1	555.9	551.0
37.5°	580.1	600.0	575.2	534.9	522.5	521.5
40°	568.2	583.3	540.8	526.8	527.9	526.8
42.5°	541.4	557.0	541.9	535.4	539.7	540.8
45°	514.5	531.7	550.0	545.7	555.9	555.9
47.5°	499.4	525.2	549.4	549.4	564.5	569.9
50°	482.2	519.9	540.8	548.3	560.2	555.9
52.5°	481.1	510.7	528.5	541.9	547.3	542.4
55°	482.8	503.2	516.1	531.1	537.6	538.1
57.5°	484.9	498.9	507.5	514.5	533.8	533.8
60°	490.3	495.1	500.0	503.7	529.0	529.5
62.5°	498.9	491.4	490.3	494.1	526.3	524.2
65°	512.3	486.0	477.9	481.7	523.6	517.2
67.5°	530.6	477.9	462.3	465.0	521.5	507.5
70°	547.3	465.0	443.0	440.3	501.0	476.3
72.5°	548.9	450.0	416.1	408.0	435.5	411.8
75°	522.0	439.8	386.5	362.9	359.7	356.4
77.5°	470.4	433.8	352.1	315.0	308.6	310.7
80°	393.5	411.8	310.7	266.6	301.6	297.8
82.5°	294.1	363.4	264.0	236.0	235.5	208.1
85°	163.4	283.3	215.0	176.9	123.1	119.3
87.5°	45.7	157.5	150.5	100.0	68.3	71.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)