

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: P192190

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192190
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 8360 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

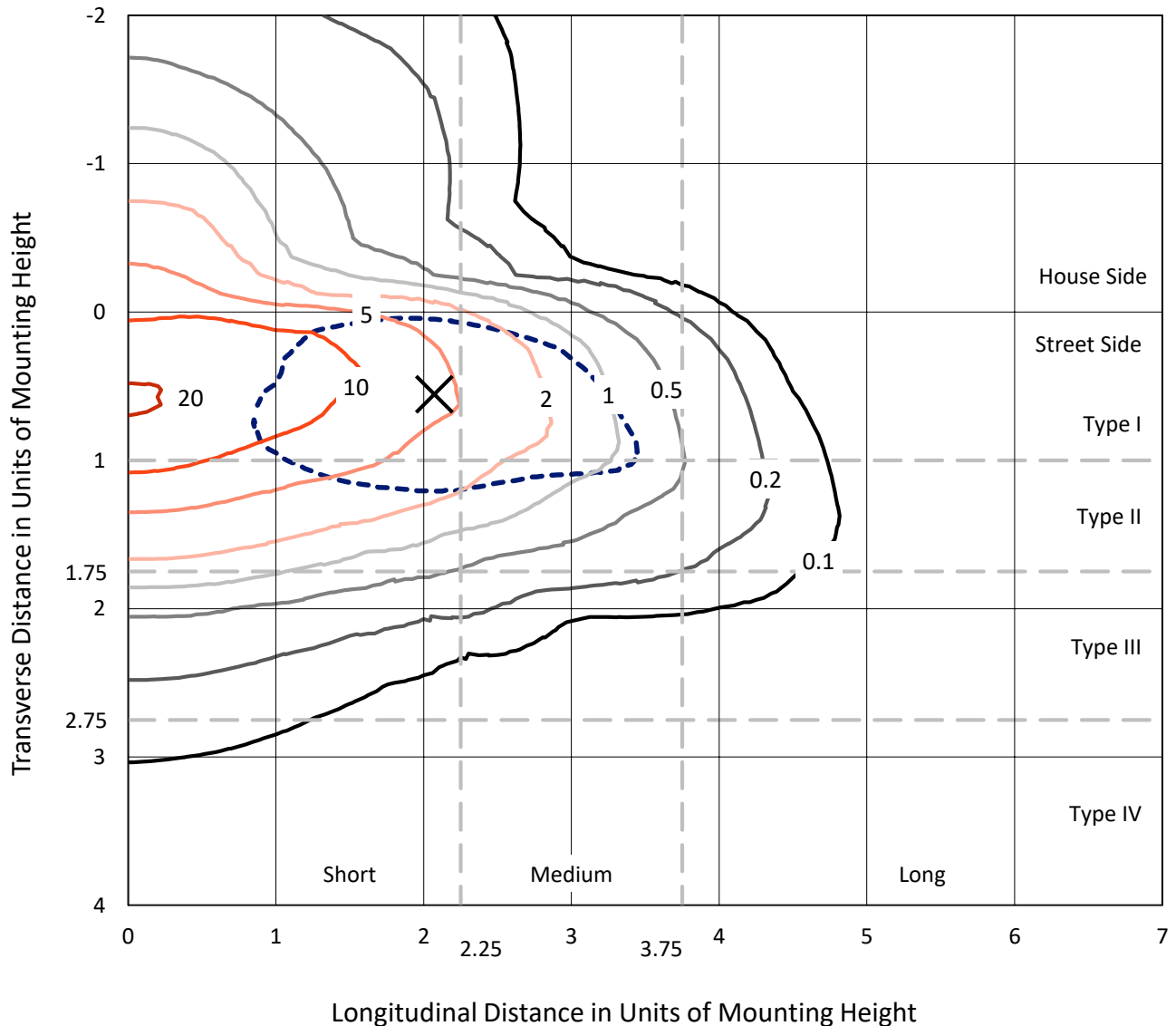


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Iso-Footcandle Lines of Horizontal Illumination

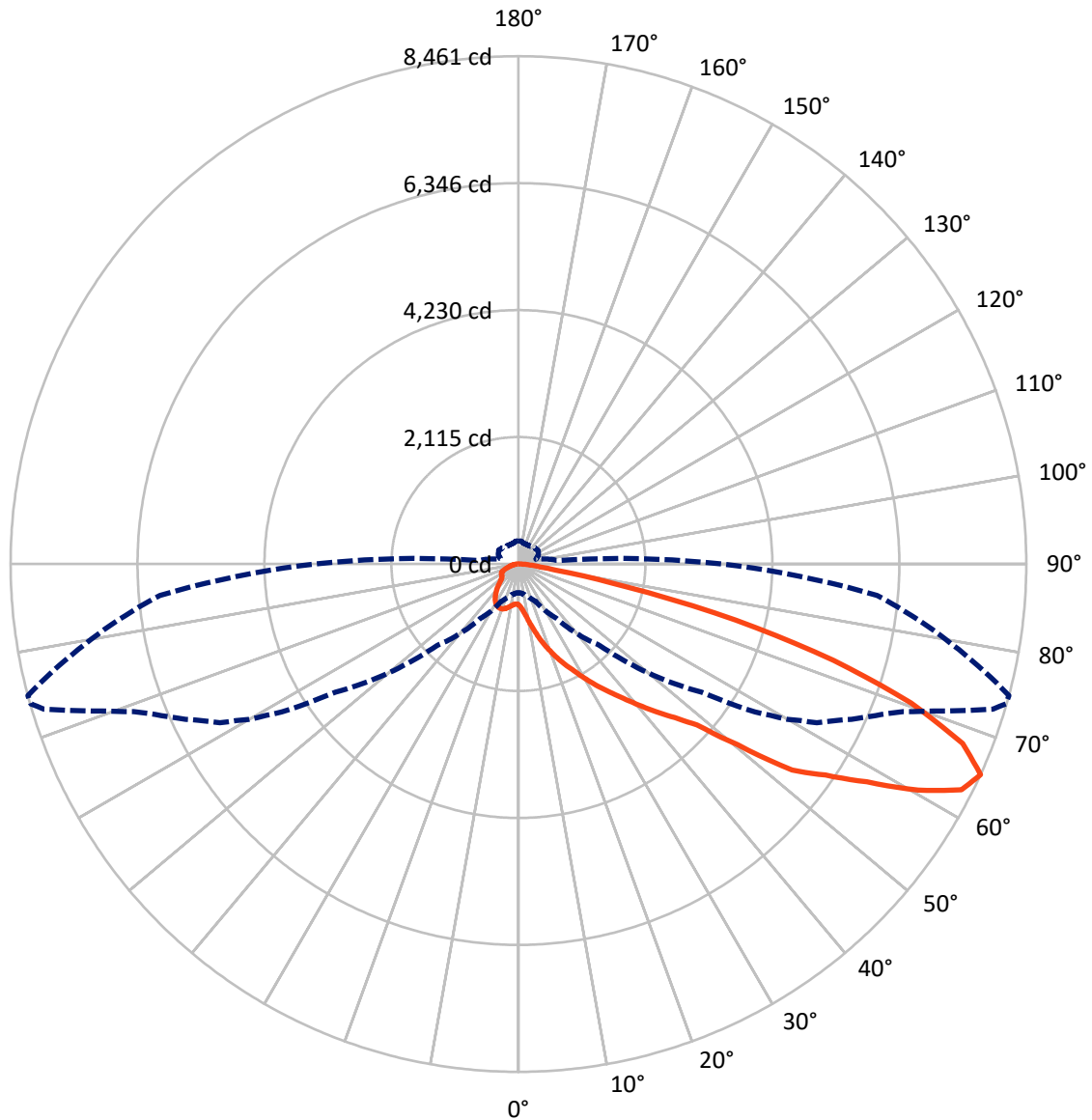
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 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	1288.9	0.0	1288.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	7071.1	0.0	7071.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	8360.0	0.0	8360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.0
10°-20°	328.1	3.9
20°-30°	673.2	8.1
30°-40°	1132.6	13.5
40°-50°	1564.9	18.7
50°-60°	1953.5	23.4
60°-70°	1758.0	21.0
70°-80°	736.9	8.8
80°-90°	128.7	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°	8360.0	100.0
0°-180°	8360.0	100.0

Coefficient of Utilization



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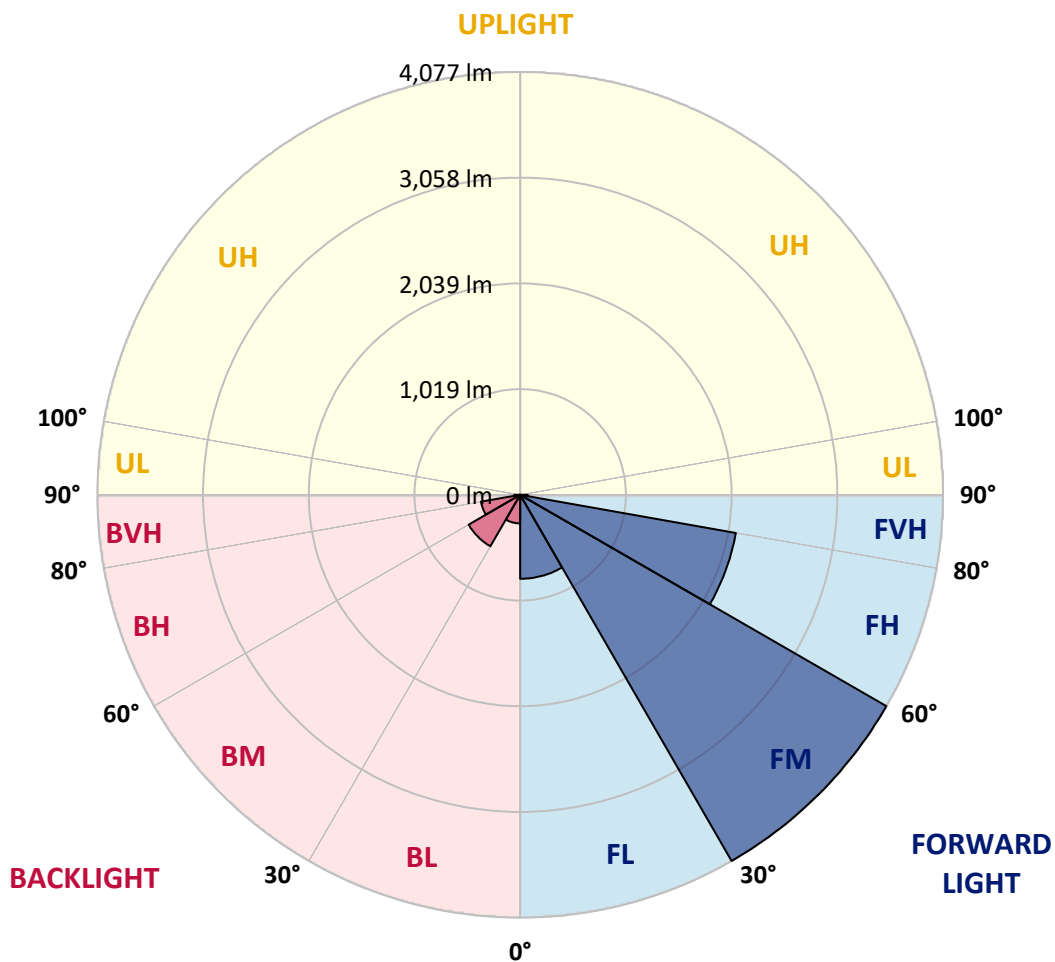
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.6	9.7			
FM	(30°-60°)	4077.4	48.8			
FH	(60°-80°)	2111.7	25.3			G2/5000
FVH	(80°-90°)	72.4	0.9			G1/100
BL	(0°-30°)	275.6	3.3	B1/500		
BM	(30°-60°)	573.7	6.9	B1/1000		
BH	(60°-80°)	383.2	4.6	B1/500		G1/500
BVH	(80°-90°)	56.4	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°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	862.6	853.1	855.5	839.7	820.3	795.0	766.9	766.5	766.9	764.1	753.8
5°	1196.2	1184.7	1180.4	1144.7	1092.5	1018.1	937.4	928.7	925.1	916.0	895.1
7.5°	1439.5	1433.2	1426.5	1399.6	1352.1	1269.0	1160.6	1142.0	1124.2	1119.8	1096.1
10°	1596.6	1595.1	1580.8	1573.7	1544.0	1472.0	1366.3	1348.5	1329.1	1322.4	1297.5
12.5°	1720.9	1720.5	1713.8	1715.7	1690.0	1637.8	1546.8	1530.6	1516.3	1495.7	1477.9
15°	1806.7	1807.1	1817.0	1828.1	1824.2	1788.9	1703.5	1696.3	1684.1	1669.8	1648.9
17.5°	1877.2	1879.2	1889.4	1909.6	1931.4	1928.6	1861.0	1855.0	1844.3	1824.9	1813.9
20°	2036.3	2043.8	2024.0	2024.0	2026.4	2037.0	2004.6	1999.8	1984.8	1974.5	1965.8
22.5°	2304.9	2313.6	2268.9	2223.4	2178.7	2146.3	2113.8	2119.7	2109.5	2102.3	2097.2
25°	2653.9	2660.7	2588.2	2511.5	2420.5	2301.8	2221.4	2217.9	2212.3	2208.0	2205.6
27.5°	2982.4	2985.1	2916.7	2804.3	2698.6	2528.1	2330.6	2326.3	2319.6	2311.3	2304.1
30°	3263.3	3262.5	3192.1	3084.8	2971.7	2782.9	2496.4	2483.0	2463.2	2440.7	2423.2
32.5°	3506.7	3505.5	3428.3	3317.1	3198.4	3035.4	2723.6	2695.9	2665.0	2621.1	2594.6
35°	3698.2	3697.4	3624.6	3508.6	3372.5	3273.2	2983.9	2949.9	2910.7	2851.8	2811.0
37.5°	3770.6	3770.6	3729.8	3650.7	3530.4	3462.3	3273.2	3232.0	3190.1	3123.2	3077.3
40°	3728.2	3729.0	3737.7	3723.1	3664.5	3612.3	3543.1	3518.5	3482.5	3422.4	3374.5
42.5°	3586.2	3590.5	3648.3	3719.1	3748.4	3740.1	3782.5	3771.4	3746.1	3699.8	3661.8
45°	3406.2	3419.6	3482.9	3616.7	3771.8	3850.5	3983.1	3984.3	3979.5	3954.6	3925.3
47.5°	3158.8	3177.8	3261.3	3442.2	3717.2	3957.8	4186.9	4197.5	4207.4	4191.2	4177.8
50°	2830.4	2853.0	2978.0	3217.8	3606.0	4068.9	4571.9	4620.1	4665.3	4659.7	4668.8
52.5°	2478.6	2505.2	2658.3	2925.4	3414.9	4094.7	4818.0	4896.7	4975.5	5040.0	5108.4
55°	2161.3	2147.0	2300.2	2581.5	3100.7	3978.7	5039.2	5134.2	5222.0	5301.1	5382.7
57.5°	1731.2	1754.5	1908.0	2186.2	2684.8	3651.5	5191.5	5330.4	5456.6	5587.6	5703.2
60°	1265.4	1288.8	1455.4	1737.9	2233.3	3155.3	5075.2	5285.7	5487.9	5688.5	5845.2
62.5°	764.1	781.5	928.3	1197.4	1722.1	2566.9	4556.8	4833.0	5130.6	5370.4	5610.6
65°	475.6	485.5	539.7	687.7	1106.0	1916.4	3723.1	4024.2	4344.7	4649.0	4898.7
67.5°	389.4	392.9	402.8	434.5	607.4	1249.6	2771.1	3037.8	3327.0	3621.4	3899.2
70°	350.2	347.8	347.8	349.8	389.4	671.9	1814.3	1988.0	2229.0	2485.0	2739.0
72.5°	316.2	313.8	309.4	303.5	317.7	409.9	937.8	1068.8	1242.5	1470.0	1713.4
75°	284.1	280.9	275.8	268.3	278.2	309.4	450.3	505.3	590.0	711.1	846.8
77.5°	250.9	246.9	242.2	236.6	249.3	240.6	263.9	283.7	316.2	354.9	406.0
80°	213.3	209.7	208.1	205.4	220.4	183.2	186.4	198.6	217.6	238.6	262.3
82.5°	167.0	167.0	173.3	174.5	191.1	131.8	139.3	150.0	159.9	170.9	182.0
85°	110.0	110.8	132.2	140.5	150.8	88.6	104.5	108.0	115.9	122.3	127.0
87.5°	34.4	37.2	80.7	89.4	86.7	50.3	64.1	65.7	71.2	75.6	79.5
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	753.8	749.1	744.7	744.3	741.1	736.8	738.4	731.6	732.0	728.5	724.5
5°	886.4	883.2	867.4	863.0	851.1	843.6	842.4	826.6	824.6	815.5	805.6
7.5°	1077.1	1066.8	1044.6	1034.0	1013.8	998.7	991.6	970.6	960.4	936.6	925.9
10°	1276.9	1263.9	1236.5	1221.5	1202.1	1178.0	1164.9	1134.5	1122.6	1100.8	1074.7
12.5°	1462.1	1449.0	1420.9	1409.5	1383.7	1358.0	1343.8	1309.4	1293.9	1259.1	1238.5
15°	1633.4	1620.4	1595.8	1584.0	1558.3	1537.3	1518.3	1484.3	1466.1	1433.6	1406.7
17.5°	1799.6	1785.8	1764.4	1753.7	1728.8	1707.4	1686.9	1654.8	1636.2	1603.8	1579.6
20°	1953.9	1943.7	1928.2	1914.0	1889.1	1869.7	1845.1	1817.4	1790.5	1766.8	1743.8
22.5°	2088.5	2084.5	2067.9	2061.6	2040.2	2023.6	2002.2	1974.9	1955.5	1925.5	1904.1
25°	2204.4	2203.2	2195.3	2193.3	2178.3	2162.5	2157.7	2135.2	2117.4	2090.9	2068.7
27.5°	2304.1	2305.3	2303.3	2308.9	2304.9	2297.8	2298.2	2290.7	2280.4	2258.2	2238.8
30°	2414.9	2408.6	2412.2	2420.1	2422.5	2423.2	2436.3	2440.7	2439.9	2425.2	2415.7
32.5°	2571.6	2556.6	2542.7	2541.6	2549.5	2552.6	2574.8	2586.3	2596.2	2599.7	2601.3
35°	2771.5	2741.4	2712.5	2697.1	2683.6	2687.2	2703.0	2721.6	2743.4	2758.4	2776.2
37.5°	3023.1	2986.3	2935.3	2898.9	2889.8	2870.0	2880.3	2894.9	2916.3	2939.6	2970.5
40°	3328.2	3272.4	3215.0	3166.8	3140.6	3104.2	3103.8	3101.1	3114.1	3135.9	3179.4
42.5°	3621.8	3572.3	3511.4	3460.8	3426.7	3378.1	3368.2	3342.4	3348.4	3367.4	3409.7
45°	3896.8	3856.1	3818.9	3760.3	3731.4	3678.8	3662.2	3631.7	3614.7	3623.4	3665.7
47.5°	4163.1	4137.0	4098.2	4060.2	4038.1	3991.0	3969.6	3947.9	3926.1	3925.3	3969.6
50°	4682.3	4668.4	4622.5	4583.0	4593.6	4535.9	4539.4	4480.9	4507.4	4510.5	4603.5
52.5°	5170.2	5218.4	5252.5	5294.0	5320.9	5326.1	5343.9	5370.4	5402.4	5465.7	5552.0
55°	5449.5	5510.1	5545.3	5576.9	5629.2	5640.2	5669.9	5705.1	5733.2	5804.5	5877.7
57.5°	5781.5	5893.9	5948.5	5998.8	6069.2	6096.1	6145.6	6183.9	6220.3	6304.6	6393.3
60°	5986.1	6123.0	6234.2	6313.7	6402.0	6465.3	6540.1	6600.2	6685.7	6786.6	6918.7
62.5°	5823.5	6024.5	6172.1	6308.6	6428.5	6549.6	6656.8	6769.2	6899.0	7051.7	7256.7
65°	5175.7	5380.3	5633.1	5774.8	5933.5	6120.2	6283.3	6465.3	6642.2	6864.5	7167.6
67.5°	4166.7	4404.5	4688.6	4831.4	5013.9	5222.4	5405.2	5627.6	5834.1	6103.6	6478.3
70°	3003.3	3310.8	3549.8	3699.0	3911.8	4126.7	4303.2	4562.0	4732.9	5009.1	5396.5
72.5°	1901.7	2144.3	2437.1	2625.0	2814.2	3031.8	3212.3	3435.4	3594.9	3846.6	4197.5
75°	1022.5	1201.3	1458.5	1637.0	1839.6	2025.6	2236.9	2386.4	2504.4	2703.4	2988.3
77.5°	479.2	588.0	718.2	855.5	992.8	1136.0	1275.3	1396.4	1447.1	1561.0	1729.2
80°	290.8	326.1	364.0	406.4	463.8	510.1	571.4	615.7	618.9	654.9	706.3
82.5°	194.3	207.3	218.8	229.5	244.1	255.6	268.7	284.1	290.4	298.8	315.4
85°	132.6	138.9	141.3	148.0	146.4	150.4	155.5	160.7	163.4	163.0	170.5
87.5°	81.5	84.7	86.3	87.8	86.7	85.1	87.4	90.2	91.0	88.6	89.4
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	725.3	721.7	718.2	715.8	715.0	694.1	684.9	679.0	666.4	656.1	647.8
5°	800.1	792.6	786.6	779.5	775.6	722.5	703.2	689.7	667.5	654.5	642.6
7.5°	920.4	899.4	887.2	873.3	861.4	765.7	733.6	712.6	681.8	664.4	650.9
10°	1056.9	1035.1	1015.8	994.4	975.8	823.0	776.4	743.9	703.2	680.6	662.8
12.5°	1209.2	1187.9	1163.3	1136.0	1112.3	895.9	831.0	784.7	728.9	698.8	673.9
15°	1389.3	1351.7	1322.0	1290.4	1262.7	982.9	894.7	830.6	756.2	715.4	682.2
17.5°	1556.7	1517.1	1476.7	1449.0	1417.0	1080.6	958.8	877.3	778.7	726.1	683.8
20°	1720.1	1677.0	1642.1	1604.9	1571.3	1181.9	1027.2	918.4	793.4	726.5	673.9
22.5°	1864.1	1837.2	1798.4	1758.1	1724.0	1283.2	1091.3	953.2	798.9	717.4	656.5
25°	2027.9	1999.5	1952.0	1917.9	1880.0	1386.5	1154.2	980.1	795.7	700.4	629.6
27.5°	2202.8	2171.2	2122.5	2086.9	2041.0	1493.8	1212.0	999.5	783.9	672.7	593.5
30°	2385.3	2356.4	2308.5	2272.5	2226.2	1607.3	1276.5	1012.6	760.1	634.3	551.6
32.5°	2581.1	2557.0	2509.5	2471.9	2422.5	1730.4	1336.7	1016.5	724.1	588.8	507.3
35°	2767.1	2750.5	2710.5	2675.3	2623.9	1846.7	1400.4	1014.6	681.4	538.9	466.9
37.5°	2976.4	2966.5	2946.7	2902.0	2839.1	2004.6	1476.7	1006.3	629.2	489.5	436.1
40°	3199.6	3200.4	3179.0	3148.6	3090.0	2196.1	1567.7	990.0	572.2	445.9	408.0
42.5°	3435.8	3448.1	3437.8	3416.0	3359.9	2389.2	1676.6	970.2	516.8	403.6	380.3
45°	3706.5	3721.5	3737.3	3705.3	3650.7	2644.0	1819.8	944.5	457.0	368.4	361.3
47.5°	4018.7	4042.4	4056.7	4057.1	4002.5	2959.8	2052.5	929.1	404.0	344.7	352.2
50°	4677.5	4685.0	4718.7	4777.2	4735.3	3690.7	2458.9	919.6	368.0	330.0	345.4
52.5°	5626.8	5709.5	5767.7	5763.7	5706.7	4154.8	2682.8	870.5	346.6	324.5	342.3
55°	6013.4	6116.7	6224.3	6252.8	6208.5	4550.9	2894.5	821.5	336.3	328.4	343.5
57.5°	6528.6	6702.7	6850.3	6912.4	6848.3	5057.8	3173.1	795.7	333.2	339.1	351.0
60°	7130.4	7345.7	7539.6	7651.2	7651.2	5640.2	3461.9	785.1	328.8	354.9	363.6
62.5°	7517.0	7833.2	8126.0	8289.4	8284.7	6045.8	3590.1	748.7	318.9	366.0	381.1
65°	7518.6	7894.5	8267.7	8451.3	8460.8	5996.0	3378.5	661.2	300.7	367.6	398.5
67.5°	6891.8	7292.7	7727.5	7932.9	7980.4	5519.6	2924.6	543.7	271.1	351.8	404.8
70°	5820.7	6212.0	6656.0	6857.8	6942.1	4705.2	2355.6	419.0	233.1	317.0	391.7
72.5°	4585.7	4969.5	5278.6	5426.2	5491.9	3596.5	1715.3	316.6	191.1	267.1	356.5
75°	3246.7	3534.8	3699.0	3731.8	3742.1	2168.0	1042.3	235.4	157.5	207.7	301.1
77.5°	1832.5	1955.9	1942.5	1957.1	1835.2	836.9	453.9	168.6	129.8	157.9	233.5
80°	715.4	737.6	692.9	679.0	622.8	311.4	200.2	117.5	103.7	119.5	163.4
82.5°	315.4	325.7	316.2	318.5	304.7	160.7	119.9	85.1	79.1	87.4	108.4
85°	173.7	176.9	176.1	181.2	173.7	64.1	57.0	52.2	55.4	59.4	69.6
87.5°	84.7	85.5	82.7	87.1	84.3	32.4	28.1	29.7	32.4	33.2	33.2
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°	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	641.8	638.7	639.0	638.3	636.7	636.7
5°	636.3	633.1	633.1	632.3	630.3	630.7
7.5°	641.8	636.7	634.7	631.9	629.2	629.2
10°	648.1	639.0	633.5	628.8	625.2	625.2
12.5°	652.9	638.7	629.6	623.2	619.7	619.7
15°	654.5	635.9	623.2	615.7	612.5	612.1
17.5°	649.3	625.2	609.8	601.1	597.1	595.9
20°	633.5	605.8	587.2	577.3	571.8	569.8
22.5°	609.8	578.1	556.3	546.1	538.9	537.8
25°	576.5	542.5	521.1	511.2	507.3	506.1
27.5°	537.8	506.1	487.9	481.6	478.0	477.6
30°	501.0	474.0	460.6	455.8	451.5	450.7
32.5°	466.5	449.5	444.4	437.6	427.4	426.2
35°	442.0	440.4	436.8	421.8	409.1	405.6
37.5°	427.0	441.6	423.4	393.7	384.6	383.8
40°	418.3	429.3	398.1	387.8	388.6	387.8
42.5°	398.5	409.9	398.9	394.1	397.3	398.1
45°	378.7	391.3	404.8	401.6	409.1	409.1
47.5°	367.6	386.6	404.4	404.4	415.5	419.4
50°	354.9	382.6	398.1	403.6	412.3	409.1
52.5°	354.1	375.9	389.0	398.9	402.8	399.3
55°	355.3	370.4	379.9	390.9	395.7	396.1
57.5°	356.9	367.2	373.5	378.7	392.9	392.9
60°	360.9	364.4	368.0	370.8	389.4	389.8
62.5°	367.2	361.7	360.9	363.6	387.4	385.8
65°	377.1	357.7	351.8	354.5	385.4	380.7
67.5°	390.6	351.8	340.3	342.3	383.8	373.5
70°	402.8	342.3	326.1	324.1	368.8	350.6
72.5°	404.0	331.2	306.3	300.3	320.5	303.1
75°	384.2	323.7	284.5	267.1	264.7	262.3
77.5°	346.2	319.3	259.2	231.9	227.1	228.7
80°	289.6	303.1	228.7	196.3	222.0	219.2
82.5°	216.4	267.5	194.3	173.7	173.3	153.1
85°	120.3	208.5	158.3	130.2	90.6	87.8
87.5°	33.6	115.9	110.8	73.6	50.3	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)