

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: P193961

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193961
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 16948 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 191
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

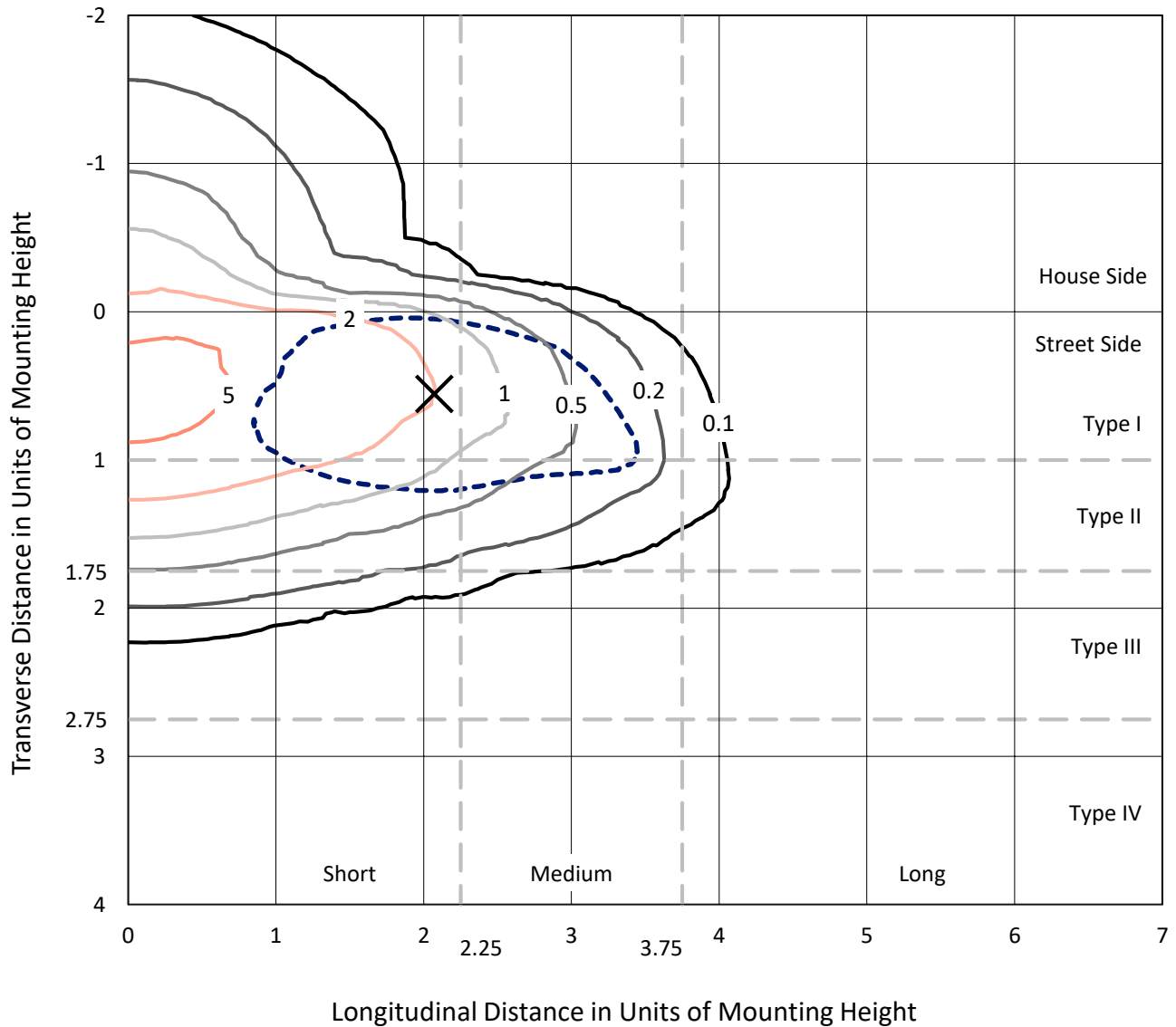


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Iso-Footcandle Lines of Horizontal Illumination

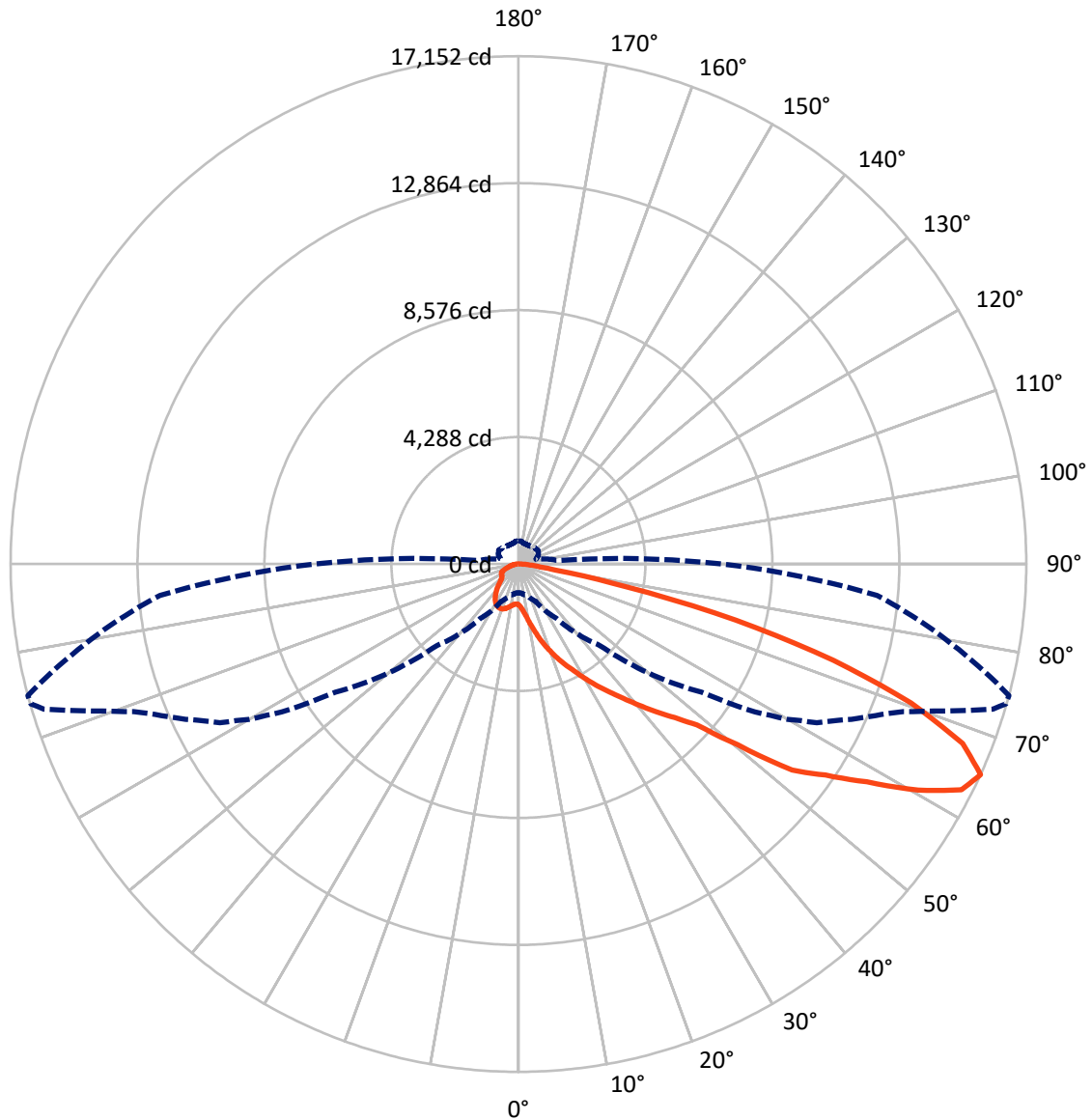
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2613.0	0.0	2613.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14335.0	0.0	14335.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	16948.0	0.0	16948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.0
10°-20°	665.2	3.9
20°-30°	1364.7	8.1
30°-40°	2296.1	13.5
40°-50°	3172.6	18.7
50°-60°	3960.3	23.4
60°-70°	3563.9	21.0
70°-80°	1493.9	8.8
80°-90°	261.0	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°	16948.0	100.0
0°-180°	16948.0	100.0



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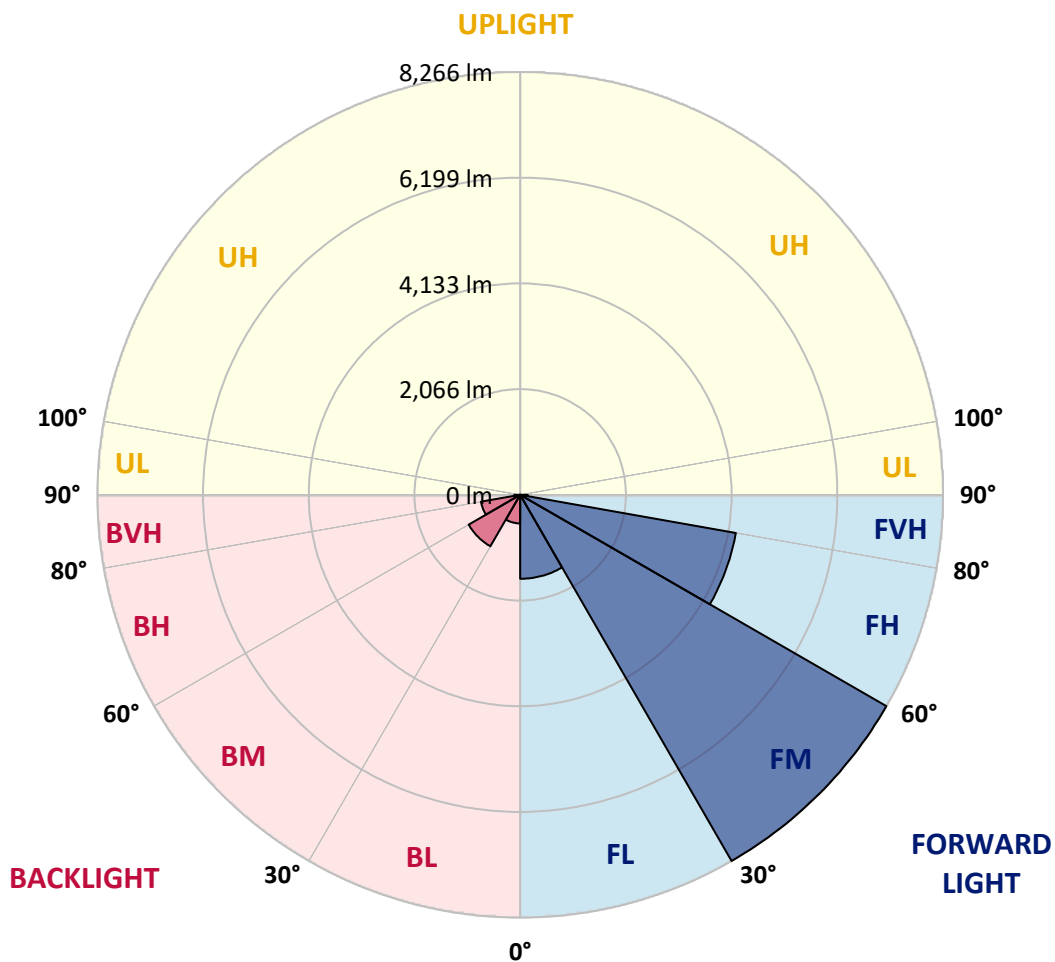
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.4	9.7			
FM (30°-60°)	8265.9	48.8			
FH (60°-80°)	4281.0	25.3			G2/5000
FVH (80°-90°)	146.7	0.9			G2/225
BL (0°-30°)	558.8	3.3	B2/1000		
BM (30°-60°)	1163.1	6.9	B2/2500		
BH (60°-80°)	776.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	114.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
2.5°	1748.8	1729.5	1734.3	1702.2	1662.9	1611.6	1554.6	1553.8	1554.6	1549.0	1528.2
5°	2425.0	2401.7	2392.9	2320.7	2214.8	2064.0	1900.4	1882.7	1875.5	1857.1	1814.5
7.5°	2918.3	2905.5	2891.9	2837.3	2741.1	2572.6	2352.8	2315.1	2279.0	2270.2	2222.0
10°	3236.8	3233.6	3204.7	3190.3	3130.1	2984.1	2769.9	2733.8	2694.5	2680.9	2630.4
12.5°	3488.7	3487.9	3474.3	3478.3	3426.1	3320.2	3135.7	3102.8	3074.0	3032.3	2996.2
15°	3662.8	3663.6	3683.6	3706.1	3698.1	3626.7	3453.4	3439.0	3414.1	3385.2	3342.7
17.5°	3805.6	3809.6	3830.4	3871.3	3915.5	3909.8	3772.7	3760.6	3739.0	3699.7	3677.2
20°	4128.0	4143.3	4103.2	4103.2	4108.0	4129.6	4063.9	4054.2	4023.8	4002.9	3985.2
22.5°	4672.7	4690.4	4599.7	4507.5	4416.8	4351.0	4285.3	4297.3	4276.4	4262.0	4251.6
25°	5380.2	5393.9	5247.1	5091.5	4907.0	4666.3	4503.5	4496.2	4485.0	4476.2	4471.4
27.5°	6046.1	6051.7	5912.9	5685.1	5470.9	5125.2	4724.9	4716.0	4702.4	4685.6	4671.1
30°	6615.6	6614.0	6471.2	6253.8	6024.4	5641.8	5061.0	5033.7	4993.6	4947.9	4912.6
32.5°	7109.0	7106.5	6950.1	6724.7	6484.0	6153.6	5521.4	5465.3	5402.7	5313.7	5259.9
35°	7497.2	7495.6	7348.0	7113.0	6837.0	6635.7	6049.3	5980.3	5900.9	5781.3	5698.7
37.5°	7644.0	7644.0	7561.4	7400.9	7157.1	7019.1	6635.7	6552.2	6467.2	6331.6	6238.6
40°	7558.2	7559.8	7577.4	7547.7	7429.0	7323.1	7182.8	7133.0	7060.0	6938.1	6841.0
42.5°	7270.2	7279.0	7396.1	7539.7	7599.1	7582.2	7668.1	7645.6	7594.3	7500.4	7423.4
45°	6905.2	6932.5	7060.8	7332.0	7646.4	7806.0	8074.8	8077.2	8067.6	8017.0	7957.7
47.5°	6403.8	6442.3	6611.6	6978.2	7535.7	8023.4	8487.9	8509.6	8529.6	8496.7	8469.5
50°	5738.0	5783.7	6037.2	6523.4	7310.3	8248.9	9268.4	9366.3	9457.7	9446.5	9465.0
52.5°	5024.9	5078.6	5389.1	5930.5	6922.8	8301.0	9767.4	9927.0	10086.7	10217.4	10356.2
55°	4381.5	4352.6	4663.1	5233.4	6285.9	8066.0	10215.8	10408.3	10586.4	10746.9	10912.1
57.5°	3509.6	3556.9	3868.1	4432.1	5442.8	7402.5	10524.6	10806.2	11062.1	11327.6	11561.9
60°	2565.4	2612.7	2950.4	3523.2	4527.5	6396.6	10288.8	10715.6	11125.5	11532.2	11849.9
62.5°	1549.0	1584.3	1881.9	2427.4	3491.1	5203.8	9237.9	9797.9	10401.1	10887.2	11374.2
65°	964.2	984.3	1094.2	1394.2	2242.1	3885.0	7547.7	8158.2	8808.0	9424.9	9931.0
67.5°	789.3	796.6	816.6	880.8	1231.4	2533.3	5617.7	6158.4	6744.8	7341.6	7904.7
70°	709.9	705.1	705.1	709.1	789.3	1362.1	3678.0	4030.2	4518.7	5037.7	5552.7
72.5°	640.9	636.1	627.3	615.3	644.2	831.1	1901.2	2166.7	2518.9	2980.1	3473.5
75°	576.0	569.6	559.1	543.9	563.9	627.3	912.9	1024.4	1196.1	1441.5	1716.7
77.5°	508.6	500.6	490.9	479.7	505.4	487.7	535.1	575.2	640.9	719.6	823.0
80°	432.4	425.2	421.9	416.3	446.8	371.4	377.8	402.7	441.2	483.7	531.8
82.5°	338.5	338.5	351.4	353.8	387.5	267.1	282.4	304.0	324.1	346.5	369.0
85°	223.0	224.6	267.9	284.8	305.6	179.7	211.8	219.0	235.0	247.9	257.5
87.5°	69.8	75.4	163.6	181.3	175.7	101.9	130.0	133.2	144.4	153.2	161.2
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
2.5°	1528.2	1518.5	1509.7	1508.9	1502.5	1493.7	1496.9	1483.2	1484.0	1476.8	1468.8
5°	1796.9	1790.5	1758.4	1749.6	1725.5	1710.3	1707.8	1675.8	1671.8	1653.3	1633.2
7.5°	2183.5	2162.7	2117.8	2096.1	2055.2	2024.7	2010.3	1967.8	1946.9	1898.8	1877.1
10°	2588.6	2562.2	2506.8	2476.3	2437.0	2388.1	2361.6	2299.9	2275.8	2231.7	2178.7
12.5°	2964.1	2937.6	2880.6	2857.4	2805.2	2753.1	2724.2	2654.4	2623.1	2552.5	2510.8
15°	3311.4	3284.9	3235.2	3211.1	3159.0	3116.5	3078.0	3009.0	2972.1	2906.3	2851.8
17.5°	3648.3	3620.3	3576.9	3555.3	3504.7	3461.4	3419.7	3354.7	3317.0	3251.3	3202.3
20°	3961.2	3940.3	3909.0	3880.2	3829.6	3790.3	3740.6	3684.4	3629.9	3581.7	3535.2
22.5°	4233.9	4225.9	4192.2	4179.4	4136.1	4102.4	4059.0	4003.7	3964.4	3903.4	3860.1
25°	4469.0	4466.6	4450.5	4446.5	4416.0	4383.9	4374.3	4328.6	4292.5	4238.7	4193.8
27.5°	4671.1	4673.5	4669.5	4680.7	4672.7	4658.3	4659.1	4643.8	4623.0	4578.1	4538.8
30°	4895.7	4882.9	4890.1	4906.2	4911.0	4912.6	4939.0	4947.9	4946.3	4916.6	4897.3
32.5°	5213.4	5182.9	5154.8	5152.4	5168.5	5174.9	5219.8	5243.1	5263.1	5270.3	5273.6
35°	5618.5	5557.5	5499.0	5467.7	5440.4	5447.6	5479.7	5517.4	5561.5	5592.0	5628.1
37.5°	6128.7	6054.1	5950.6	5876.8	5858.3	5818.2	5839.1	5868.8	5912.1	5959.4	6022.0
40°	6747.2	6634.1	6517.7	6419.9	6366.9	6293.1	6292.3	6286.7	6313.2	6357.3	6445.5
42.5°	7342.4	7242.1	7118.6	7015.9	6946.9	6848.2	6828.2	6776.0	6788.1	6826.6	6912.4
45°	7899.9	7817.3	7741.9	7623.2	7564.6	7457.9	7424.2	7362.4	7327.9	7345.6	7431.4
47.5°	8439.8	8386.8	8308.2	8231.2	8186.3	8090.8	8047.5	8003.4	7959.3	7957.7	8047.5
50°	9492.2	9464.2	9371.1	9290.9	9312.5	9195.4	9202.6	9083.9	9137.7	9144.1	9332.6
52.5°	10481.3	10579.2	10648.2	10732.4	10787.0	10797.4	10833.5	10887.2	10952.2	11080.6	11255.4
55°	11047.7	11170.4	11241.8	11306.0	11411.9	11434.3	11494.5	11565.9	11622.8	11767.2	11915.6
57.5°	11720.7	11948.5	12059.2	12161.1	12303.9	12358.4	12458.7	12536.5	12610.3	12781.2	12960.9
60°	12135.4	12413.0	12638.4	12799.6	12978.5	13106.9	13258.5	13380.4	13553.7	13758.3	14026.2
62.5°	11805.7	12213.2	12512.5	12789.2	13032.3	13277.7	13495.1	13723.0	13986.1	14295.7	14711.2
65°	10492.6	10907.3	11419.9	11707.1	12028.7	12407.4	12737.9	13106.9	13465.5	13916.3	14530.8
67.5°	8447.0	8929.1	9505.1	9794.7	10164.5	10587.2	10957.8	11408.7	11827.4	12373.7	13133.3
70°	6088.6	6711.9	7196.4	7498.8	7930.4	8366.0	8723.7	9248.4	9594.9	10154.8	10940.2
72.5°	3855.3	4347.0	4940.6	5321.7	5705.1	6146.3	6512.1	6964.6	7287.8	7798.0	8509.6
75°	2072.8	2435.4	2956.8	3318.6	3729.4	4106.4	4534.7	4838.0	5077.0	5480.5	6058.1
77.5°	971.4	1192.0	1456.0	1734.3	2012.7	2303.1	2585.4	2830.9	2933.6	3164.6	3505.5
80°	589.6	661.0	738.0	823.8	940.2	1034.0	1158.4	1248.2	1254.6	1327.6	1431.9
82.5°	393.9	420.3	443.6	465.3	494.9	518.2	544.7	576.0	588.8	605.6	639.3
85°	268.7	281.6	286.4	300.0	296.8	304.8	315.3	325.7	331.3	330.5	345.7
87.5°	165.2	171.7	174.9	178.1	175.7	172.5	177.3	182.9	184.5	179.7	181.3
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
2.5°	1470.4	1463.2	1456.0	1451.2	1449.5	1407.0	1388.6	1376.5	1350.9	1330.0	1313.2
5°	1622.0	1606.8	1594.7	1580.3	1572.3	1464.8	1425.5	1398.2	1353.3	1326.8	1302.7
7.5°	1865.9	1823.4	1798.5	1770.4	1746.4	1552.2	1487.2	1444.7	1382.2	1346.9	1319.6
10°	2142.6	2098.5	2059.2	2015.9	1978.2	1668.5	1573.9	1508.1	1425.5	1379.8	1343.7
12.5°	2451.5	2408.2	2358.4	2303.1	2254.9	1816.1	1684.6	1590.7	1477.6	1416.7	1366.1
15°	2816.5	2740.3	2680.1	2615.9	2559.8	1992.6	1813.7	1683.8	1533.0	1450.3	1383.0
17.5°	3155.8	3075.6	2993.7	2937.6	2872.6	2190.8	1943.7	1778.4	1578.7	1472.0	1386.2
20°	3487.1	3399.7	3329.1	3253.7	3185.5	2396.1	2082.5	1861.9	1608.4	1472.8	1366.1
22.5°	3779.1	3724.5	3645.9	3564.1	3495.1	2601.5	2212.4	1932.5	1619.6	1454.4	1330.8
25°	4111.2	4053.4	3957.2	3888.2	3811.2	2810.9	2340.0	1987.0	1613.2	1419.9	1276.3
27.5°	4465.8	4401.6	4302.9	4230.7	4137.7	3028.2	2457.1	2026.3	1589.1	1363.7	1203.3
30°	4835.6	4777.0	4679.9	4606.9	4513.1	3258.5	2587.8	2052.8	1541.0	1285.9	1118.2
32.5°	5232.6	5183.7	5087.4	5011.2	4911.0	3507.9	2709.8	2060.8	1468.0	1193.6	1028.4
35°	5609.7	5576.0	5495.0	5423.6	5319.3	3743.8	2838.9	2056.8	1381.4	1092.6	946.6
37.5°	6034.0	6014.0	5973.9	5883.2	5755.7	4063.9	2993.7	2040.0	1275.5	992.3	884.0
40°	6486.5	6488.1	6444.7	6383.0	6264.3	4452.1	3178.3	2007.1	1160.0	904.1	827.1
42.5°	6965.4	6990.2	6969.4	6925.3	6811.3	4843.6	3398.9	1967.0	1047.7	818.2	770.9
45°	7514.1	7544.5	7576.6	7511.6	7400.9	5360.2	3689.2	1914.8	926.5	746.8	732.4
47.5°	8147.0	8195.1	8224.0	8224.8	8114.1	6000.3	4160.9	1883.5	819.0	698.7	713.9
50°	9482.6	9497.9	9566.0	9684.8	9599.7	7482.0	4984.8	1864.3	746.0	669.0	700.3
52.5°	11407.1	11574.7	11692.6	11684.6	11569.1	8422.9	5438.8	1764.8	702.7	657.8	693.9
55°	12190.8	12400.2	12618.3	12676.1	12586.3	9225.9	5868.0	1665.3	681.9	665.8	696.3
57.5°	13235.2	13588.2	13887.4	14013.3	13883.4	10253.5	6432.7	1613.2	675.4	687.5	711.5
60°	14455.3	14891.7	15284.8	15511.0	15511.0	11434.3	7018.3	1591.5	666.6	719.6	737.2
62.5°	15239.1	15880.0	16473.6	16804.9	16795.3	12256.6	7278.2	1517.7	646.6	742.0	772.5
65°	15242.3	16004.4	16760.8	17133.0	17152.3	12155.5	6849.0	1340.4	609.7	745.2	807.8
67.5°	13971.6	14784.2	15665.8	16082.2	16178.4	11189.7	5928.9	1102.2	549.5	713.1	820.6
70°	11800.1	12593.5	13493.5	13902.6	14073.5	9538.8	4775.4	849.5	472.5	642.5	794.2
72.5°	9296.5	10074.6	10701.1	11000.3	11133.5	7291.0	3477.5	641.7	387.5	541.5	722.8
75°	6581.9	7165.9	7498.8	7565.4	7586.3	4395.2	2113.0	477.3	319.3	421.1	610.5
77.5°	3714.9	3965.2	3937.9	3967.6	3720.5	1696.6	920.1	341.7	263.1	320.1	473.3
80°	1450.3	1495.3	1404.6	1376.5	1262.6	631.3	405.9	238.2	210.2	242.3	331.3
82.5°	639.3	660.2	640.9	645.8	617.7	325.7	243.1	172.5	160.4	177.3	219.8
85°	352.2	358.6	357.0	367.4	352.2	130.0	115.5	105.9	112.3	120.3	141.2
87.5°	171.7	173.3	167.7	176.5	170.9	65.8	57.0	60.2	65.8	67.4	67.4
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°	1377.3	1377.3	1377.3	1377.3	1377.3	1377.3
2.5°	1301.1	1294.7	1295.5	1293.9	1290.7	1290.7
5°	1289.9	1283.5	1283.5	1281.9	1277.9	1278.7
7.5°	1301.1	1290.7	1286.7	1281.1	1275.5	1275.5
10°	1314.0	1295.5	1284.3	1274.7	1267.5	1267.5
12.5°	1323.6	1294.7	1276.3	1263.4	1256.2	1256.2
15°	1326.8	1289.1	1263.4	1248.2	1241.8	1241.0
17.5°	1316.4	1267.5	1236.2	1218.5	1210.5	1208.1
20°	1284.3	1228.1	1190.4	1170.4	1159.2	1155.1
22.5°	1236.2	1172.0	1127.9	1107.0	1092.6	1090.2
25°	1168.8	1099.8	1056.5	1036.4	1028.4	1026.0
27.5°	1090.2	1026.0	989.1	976.3	969.0	968.2
30°	1015.6	961.0	933.7	924.1	915.3	913.7
32.5°	945.8	911.3	900.9	887.2	866.4	864.0
35°	896.0	892.8	885.6	855.1	829.5	822.2
37.5°	865.6	895.2	858.3	798.2	779.7	778.1
40°	847.9	870.4	807.0	786.1	787.7	786.1
42.5°	807.8	831.1	808.6	799.0	805.4	807.0
45°	767.7	793.4	820.6	814.2	829.5	829.5
47.5°	745.2	783.7	819.8	819.8	842.3	850.3
50°	719.6	775.7	807.0	818.2	835.9	829.5
52.5°	718.0	762.1	788.5	808.6	816.6	809.4
55°	720.4	750.8	770.1	792.6	802.2	803.0
57.5°	723.6	744.4	757.3	767.7	796.6	796.6
60°	731.6	738.8	746.0	751.6	789.3	790.2
62.5°	744.4	733.2	731.6	737.2	785.3	782.1
65°	764.5	725.2	713.1	718.8	781.3	771.7
67.5°	791.8	713.1	689.9	693.9	778.1	757.3
70°	816.6	693.9	661.0	657.0	747.6	710.7
72.5°	819.0	671.4	620.9	608.9	649.8	614.5
75°	778.9	656.2	576.8	541.5	536.7	531.8
77.5°	701.9	647.4	525.4	470.1	460.5	463.7
80°	587.2	614.5	463.7	397.9	450.0	444.4
82.5°	438.8	542.3	393.9	352.2	351.4	310.4
85°	243.9	422.8	320.9	263.9	183.7	178.1
87.5°	68.2	235.0	224.6	149.2	101.9	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)