

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: P192201

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192201
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15296 lumens
Efficiency: N/A
Efficacy: 123.4 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): 124
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

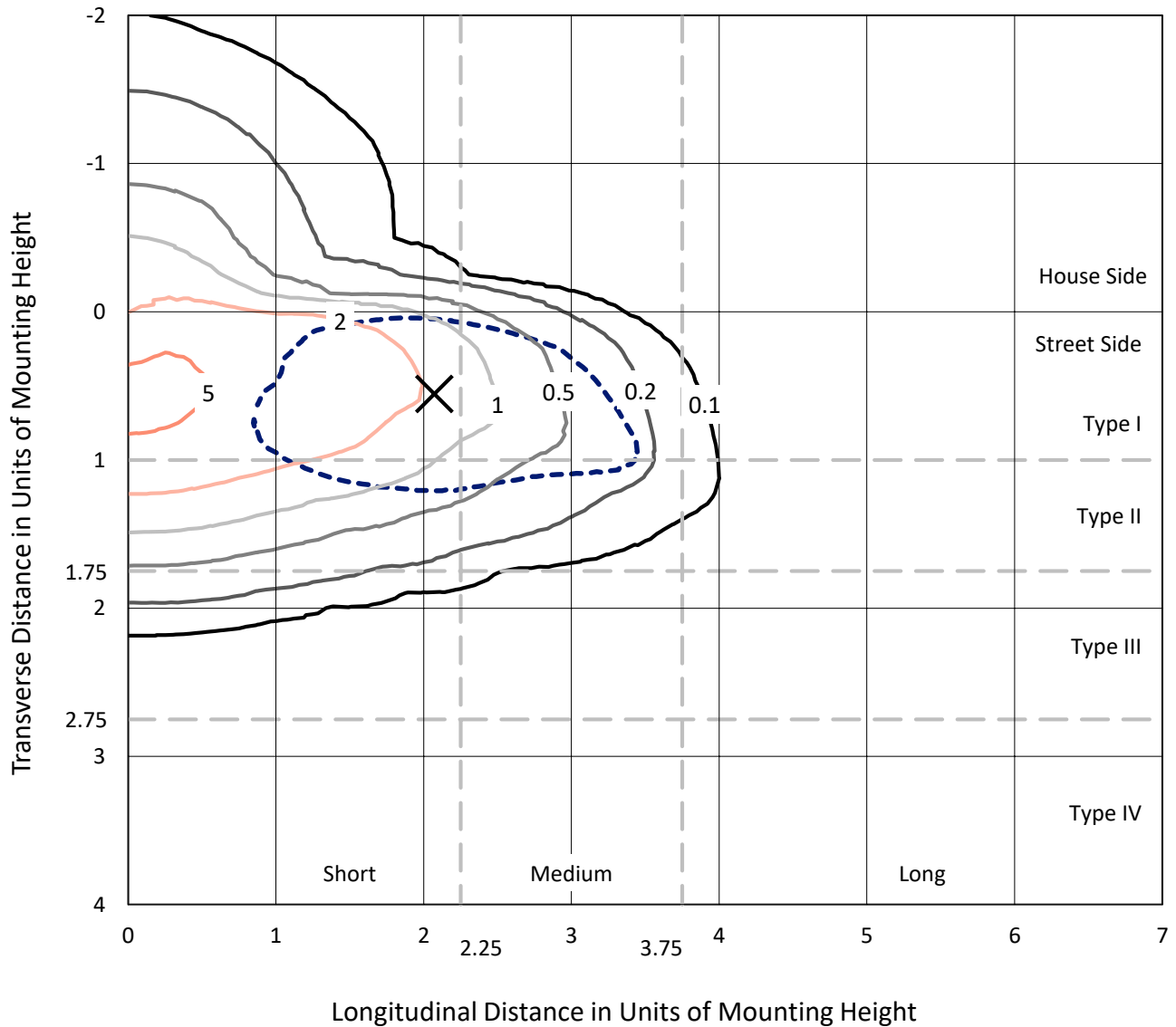


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

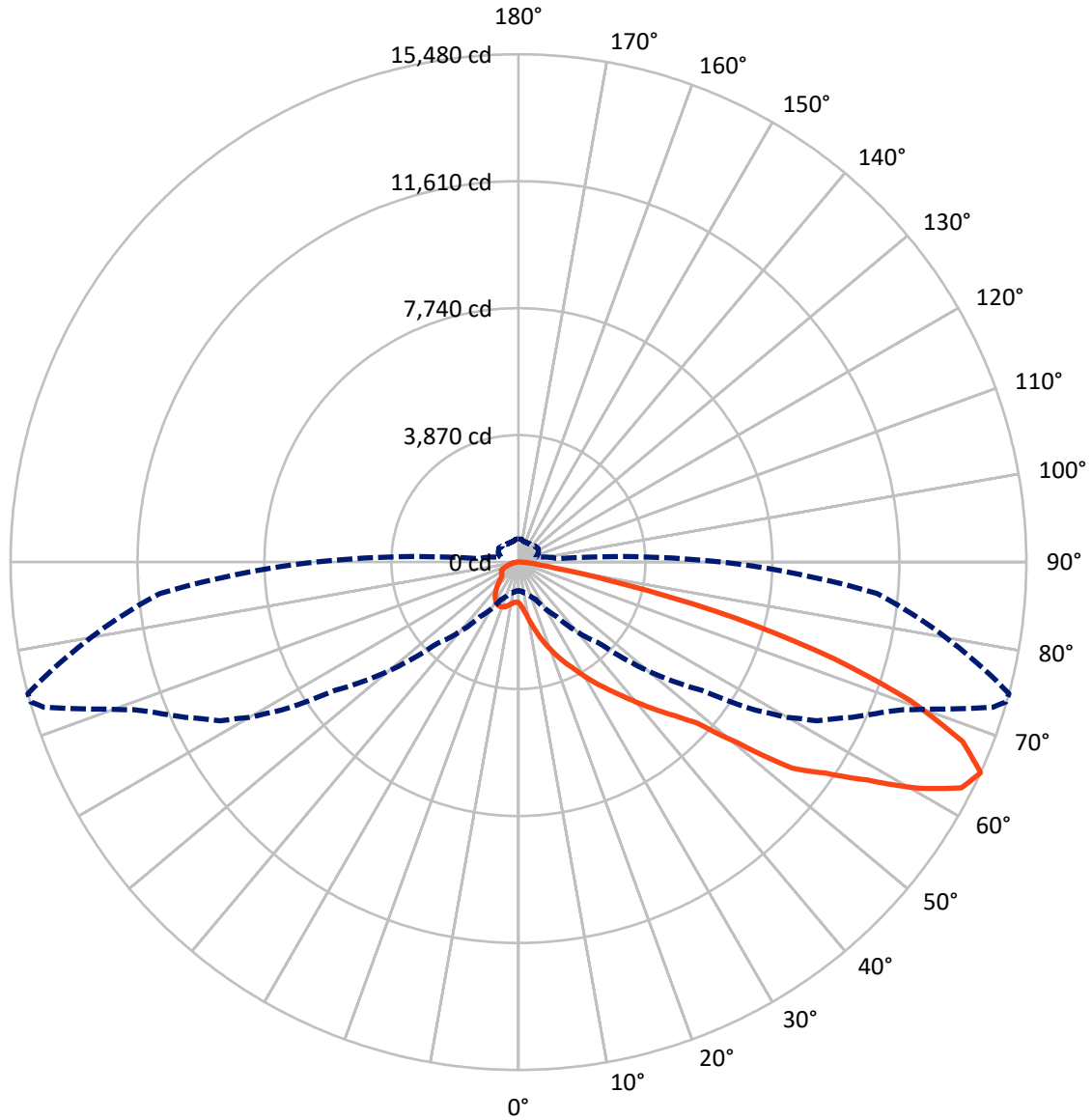


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Full Cutoff

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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	2358.3	0.0	2358.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	12937.7	0.0	12937.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	15296.0	0.0	15296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.0
10°-20°	600.3	3.9
20°-30°	1231.7	8.1
30°-40°	2072.3	13.5
40°-50°	2863.3	18.7
50°-60°	3574.3	23.4
60°-70°	3216.5	21.0
70°-80°	1348.3	8.8
80°-90°	235.6	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°	15296.0	100.0
0°-180°	15296.0	100.0

Coefficient of Utilization



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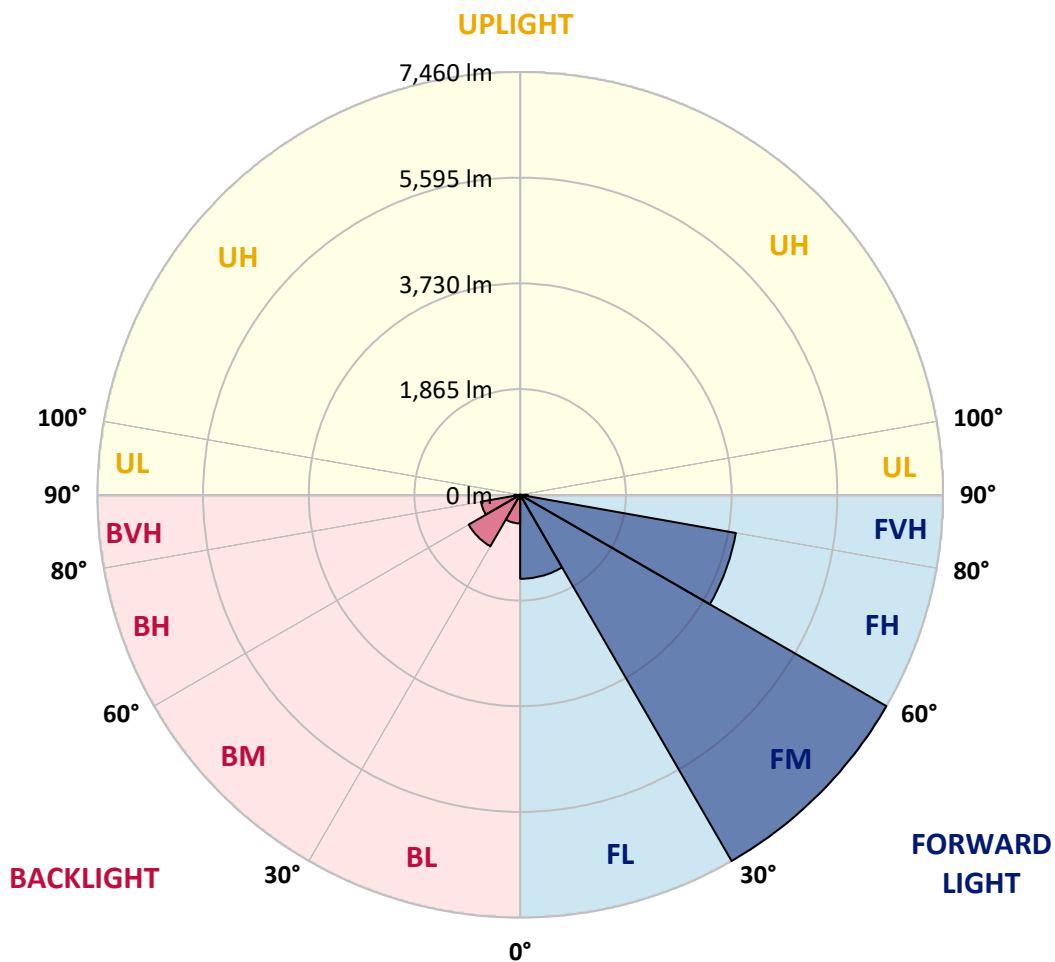
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.4	9.7			
FM (30°-60°)	7460.2	48.8			
FH (60°-80°)	3863.7	25.3			G2/5000
FVH (80°-90°)	132.4	0.9			G2/225
BL (0°-30°)	504.3	3.3	B2/1000		
BM (30°-60°)	1049.7	6.9	B2/2500		
BH (60°-80°)	701.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	103.2	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°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1578.3	1560.9	1565.3	1536.3	1500.8	1454.5	1403.1	1402.4	1403.1	1398.0	1379.2
5°	2188.6	2167.6	2159.7	2094.5	1998.9	1862.8	1715.1	1699.2	1692.7	1676.0	1637.7
7.5°	2633.9	2622.3	2610.0	2560.8	2473.9	2321.8	2123.5	2089.4	2056.9	2048.9	2005.5
10°	2921.3	2918.4	2892.3	2879.3	2825.0	2693.2	2499.9	2467.4	2431.9	2419.6	2374.0
12.5°	3148.6	3147.9	3135.6	3139.2	3092.2	2996.6	2830.1	2800.4	2774.3	2736.7	2704.1
15°	3305.7	3306.5	3324.6	3344.8	3337.6	3273.2	3116.8	3103.7	3081.3	3055.2	3016.9
17.5°	3434.6	3438.2	3457.1	3494.0	3533.8	3528.7	3404.9	3394.1	3374.5	3339.0	3318.8
20°	3725.7	3739.4	3703.2	3703.2	3707.6	3727.1	3667.7	3659.1	3631.5	3612.7	3596.8
22.5°	4217.2	4233.2	4151.4	4068.1	3986.3	3926.9	3867.6	3878.4	3859.6	3846.6	3837.2
25°	4855.8	4868.1	4735.6	4595.2	4428.7	4211.5	4064.5	4058.0	4047.8	4039.9	4035.5
27.5°	5456.7	5461.8	5336.5	5130.9	4937.6	4625.6	4264.3	4256.3	4244.0	4228.8	4215.8
30°	5970.8	5969.3	5840.4	5644.2	5437.2	5091.8	4567.7	4543.0	4506.8	4465.6	4433.7
32.5°	6416.0	6413.8	6272.7	6069.2	5852.0	5553.7	4983.2	4932.6	4876.1	4795.7	4747.2
35°	6766.4	6765.0	6631.8	6419.6	6170.6	5988.9	5459.6	5397.4	5325.7	5217.8	5143.2
37.5°	6898.9	6898.9	6824.3	6679.5	6459.4	6334.9	5988.9	5913.6	5836.8	5714.5	5630.5
40°	6821.4	6822.9	6838.8	6812.0	6704.9	6609.3	6482.6	6437.7	6371.8	6261.8	6174.2
42.5°	6561.5	6569.5	6675.2	6804.8	6858.4	6843.2	6920.6	6900.4	6854.0	6769.3	6699.8
45°	6232.1	6256.7	6372.6	6617.3	6901.1	7045.2	7287.7	7289.9	7281.2	7235.6	7182.0
47.5°	5779.6	5814.4	5967.1	6298.0	6801.2	7241.4	7660.5	7680.1	7698.2	7668.5	7643.9
50°	5178.7	5220.0	5448.8	5887.5	6597.7	7444.8	8365.0	8453.3	8535.9	8525.7	8542.4
52.5°	4535.1	4583.6	4863.8	5352.5	6248.0	7491.9	8815.3	8959.4	9103.5	9221.5	9346.7
55°	3954.4	3928.4	4208.6	4723.3	5673.2	7279.7	9220.0	9393.8	9554.5	9699.3	9848.4
57.5°	3167.5	3210.2	3491.1	4000.1	4912.3	6681.0	9498.8	9752.9	9983.8	10223.5	10434.9
60°	2315.3	2358.0	2662.8	3179.8	4086.2	5773.1	9285.9	9671.1	10041.0	10408.1	10694.8
62.5°	1398.0	1429.9	1698.5	2190.8	3150.8	4696.5	8337.5	8842.8	9387.3	9826.0	10265.5
65°	870.2	888.3	987.5	1258.3	2023.6	3506.3	6812.0	7363.0	7949.4	8506.2	8963.0
67.5°	712.4	718.9	737.0	794.9	1111.3	2286.4	5070.1	5558.1	6087.3	6626.0	7134.2
70°	640.7	636.4	636.4	640.0	712.4	1229.3	3319.5	3637.3	4078.2	4546.7	5011.5
72.5°	578.5	574.1	566.2	555.3	581.4	750.1	1715.9	1955.5	2273.3	2689.6	3134.9
75°	519.8	514.0	504.6	490.9	509.0	566.2	823.9	924.5	1079.5	1301.0	1549.3
77.5°	459.0	451.8	443.1	432.9	456.1	440.2	482.9	519.1	578.5	649.4	742.8
80°	390.2	383.7	380.8	375.8	403.3	335.2	341.0	363.4	398.2	436.6	480.0
82.5°	305.5	305.5	317.1	319.3	349.7	241.1	254.8	274.4	292.5	312.8	333.0
85°	201.3	202.7	241.8	257.0	275.8	162.2	191.1	197.6	212.1	223.7	232.4
87.5°	63.0	68.1	147.7	163.6	158.6	91.9	117.3	120.2	130.3	138.3	145.5
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°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1379.2	1370.5	1362.6	1361.8	1356.0	1348.1	1351.0	1338.7	1339.4	1332.9	1325.6
5°	1621.7	1615.9	1587.0	1579.0	1557.3	1543.5	1541.4	1512.4	1508.8	1492.1	1474.0
7.5°	1970.7	1951.9	1911.3	1891.8	1854.9	1827.4	1814.3	1775.9	1757.1	1713.7	1694.1
10°	2336.3	2312.4	2262.5	2235.0	2199.5	2155.3	2131.4	2075.7	2054.0	2014.1	1966.4
12.5°	2675.1	2651.3	2599.9	2578.9	2531.8	2484.7	2458.7	2395.7	2367.5	2303.7	2266.1
15°	2988.6	2964.7	2919.9	2898.1	2851.1	2812.7	2778.0	2715.7	2682.4	2623.0	2573.8
17.5°	3292.7	3267.4	3228.3	3208.7	3163.1	3124.0	3086.4	3027.7	2993.7	2934.3	2890.2
20°	3575.1	3556.2	3528.0	3501.9	3456.3	3420.9	3376.0	3325.3	3276.1	3232.6	3190.6
22.5°	3821.2	3814.0	3783.6	3772.0	3732.9	3702.5	3663.4	3613.4	3578.0	3522.9	3483.8
25°	4033.4	4031.2	4016.7	4013.1	3985.6	3956.6	3947.9	3906.7	3874.1	3825.6	3785.0
27.5°	4215.8	4218.0	4214.4	4224.5	4217.2	4204.2	4204.9	4191.2	4172.4	4131.8	4096.3
30°	4418.5	4406.9	4413.4	4427.9	4432.3	4433.7	4457.6	4465.6	4464.1	4437.3	4420.0
32.5°	4705.2	4677.7	4652.4	4650.2	4664.7	4670.5	4711.0	4732.0	4750.1	4756.6	4759.5
35°	5070.8	5015.8	4963.0	4934.7	4910.1	4916.6	4945.6	4979.6	5019.4	5046.9	5079.5
37.5°	5531.3	5464.0	5370.6	5304.0	5287.3	5251.1	5269.9	5296.7	5335.8	5378.5	5435.0
40°	6089.5	5987.4	5882.4	5794.1	5746.3	5679.7	5679.0	5673.9	5697.8	5737.6	5817.3
42.5°	6626.7	6536.2	6424.7	6332.0	6269.8	6180.7	6162.6	6115.6	6126.4	6161.2	6238.6
45°	7129.9	7055.3	6987.2	6880.1	6827.2	6730.9	6700.5	6644.8	6613.7	6629.6	6707.1
47.5°	7617.1	7569.3	7498.4	7428.9	7388.3	7302.2	7263.1	7223.3	7183.4	7182.0	7263.1
50°	8567.0	8541.6	8457.7	8385.3	8404.8	8299.1	8305.6	8198.5	8247.0	8252.8	8422.9
52.5°	9459.7	9548.0	9610.3	9686.3	9735.5	9744.9	9777.5	9826.0	9884.6	10000.5	10158.3
55°	9970.8	10081.6	10146.0	10203.9	10299.5	10319.8	10374.1	10438.5	10489.9	10620.2	10754.2
57.5°	10578.2	10783.8	10883.8	10975.7	11104.6	11153.8	11244.3	11314.5	11381.1	11535.3	11697.5
60°	10952.5	11203.0	11406.5	11552.0	11713.5	11829.3	11966.1	12076.2	12232.6	12417.2	12659.0
62.5°	10655.0	11022.8	11292.8	11542.6	11762.0	11983.5	12179.7	12385.3	12622.8	12902.2	13277.3
65°	9469.8	9844.1	10306.7	10565.9	10856.2	11198.0	11496.3	11829.3	12152.9	12559.8	13114.4
67.5°	7623.6	8058.7	8578.6	8839.9	9173.7	9555.2	9889.7	10296.6	10674.5	11167.6	11853.2
70°	5495.1	6057.6	6494.9	6767.9	7157.4	7550.5	7873.4	8346.9	8659.7	9165.0	9873.8
72.5°	3479.5	3923.3	4459.1	4803.0	5149.0	5547.2	5877.4	6285.7	6577.5	7037.9	7680.1
75°	1870.8	2198.0	2668.6	2995.2	3365.8	3706.1	4092.7	4366.4	4582.1	4946.3	5467.6
77.5°	876.8	1075.9	1314.0	1565.3	1816.5	2078.6	2333.4	2555.0	2647.6	2856.1	3163.8
80°	532.1	596.6	666.1	743.5	848.5	933.2	1045.4	1126.5	1132.3	1198.2	1292.3
82.5°	355.5	379.4	400.4	419.9	446.7	467.7	491.6	519.8	531.4	546.6	577.0
85°	242.5	254.1	258.5	270.8	267.9	275.1	284.5	293.9	299.0	298.3	312.0
87.5°	149.1	154.9	157.8	160.7	158.6	155.7	160.0	165.1	166.5	162.2	163.6
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°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1327.1	1320.6	1314.0	1309.7	1308.3	1269.9	1253.2	1242.4	1219.2	1200.4	1185.2
5°	1463.9	1450.2	1439.3	1426.3	1419.0	1322.0	1286.5	1261.9	1221.4	1197.5	1175.8
7.5°	1684.0	1645.6	1623.2	1597.8	1576.1	1400.9	1342.3	1303.9	1247.4	1215.6	1191.0
10°	1933.8	1894.0	1858.5	1819.4	1785.4	1505.9	1420.5	1361.1	1286.5	1245.3	1212.7
12.5°	2212.5	2173.4	2128.5	2078.6	2035.1	1639.1	1520.4	1435.7	1333.6	1278.6	1233.0
15°	2541.9	2473.2	2418.9	2360.9	2310.3	1798.4	1636.9	1519.7	1383.5	1309.0	1248.2
17.5°	2848.2	2775.8	2701.9	2651.3	2592.6	1977.2	1754.2	1605.1	1424.8	1328.5	1251.1
20°	3147.2	3068.3	3004.6	2936.5	2875.0	2162.6	1879.5	1680.4	1451.6	1329.2	1233.0
22.5°	3410.7	3361.5	3290.5	3216.7	3154.4	2347.9	1996.8	1744.1	1461.7	1312.6	1201.1
25°	3710.5	3658.3	3571.4	3509.2	3439.7	2536.9	2111.9	1793.3	1455.9	1281.5	1151.9
27.5°	4030.5	3972.5	3883.5	3818.3	3734.3	2733.1	2217.6	1828.8	1434.2	1230.8	1086.0
30°	4364.2	4311.4	4223.8	4157.9	4073.2	2940.9	2335.6	1852.7	1390.8	1160.6	1009.2
32.5°	4722.6	4678.4	4591.6	4522.8	4432.3	3166.0	2445.6	1859.9	1324.9	1077.3	928.2
35°	5062.9	5032.5	4959.3	4894.9	4800.8	3378.9	2562.2	1856.3	1246.7	986.1	854.3
37.5°	5445.9	5427.8	5391.6	5309.8	5194.6	3667.7	2701.9	1841.1	1151.1	895.6	797.8
40°	5854.2	5855.6	5816.5	5760.8	5653.6	4018.2	2868.5	1811.4	1046.9	815.9	746.4
42.5°	6286.4	6308.9	6290.0	6250.2	6147.4	4371.5	3067.5	1775.2	945.5	738.5	695.8
45°	6781.6	6809.1	6838.1	6779.5	6679.5	4837.7	3329.6	1728.2	836.2	674.0	661.0
47.5°	7352.9	7396.3	7422.4	7423.1	7323.2	5415.5	3755.3	1699.9	739.2	630.6	644.4
50°	8558.3	8572.1	8633.6	8740.7	8664.0	6752.7	4498.9	1682.6	673.3	603.8	632.0
52.5°	10295.2	10446.5	10552.9	10545.7	10441.4	7601.9	4908.7	1592.8	634.2	593.7	626.3
55°	11002.5	11191.5	11388.4	11440.5	11359.4	8326.6	5296.0	1503.0	615.4	600.9	628.4
57.5°	11945.1	12263.7	12533.7	12647.4	12530.1	9254.1	5805.7	1455.9	609.6	620.5	642.2
60°	13046.3	13440.2	13794.9	13999.1	13999.1	10319.8	6334.2	1436.4	601.6	649.4	665.3
62.5°	13753.7	14332.1	14867.9	15166.9	15158.2	11061.9	6568.8	1369.8	583.5	669.7	697.2
65°	13756.6	14444.3	15127.1	15463.0	15480.4	10970.6	6181.4	1209.8	550.2	672.6	729.1
67.5°	12609.8	13343.2	14138.8	14514.6	14601.5	10099.0	5351.0	994.8	495.9	643.6	740.6
70°	10649.9	11365.9	12178.3	12547.5	12701.7	8609.0	4309.9	766.7	426.4	579.9	716.8
72.5°	8390.3	9092.6	9658.0	9928.1	10048.3	6580.4	3138.5	579.2	349.7	488.7	652.3
75°	5940.3	6467.4	6767.9	6828.0	6846.8	3966.7	1907.0	430.8	288.1	380.1	551.0
77.5°	3352.8	3578.7	3554.1	3580.9	3357.9	1531.2	830.4	308.4	237.5	288.9	427.2
80°	1309.0	1349.5	1267.7	1242.4	1139.6	569.8	366.3	215.0	189.7	218.6	299.0
82.5°	577.0	595.8	578.5	582.8	557.5	293.9	219.4	155.7	144.8	160.0	198.4
85°	317.8	323.6	322.2	331.6	317.8	117.3	104.3	95.6	101.4	108.6	127.4
87.5°	154.9	156.4	151.3	159.3	154.2	59.4	51.4	54.3	59.4	60.8	60.8
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):

	135°	145°	155°	165°	175°	180°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1174.3	1168.5	1169.2	1167.8	1164.9	1164.9
5°	1164.2	1158.4	1158.4	1156.9	1153.3	1154.0
7.5°	1174.3	1164.9	1161.3	1156.2	1151.1	1151.1
10°	1185.9	1169.2	1159.1	1150.4	1143.9	1143.9
12.5°	1194.6	1168.5	1151.9	1140.3	1133.8	1133.8
15°	1197.5	1163.5	1140.3	1126.5	1120.7	1120.0
17.5°	1188.1	1143.9	1115.7	1099.7	1092.5	1090.3
20°	1159.1	1108.4	1074.4	1056.3	1046.2	1042.5
22.5°	1115.7	1057.8	1017.9	999.1	986.1	983.9
25°	1054.9	992.6	953.5	935.4	928.2	926.0
27.5°	983.9	926.0	892.7	881.1	874.6	873.9
30°	916.6	867.3	842.7	834.0	826.1	824.6
32.5°	853.6	822.5	813.0	800.7	781.9	779.7
35°	808.7	805.8	799.3	771.8	748.6	742.1
37.5°	781.2	808.0	774.7	720.4	703.7	702.3
40°	765.3	785.5	728.3	709.5	711.0	709.5
42.5°	729.1	750.1	729.8	721.1	726.9	728.3
45°	692.9	716.0	740.6	734.9	748.6	748.6
47.5°	672.6	707.3	739.9	739.9	760.2	767.4
50°	649.4	700.1	728.3	738.5	754.4	748.6
52.5°	648.0	687.8	711.7	729.8	737.0	730.5
55°	650.1	677.7	695.0	715.3	724.0	724.7
57.5°	653.0	671.9	683.4	692.9	718.9	718.9
60°	660.3	666.8	673.3	678.4	712.4	713.1
62.5°	671.9	661.7	660.3	665.3	708.8	705.9
65°	690.0	654.5	643.6	648.7	705.2	696.5
67.5°	714.6	643.6	622.6	626.3	702.3	683.4
70°	737.0	626.3	596.6	592.9	674.8	641.5
72.5°	739.2	606.0	560.4	549.5	586.4	554.6
75°	703.0	592.2	520.5	488.7	484.3	480.0
77.5°	633.5	584.3	474.2	424.3	415.6	418.5
80°	530.0	554.6	418.5	359.1	406.2	401.1
82.5°	396.0	489.4	355.5	317.8	317.1	280.2
85°	220.1	381.5	289.6	238.2	165.8	160.7
87.5°	61.5	212.1	202.7	134.7	91.9	95.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)