

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: P269181

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269181
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16448.6 lumens
Efficiency: N/A
Efficacy: 99.1 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

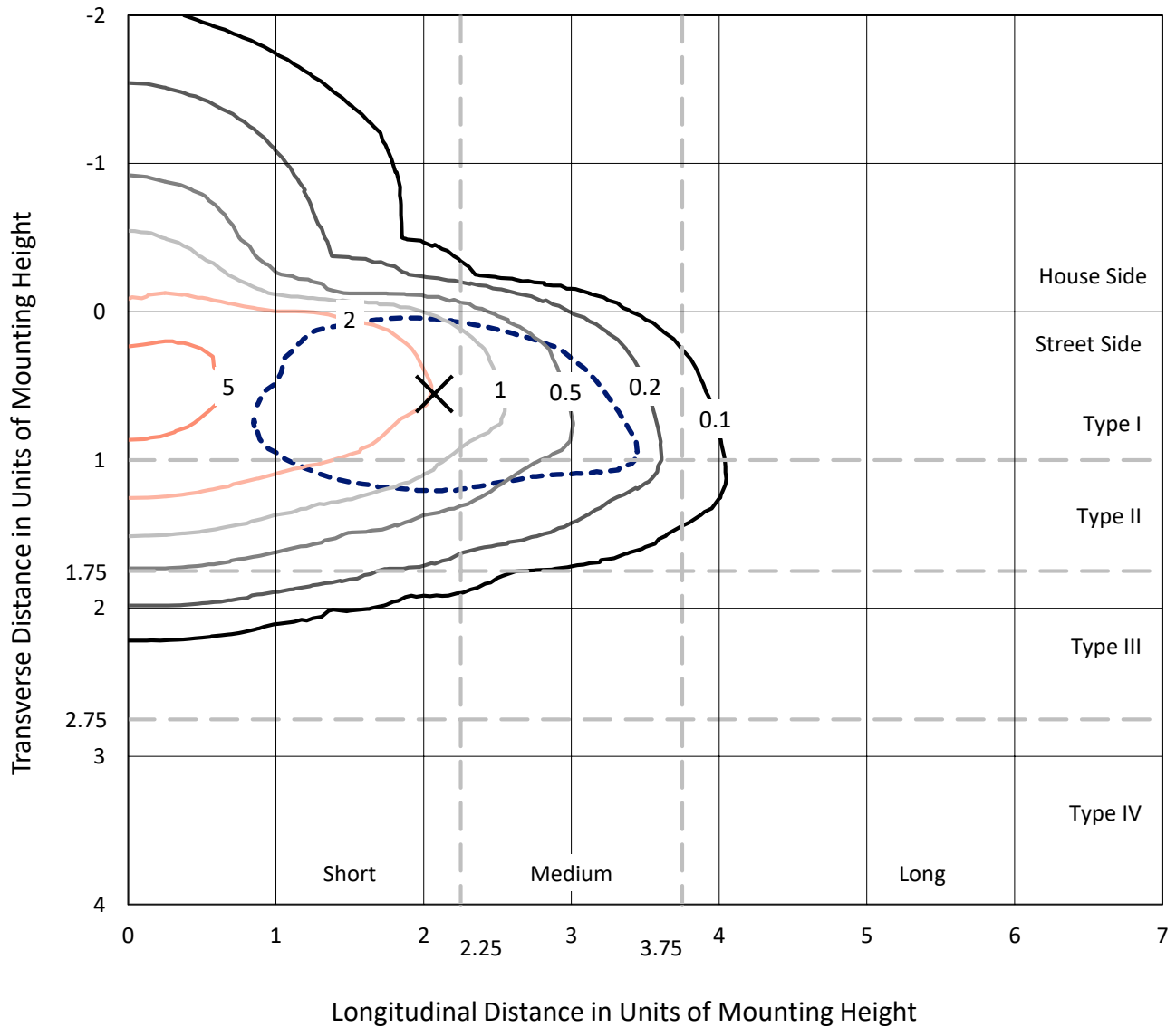
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

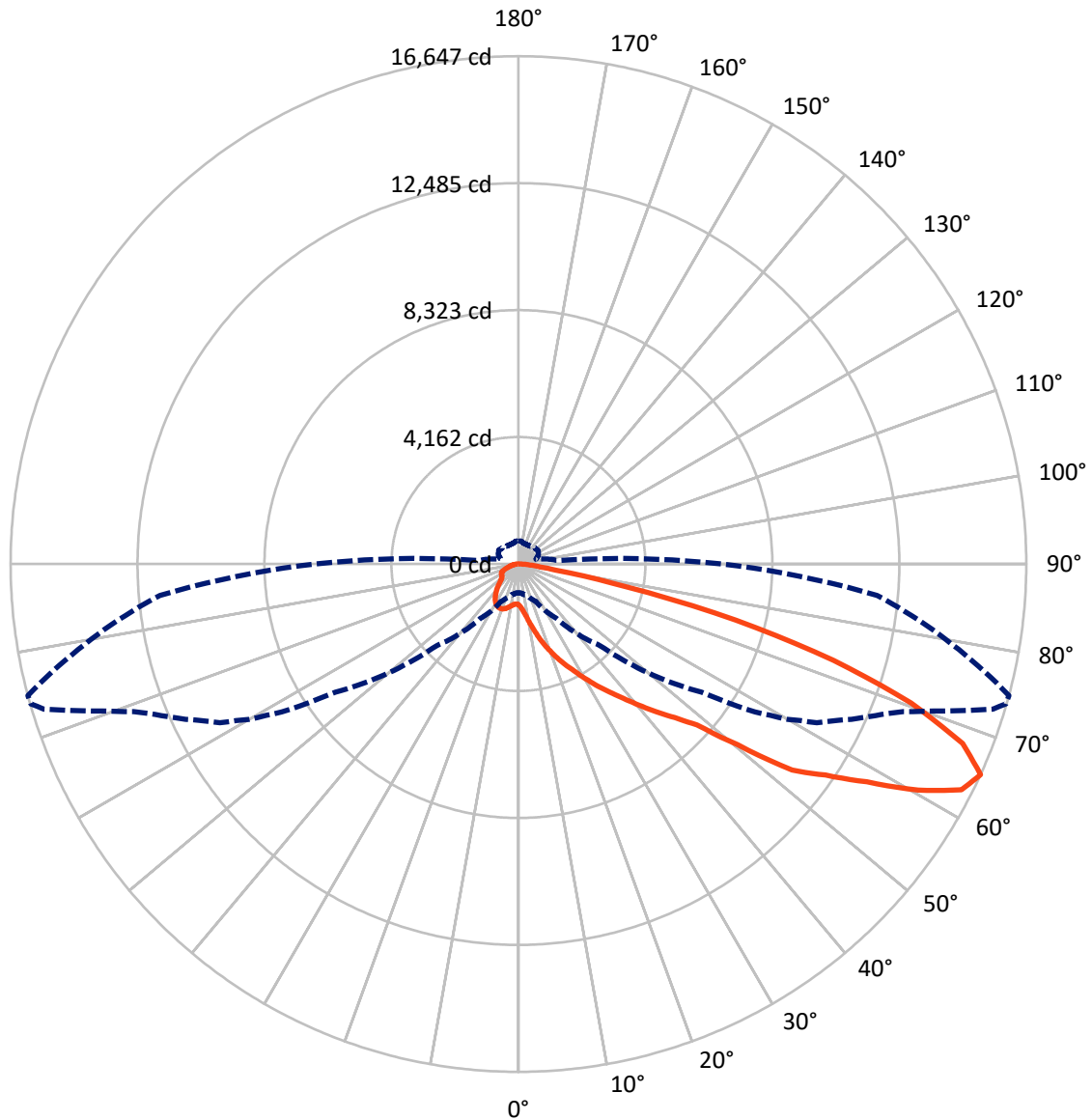
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2536.0	0.0	2536.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	13912.6	0.0	13912.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	16448.6	0.0	16448.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.0
10°-20°	645.6	3.9
20°-30°	1324.5	8.1
30°-40°	2228.5	13.5
40°-50°	3079.1	18.7
50°-60°	3843.6	23.4
60°-70°	3458.9	21.0
70°-80°	1449.9	8.8
80°-90°	253.3	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°	16448.6	100.0
0°-180°	16448.6	100.0



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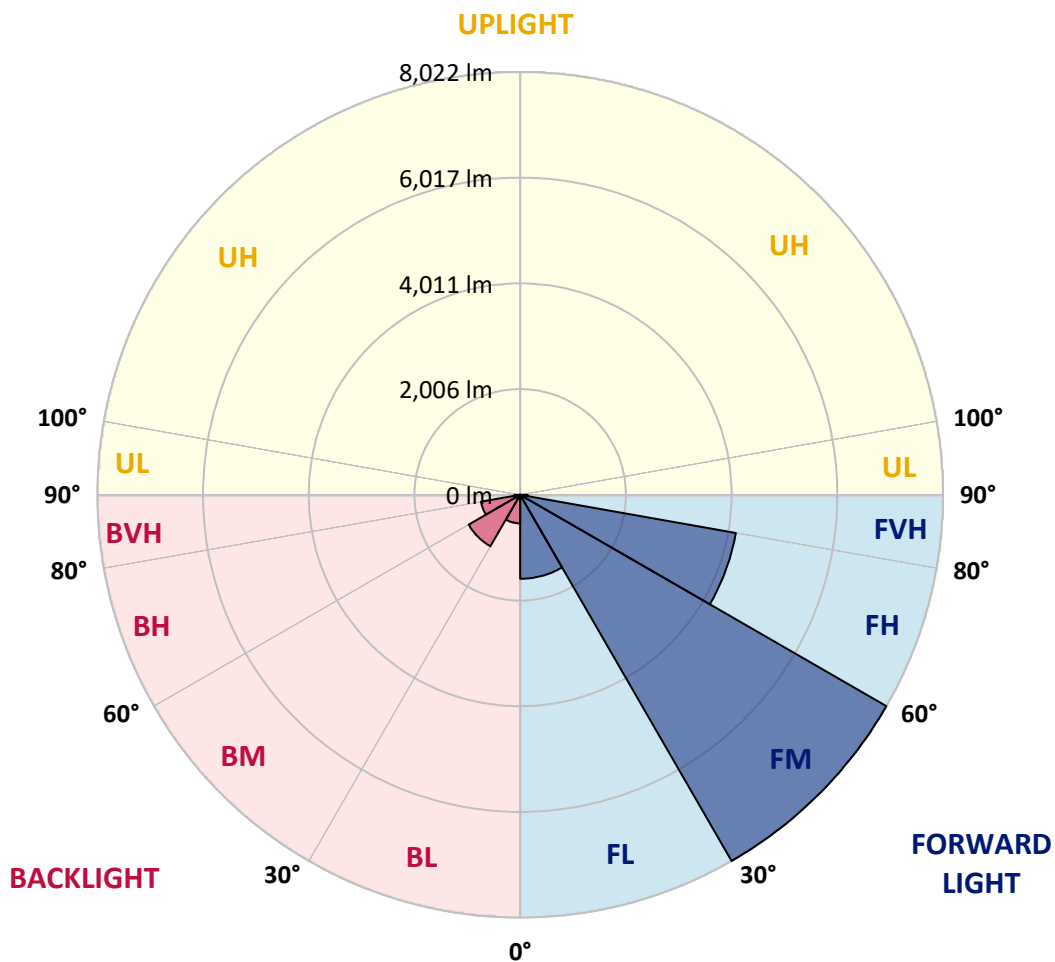
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.0	9.7			
FM (30°-60°)	8022.4	48.8			
FH (60°-80°)	4154.9	25.3			G2/5000
FVH (80°-90°)	142.4	0.9			G2/225
BL (0°-30°)	542.3	3.3	B2/1000		
BM (30°-60°)	1128.8	6.9	B2/2500		
BH (60°-80°)	753.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	110.9	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°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1697.3	1678.6	1683.2	1652.2	1614.0	1564.0	1508.9	1508.1	1508.9	1503.4	1483.1
5°	2353.6	2331.0	2322.4	2252.3	2149.6	2003.2	1844.4	1827.2	1820.2	1802.3	1761.0
7.5°	2832.4	2819.9	2806.7	2753.8	2660.3	2496.7	2283.5	2246.9	2211.8	2203.4	2156.7
10°	3141.5	3138.3	3110.3	3096.3	3037.9	2896.1	2688.4	2653.4	2615.1	2601.9	2552.9
12.5°	3385.9	3385.2	3371.9	3375.8	3325.2	3222.4	3043.4	3011.4	2983.5	2942.8	2907.9
15°	3554.9	3555.6	3575.1	3597.0	3589.1	3519.7	3351.7	3337.7	3313.5	3285.6	3244.1
17.5°	3693.4	3697.3	3717.5	3757.3	3800.1	3794.6	3661.5	3649.9	3628.9	3590.6	3568.8
20°	4006.4	4021.3	3982.2	3982.2	3986.9	4008.0	3944.1	3934.8	3905.2	3885.0	3867.8
22.5°	4535.1	4552.3	4464.1	4374.7	4286.7	4222.8	4159.1	4170.7	4150.4	4136.4	4126.4
25°	5221.7	5235.0	5092.5	4941.4	4762.4	4528.9	4370.8	4363.7	4352.8	4344.4	4339.6
27.5°	5867.9	5873.4	5738.7	5517.6	5309.7	4974.2	4585.7	4577.0	4563.8	4547.5	4533.4
30°	6420.6	6419.1	6280.5	6069.6	5846.9	5475.4	4911.8	4885.4	4846.4	4802.1	4767.8
32.5°	6899.5	6897.1	6745.4	6526.5	6292.9	5972.2	5358.7	5304.2	5243.5	5157.1	5105.0
35°	7276.4	7274.7	7131.6	6903.4	6635.6	6440.2	5871.1	5804.0	5727.1	5611.1	5530.9
37.5°	7418.8	7418.8	7338.7	7182.8	6946.2	6812.2	6440.2	6359.2	6276.6	6145.0	6054.8
40°	7335.5	7337.0	7354.2	7325.4	7210.2	7107.4	6971.1	6922.9	6852.0	6733.6	6639.5
42.5°	7055.9	7064.5	7178.3	7317.6	7375.2	7358.8	7442.2	7420.3	7370.6	7279.4	7204.6
45°	6701.7	6728.2	6852.8	7116.0	7421.1	7576.0	7836.9	7839.1	7829.8	7780.8	7723.2
47.5°	6215.2	6252.6	6416.9	6772.6	7313.7	7787.0	8237.7	8258.8	8278.3	8246.4	8219.9
50°	5569.0	5613.2	5859.4	6331.2	7095.0	8005.9	8995.4	9090.3	9179.2	9168.2	9186.1
52.5°	4876.8	4929.0	5230.3	5755.8	6718.9	8056.4	9479.6	9634.5	9789.5	9916.4	10051.0
55°	4252.4	4224.4	4525.8	5079.2	6100.7	7828.3	9914.9	10101.7	10274.5	10430.2	10590.6
57.5°	3406.2	3452.0	3754.1	4301.4	5282.5	7184.5	10214.5	10487.8	10736.2	10993.8	11221.2
60°	2489.8	2535.7	2863.4	3419.4	4394.1	6208.1	9985.6	10399.9	10797.6	11192.4	11500.7
62.5°	1503.4	1537.5	1826.4	2355.8	3388.2	5050.5	8965.8	9509.2	10094.7	10566.5	11039.0
65°	935.9	955.3	1061.9	1353.0	2176.1	3770.5	7325.4	7917.8	8548.5	9147.3	9638.5
67.5°	766.1	773.1	792.6	854.8	1195.0	2458.7	5452.2	5977.0	6545.9	7125.3	7671.9
70°	689.0	684.4	684.4	688.2	766.1	1321.9	3569.7	3911.4	4385.5	4889.3	5389.1
72.5°	622.0	617.3	608.8	597.2	625.2	806.6	1845.2	2102.8	2444.6	2892.4	3371.1
75°	558.9	552.7	542.7	527.8	547.2	608.8	886.0	994.2	1160.8	1399.0	1666.0
77.5°	493.6	485.9	476.6	465.6	490.5	473.3	519.3	558.2	622.0	698.3	798.9
80°	419.7	412.6	409.4	404.1	433.6	360.5	366.7	390.9	428.2	469.5	516.2
82.5°	328.5	328.5	340.9	343.3	376.0	259.3	274.1	295.1	314.5	336.3	358.2
85°	216.4	218.0	260.0	276.4	296.6	174.5	205.5	212.5	228.1	240.6	249.9
87.5°	67.7	73.2	158.8	176.0	170.5	98.9	126.1	129.3	140.1	148.7	156.5
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°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1483.1	1473.8	1465.2	1464.4	1458.2	1449.7	1452.7	1439.5	1440.3	1433.3	1425.5
5°	1744.0	1737.7	1706.6	1698.1	1674.7	1659.9	1657.6	1626.4	1622.5	1604.6	1585.1
7.5°	2119.2	2099.0	2055.3	2034.3	1994.6	1965.0	1951.1	1909.7	1889.6	1842.9	1821.9
10°	2512.4	2486.7	2433.0	2403.3	2365.2	2317.7	2292.0	2232.1	2208.8	2166.0	2114.5
12.5°	2876.7	2851.0	2795.7	2773.2	2722.7	2672.0	2643.9	2576.2	2545.8	2477.3	2436.8
15°	3213.9	3188.2	3139.8	3116.5	3065.9	3024.7	2987.4	2920.3	2884.5	2820.7	2767.8
17.5°	3540.8	3513.6	3471.5	3450.5	3401.5	3359.4	3319.0	3255.8	3219.3	3155.4	3108.0
20°	3844.4	3824.3	3793.8	3765.9	3716.7	3678.6	3630.4	3575.9	3523.0	3476.3	3431.0
22.5°	4109.1	4101.4	4068.8	4056.2	4014.2	3981.5	3939.4	3885.7	3847.6	3788.4	3746.4
25°	4337.2	4335.0	4319.4	4315.5	4286.0	4254.7	4245.4	4201.1	4166.0	4113.9	4070.2
27.5°	4533.4	4535.8	4531.9	4542.8	4535.1	4521.0	4521.8	4507.1	4486.8	4443.1	4405.0
30°	4751.4	4739.0	4746.0	4761.6	4766.2	4767.8	4793.5	4802.1	4800.5	4771.7	4753.0
32.5°	5059.9	5030.1	5002.9	5000.7	5016.1	5022.5	5066.0	5088.5	5108.0	5115.0	5118.2
35°	5452.9	5393.9	5336.9	5306.6	5280.1	5287.2	5318.2	5354.8	5397.6	5427.3	5462.4
37.5°	5948.0	5875.8	5775.3	5703.7	5685.7	5646.8	5667.0	5695.9	5738.0	5783.8	5844.6
40°	6548.4	6438.6	6325.8	6230.7	6179.4	6107.8	6106.9	6101.5	6127.2	6170.0	6255.6
42.5°	7126.1	7028.8	6908.9	6809.2	6742.1	6646.5	6626.9	6576.4	6588.1	6625.4	6708.7
45°	7667.2	7586.9	7513.8	7398.5	7341.7	7238.2	7205.5	7145.5	7112.1	7129.2	7212.5
47.5°	8191.1	8139.7	8063.5	7988.6	7945.1	7852.4	7810.5	7767.6	7724.7	7723.2	7810.5
50°	9212.6	9185.3	9095.0	9017.1	9038.1	8924.5	8931.5	8816.2	8868.4	8874.6	9057.6
52.5°	10172.4	10267.4	10334.5	10416.1	10469.1	10479.3	10514.3	10566.5	10629.6	10754.1	10923.7
55°	10722.2	10841.3	10910.5	10972.8	11075.7	11097.4	11155.8	11225.1	11280.3	11420.5	11564.6
57.5°	11375.3	11596.5	11703.8	11802.8	11941.3	11994.3	12091.6	12167.2	12238.8	12404.7	12579.0
60°	11777.9	12047.3	12266.0	12422.5	12596.2	12720.7	12867.9	12986.2	13154.3	13352.9	13612.9
62.5°	11457.9	11853.3	12143.7	12412.4	12648.2	12886.5	13097.5	13318.6	13574.0	13874.5	14277.8
65°	10183.5	10585.9	11083.4	11362.1	11674.4	12041.8	12362.6	12720.7	13068.7	13506.2	14102.6
67.5°	8198.1	8665.9	9225.1	9506.0	9864.9	10275.4	10634.9	11072.5	11478.9	12009.1	12746.4
70°	5909.2	6514.1	6984.3	7277.9	7696.7	8119.5	8466.7	8975.9	9312.2	9855.7	10617.8
72.5°	3741.7	4219.0	4795.2	5164.9	5537.1	5965.3	6320.2	6759.3	7073.2	7568.3	8258.8
75°	2011.8	2363.7	2869.7	3220.9	3619.5	3985.4	4401.2	4695.4	4927.5	5319.0	5879.5
77.5°	942.9	1156.9	1413.0	1683.2	1953.4	2235.3	2509.2	2747.5	2847.2	3071.3	3402.2
80°	572.2	641.5	716.3	799.6	912.5	1003.5	1124.1	1211.5	1217.7	1288.4	1389.7
82.5°	382.3	408.0	430.6	451.6	480.4	503.0	528.7	558.9	571.4	587.9	620.5
85°	260.8	273.3	277.9	291.2	288.0	295.8	306.0	316.2	321.6	320.8	335.5
87.5°	160.3	166.6	169.7	172.8	170.5	167.4	172.0	177.5	179.0	174.5	176.0
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°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1427.0	1420.1	1413.0	1408.5	1406.8	1365.6	1347.6	1336.0	1311.0	1290.9	1274.4
5°	1574.2	1559.5	1547.8	1533.8	1526.0	1421.7	1383.5	1357.0	1313.4	1287.7	1264.4
7.5°	1811.0	1769.7	1745.4	1718.3	1694.9	1506.5	1443.4	1402.2	1341.3	1307.2	1280.8
10°	2079.4	2036.6	1998.5	1956.5	1919.9	1619.4	1527.5	1463.7	1383.5	1339.2	1304.1
12.5°	2379.3	2337.2	2288.9	2235.3	2188.5	1762.7	1634.9	1543.8	1434.1	1374.9	1325.9
15°	2733.5	2659.5	2601.1	2538.8	2484.4	1934.0	1760.3	1634.1	1487.9	1407.6	1342.2
17.5°	3062.9	2985.0	2905.6	2851.0	2788.0	2126.2	1886.4	1726.1	1532.1	1428.7	1345.3
20°	3384.4	3299.5	3230.9	3157.8	3091.5	2325.5	2021.0	1807.0	1561.0	1429.5	1325.9
22.5°	3667.7	3614.8	3538.6	3459.2	3392.1	2524.9	2147.2	1875.5	1571.9	1411.4	1291.7
25°	3990.0	3933.9	3840.6	3773.6	3699.0	2728.1	2271.1	1928.5	1565.7	1378.0	1238.7
27.5°	4334.2	4271.9	4176.1	4106.1	4015.8	2939.1	2384.7	1966.6	1542.3	1323.6	1167.8
30°	4693.0	4636.2	4542.0	4471.3	4380.1	3162.5	2511.7	1992.4	1495.6	1248.0	1085.3
32.5°	5078.5	5031.0	4937.5	4863.7	4766.2	3404.5	2630.0	2000.0	1424.7	1158.5	998.0
35°	5444.4	5411.7	5333.1	5263.8	5162.6	3633.5	2755.3	1996.3	1340.7	1060.4	918.6
37.5°	5856.2	5836.7	5797.8	5709.8	5586.1	3944.1	2905.6	1979.9	1237.9	963.1	857.9
40°	6295.3	6296.8	6254.9	6194.9	6079.6	4320.9	3084.6	1948.0	1125.8	877.5	802.6
42.5°	6760.1	6784.3	6764.1	6721.2	6610.6	4700.9	3298.7	1909.0	1016.8	794.1	748.2
45°	7292.7	7322.3	7353.3	7290.4	7182.8	5202.3	3580.6	1858.5	899.3	724.8	710.7
47.5°	7906.9	7953.7	7981.7	7982.5	7875.0	5823.5	4038.3	1828.1	794.9	678.1	693.0
50°	9203.2	9218.0	9284.3	9399.4	9317.0	7261.4	4837.9	1809.4	724.0	649.4	679.7
52.5°	11070.9	11233.7	11348.1	11340.4	11228.3	8174.8	5278.6	1712.8	682.1	638.4	673.5
55°	11831.5	12034.9	12246.6	12302.6	12215.4	8954.0	5695.1	1616.3	661.8	646.2	675.7
57.5°	12845.3	13187.8	13478.2	13600.5	13474.3	9951.5	6243.2	1565.7	655.6	667.3	690.5
60°	14029.4	14453.0	14834.5	15053.9	15053.9	11097.4	6811.5	1544.6	647.0	698.3	715.5
62.5°	14790.1	15412.1	15988.3	16309.7	16300.5	11895.4	7063.7	1473.0	627.5	720.1	749.7
65°	14793.2	15532.9	16267.0	16628.3	16646.9	11797.4	6647.3	1300.9	591.8	723.2	784.0
67.5°	13559.9	14348.6	15204.3	15608.3	15701.7	10860.0	5754.3	1069.7	533.4	692.1	796.4
70°	11452.4	12222.3	13096.0	13493.0	13658.9	9257.8	4634.6	824.5	458.6	623.7	770.7
72.5°	9022.5	9777.8	10385.8	10676.3	10805.4	7076.2	3375.0	622.9	376.0	525.5	701.4
75°	6387.9	6954.8	7277.9	7342.4	7362.7	4265.6	2050.7	463.3	309.8	408.6	592.5
77.5°	3605.4	3848.3	3821.8	3850.8	3610.8	1646.7	892.9	331.7	255.4	310.6	459.4
80°	1407.6	1451.2	1363.3	1336.0	1225.5	612.7	393.9	231.3	203.9	235.1	321.6
82.5°	620.5	640.8	622.0	626.7	599.4	316.2	236.0	167.4	155.6	172.0	213.3
85°	341.7	348.1	346.4	356.5	341.7	126.1	112.1	102.8	109.1	116.8	137.0
87.5°	166.6	168.2	162.8	171.2	165.8	63.8	55.2	58.4	63.8	65.3	65.3
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):

	135°	145°	155°	165°	175°	180°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1262.7	1256.5	1257.4	1255.8	1252.6	1252.6
5°	1251.9	1245.7	1245.7	1244.2	1240.2	1241.0
7.5°	1262.7	1252.6	1248.9	1243.3	1237.9	1237.9
10°	1275.2	1257.4	1246.5	1237.1	1230.0	1230.0
12.5°	1284.5	1256.5	1238.7	1226.1	1219.2	1219.2
15°	1287.7	1251.1	1226.1	1211.5	1205.2	1204.4
17.5°	1277.6	1230.0	1199.7	1182.6	1174.9	1172.5
20°	1246.5	1192.0	1155.4	1135.8	1124.9	1121.2
22.5°	1199.7	1137.4	1094.7	1074.5	1060.4	1058.1
25°	1134.3	1067.4	1025.3	1005.9	998.0	995.9
27.5°	1058.1	995.9	960.0	947.5	940.4	939.6
30°	985.6	932.7	906.2	896.9	888.3	886.7
32.5°	917.9	884.4	874.3	861.0	840.9	838.5
35°	869.6	866.5	859.5	829.9	805.1	798.1
37.5°	840.0	868.9	833.1	774.7	756.7	755.1
40°	822.9	844.8	783.2	763.0	764.5	763.0
42.5°	784.0	806.6	784.8	775.4	781.6	783.2
45°	745.1	769.9	796.4	790.1	805.1	805.1
47.5°	723.2	760.7	795.7	795.7	817.5	825.3
50°	698.3	752.9	783.2	794.1	811.3	805.1
52.5°	696.7	739.7	765.4	784.8	792.6	785.6
55°	699.2	728.7	747.4	769.2	778.6	779.3
57.5°	702.2	722.4	735.0	745.1	773.1	773.1
60°	710.0	717.0	724.0	729.6	766.1	766.9
62.5°	722.4	711.5	710.0	715.5	762.2	759.1
65°	742.0	703.8	692.1	697.5	758.3	748.9
67.5°	768.4	692.1	669.5	673.5	755.1	735.0
70°	792.6	673.5	641.5	637.6	725.7	689.8
72.5°	794.9	651.6	602.7	590.9	630.6	596.4
75°	756.0	636.9	559.7	525.5	520.8	516.2
77.5°	681.3	628.3	510.0	456.2	446.8	450.1
80°	570.0	596.4	450.1	386.1	436.8	431.4
82.5°	425.8	526.2	382.3	341.7	340.9	301.3
85°	236.7	410.3	311.4	256.1	178.4	172.8
87.5°	66.1	228.1	218.0	144.7	98.9	102.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)