

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: P269263

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269263
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-04-LED-E1-T2R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 17559.7 lumens
Efficiency: N/A
Efficacy: 102.7 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): 171
Input Voltage (V): NR
Input Current (A_{in}): 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

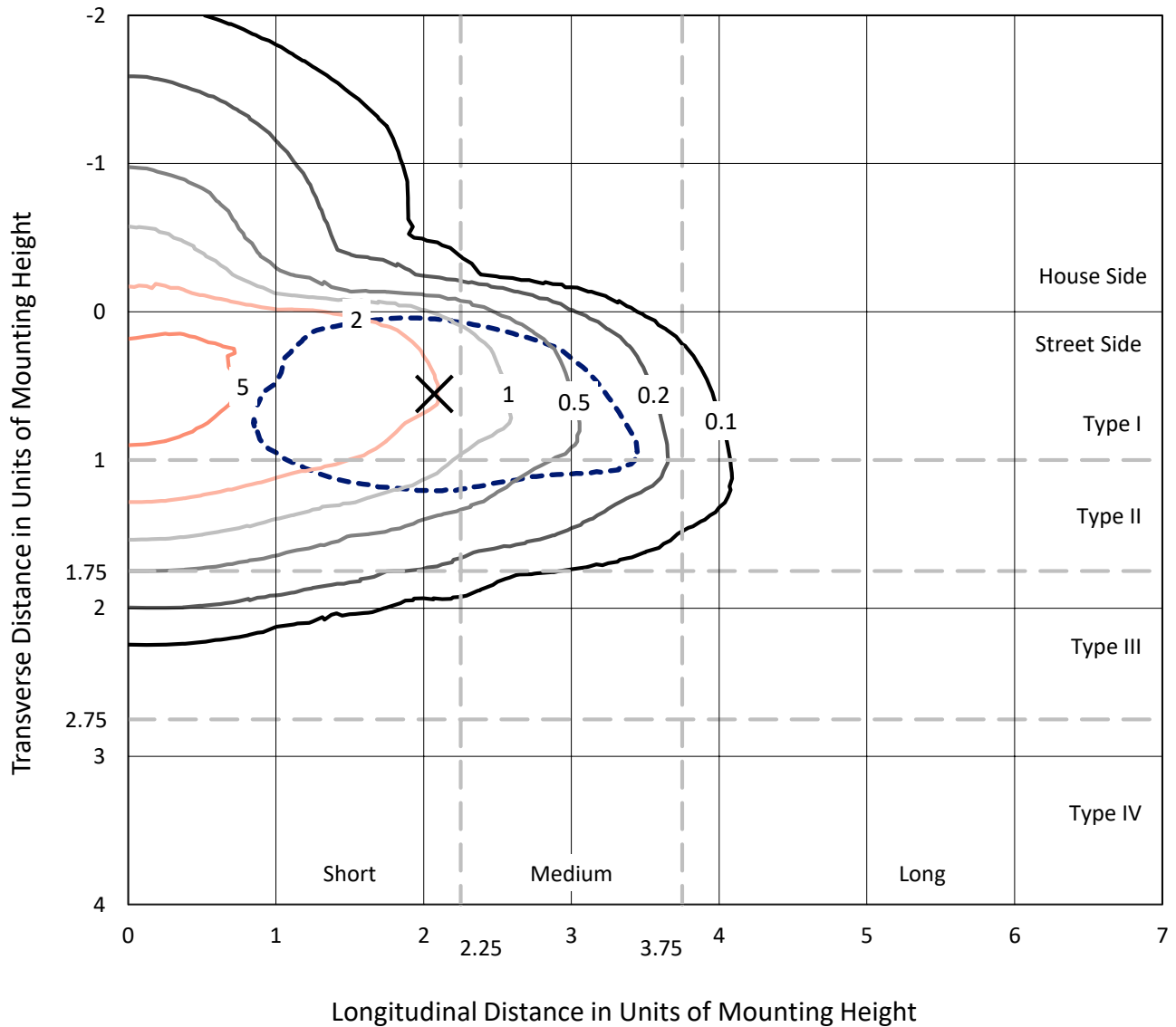


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

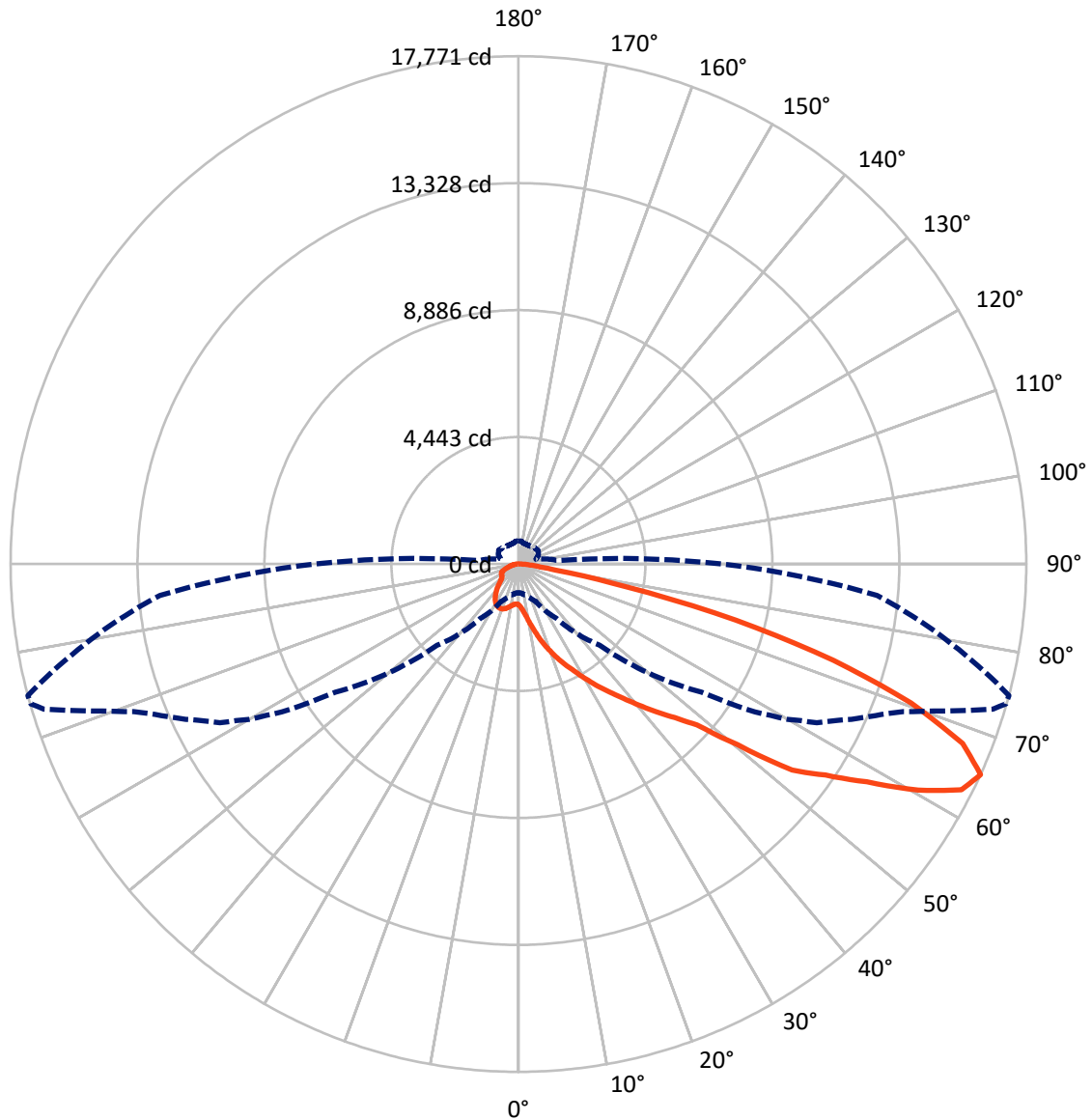


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Full Cutoff

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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	2707.3	0.0	2707.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14852.4	0.0	14852.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	17559.7	0.0	17559.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.0
10°-20°	689.2	3.9
20°-30°	1414.0	8.1
30°-40°	2379.0	13.5
40°-50°	3287.1	18.7
50°-60°	4103.3	23.4
60°-70°	3692.5	21.0
70°-80°	1547.8	8.8
80°-90°	270.4	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°	17559.7	100.0
0°-180°	17559.7	100.0



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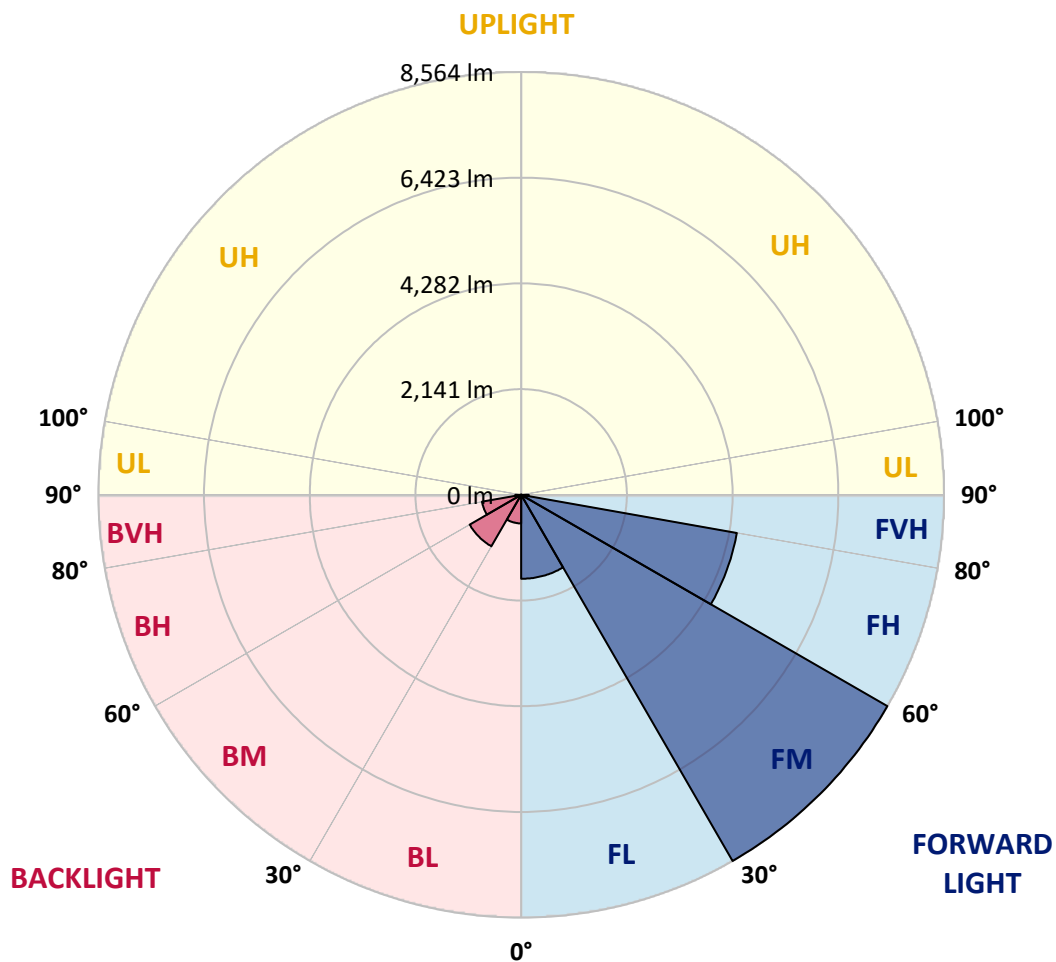
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.6	9.7			
FM (30°-60°)	8564.3	48.8			
FH (60°-80°)	4435.5	25.3			G2/5000
FVH (80°-90°)	152.0	0.9			G2/225
BL (0°-30°)	579.0	3.3	B2/1000		
BM (30°-60°)	1205.0	6.9	B2/2500		
BH (60°-80°)	804.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	118.4	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°	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1811.9	1791.8	1796.9	1763.6	1722.9	1669.8	1610.8	1609.9	1610.8	1604.9	1583.4
5°	2512.5	2488.5	2479.3	2404.5	2294.8	2138.5	1968.9	1950.7	1943.3	1924.1	1880.1
7.5°	3023.7	3010.4	2996.2	2939.8	2840.0	2665.5	2437.7	2398.7	2361.3	2352.1	2302.3
10°	3353.6	3350.3	3320.3	3305.5	3243.2	3091.8	2869.9	2832.5	2791.8	2777.6	2725.3
12.5°	3614.6	3613.8	3599.7	3603.8	3549.8	3440.1	3248.9	3214.9	3184.9	3141.7	3104.4
15°	3795.0	3795.8	3816.5	3839.9	3831.5	3757.6	3578.0	3563.0	3537.3	3507.4	3463.3
17.5°	3942.9	3947.1	3968.7	4011.0	4056.7	4050.9	3908.9	3896.4	3873.9	3833.2	3809.9
20°	4277.0	4292.8	4251.3	4251.3	4256.3	4278.6	4210.5	4200.6	4168.9	4147.4	4129.1
22.5°	4841.3	4859.7	4765.8	4670.2	4576.2	4508.1	4440.0	4452.4	4430.8	4415.8	4405.0
25°	5574.4	5588.5	5436.5	5275.2	5084.0	4834.7	4665.9	4658.5	4646.9	4637.7	4632.7
27.5°	6264.3	6270.1	6126.4	5890.2	5668.3	5310.2	4895.5	4886.2	4872.0	4854.7	4839.7
30°	6854.3	6852.7	6704.8	6479.6	6241.9	5845.5	5243.6	5215.4	5173.8	5126.4	5089.8
32.5°	7365.6	7363.0	7201.0	6967.4	6718.1	6375.6	5720.6	5662.6	5597.7	5505.4	5449.7
35°	7767.9	7766.1	7613.2	7369.6	7083.8	6875.2	6267.7	6196.1	6113.9	5990.0	5904.4
37.5°	7919.8	7919.8	7834.3	7668.0	7415.4	7272.5	6875.2	6788.8	6700.5	6560.1	6463.8
40°	7831.0	7832.6	7850.8	7820.1	7697.1	7587.4	7442.0	7390.4	7314.8	7188.4	7087.9
42.5°	7532.6	7541.7	7663.1	7811.8	7873.4	7855.9	7944.8	7921.6	7868.3	7771.1	7691.4
45°	7154.5	7182.7	7315.6	7596.5	7922.4	8087.8	8366.3	8368.7	8358.6	8306.4	8244.9
47.5°	6634.9	6674.9	6850.2	7230.1	7807.7	8313.0	8794.2	8816.7	8837.4	8803.4	8775.2
50°	5945.2	5992.6	6255.1	6758.8	7574.1	8546.6	9602.9	9704.3	9799.2	9787.5	9806.5
52.5°	5206.2	5261.9	5583.5	6144.5	7172.6	8600.6	10119.9	10285.4	10450.7	10586.2	10730.0
55°	4539.7	4509.8	4831.4	5422.3	6512.8	8357.1	10584.5	10784.1	10968.6	11134.8	11306.0
57.5°	3636.2	3685.2	4007.8	4592.0	5639.3	7669.6	10904.4	11196.2	11461.4	11736.4	11979.2
60°	2657.9	2707.0	3056.9	3650.4	4690.9	6627.4	10660.1	11102.3	11527.1	11948.4	12277.6
62.5°	1604.9	1641.6	1949.9	2515.1	3617.1	5391.5	9571.4	10151.4	10776.4	11280.1	11784.7
65°	999.0	1019.8	1133.8	1444.6	2323.0	4025.1	7820.1	8452.6	9125.9	9765.0	10289.5
67.5°	817.8	825.4	846.2	912.6	1275.9	2624.8	5820.5	6380.7	6988.2	7606.6	8189.9
70°	735.5	730.6	730.6	734.8	817.8	1411.2	3810.8	4175.6	4681.7	5219.5	5753.1
72.5°	664.0	659.0	650.0	637.4	667.4	861.0	1969.9	2245.0	2609.8	3087.7	3598.8
75°	596.7	590.0	579.2	563.4	584.3	650.0	945.8	1061.3	1239.2	1493.5	1778.6
77.5°	526.9	518.6	508.7	497.0	523.6	505.3	554.3	595.9	664.0	745.6	852.8
80°	448.0	440.4	437.1	431.4	462.9	384.8	391.5	417.3	457.1	501.2	551.0
82.5°	350.8	350.8	364.1	366.5	401.5	276.8	292.6	314.9	335.7	359.1	382.3
85°	231.0	232.8	277.5	295.1	316.7	186.2	219.5	226.9	243.5	256.8	266.7
87.5°	72.4	78.2	169.6	187.8	182.0	105.6	134.7	138.0	149.6	158.7	167.1
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°	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1583.4	1573.3	1564.2	1563.4	1556.8	1547.6	1551.0	1536.8	1537.5	1530.2	1521.8
5°	1861.7	1855.1	1821.9	1812.7	1787.7	1771.9	1769.5	1736.2	1732.1	1713.0	1692.1
7.5°	2262.3	2240.7	2194.2	2171.7	2129.3	2097.8	2082.8	2038.8	2017.1	1967.3	1944.9
10°	2682.1	2654.6	2597.3	2565.6	2525.0	2474.3	2446.9	2382.8	2358.0	2312.1	2257.4
12.5°	3071.0	3043.5	2984.6	2960.5	2906.5	2852.5	2822.6	2750.3	2717.8	2644.7	2601.4
15°	3430.9	3403.5	3351.9	3327.1	3273.1	3229.0	3189.1	3117.6	3079.4	3011.2	2954.6
17.5°	3780.0	3751.0	3706.0	3683.6	3631.2	3586.4	3543.2	3475.8	3436.7	3368.6	3317.9
20°	4104.1	4082.5	4050.1	4020.3	3967.9	3927.1	3875.6	3817.3	3760.9	3711.0	3662.7
22.5°	4386.8	4378.3	4343.6	4330.2	4285.4	4250.4	4205.5	4148.3	4107.5	4044.3	3999.4
25°	4630.3	4627.8	4611.1	4607.0	4575.3	4542.2	4532.2	4484.8	4447.4	4391.8	4345.2
27.5°	4839.7	4842.3	4838.0	4849.7	4841.3	4826.5	4827.2	4811.4	4789.9	4743.3	4702.5
30°	5072.4	5059.2	5066.6	5083.1	5088.2	5089.8	5117.4	5126.4	5124.8	5094.0	5074.0
32.5°	5401.6	5370.0	5341.0	5338.4	5354.9	5361.7	5408.2	5432.3	5453.2	5460.5	5463.9
35°	5821.2	5758.1	5697.4	5665.0	5636.8	5644.2	5677.5	5716.5	5762.3	5793.9	5831.3
37.5°	6349.8	6272.5	6165.3	6088.9	6069.8	6028.3	6049.8	6080.5	6125.5	6174.5	6239.4
40°	6990.7	6873.6	6753.0	6651.6	6596.8	6520.3	6519.4	6513.6	6541.1	6586.7	6678.2
42.5°	7607.3	7503.5	7375.5	7269.2	7197.6	7095.4	7074.6	7020.7	7033.1	7073.0	7161.8
45°	8185.0	8099.4	8021.2	7898.3	7837.6	7727.1	7692.1	7628.1	7592.5	7610.7	7699.6
47.5°	8744.5	8689.6	8608.1	8528.2	8481.7	8382.9	8338.0	8292.3	8246.5	8244.9	8338.0
50°	9834.9	9805.8	9709.3	9626.1	9648.6	9527.3	9534.8	9411.8	9467.4	9474.2	9669.4
52.5°	10859.6	10960.9	11032.5	11119.8	11176.4	11187.1	11224.5	11280.1	11347.5	11480.5	11661.6
55°	11446.5	11573.6	11647.6	11714.0	11823.8	11846.9	11909.4	11983.3	12042.3	12191.9	12345.6
57.5°	12143.7	12379.7	12494.4	12600.0	12747.9	12804.5	12908.4	12989.0	13065.5	13242.5	13428.7
60°	12573.4	12861.0	13094.6	13261.6	13447.0	13579.9	13737.1	13863.4	14042.8	14254.8	14532.4
62.5°	12231.9	12654.1	12964.1	13250.8	13502.7	13757.0	13982.2	14218.3	14490.9	14811.7	15242.3
65°	10871.3	11300.9	11832.0	12129.6	12462.8	12855.1	13197.5	13579.9	13951.4	14418.5	15055.2
67.5°	8751.8	9251.4	9848.1	10148.2	10531.3	10969.4	11353.3	11820.3	12254.3	12820.3	13607.3
70°	6308.3	6954.0	7456.1	7769.5	8216.5	8667.9	9038.6	9582.2	9941.3	10521.4	11335.1
72.5°	3994.5	4503.9	5119.0	5513.7	5911.0	6368.2	6747.2	7215.9	7550.9	8079.4	8816.7
75°	2147.7	2523.2	3063.6	3438.4	3864.0	4254.6	4698.4	5012.6	5260.3	5678.4	6276.7
77.5°	1006.6	1235.1	1508.6	1796.9	2085.3	2386.2	2678.7	2933.1	3039.4	3278.9	3632.0
80°	610.8	684.9	764.6	853.6	974.1	1071.3	1200.1	1293.2	1299.8	1375.6	1483.6
82.5°	408.1	435.5	459.7	482.1	512.8	536.8	564.3	596.7	610.0	627.5	662.4
85°	278.5	291.7	296.7	310.9	307.5	315.8	326.7	337.5	343.2	342.4	358.2
87.5°	171.1	177.9	181.2	184.5	182.0	178.8	183.7	189.5	191.2	186.2	187.8
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1523.4	1516.0	1508.6	1503.6	1501.8	1457.8	1438.6	1426.1	1399.6	1378.0	1360.6
5°	1680.5	1664.7	1652.3	1637.3	1629.0	1517.6	1477.0	1448.6	1402.2	1374.6	1349.8
7.5°	1933.2	1889.1	1863.4	1834.2	1809.4	1608.2	1541.0	1496.8	1432.1	1395.4	1367.2
10°	2220.0	2174.3	2133.6	2088.6	2049.7	1728.8	1630.8	1562.5	1477.0	1429.6	1392.2
12.5°	2540.0	2495.0	2443.5	2386.2	2336.3	1881.7	1745.3	1648.1	1530.9	1467.8	1415.4
15°	2918.1	2839.2	2776.8	2710.4	2652.2	2064.6	1879.3	1744.6	1588.4	1502.7	1432.8
17.5°	3269.7	3186.6	3101.8	3043.5	2976.4	2269.8	2013.8	1842.7	1635.6	1525.1	1436.2
20°	3613.0	3522.3	3449.2	3371.1	3300.5	2482.6	2157.5	1929.1	1666.4	1526.0	1415.4
22.5°	3915.5	3858.9	3777.6	3692.8	3621.2	2695.4	2292.3	2002.2	1678.0	1506.8	1378.9
25°	4259.6	4199.8	4100.0	4028.4	3948.7	2912.2	2424.4	2058.7	1671.4	1471.2	1322.3
27.5°	4626.9	4560.4	4458.2	4383.4	4287.0	3137.5	2545.7	2099.5	1646.5	1412.9	1246.7
30°	5010.0	4949.4	4848.8	4773.2	4675.9	3376.1	2681.3	2126.8	1596.6	1332.2	1158.6
32.5°	5421.5	5370.7	5271.1	5192.2	5088.2	3634.5	2807.7	2135.2	1521.0	1236.7	1065.5
35°	5812.2	5777.2	5693.3	5619.3	5511.2	3878.9	2941.4	2131.0	1431.2	1132.0	980.7
37.5°	6251.8	6231.1	6189.5	6095.5	5963.4	4210.5	3101.8	2113.6	1321.4	1028.1	915.9
40°	6720.6	6722.2	6677.3	6613.3	6490.3	4612.7	3292.9	2079.4	1201.8	936.8	857.0
42.5°	7216.8	7242.6	7220.9	7175.2	7057.2	5018.4	3521.5	2038.0	1085.4	847.8	798.8
45°	7785.3	7816.8	7850.1	7782.7	7668.0	5553.6	3822.4	1983.9	960.0	773.8	758.8
47.5°	8441.1	8490.9	8520.9	8521.6	8407.0	6216.9	4311.1	1951.5	848.5	723.9	739.8
50°	9824.9	9840.7	9911.3	10034.2	9946.3	7752.1	5164.6	1931.5	772.9	693.1	725.7
52.5°	11818.7	11992.5	12114.6	12106.3	11986.7	8726.9	5635.1	1828.5	728.0	681.5	719.0
55°	12630.8	12847.6	13073.8	13133.6	13040.5	9559.0	6079.8	1725.5	706.4	689.9	721.3
57.5°	13712.8	14078.5	14388.6	14519.1	14384.5	10623.5	6664.9	1671.4	699.8	712.3	737.1
60°	14977.1	15429.2	15836.5	16070.9	16070.9	11846.9	7271.6	1649.0	690.6	745.6	763.7
62.5°	15789.1	16453.1	17068.2	17411.5	17401.4	12698.9	7540.9	1572.6	669.9	768.8	800.4
65°	15792.5	16582.1	17365.8	17751.3	17771.3	12594.1	7096.3	1388.8	631.7	772.2	837.0
67.5°	14475.8	15317.9	16231.3	16662.7	16762.4	11593.5	6142.9	1141.9	569.3	738.9	850.2
70°	12226.0	13048.1	13980.5	14404.4	14581.5	9883.1	4947.8	880.2	489.5	665.7	822.8
72.5°	9632.0	10438.2	11087.3	11397.3	11535.3	7554.1	3603.0	664.9	401.5	561.0	748.8
75°	6819.5	7424.5	7769.5	7838.4	7860.1	4553.8	2189.2	494.5	330.8	436.3	632.4
77.5°	3849.0	4108.3	4080.0	4110.9	3854.7	1757.9	953.3	354.0	272.6	331.7	490.4
80°	1502.7	1549.2	1455.3	1426.1	1308.2	654.1	420.5	246.9	217.7	250.9	343.2
82.5°	662.4	684.0	664.0	669.1	640.0	337.5	251.9	178.8	166.2	183.7	227.7
85°	364.9	371.4	369.8	380.6	364.9	134.7	119.7	109.8	116.4	124.7	146.2
87.5°	177.9	179.5	173.7	182.8	177.1	68.1	59.0	62.3	68.1	69.8	69.8
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°	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1348.0	1341.4	1342.2	1340.6	1337.2	1337.2
5°	1336.5	1329.9	1329.9	1328.1	1324.0	1324.8
7.5°	1348.0	1337.2	1333.2	1327.3	1321.4	1321.4
10°	1361.4	1342.2	1330.7	1320.7	1313.2	1313.2
12.5°	1371.4	1341.4	1322.3	1309.0	1301.6	1301.6
15°	1374.6	1335.6	1309.0	1293.2	1286.6	1285.7
17.5°	1363.8	1313.2	1280.8	1262.5	1254.2	1251.7
20°	1330.7	1272.4	1233.5	1212.6	1201.0	1196.8
22.5°	1280.8	1214.2	1168.5	1147.0	1132.0	1129.4
25°	1210.9	1139.5	1094.7	1073.8	1065.5	1063.1
27.5°	1129.4	1063.1	1024.7	1011.5	1004.0	1003.1
30°	1052.3	995.7	967.5	957.5	948.3	946.6
32.5°	980.0	944.2	933.3	919.2	897.6	895.2
35°	928.4	925.1	917.6	886.0	859.4	852.0
37.5°	896.8	927.5	889.3	827.0	807.8	806.1
40°	878.5	901.8	836.1	814.6	816.2	814.6
42.5°	837.0	861.0	837.8	827.8	834.4	836.1
45°	795.4	821.9	850.2	843.6	859.4	859.4
47.5°	772.2	812.0	849.3	849.3	872.8	881.0
50°	745.6	803.8	836.1	847.8	866.1	859.4
52.5°	743.8	789.6	817.0	837.8	846.2	838.6
55°	746.3	777.9	797.9	821.2	831.1	832.0
57.5°	749.6	771.3	784.6	795.4	825.4	825.4
60°	758.0	765.4	772.9	778.8	817.8	818.6
62.5°	771.3	759.6	758.0	763.7	813.7	810.4
65°	792.0	751.3	738.9	744.7	809.6	799.5
67.5°	820.3	738.9	714.8	719.0	806.1	784.6
70°	846.2	719.0	684.9	680.6	774.6	736.4
72.5°	848.5	695.6	643.2	630.8	673.2	636.7
75°	807.0	679.8	597.6	561.0	556.1	551.0
77.5°	727.3	670.8	544.5	487.1	477.1	480.5
80°	608.4	636.7	480.5	412.2	466.3	460.4
82.5°	454.6	561.8	408.1	364.9	364.1	321.7
85°	252.7	438.1	332.5	273.4	190.4	184.5
87.5°	70.6	243.5	232.8	154.6	105.6	109.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)