

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: P269421

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269421
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-06-LED-E1-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32224 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

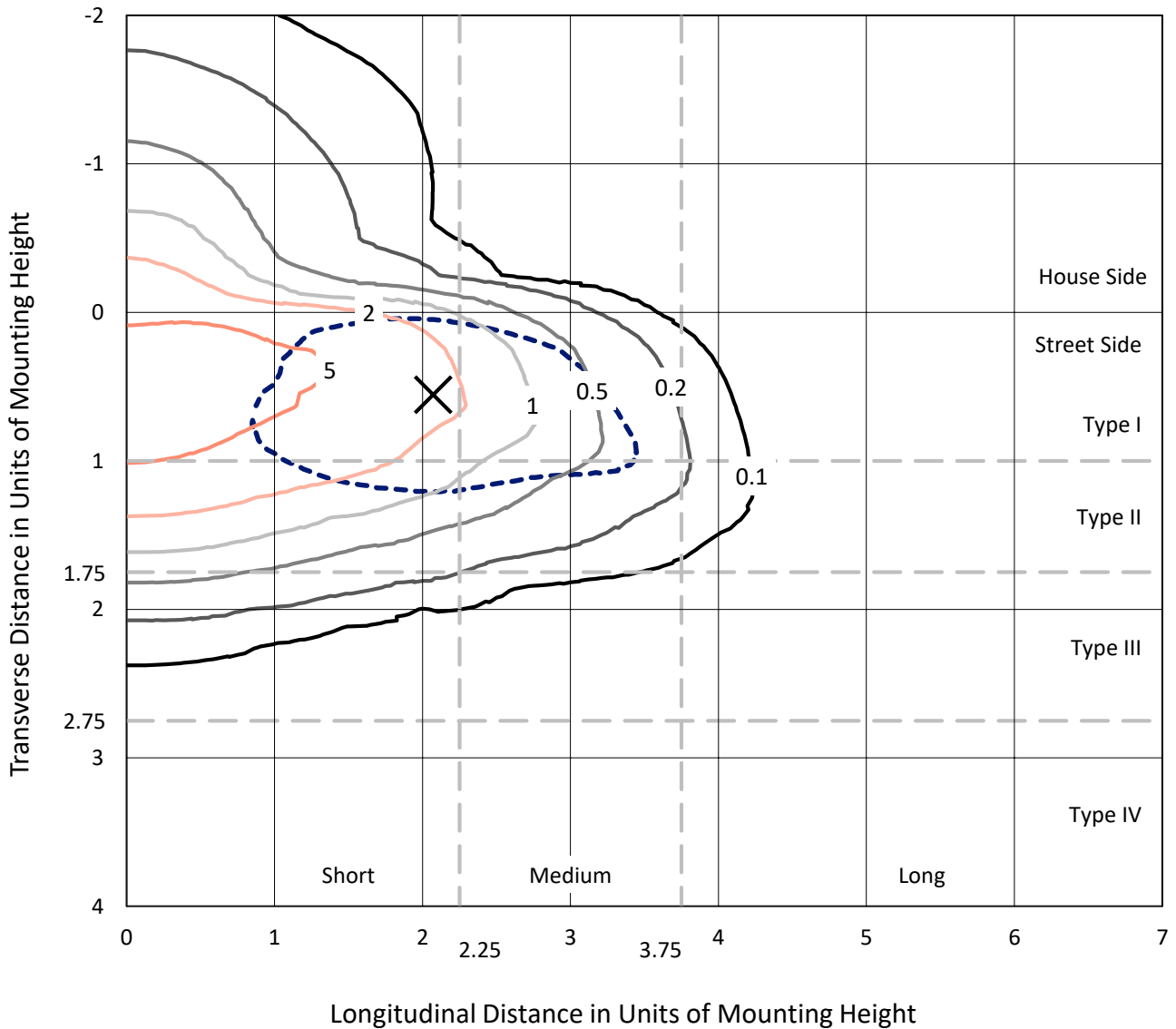
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

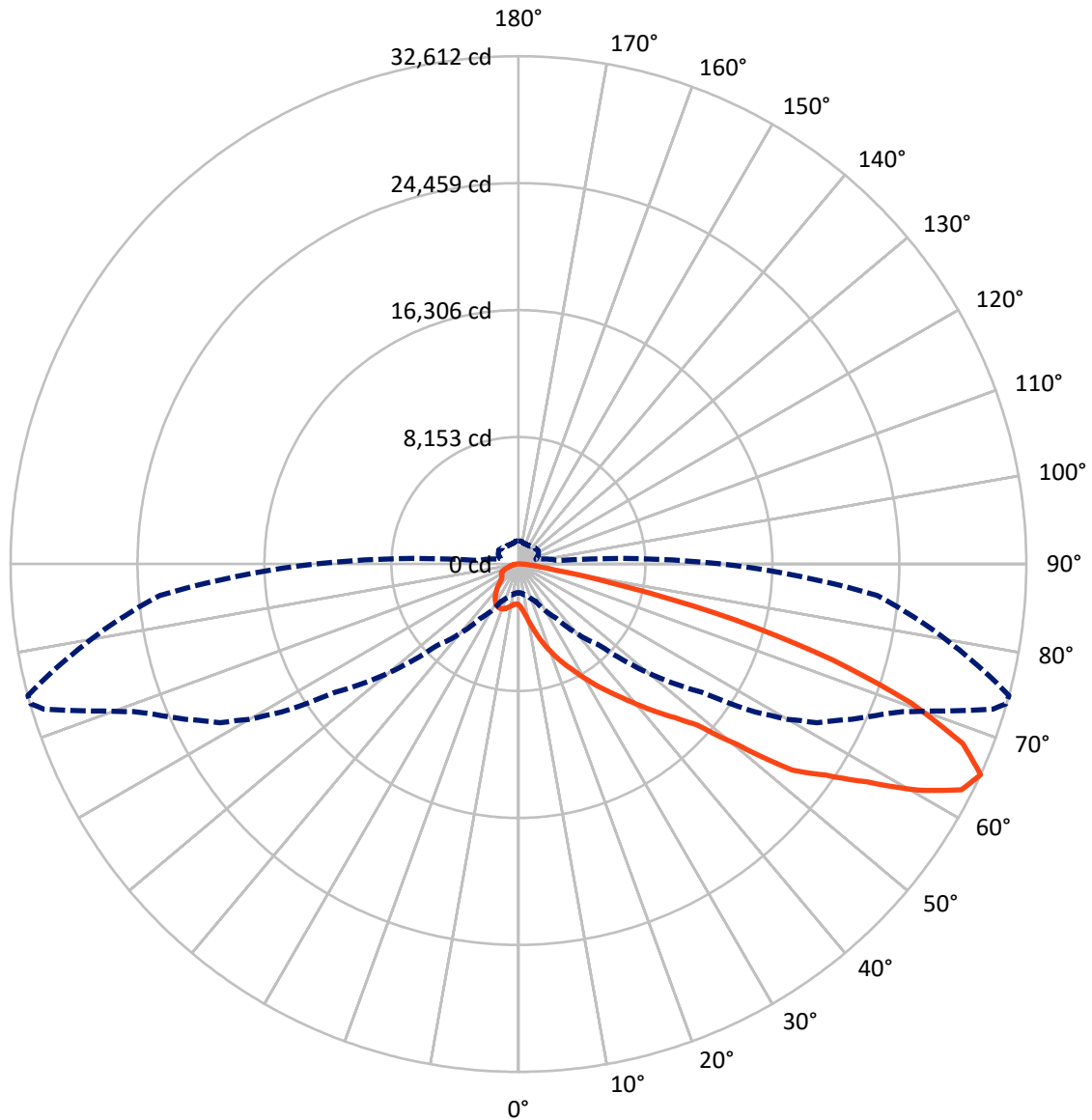
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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	4968.2	0.0	4968.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27255.8	0.0	27255.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	32224.0	0.0	32224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	1.0
10°-20°	1264.7	3.9
20°-30°	2594.8	8.1
30°-40°	4365.7	13.5
40°-50°	6032.2	18.7
50°-60°	7530.0	23.4
60°-70°	6776.2	21.0
70°-80°	2840.5	8.8
80°-90°	496.2	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°	32224.0	100.0
0°-180°	32224.0	100.0

Coefficient of Utilization



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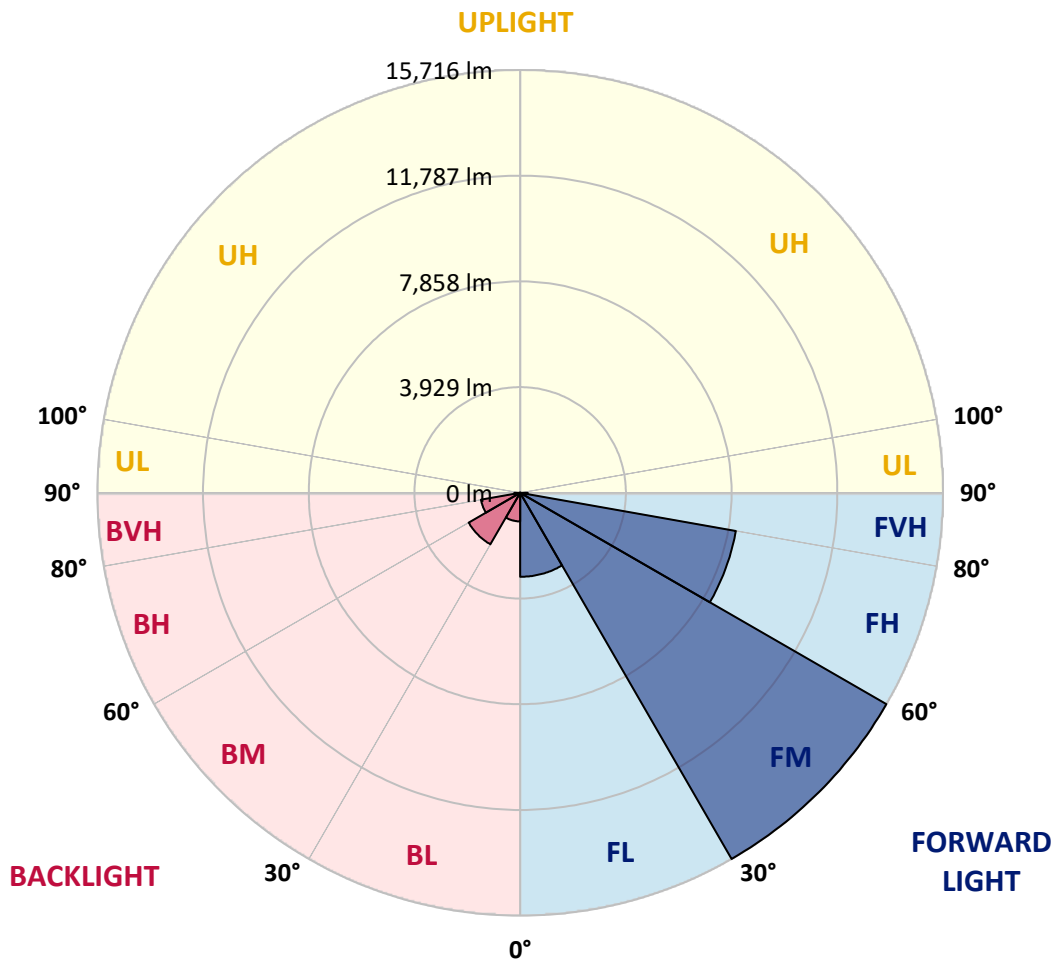
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.8	9.7			
FM	(30°-60°)	15716.4	48.8			
FH	(60°-80°)	8139.7	25.3			G4/12000
FVH	(80°-90°)	278.9	0.9			G3/500
BL	(0°-30°)	1062.5	3.3	B3/2500		
BM	(30°-60°)	2211.4	6.9	B2/2500		
BH	(60°-80°)	1477.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	217.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	3324.9	3288.3	3297.6	3236.6	3161.9	3064.2	2956.0	2954.3	2956.0	2945.3	2905.6
5°	4610.8	4566.5	4549.7	4412.5	4211.2	3924.4	3613.3	3579.7	3566.0	3530.9	3450.1
7.5°	5548.8	5524.3	5498.4	5394.7	5211.6	4891.5	4473.5	4401.9	4333.2	4316.4	4224.9
10°	6154.3	6148.2	6093.4	6065.9	5951.5	5673.9	5266.7	5198.0	5123.3	5097.3	5001.3
12.5°	6633.3	6631.6	6605.7	6613.4	6514.2	6312.8	5962.1	5899.6	5844.7	5765.3	5696.7
15°	6964.2	6965.6	7003.8	7046.6	7031.4	6895.6	6566.2	6538.7	6491.3	6436.4	6355.6
17.5°	7235.7	7243.4	7283.0	7360.7	7444.7	7434.0	7173.1	7150.2	7109.0	7034.4	6991.7
20°	7848.9	7877.7	7801.5	7801.5	7810.8	7851.8	7726.9	7708.4	7650.5	7610.9	7577.4
22.5°	8884.4	8918.1	8745.7	8570.3	8398.0	8272.9	8147.7	8170.7	8131.0	8103.5	8083.7
25°	10229.7	10255.6	9976.5	9680.7	9329.8	8872.3	8562.6	8548.9	8527.5	8510.8	8501.6
27.5°	11495.6	11506.3	11242.5	10809.2	10402.1	9744.6	8983.6	8966.8	8940.9	8908.9	8881.5
30°	12578.5	12575.6	12304.1	11890.7	11454.5	10726.9	9622.6	9570.8	9494.5	9407.6	9340.4
32.5°	13516.5	13511.9	13214.5	12785.9	12328.3	11700.1	10498.1	10391.4	10272.4	10103.1	10000.9
35°	14254.8	14251.7	13971.1	13524.3	12999.6	12616.7	11501.8	11370.6	11219.7	10992.3	10835.3
37.5°	14533.9	14533.9	14376.8	14071.8	13608.1	13345.8	12616.7	12458.1	12296.4	12038.6	11861.7
40°	14370.6	14373.8	14407.2	14350.9	14125.0	13923.8	13656.9	13562.3	13423.6	13191.7	13007.2
42.5°	13823.2	13839.8	14062.5	14335.6	14448.5	14416.4	14579.6	14536.9	14439.4	14261.0	14114.4
45°	13129.2	13181.0	13425.1	13940.5	14538.4	14841.9	15352.9	15357.6	15339.2	15243.1	15130.2
47.5°	12175.8	12249.1	12570.9	13268.0	14328.0	15255.3	16138.4	16179.6	16217.7	16155.2	16103.3
50°	10909.9	10997.0	11478.8	12403.2	13899.5	15683.9	17622.5	17808.5	17982.5	17961.2	17996.1
52.5°	9554.1	9656.2	10246.4	11276.1	13162.8	15783.1	18571.2	18874.6	19178.3	19426.8	19690.7
55°	8330.8	8275.8	8866.1	9950.5	11951.7	15336.1	19423.8	19789.8	20128.4	20433.4	20747.7
57.5°	6672.9	6762.9	7354.7	8426.9	10348.7	14074.9	20011.1	20546.4	21032.8	21537.8	21983.1
60°	4877.6	4967.6	5609.7	6698.8	8608.4	12162.2	19562.6	20374.0	21153.4	21926.6	22530.7
62.5°	2945.3	3012.3	3578.2	4615.3	6637.8	9894.1	17564.5	18629.1	19776.0	20700.5	21626.2
65°	1833.4	1871.4	2080.5	2650.9	4262.9	7386.8	14350.9	15511.6	16747.0	17919.8	18882.4
67.5°	1500.8	1514.5	1552.7	1674.7	2341.3	4816.7	10681.1	11709.1	12824.2	13958.9	15029.6
70°	1349.9	1340.7	1340.7	1348.3	1500.8	2589.9	6993.1	7662.7	8591.6	9578.4	10557.6
72.5°	1218.7	1209.5	1192.7	1169.9	1224.7	1580.2	3614.8	4119.6	4789.3	5666.1	6604.2
75°	1095.2	1082.8	1063.1	1034.0	1072.2	1192.7	1735.7	1947.7	2274.1	2740.8	3264.0
77.5°	966.9	951.8	933.5	912.0	960.8	927.3	1017.3	1093.5	1218.7	1368.1	1564.8
80°	822.0	808.4	802.2	791.5	849.5	706.2	718.4	765.6	838.8	919.8	1011.2
82.5°	643.6	643.6	668.1	672.7	736.7	507.9	536.8	578.1	616.1	658.8	701.5
85°	424.0	427.1	509.3	541.5	581.2	341.6	402.7	416.4	446.8	471.3	489.5
87.5°	132.7	143.4	311.2	344.7	334.0	193.8	247.0	253.2	274.5	291.3	306.6
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2905.6	2887.2	2870.4	2868.9	2856.8	2840.0	2846.1	2820.1	2821.7	2807.9	2792.7
5°	3416.6	3404.2	3343.3	3326.6	3280.8	3251.8	3247.3	3186.2	3178.6	3143.4	3105.4
7.5°	4151.6	4112.0	4026.7	3985.4	3907.6	3849.6	3822.2	3741.4	3701.7	3610.2	3569.1
10°	4922.0	4871.6	4766.3	4708.3	4633.6	4540.7	4490.3	4372.8	4327.0	4243.1	4142.5
12.5°	5635.7	5585.4	5477.1	5432.9	5333.7	5234.6	5179.6	5046.9	4987.5	4853.3	4774.0
15°	6296.1	6245.8	6151.2	6105.5	6006.3	5925.5	5852.3	5721.1	5651.0	5526.0	5422.2
17.5°	6936.7	6883.4	6801.0	6759.8	6663.7	6581.3	6502.0	6378.5	6306.8	6181.7	6088.7
20°	7531.6	7492.0	7432.4	7377.5	7281.4	7206.7	7112.2	7005.3	6901.7	6810.1	6721.7
22.5°	8050.2	8034.9	7970.8	7946.4	7864.1	7800.1	7717.7	7612.3	7537.7	7421.7	7339.4
25°	8497.1	8492.4	8461.9	8454.4	8396.4	8335.4	8317.0	8230.1	8161.6	8059.4	7973.9
27.5°	8881.5	8885.9	8878.4	8899.7	8884.4	8857.0	8858.5	8829.5	8789.8	8704.4	8629.7
30°	9308.4	9284.1	9297.7	9328.3	9337.4	9340.4	9390.8	9407.6	9404.5	9348.1	9311.6
32.5°	9912.4	9854.4	9801.0	9796.6	9827.1	9839.2	9924.7	9968.9	10006.9	10020.8	10026.8
35°	10682.7	10566.9	10455.5	10395.9	10344.2	10357.8	10418.8	10490.5	10574.4	10632.3	10701.0
37.5°	11652.8	11510.9	11314.2	11173.7	11138.8	11062.4	11102.2	11158.6	11240.9	11331.0	11449.8
40°	12828.7	12613.6	12392.5	12206.3	12105.6	11965.5	11963.8	11953.1	12003.5	12087.5	12255.1
42.5°	13960.4	13769.8	13534.9	13339.7	13208.5	13020.8	12982.8	12883.6	12906.5	12979.7	13142.9
45°	15020.4	14863.4	14719.9	14494.2	14382.9	14180.0	14116.0	13998.6	13932.9	13966.5	14129.7
47.5°	16047.0	15946.3	15796.8	15650.5	15564.9	15383.5	15301.1	15217.2	15133.2	15130.2	15301.1
50°	18048.0	17994.7	17817.7	17665.2	17706.4	17483.7	17497.5	17271.7	17373.8	17386.1	17744.5
52.5°	19928.5	20114.7	20245.9	20406.0	20509.7	20529.5	20598.1	20700.5	20823.9	21067.9	21400.5
55°	21005.4	21238.7	21374.5	21496.6	21697.9	21740.6	21855.0	21990.8	22099.1	22373.5	22655.8
57.5°	22285.2	22718.2	22928.8	23122.5	23393.9	23497.7	23688.3	23836.3	23976.7	24301.5	24643.2
60°	23073.7	23601.3	24030.0	24336.5	24676.7	24920.7	25209.0	25440.8	25770.2	26159.3	26668.6
62.5°	22446.8	23221.5	23790.5	24316.7	24778.8	25245.5	25658.8	26092.1	26592.3	27181.1	27971.2
65°	19950.0	20738.5	21713.1	22259.2	22870.8	23590.7	24219.2	24920.7	25602.5	26459.7	27628.0
67.5°	16060.6	16977.2	18072.5	18623.0	19326.1	20129.9	20834.6	21691.8	22488.0	23526.6	24971.1
70°	11576.5	12761.6	13682.9	14257.8	15078.4	15906.6	16586.8	17584.3	18243.3	19307.9	20801.1
72.5°	7330.3	8265.2	9393.8	10118.4	10847.5	11686.3	12381.8	13242.0	13856.6	14826.7	16179.6
75°	3941.3	4630.7	5622.0	6309.9	7090.9	7807.7	8622.1	9198.6	9653.1	10420.3	11518.5
77.5°	1847.0	2266.6	2768.2	3297.6	3826.8	4379.0	4915.9	5382.6	5577.8	6017.0	6665.2
80°	1121.1	1256.8	1403.2	1566.5	1787.5	1966.0	2202.5	2373.2	2385.4	2524.2	2722.6
82.5°	748.8	799.2	843.5	884.7	941.1	985.4	1035.7	1095.2	1119.5	1151.5	1215.5
85°	511.0	535.4	544.6	570.5	564.3	579.5	599.3	619.2	629.9	628.5	657.4
87.5°	314.1	326.4	332.6	338.7	334.0	327.9	337.0	347.7	350.8	341.6	344.7
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°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2795.7	2782.1	2768.2	2759.1	2756.1	2675.2	2640.2	2617.3	2568.4	2528.8	2496.7
5°	3084.1	3055.0	3032.1	3004.7	2989.5	2785.0	2710.4	2658.4	2573.0	2522.7	2476.9
7.5°	3547.6	3466.9	3419.6	3366.2	3320.4	2951.3	2827.8	2746.9	2628.0	2560.9	2509.0
10°	4073.9	3990.0	3915.3	3832.9	3761.3	3172.5	2992.6	2867.4	2710.4	2623.4	2554.8
12.5°	4661.0	4578.8	4484.2	4379.0	4287.4	3453.2	3202.9	3024.6	2809.4	2693.6	2597.4
15°	5355.1	5210.2	5095.7	4973.7	4866.9	3788.7	3448.6	3201.5	2914.7	2757.5	2629.5
17.5°	6000.3	5847.7	5692.1	5585.4	5461.9	4165.4	3695.6	3381.4	3001.6	2798.8	2635.5
20°	6630.2	6463.9	6329.6	6186.3	6056.7	4555.8	3959.5	3540.0	3058.1	2800.3	2597.4
22.5°	7185.4	7081.6	6932.2	6776.5	6645.4	4946.2	4206.6	3674.2	3079.4	2765.3	2530.3
25°	7816.8	7707.0	7523.9	7392.8	7246.4	5344.3	4449.0	3778.0	3067.3	2699.6	2426.6
27.5°	8491.0	8368.9	8181.4	8044.1	7867.1	5757.7	4671.7	3852.7	3021.4	2592.9	2287.9
30°	9194.1	9082.8	8898.3	8759.5	8580.9	6195.5	4920.3	3903.0	2929.9	2444.9	2126.2
32.5°	9949.1	9856.1	9672.9	9528.1	9337.4	6669.8	5152.1	3918.2	2791.2	2269.6	1955.3
35°	10665.9	10601.8	10447.7	10312.1	10113.7	7118.2	5397.7	3910.7	2626.5	2077.4	1799.8
37.5°	11472.8	11434.6	11358.3	11186.1	10943.5	7726.9	5692.1	3878.6	2425.2	1886.7	1680.8
40°	12333.0	12336.1	12253.7	12136.2	11910.4	8465.0	6043.0	3816.1	2205.5	1718.9	1572.6
42.5°	13243.5	13290.9	13251.2	13167.3	12950.8	9209.3	6462.3	3739.9	1991.9	1555.8	1465.8
45°	14286.9	14344.8	14405.8	14282.2	14071.8	10191.6	7014.5	3640.7	1761.7	1420.0	1392.6
47.5°	15490.3	15581.7	15636.6	15638.1	15427.8	11408.7	7911.4	3581.3	1557.2	1328.5	1357.5
50°	18029.7	18058.6	18188.3	18414.0	18252.4	14225.7	9477.7	3544.6	1418.5	1272.0	1331.5
52.5°	21688.8	22007.5	22231.8	22216.4	21996.8	16015.0	10341.1	3355.4	1336.0	1250.7	1319.3
55°	23178.8	23576.9	23991.8	24101.6	23930.8	17541.7	11157.0	3166.3	1296.4	1265.9	1323.9
57.5°	25164.7	25835.9	26404.7	26644.2	26397.1	19495.5	12230.9	3067.3	1284.2	1307.2	1352.8
60°	27484.6	28314.3	29061.6	29491.8	29491.8	21740.6	13344.2	3026.0	1267.5	1368.1	1401.6
62.5°	28974.7	30193.4	31322.1	31952.1	31933.7	23304.0	13838.4	2885.7	1229.3	1410.9	1468.8
65°	28980.8	30429.8	31868.1	32575.9	32612.4	23111.9	13022.4	2548.6	1159.2	1416.9	1535.9
67.5°	26564.9	28109.9	29786.2	30577.8	30760.8	21275.4	11273.0	2095.7	1044.8	1355.9	1560.3
70°	22436.1	23944.5	25655.9	26433.7	26758.6	18136.5	9079.7	1615.2	898.3	1221.8	1510.1
72.5°	17675.9	19155.4	20346.5	20915.4	21168.6	13862.9	6611.9	1220.2	736.7	1029.5	1374.2
75°	12514.5	13624.9	14257.8	14384.4	14424.1	8356.8	4017.5	907.5	607.1	800.7	1160.7
77.5°	7063.4	7539.3	7487.4	7543.7	7074.1	3225.9	1749.4	649.7	500.3	608.5	899.9
80°	2757.5	2843.0	2670.8	2617.3	2400.7	1200.3	771.7	452.9	399.6	460.7	629.9
82.5°	1215.5	1255.2	1218.7	1227.9	1174.4	619.2	462.2	327.9	305.1	337.0	417.9
85°	669.5	681.8	678.7	698.5	669.5	247.0	219.6	201.3	213.5	228.8	268.5
87.5°	326.4	329.5	318.8	335.5	324.8	125.0	108.2	114.4	125.0	128.1	128.1
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):

	135°	145°	155°	165°	175°	180°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2473.9	2461.7	2463.2	2460.2	2454.1	2454.1
5°	2452.6	2440.3	2440.3	2437.3	2429.6	2431.3
7.5°	2473.9	2454.1	2446.4	2435.8	2425.2	2425.2
10°	2498.4	2463.2	2442.0	2423.5	2409.9	2409.9
12.5°	2516.6	2461.7	2426.6	2402.2	2388.6	2388.6
15°	2522.7	2451.0	2402.2	2373.2	2361.0	2359.5
17.5°	2502.9	2409.9	2350.3	2316.8	2301.5	2297.0
20°	2442.0	2335.1	2263.4	2225.3	2203.9	2196.4
22.5°	2350.3	2228.3	2144.4	2104.8	2077.4	2072.7
25°	2222.2	2091.1	2008.7	1970.6	1955.3	1950.8
27.5°	2072.7	1950.8	1880.6	1856.2	1842.5	1840.9
30°	1930.9	1827.2	1775.4	1757.1	1740.2	1737.2
32.5°	1798.2	1732.7	1712.8	1686.8	1647.2	1642.7
35°	1703.6	1697.5	1683.9	1625.9	1577.1	1563.4
37.5°	1645.8	1702.2	1632.0	1517.5	1482.6	1479.5
40°	1612.2	1654.9	1534.3	1494.7	1497.7	1494.7
42.5°	1535.9	1580.2	1537.4	1519.2	1531.3	1534.3
45°	1459.7	1508.4	1560.3	1548.0	1577.1	1577.1
47.5°	1416.9	1490.2	1558.7	1558.7	1601.5	1616.7
50°	1368.1	1474.8	1534.3	1555.8	1589.3	1577.1
52.5°	1365.1	1449.0	1499.4	1537.4	1552.7	1538.9
55°	1369.6	1427.5	1464.1	1506.9	1525.2	1526.8
57.5°	1375.8	1415.4	1439.9	1459.7	1514.5	1514.5
60°	1391.0	1404.7	1418.5	1429.2	1500.8	1502.3
62.5°	1415.4	1394.1	1391.0	1401.6	1493.3	1487.1
65°	1453.5	1378.8	1355.9	1366.6	1485.5	1467.3
67.5°	1505.4	1355.9	1311.6	1319.3	1479.5	1439.9
70°	1552.7	1319.3	1256.8	1249.2	1421.5	1351.3
72.5°	1557.2	1276.6	1180.6	1157.6	1235.3	1168.3
75°	1480.9	1247.7	1096.7	1029.5	1020.4	1011.2
77.5°	1334.6	1230.9	999.0	893.8	875.5	881.5
80°	1116.5	1168.3	881.5	756.6	855.6	844.9
82.5°	834.3	1031.1	748.8	669.5	668.1	590.2
85°	463.6	803.9	610.0	501.9	349.4	338.7
87.5°	129.6	446.8	427.1	283.7	193.8	201.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)