

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: P194754

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194754
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 37090 lumens
Efficiency: N/A
Efficacy: 111.4 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



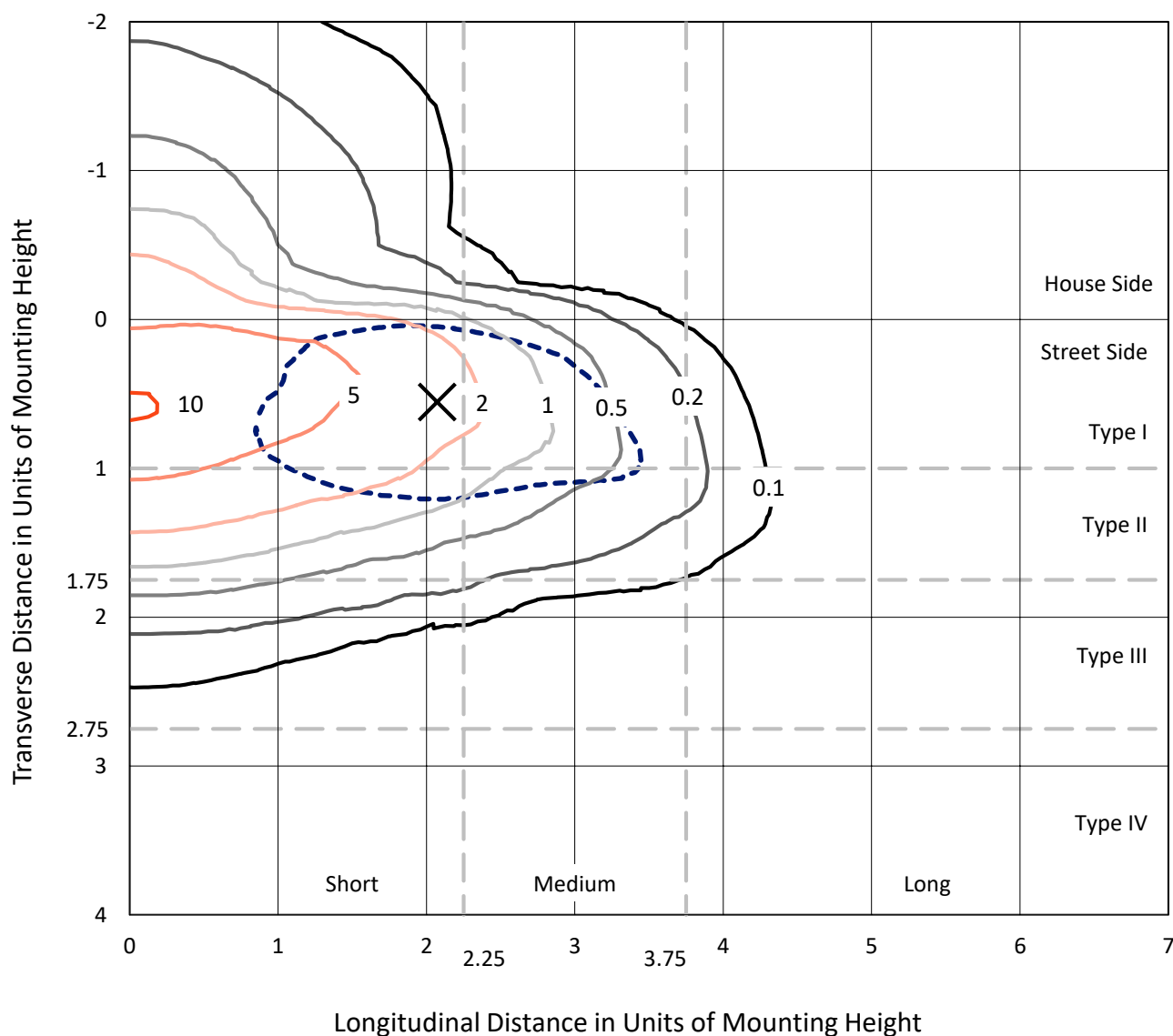
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

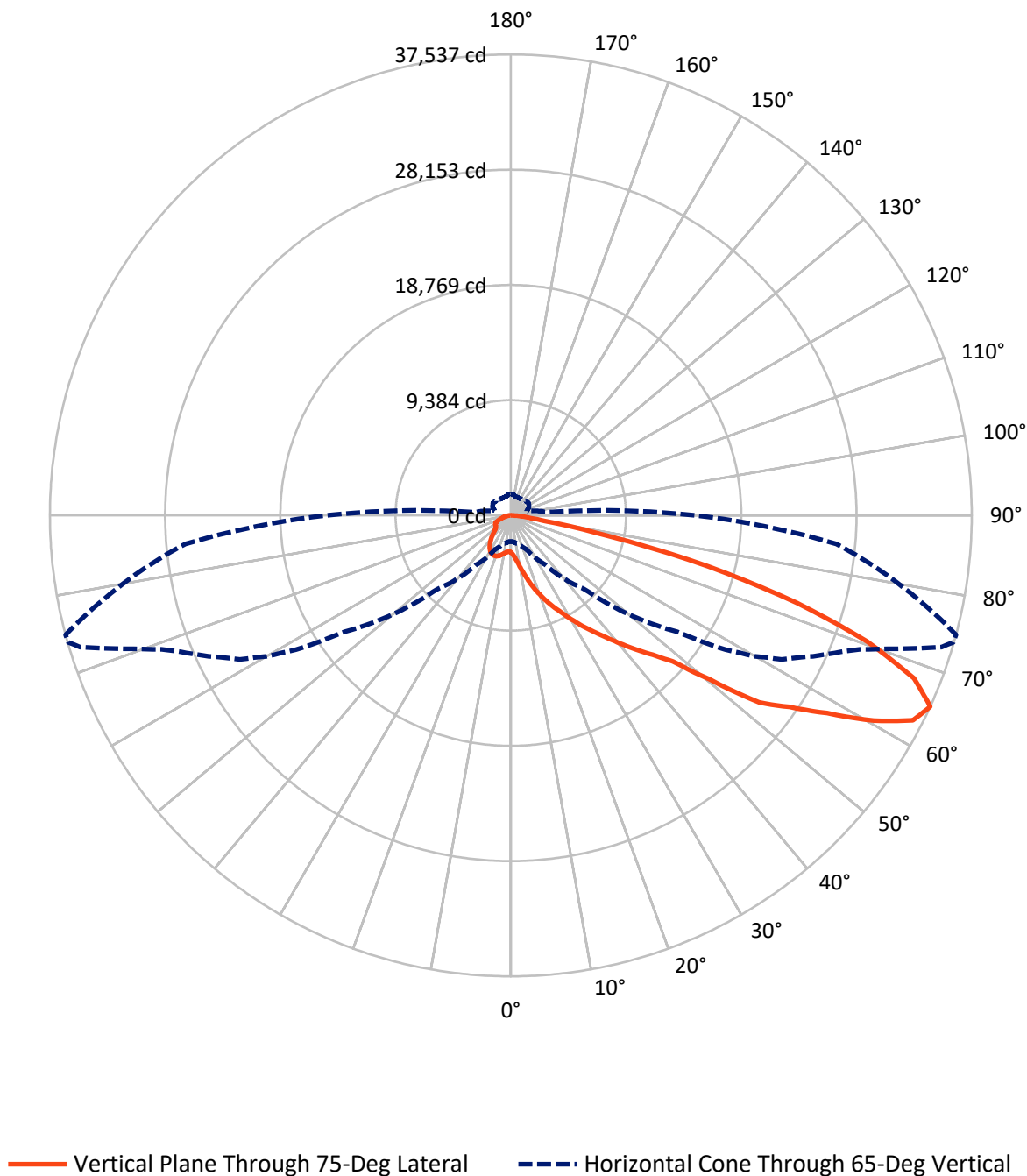


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5718.4	0.0	5718.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	31371.6	0.0	31371.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	37090.0	0.0	37090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.0
10°-20°	1455.7	3.9
20°-30°	2986.7	8.1
30°-40°	5024.9	13.5
40°-50°	6943.1	18.7
50°-60°	8667.0	23.4
60°-70°	7799.4	21.0
70°-80°	3269.4	8.8
80°-90°	571.2	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°	37090.0	100.0
0°-180°	37090.0	100.0

Coefficient of Utilization



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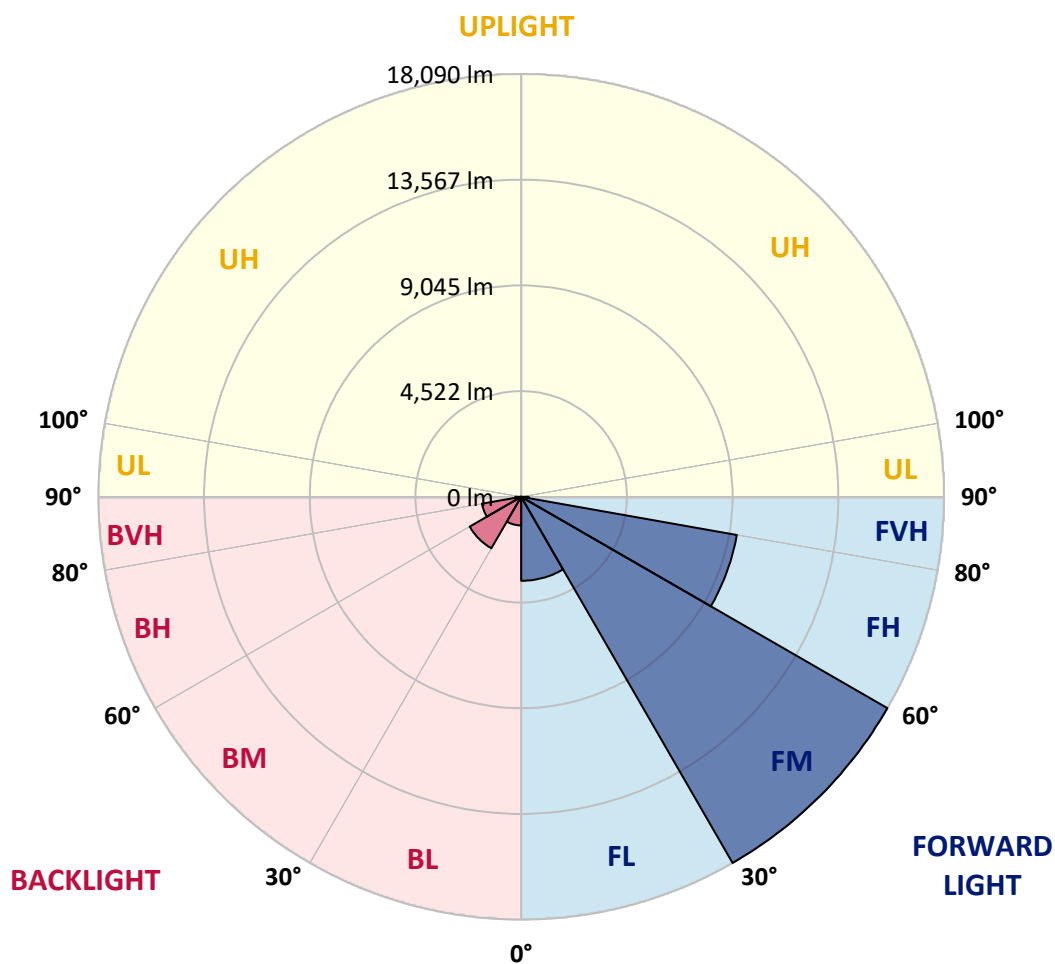
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3592.1	9.7			
FM	(30°-60°)	18089.7	48.8			
FH	(60°-80°)	9368.8	25.3			G4/12000
FVH	(80°-90°)	321.0	0.9			G3/500
BL	(0°-30°)	1222.9	3.3	B3/2500		
BM	(30°-60°)	2545.3	6.9	B3/5000		
BH	(60°-80°)	1700.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	250.1	0.7			G3/500
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°	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3
2.5°	3827.1	3785.0	3795.5	3725.3	3639.2	3526.9	3402.2	3400.5	3402.2	3390.0	3344.3
5°	5307.0	5256.1	5236.8	5078.8	4847.1	4517.0	4158.9	4120.3	4104.5	4064.1	3971.0
7.5°	6386.7	6358.6	6328.7	6209.4	5998.7	5630.0	5149.0	5066.5	4987.5	4968.2	4862.9
10°	7083.6	7076.6	7013.4	6981.8	6850.1	6530.6	6061.9	5982.9	5896.9	5867.0	5756.4
12.5°	7634.9	7633.1	7603.3	7612.0	7497.9	7266.2	6862.4	6790.5	6727.3	6636.0	6557.0
15°	8015.8	8017.6	8061.5	8110.6	8093.1	7936.8	7557.6	7526.0	7471.6	7408.4	7315.4
17.5°	8328.3	8337.1	8382.7	8472.3	8568.8	8556.5	8256.3	8230.0	8182.6	8096.6	8047.4
20°	9034.0	9067.4	8979.6	8979.6	8990.1	9037.5	8893.6	8872.5	8805.8	8760.2	8721.6
22.5°	10226.1	10264.7	10066.3	9864.4	9666.0	9522.1	9378.1	9404.5	9358.8	9327.2	9304.4
25°	11774.4	11804.3	11483.0	11142.4	10738.7	10212.0	9855.6	9839.8	9815.3	9795.9	9785.4
27.5°	13231.5	13243.8	12940.1	12441.6	11972.8	11216.2	10340.2	10320.9	10291.0	10254.1	10222.5
30°	14478.0	14474.5	14162.0	13686.2	13184.1	12346.8	11075.7	11016.0	10928.3	10828.2	10751.0
32.5°	15557.6	15552.4	15210.0	14716.7	14190.1	13466.8	12083.4	11960.5	11823.6	11628.7	11511.1
35°	16407.3	16403.8	16080.8	15566.4	14962.5	14521.9	13238.6	13087.6	12913.8	12652.2	12471.4
37.5°	16728.6	16728.6	16547.8	16196.7	15663.0	15361.0	14521.9	14339.3	14153.2	13856.5	13652.9
40°	16540.8	16544.3	16582.9	16517.9	16258.1	16026.4	15719.2	15610.3	15450.6	15183.7	14971.3
42.5°	15910.5	15929.8	16186.1	16500.4	16630.3	16593.4	16781.3	16732.1	16619.8	16414.4	16245.8
45°	15111.7	15171.4	15452.3	16045.7	16733.9	17083.2	17671.3	17676.6	17655.5	17544.9	17415.0
47.5°	14014.5	14098.8	14469.2	15271.5	16491.6	17559.0	18575.4	18622.8	18666.7	18594.7	18535.1
50°	12557.4	12657.5	13212.2	14276.1	15998.3	18052.3	20283.6	20497.8	20697.9	20673.3	20713.7
52.5°	10996.7	11114.4	11793.8	12978.7	15150.4	18166.4	21375.5	21724.9	22074.2	22360.4	22664.1
55°	9588.8	9525.6	10205.0	11453.2	13756.5	17652.0	22356.9	22778.2	23167.9	23519.0	23880.7
57.5°	7680.5	7784.1	8465.2	9699.4	11911.4	16200.2	23032.8	23649.0	24209.0	24790.1	25302.7
60°	5614.2	5717.8	6456.9	7710.4	9908.3	13998.7	22516.6	23450.6	24347.7	25237.7	25932.9
62.5°	3390.0	3467.2	4118.5	5312.3	7640.1	11388.2	20216.9	21442.2	22762.4	23826.3	24891.9
65°	2110.2	2154.1	2394.6	3051.1	4906.8	8502.1	16517.9	17853.9	19275.9	20625.9	21733.7
67.5°	1727.5	1743.3	1787.1	1927.6	2694.8	5544.0	12294.1	13477.3	14760.6	16066.8	17299.1
70°	1553.7	1543.1	1543.1	1551.9	1727.5	2980.9	8049.2	8819.9	9889.0	11024.8	12151.9
72.5°	1402.7	1392.1	1372.8	1346.5	1409.7	1818.7	4160.6	4741.7	5512.4	6521.9	7601.5
75°	1260.5	1246.4	1223.6	1190.3	1234.1	1372.8	1997.8	2241.8	2617.5	3154.7	3756.9
77.5°	1113.0	1095.5	1074.4	1049.8	1106.0	1067.4	1170.9	1258.7	1402.7	1574.7	1801.2
80°	946.2	930.4	923.4	911.1	977.8	812.8	826.9	881.3	965.6	1058.6	1163.9
82.5°	740.8	740.8	768.9	774.2	847.9	584.6	618.0	665.4	709.2	758.4	807.6
85°	488.0	491.6	586.4	623.2	668.9	393.2	463.5	479.3	514.4	542.5	563.5
87.5°	152.7	165.0	358.1	396.8	384.5	223.0	284.4	291.4	316.0	335.3	352.9
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°	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3
2.5°	3344.3	3323.2	3303.9	3302.2	3288.1	3268.8	3275.8	3246.0	3247.8	3232.0	3214.4
5°	3932.4	3918.4	3848.2	3828.8	3776.2	3742.8	3737.6	3667.3	3658.6	3618.2	3574.3
7.5°	4778.6	4733.0	4634.6	4587.2	4497.7	4431.0	4399.4	4306.4	4260.7	4155.4	4108.0
10°	5665.1	5607.2	5486.1	5419.4	5333.3	5226.3	5168.3	5033.1	4980.5	4883.9	4768.1
12.5°	6486.7	6428.8	6304.2	6253.3	6139.1	6025.0	5961.8	5809.1	5740.6	5586.1	5494.9
15°	7246.9	7189.0	7080.1	7027.4	6913.3	6820.3	6736.0	6585.1	6504.3	6360.3	6241.0
17.5°	7984.2	7922.8	7828.0	7780.6	7670.0	7575.2	7483.9	7341.7	7259.2	7115.2	7008.1
20°	8668.9	8623.2	8554.8	8491.6	8381.0	8295.0	8186.1	8063.2	7943.8	7838.5	7736.7
22.5°	9265.8	9248.2	9174.5	9146.4	9051.6	8977.9	8883.1	8761.9	8675.9	8542.5	8447.7
25°	9780.1	9774.9	9739.8	9731.0	9664.3	9594.1	9573.0	9472.9	9393.9	9276.3	9178.0
27.5°	10222.5	10227.8	10219.0	10243.6	10226.1	10194.5	10196.2	10162.9	10117.2	10018.9	9932.9
30°	10714.1	10686.0	10701.8	10736.9	10747.5	10751.0	10808.9	10828.2	10824.7	10759.7	10717.6
32.5°	11409.3	11342.6	11281.1	11275.9	11311.0	11325.0	11423.3	11474.2	11518.1	11533.9	11541.0
35°	12295.8	12162.4	12034.3	11965.8	11906.1	11921.9	11992.1	12074.6	12171.2	12237.9	12316.9
37.5°	13412.4	13249.1	13022.6	12861.1	12820.8	12733.0	12778.6	12843.6	12938.4	13041.9	13178.9
40°	14765.9	14518.4	14263.8	14049.6	13933.8	13772.3	13770.5	13758.2	13816.1	13912.7	14105.8
42.5°	16068.5	15849.1	15578.7	15354.0	15203.0	14987.1	14943.2	14829.1	14855.4	14939.7	15127.5
45°	17288.6	17107.8	16942.8	16683.0	16554.8	16321.3	16247.6	16112.4	16036.9	16075.5	16263.4
47.5°	18470.1	18354.2	18182.2	18013.7	17915.3	17706.4	17611.6	17515.1	17418.5	17415.0	17611.6
50°	20773.4	20711.9	20508.3	20332.7	20380.1	20123.8	20139.6	19879.8	19997.4	20011.5	20424.0
52.5°	22938.0	23152.1	23303.1	23487.4	23606.8	23629.6	23708.6	23826.3	23968.5	24249.4	24632.1
55°	24177.4	24446.0	24602.2	24742.7	24974.4	25023.5	25155.2	25311.5	25436.1	25752.1	26076.9
57.5°	25650.3	26148.9	26391.1	26614.1	26926.6	27045.9	27265.4	27435.7	27597.2	27971.1	28364.4
60°	26557.9	27165.3	27658.6	28011.5	28403.0	28683.9	29015.7	29282.5	29661.7	30109.4	30695.7
62.5°	25836.4	26728.2	27383.0	27988.7	28520.6	29057.8	29533.5	30032.1	30607.9	31285.6	32195.0
65°	22962.5	23870.2	24991.9	25620.4	26324.4	27153.0	27876.3	28683.9	29468.6	30455.2	31800.0
67.5°	18485.9	19541.0	20801.5	21435.2	22244.5	23169.7	23980.8	24967.4	25883.8	27079.3	28741.8
70°	13324.6	14688.7	15749.0	16410.8	17355.3	18308.6	19091.6	20239.7	20998.1	22223.5	23942.1
72.5°	8437.2	9513.3	10812.4	11646.3	12485.4	13451.0	14251.5	15241.6	15949.1	17065.7	18622.8
75°	4536.3	5329.8	6470.9	7262.7	8161.5	8986.6	9924.1	10587.7	11110.8	11993.9	13257.9
77.5°	2126.0	2608.7	3186.3	3795.5	4404.7	5040.2	5658.1	6195.3	6420.0	6925.6	7671.7
80°	1290.3	1446.6	1615.1	1802.9	2057.5	2262.9	2535.0	2731.6	2745.7	2905.4	3133.6
82.5°	862.0	919.9	970.8	1018.2	1083.2	1134.1	1192.0	1260.5	1288.6	1325.4	1399.2
85°	588.1	616.2	626.7	656.6	649.6	667.1	689.9	712.8	725.0	723.3	756.6
87.5°	361.6	375.7	382.7	389.7	384.5	377.4	388.0	400.3	403.8	393.2	396.8
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°	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3
2.5°	3217.9	3202.1	3186.3	3175.8	3172.3	3079.2	3038.8	3012.5	2956.3	2910.7	2873.8
5°	3549.7	3516.4	3490.0	3458.4	3440.9	3205.6	3119.6	3059.9	2961.6	2903.7	2851.0
7.5°	4083.4	3990.4	3935.9	3874.5	3821.8	3397.0	3254.8	3161.7	3024.8	2947.6	2887.9
10°	4689.1	4592.5	4506.5	4411.7	4329.2	3651.5	3444.4	3300.4	3119.6	3019.5	2940.5
12.5°	5364.9	5270.1	5161.3	5040.2	4934.8	3974.6	3686.6	3481.2	3233.7	3100.3	2989.7
15°	6163.7	5996.9	5865.3	5724.8	5601.9	4360.8	3969.3	3684.9	3354.8	3174.0	3026.6
17.5°	6906.3	6730.8	6551.7	6428.8	6286.6	4794.4	4253.7	3892.0	3454.9	3221.4	3033.6
20°	7631.4	7440.0	7285.5	7120.5	6971.3	5243.8	4557.4	4074.6	3519.9	3223.2	2989.7
22.5°	8270.4	8151.0	7979.0	7799.9	7648.9	5693.2	4841.8	4229.1	3544.4	3182.8	2912.5
25°	8997.2	8870.8	8660.1	8509.1	8340.6	6151.4	5120.9	4348.5	3530.4	3107.3	2793.1
27.5°	9773.1	9632.7	9416.7	9258.7	9055.1	6627.2	5377.2	4434.5	3477.7	2984.4	2633.3
30°	10582.4	10454.3	10241.9	10082.1	9876.7	7131.0	5663.4	4492.4	3372.4	2814.1	2447.2
32.5°	11451.4	11344.3	11133.7	10966.9	10747.5	7677.0	5930.2	4510.0	3212.6	2612.3	2250.6
35°	12276.5	12202.8	12025.5	11869.2	11641.0	8193.1	6212.9	4501.2	3023.0	2391.1	2071.5
37.5°	13205.2	13161.3	13073.5	12875.2	12596.0	8893.6	6551.7	4464.4	2791.3	2171.6	1934.6
40°	14195.3	14198.9	14104.1	13968.9	13709.1	9743.3	6955.5	4392.4	2538.5	1978.5	1810.0
42.5°	15243.4	15297.8	15252.2	15155.6	14906.3	10600.0	7438.2	4304.6	2292.7	1790.7	1687.1
45°	16444.2	16510.9	16581.1	16438.9	16196.7	11730.6	8073.8	4190.5	2027.7	1634.4	1602.8
47.5°	17829.3	17934.7	17997.9	17999.6	17757.3	13131.5	9106.0	4122.0	1792.4	1529.1	1562.4
50°	20752.3	20785.7	20934.9	21194.7	21008.6	16374.0	10909.0	4079.9	1632.7	1464.1	1532.6
52.5°	24963.9	25330.8	25588.8	25571.3	25318.5	18433.2	11902.6	3862.2	1537.9	1439.5	1518.5
55°	26679.0	27137.2	27614.7	27741.1	27544.5	20190.5	12841.8	3644.5	1492.2	1457.1	1523.8
57.5°	28964.7	29737.2	30392.0	30667.6	30383.2	22439.4	14077.7	3530.4	1478.2	1504.5	1557.2
60°	31634.9	32590.0	33450.2	33945.2	33945.2	25023.5	15359.3	3483.0	1458.9	1574.7	1613.3
62.5°	33350.1	34752.8	36051.9	36776.9	36755.9	26823.0	15928.1	3321.5	1415.0	1623.9	1690.6
65°	33357.1	35024.9	36680.4	37494.9	37537.1	26601.8	14988.8	2933.5	1334.2	1630.9	1767.8
67.5°	30576.3	32354.7	34284.1	35195.2	35405.8	24488.1	12975.2	2412.1	1202.5	1560.7	1795.9
70°	25824.1	27560.3	29530.0	30425.4	30799.3	20875.2	10450.8	1859.1	1034.0	1406.2	1738.0
72.5°	20345.0	22047.9	23419.0	24073.8	24365.2	15956.2	7610.3	1404.4	847.9	1185.0	1581.7
75°	14404.3	15682.3	16410.8	16556.6	16602.2	9618.6	4624.1	1044.5	698.7	921.7	1336.0
77.5°	8129.9	8677.7	8618.0	8682.9	8142.2	3713.0	2013.6	747.9	575.8	700.5	1035.8
80°	3174.0	3272.3	3074.0	3012.5	2763.2	1381.6	888.3	521.4	460.0	530.2	725.0
82.5°	1399.2	1444.8	1402.7	1413.2	1351.8	712.8	531.9	377.4	351.1	388.0	481.0
85°	770.7	784.7	781.2	804.0	770.7	284.4	252.8	231.7	245.8	263.3	309.0
87.5°	375.7	379.2	366.9	386.2	373.9	144.0	124.6	131.7	144.0	147.5	147.5
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):

	135°	145°	155°	165°	175°	180°
0°	3014.3	3014.3	3014.3	3014.3	3014.3	3014.3
2.5°	2847.5	2833.5	2835.2	2831.7	2824.7	2824.7
5°	2822.9	2808.9	2808.9	2805.4	2796.6	2798.3
7.5°	2847.5	2824.7	2815.9	2803.6	2791.3	2791.3
10°	2875.6	2835.2	2810.6	2789.6	2773.8	2773.8
12.5°	2896.7	2833.5	2793.1	2765.0	2749.2	2749.2
15°	2903.7	2821.2	2765.0	2731.6	2717.6	2715.8
17.5°	2880.9	2773.8	2705.3	2666.7	2649.1	2643.9
20°	2810.6	2687.7	2605.2	2561.3	2536.8	2528.0
22.5°	2705.3	2564.9	2468.3	2422.7	2391.1	2385.8
25°	2557.8	2406.9	2312.1	2268.2	2250.6	2245.3
27.5°	2385.8	2245.3	2164.6	2136.5	2120.7	2118.9
30°	2222.5	2103.1	2043.5	2022.4	2003.1	1999.6
32.5°	2069.8	1994.3	1971.5	1941.6	1896.0	1890.7
35°	1960.9	1953.9	1938.1	1871.4	1815.2	1799.4
37.5°	1894.2	1959.2	1878.4	1746.8	1706.4	1702.9
40°	1855.6	1904.8	1766.1	1720.4	1723.9	1720.4
42.5°	1767.8	1818.7	1769.6	1748.5	1762.6	1766.1
45°	1680.1	1736.2	1795.9	1781.9	1815.2	1815.2
47.5°	1630.9	1715.2	1794.2	1794.2	1843.3	1860.9
50°	1574.7	1697.6	1766.1	1790.7	1829.3	1815.2
52.5°	1571.2	1667.8	1725.7	1769.6	1787.1	1771.3
55°	1576.5	1643.2	1685.3	1734.5	1755.5	1757.3
57.5°	1583.5	1629.1	1657.2	1680.1	1743.3	1743.3
60°	1601.1	1616.9	1632.7	1644.9	1727.5	1729.2
62.5°	1629.1	1604.6	1601.1	1613.3	1718.7	1711.7
65°	1673.0	1587.0	1560.7	1573.0	1709.9	1688.8
67.5°	1732.7	1560.7	1509.8	1518.5	1702.9	1657.2
70°	1787.1	1518.5	1446.6	1437.8	1636.2	1555.4
72.5°	1792.4	1469.4	1358.8	1332.5	1422.0	1344.7
75°	1704.6	1436.0	1262.2	1185.0	1174.5	1163.9
77.5°	1536.1	1416.7	1149.9	1028.7	1007.7	1014.7
80°	1285.1	1344.7	1014.7	870.8	984.9	972.6
82.5°	960.3	1186.7	862.0	770.7	768.9	679.4
85°	533.7	925.2	702.2	577.6	402.0	389.7
87.5°	149.2	514.4	491.6	326.5	223.0	231.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)