

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: P193154

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193154
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 35872 lumens
Efficiency: N/A
Efficacy: 107.7 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



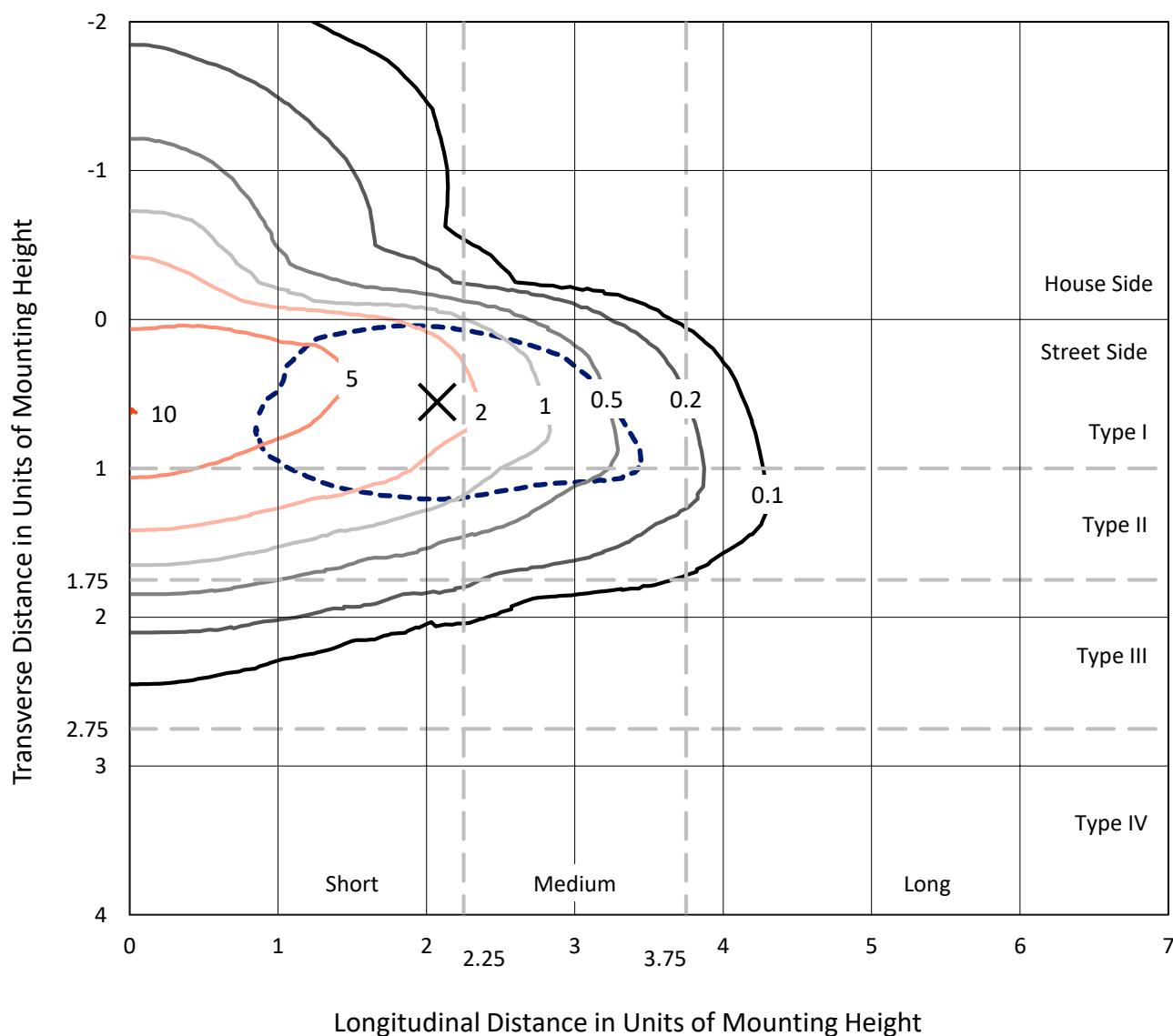
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

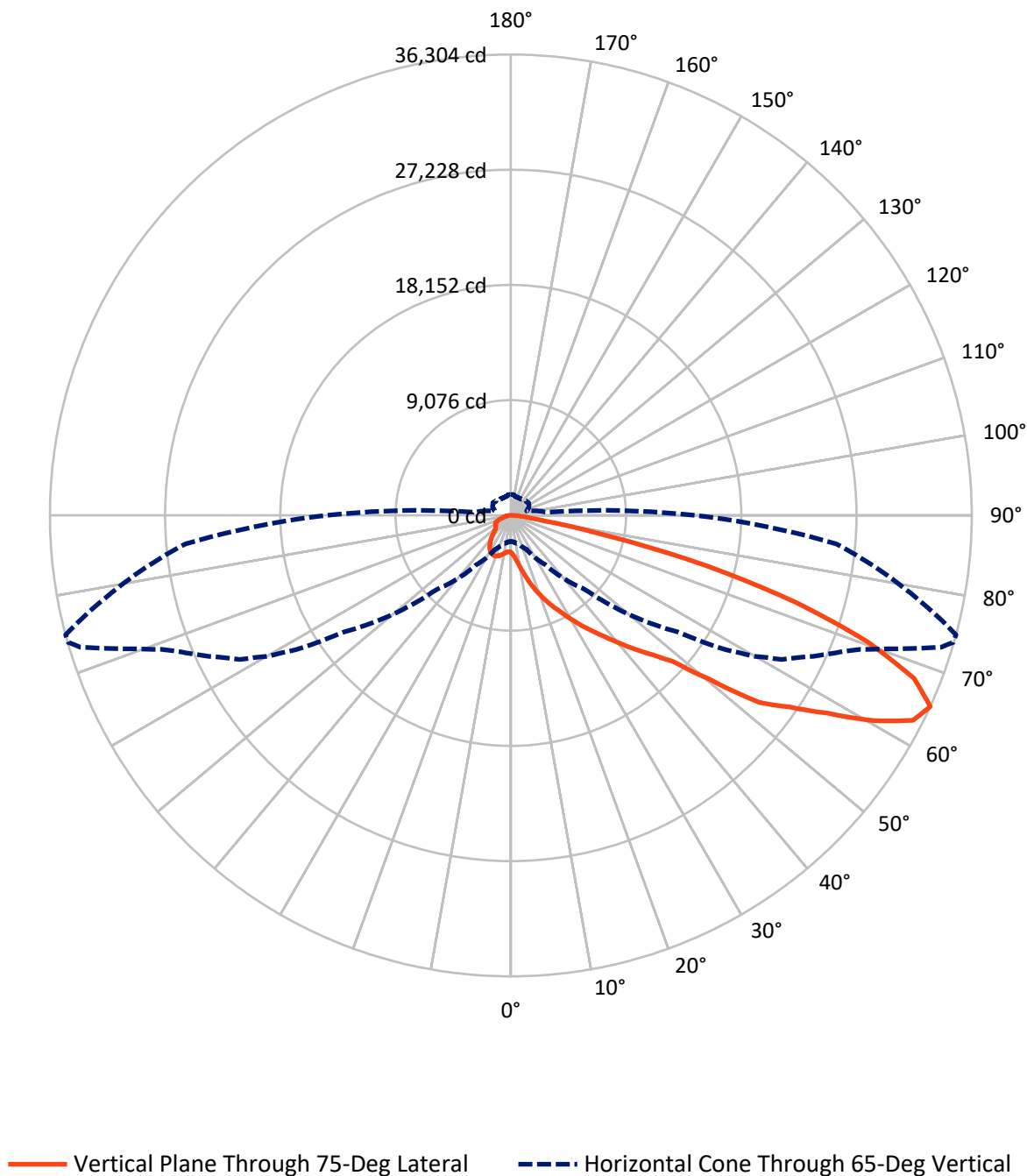


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5530.6	0.0	5530.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	30341.4	0.0	30341.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	35872.0	0.0	35872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	1.0
10°-20°	1407.9	3.9
20°-30°	2888.6	8.1
30°-40°	4859.9	13.5
40°-50°	6715.0	18.7
50°-60°	8382.4	23.4
60°-70°	7543.3	21.0
70°-80°	3162.1	8.8
80°-90°	552.4	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°	35872.0	100.0
0°-180°	35872.0	100.0

Coefficient of Utilization



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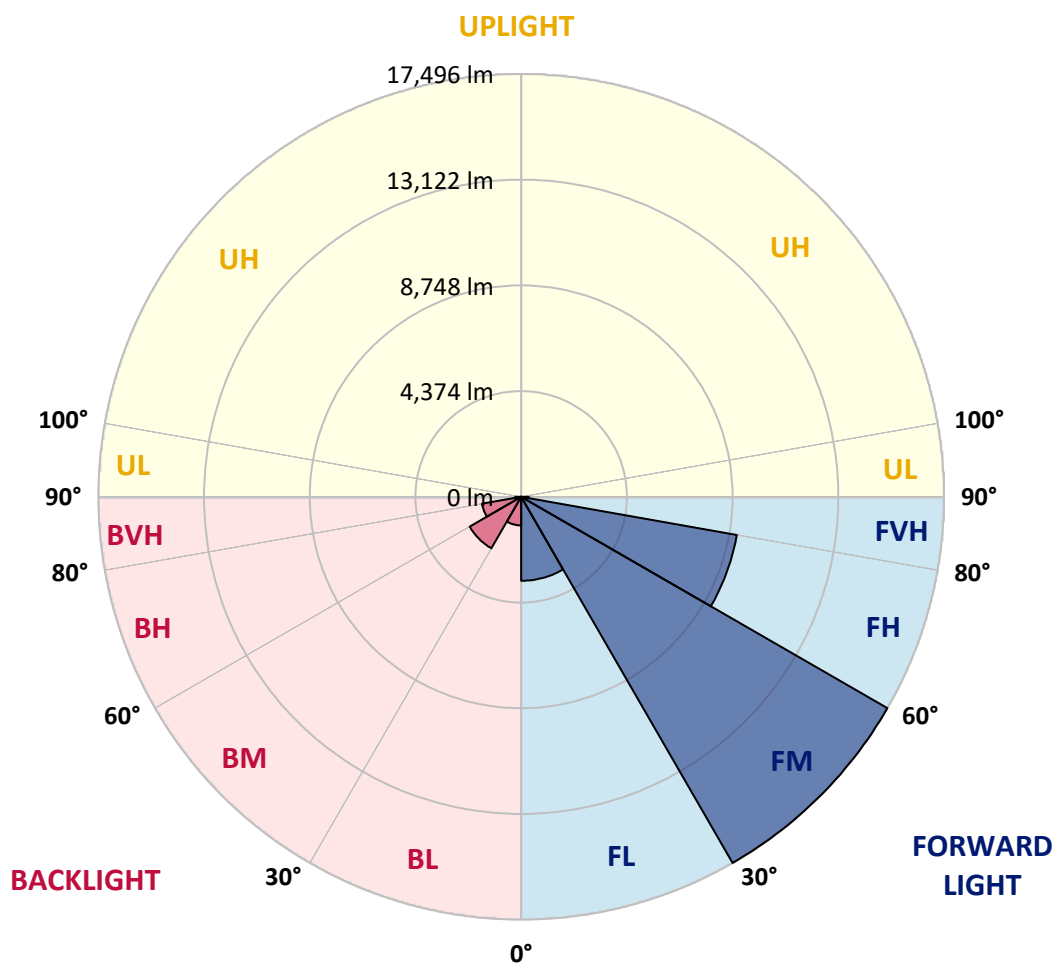
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3474.1	9.7			
FM	(30°-60°)	17495.6	48.8			
FH	(60°-80°)	9061.1	25.3			G4/12000
FVH	(80°-90°)	310.5	0.9			G3/500
BL	(0°-30°)	1182.8	3.3	B3/2500		
BM	(30°-60°)	2461.7	6.9	B2/2500		
BH	(60°-80°)	1644.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	241.9	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°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	3701.3	3660.6	3670.9	3603.0	3519.8	3411.1	3290.6	3288.8	3290.6	3278.7	3234.5
5°	5132.8	5083.5	5064.8	4912.0	4687.9	4368.7	4022.3	3985.0	3969.7	3930.6	3840.7
7.5°	6177.0	6149.7	6120.9	6005.4	5801.6	5445.2	4979.9	4900.2	4823.7	4805.0	4703.2
10°	6851.0	6844.2	6783.2	6752.6	6625.2	6316.2	5862.9	5786.5	5703.3	5674.4	5567.5
12.5°	7384.2	7382.4	7353.5	7362.1	7251.7	7027.5	6637.1	6567.5	6506.4	6418.0	6341.6
15°	7752.6	7754.2	7796.7	7844.3	7827.4	7676.2	7309.5	7278.9	7226.2	7165.1	7075.1
17.5°	8054.8	8063.4	8107.5	8194.0	8287.5	8275.6	7985.2	7959.7	7913.8	7830.7	7783.2
20°	8737.4	8769.5	8684.7	8684.7	8695.0	8740.7	8601.6	8581.1	8516.6	8472.5	8435.2
22.5°	9890.2	9927.7	9735.8	9540.5	9348.7	9209.4	9070.1	9095.7	9051.5	9020.9	8998.8
25°	11387.8	11416.6	11105.9	10776.6	10386.0	9876.7	9532.0	9516.7	9492.9	9474.3	9464.0
27.5°	12797.0	12808.9	12515.2	12032.9	11579.7	10847.8	10000.6	9981.9	9953.1	9917.4	9886.9
30°	14002.5	13999.2	13697.0	13236.8	12751.2	11941.3	10712.0	10654.3	10569.4	10472.6	10397.8
32.5°	15046.7	15041.6	14710.5	14233.4	13724.0	13024.6	11686.6	11567.8	11435.3	11246.8	11133.1
35°	15868.5	15865.1	15552.7	15055.3	14471.2	14045.0	12803.9	12657.8	12489.8	12236.7	12061.9
37.5°	16179.2	16179.2	16004.4	15664.8	15148.6	14856.6	14045.0	13868.4	13688.4	13401.5	13204.5
40°	15997.5	16001.0	16038.2	15975.5	15724.1	15500.1	15203.0	15097.7	14943.2	14685.1	14479.7
42.5°	15388.1	15406.6	15654.5	15958.5	16084.2	16048.5	16230.1	16182.6	16074.0	15875.4	15712.3
45°	14615.5	14673.2	14944.9	15518.7	16184.3	16522.1	17091.0	17096.2	17075.7	16968.7	16843.1
47.5°	13554.2	13635.8	13994.0	14770.0	15950.0	16982.3	17965.4	18011.3	18053.7	17984.1	17926.3
50°	12145.0	12241.9	12778.3	13807.3	15473.0	17459.4	19617.5	19824.6	20018.2	19994.5	20033.4
52.5°	10635.7	10749.4	11406.4	12552.6	14652.9	17569.9	20673.6	21011.4	21349.4	21626.1	21919.8
55°	9273.9	9212.7	9869.8	11077.0	13304.7	17072.3	21622.7	22030.2	22407.1	22746.6	23096.5
57.5°	7428.3	7528.5	8187.3	9380.9	11520.2	15668.3	22276.5	22872.4	23413.9	23976.0	24471.8
60°	5429.8	5530.0	6244.8	7457.2	9582.9	13539.0	21777.2	22680.5	23548.1	24408.9	25081.3
62.5°	3278.7	3353.3	3983.3	5137.8	7389.2	11014.2	19552.9	20738.1	22014.8	23043.9	24074.4
65°	2040.9	2083.3	2316.0	2951.0	4745.5	8223.0	15975.5	17267.6	18642.9	19948.5	21020.0
67.5°	1670.7	1686.0	1728.5	1864.3	2606.3	5362.0	11890.3	13034.7	14276.0	15539.2	16731.1
70°	1502.7	1492.5	1492.5	1500.9	1670.7	2883.1	7784.8	8530.2	9564.2	10662.8	11752.8
72.5°	1356.7	1346.4	1327.7	1302.3	1363.4	1759.1	4024.0	4586.0	5331.5	6307.6	7351.8
75°	1219.2	1205.4	1183.4	1151.1	1193.6	1327.7	1932.2	2168.2	2531.5	3051.1	3633.5
77.5°	1076.4	1059.5	1039.2	1015.3	1069.6	1032.3	1132.5	1217.3	1356.7	1523.0	1742.0
80°	915.1	899.9	893.0	881.1	945.7	786.1	799.7	852.3	933.8	1023.9	1125.7
82.5°	716.5	716.5	743.7	748.8	820.1	565.4	597.6	643.5	685.9	733.4	780.9
85°	472.0	475.4	567.0	602.8	647.0	380.3	448.3	463.5	497.4	524.7	544.9
87.5°	147.7	159.6	346.4	383.7	371.8	215.7	275.0	281.9	305.6	324.3	341.3
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	3234.5	3214.1	3195.4	3193.7	3180.2	3161.5	3168.3	3139.4	3141.1	3125.8	3108.9
5°	3803.4	3789.6	3721.8	3703.2	3652.2	3619.9	3614.9	3546.9	3538.4	3499.3	3457.0
7.5°	4621.6	4577.5	4482.5	4436.6	4350.0	4285.4	4254.9	4165.0	4120.8	4018.9	3973.1
10°	5479.2	5423.1	5305.9	5241.3	5158.2	5054.7	4998.6	4867.8	4816.9	4723.5	4611.5
12.5°	6273.7	6217.7	6097.1	6047.9	5937.5	5827.2	5766.0	5618.3	5552.1	5402.7	5314.4
15°	7008.9	6952.9	6847.6	6796.7	6686.3	6596.3	6514.8	6368.8	6290.7	6151.6	6036.0
17.5°	7722.0	7662.6	7570.9	7525.1	7418.1	7326.4	7238.1	7100.6	7020.8	6881.5	6778.0
20°	8384.2	8340.1	8273.8	8212.7	8105.7	8022.6	7917.3	7798.4	7683.0	7581.1	7482.6
22.5°	8961.5	8944.5	8873.2	8846.0	8754.4	8683.1	8591.4	8474.1	8391.0	8261.9	8170.3
25°	9459.0	9453.8	9419.9	9411.5	9346.9	9279.0	9258.6	9161.8	9085.5	8971.8	8876.6
27.5°	9886.9	9891.9	9883.5	9907.2	9890.2	9859.7	9861.4	9829.1	9784.9	9689.8	9606.7
30°	10362.2	10335.1	10350.3	10384.3	10394.5	10397.8	10453.9	10472.6	10469.2	10406.4	10365.7
32.5°	11034.6	10970.0	10910.6	10905.6	10939.6	10953.1	11048.2	11097.5	11139.8	11155.2	11161.9
35°	11892.1	11763.1	11639.1	11572.8	11515.2	11530.4	11598.3	11678.1	11771.5	11836.0	11912.4
37.5°	12972.0	12814.0	12595.0	12438.7	12399.8	12314.8	12359.0	12421.8	12513.5	12613.7	12746.0
40°	14281.0	14041.6	13795.4	13588.2	13476.1	13320.1	13318.2	13306.3	13362.4	13455.9	13642.5
42.5°	15540.8	15328.6	15067.1	14849.8	14703.8	14494.9	14452.5	14342.1	14367.6	14449.1	14630.8
45°	16720.8	16546.0	16386.3	16135.1	16011.2	15785.3	15714.0	15583.3	15510.2	15547.6	15729.3
47.5°	17863.6	17751.5	17585.1	17422.2	17327.0	17125.0	17033.3	16939.9	16846.4	16843.1	17033.3
50°	20091.2	20031.8	19834.8	19665.0	19710.9	19463.0	19478.3	19227.0	19340.7	19354.3	19753.3
52.5°	22184.6	22391.8	22537.9	22716.1	22831.6	22853.6	22930.0	23043.9	23181.3	23453.0	23823.2
55°	23383.4	23643.1	23794.3	23930.2	24154.3	24201.8	24329.1	24480.3	24600.9	24906.4	25220.6
57.5°	24808.0	25290.1	25524.5	25740.1	26042.3	26157.8	26370.0	26534.7	26691.0	27052.6	27433.0
60°	25685.8	26273.2	26750.4	27091.6	27470.3	27741.9	28062.8	28320.9	28687.6	29120.7	29687.7
62.5°	24987.9	25850.4	26483.8	27069.5	27584.0	28103.5	28563.6	29045.9	29602.8	30258.2	31137.7
65°	22208.5	23086.3	24171.2	24779.1	25459.9	26261.3	26961.0	27741.9	28500.9	29455.1	30755.7
67.5°	17878.8	18899.2	20118.4	20731.3	21514.0	22408.8	23193.2	24147.5	25033.8	26190.0	27798.0
70°	12887.0	14206.3	15231.9	15871.9	16785.4	17707.3	18464.6	19575.0	20308.6	21493.7	23155.9
72.5°	8160.1	9200.9	10457.3	11263.9	12075.5	13009.3	13783.5	14741.1	15425.3	16505.2	18011.3
75°	4387.5	5154.9	6258.5	7024.2	7893.6	8691.6	9598.2	10240.0	10745.9	11600.0	12822.5
77.5°	2056.1	2523.2	3081.6	3670.9	4260.0	4874.7	5472.4	5991.9	6209.2	6698.2	7419.8
80°	1248.0	1399.1	1562.1	1743.8	1989.9	2188.6	2451.8	2641.9	2655.5	2810.0	3030.8
82.5°	833.6	889.7	939.0	984.8	1047.6	1096.9	1152.9	1219.2	1246.2	1281.9	1353.1
85°	568.8	596.0	606.2	635.1	628.2	645.1	667.2	689.3	701.2	699.6	731.8
87.5°	349.7	363.4	370.2	377.0	371.8	365.0	375.2	387.1	390.5	380.3	383.7
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°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	3112.2	3097.0	3081.6	3071.5	3068.1	2978.1	2939.1	2913.6	2859.2	2815.1	2779.4
5°	3433.2	3400.9	3375.4	3344.9	3327.9	3100.3	3017.2	2959.4	2864.3	2808.3	2757.3
7.5°	3949.2	3859.4	3806.7	3747.3	3696.3	3285.4	3147.9	3057.9	2925.5	2850.8	2793.0
10°	4535.1	4441.7	4358.5	4266.8	4187.1	3531.6	3331.4	3192.0	3017.2	2920.4	2844.0
12.5°	5188.7	5097.1	4991.8	4874.7	4772.8	3844.1	3565.5	3367.0	3127.5	2998.5	2891.5
15°	5961.3	5800.0	5672.6	5536.8	5417.9	4217.6	3839.0	3563.9	3244.7	3069.7	2927.2
17.5°	6679.6	6509.7	6336.5	6217.7	6080.2	4637.0	4114.0	3764.2	3341.4	3115.6	2933.9
20°	7380.8	7195.7	7046.2	6886.6	6742.4	5071.6	4407.7	3940.8	3404.3	3117.3	2891.5
22.5°	7998.8	7883.3	7717.0	7543.7	7397.7	5506.2	4682.8	4090.2	3428.0	3078.3	2816.8
25°	8701.7	8579.5	8375.7	8229.7	8066.7	5949.3	4952.7	4205.7	3414.5	3005.2	2701.3
27.5°	9452.2	9316.3	9107.6	8954.7	8757.7	6409.5	5200.6	4288.9	3363.5	2886.4	2546.9
30°	10234.9	10111.0	9905.6	9751.1	9552.3	6896.9	5477.3	4344.9	3261.6	2721.7	2366.9
32.5°	11075.4	10971.9	10768.0	10606.8	10394.5	7424.9	5735.4	4361.8	3107.2	2526.5	2176.7
35°	11873.4	11802.0	11630.5	11479.5	11258.7	7924.0	6008.8	4353.4	2923.8	2312.6	2003.5
37.5°	12771.6	12729.1	12644.2	12452.4	12182.4	8601.6	6336.5	4317.7	2699.7	2100.3	1871.1
40°	13729.2	13732.6	13640.9	13510.1	13258.8	9423.3	6727.1	4248.1	2455.2	1913.5	1750.6
42.5°	14742.8	14795.5	14751.3	14657.9	14416.9	10251.9	7193.9	4163.3	2217.4	1731.9	1631.7
45°	15904.3	15968.7	16036.6	15899.1	15664.8	11345.4	7808.6	4052.9	1961.1	1580.8	1550.2
47.5°	17243.9	17345.7	17406.8	17408.5	17174.3	12700.3	8807.0	3986.7	1733.5	1478.9	1511.2
50°	20070.8	20103.0	20247.4	20498.6	20318.7	15836.2	10550.7	3945.9	1579.1	1416.0	1482.2
52.5°	24144.1	24498.9	24748.6	24731.5	24487.0	17828.0	11511.8	3735.3	1487.3	1392.3	1468.7
55°	25802.8	26246.0	26707.9	26830.1	26640.0	19527.5	12420.1	3524.8	1443.2	1409.2	1473.8
57.5°	28013.5	28760.7	29393.9	29660.5	29385.5	21702.5	13615.5	3414.5	1429.6	1455.2	1506.0
60°	30596.1	31519.7	32351.6	32830.5	32830.5	24201.8	14854.9	3368.6	1411.0	1523.0	1560.3
62.5°	32254.9	33611.5	34868.0	35569.3	35548.8	25942.2	15405.0	3212.4	1368.5	1570.6	1635.1
65°	32261.7	33874.7	35475.8	36263.7	36304.4	25728.3	14496.6	2837.1	1290.4	1577.3	1709.8
67.5°	29572.2	31292.2	33158.2	34039.4	34243.2	23683.9	12549.2	2332.9	1163.1	1509.4	1736.9
70°	24976.0	26655.2	28560.3	29426.2	29787.9	20189.7	10107.6	1798.1	1000.0	1360.1	1681.0
72.5°	19676.9	21323.9	22649.9	23283.2	23565.0	15432.3	7360.4	1358.3	820.1	1146.1	1529.8
75°	13931.2	15167.3	15871.9	16012.8	16057.0	9302.8	4472.3	1010.2	675.8	891.4	1292.1
77.5°	7863.0	8392.8	8335.0	8397.7	7874.9	3591.1	1947.4	723.3	556.9	677.4	1001.8
80°	3069.7	3164.9	2973.1	2913.6	2672.5	1336.2	859.1	504.2	444.8	512.8	701.2
82.5°	1353.1	1397.3	1356.7	1366.9	1307.4	689.3	514.5	365.0	339.6	375.2	465.2
85°	745.3	759.0	755.5	777.6	745.3	275.0	244.5	224.1	237.7	254.7	298.9
87.5°	363.4	366.8	354.9	373.5	361.6	139.2	120.5	127.4	139.2	142.6	142.6
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):

	135°	145°	155°	165°	175°	180°
0°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	2754.0	2740.4	2742.1	2738.7	2731.9	2731.9
5°	2730.2	2716.6	2716.6	2713.2	2704.7	2706.5
7.5°	2754.0	2731.9	2723.4	2711.5	2699.7	2699.7
10°	2781.2	2742.1	2718.4	2697.9	2682.7	2682.7
12.5°	2801.5	2740.4	2701.3	2674.2	2659.0	2659.0
15°	2808.3	2728.5	2674.2	2641.9	2628.3	2626.6
17.5°	2786.2	2682.7	2616.4	2579.1	2562.1	2557.0
20°	2718.4	2599.5	2519.6	2477.2	2453.4	2445.0
22.5°	2616.4	2480.6	2387.2	2343.1	2312.6	2307.4
25°	2473.8	2327.8	2236.1	2193.7	2176.7	2171.6
27.5°	2307.4	2171.6	2093.5	2066.3	2051.1	2049.3
30°	2149.5	2034.1	1976.4	1956.0	1937.2	1933.9
32.5°	2001.8	1928.9	1906.7	1877.8	1833.7	1828.7
35°	1896.5	1889.7	1874.5	1810.0	1755.6	1740.4
37.5°	1832.1	1894.9	1816.8	1689.3	1650.4	1647.0
40°	1794.7	1842.2	1708.0	1663.9	1667.3	1663.9
42.5°	1709.8	1759.1	1711.4	1691.2	1704.7	1708.0
45°	1624.9	1679.2	1736.9	1723.3	1755.6	1755.6
47.5°	1577.3	1658.9	1735.2	1735.2	1782.8	1799.7
50°	1523.0	1641.8	1708.0	1731.9	1769.2	1755.6
52.5°	1519.6	1613.0	1669.1	1711.4	1728.5	1713.1
55°	1524.7	1589.1	1629.9	1677.5	1697.9	1699.6
57.5°	1531.5	1575.6	1602.9	1624.9	1686.0	1686.0
60°	1548.5	1563.7	1579.1	1591.0	1670.7	1672.4
62.5°	1575.6	1551.9	1548.5	1560.3	1662.3	1655.5
65°	1618.1	1534.9	1509.4	1521.3	1653.7	1633.4
67.5°	1675.8	1509.4	1460.1	1468.7	1647.0	1602.9
70°	1728.5	1468.7	1399.1	1390.6	1582.4	1504.3
72.5°	1733.5	1421.1	1314.2	1288.7	1375.2	1300.6
75°	1648.6	1388.9	1220.8	1146.1	1135.9	1125.7
77.5°	1485.7	1370.2	1112.1	995.0	974.6	981.3
80°	1242.9	1300.6	981.3	842.2	952.5	940.6
82.5°	928.7	1147.8	833.6	745.3	743.7	657.0
85°	516.1	894.9	679.1	558.7	388.9	377.0
87.5°	144.3	497.4	475.4	315.8	215.7	224.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)