

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: P193153

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193153
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-05-LED-E1-T2R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29976.4 lumens
Efficiency: N/A
Efficacy: 107.4 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): 279
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



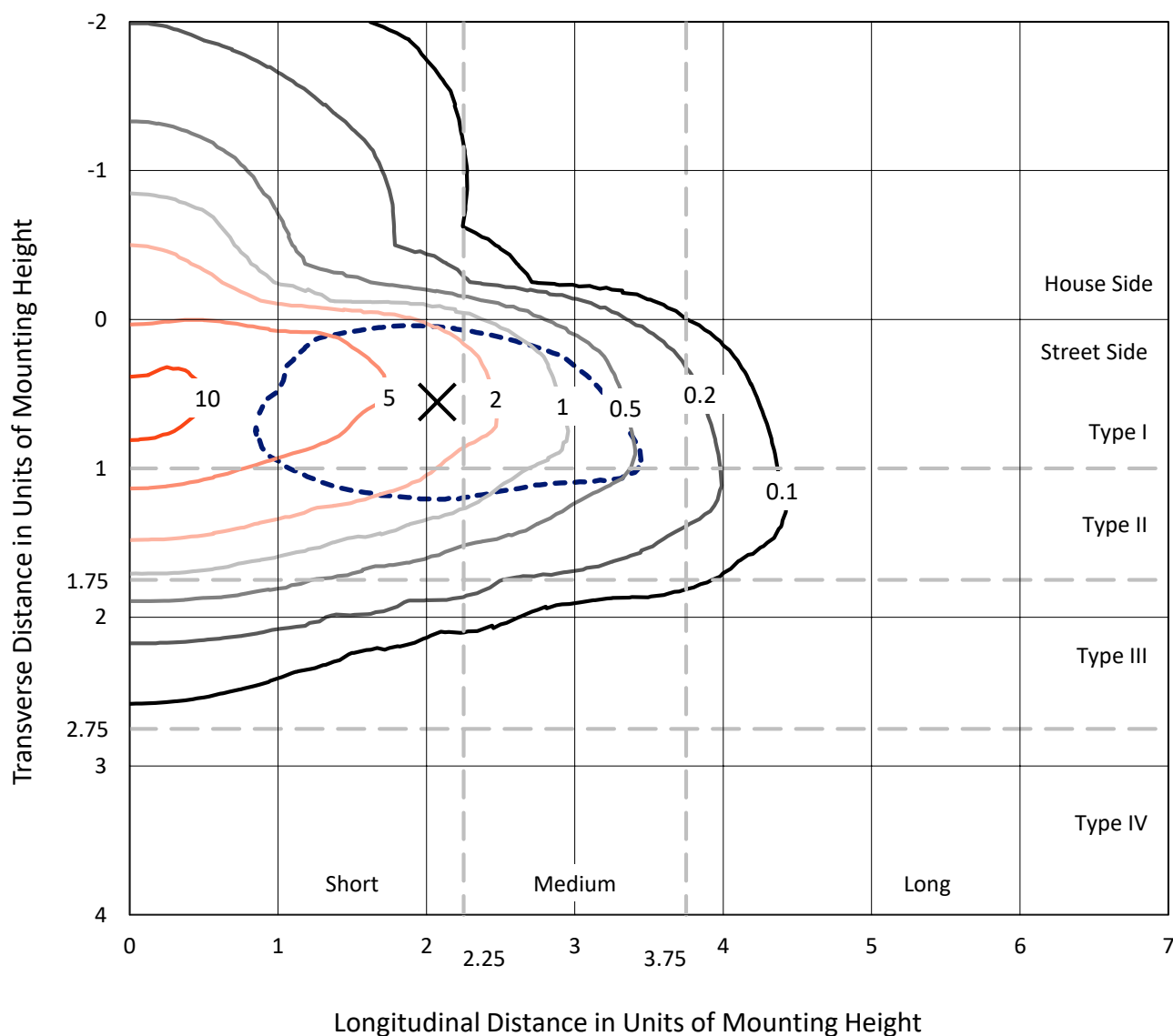
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

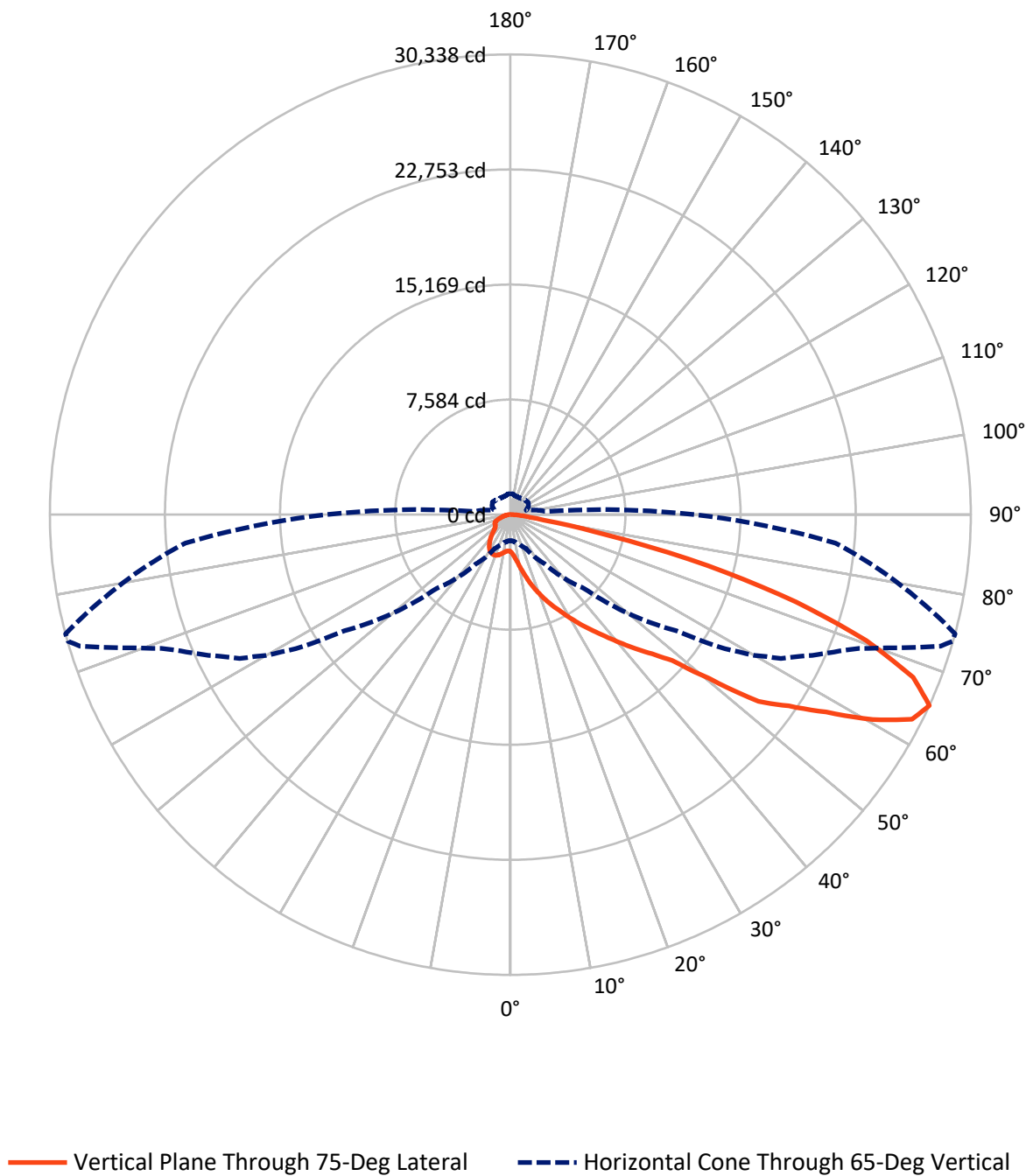


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4621.7	0.0	4621.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	25354.7	0.0	25354.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	29976.4	0.0	29976.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.0
10°-20°	1176.5	3.9
20°-30°	2413.9	8.1
30°-40°	4061.2	13.5
40°-50°	5611.4	18.7
50°-60°	7004.7	23.4
60°-70°	6303.5	21.0
70°-80°	2642.4	8.8
80°-90°	461.6	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°	29976.4	100.0
0°-180°	29976.4	100.0

Coefficient of Utilization



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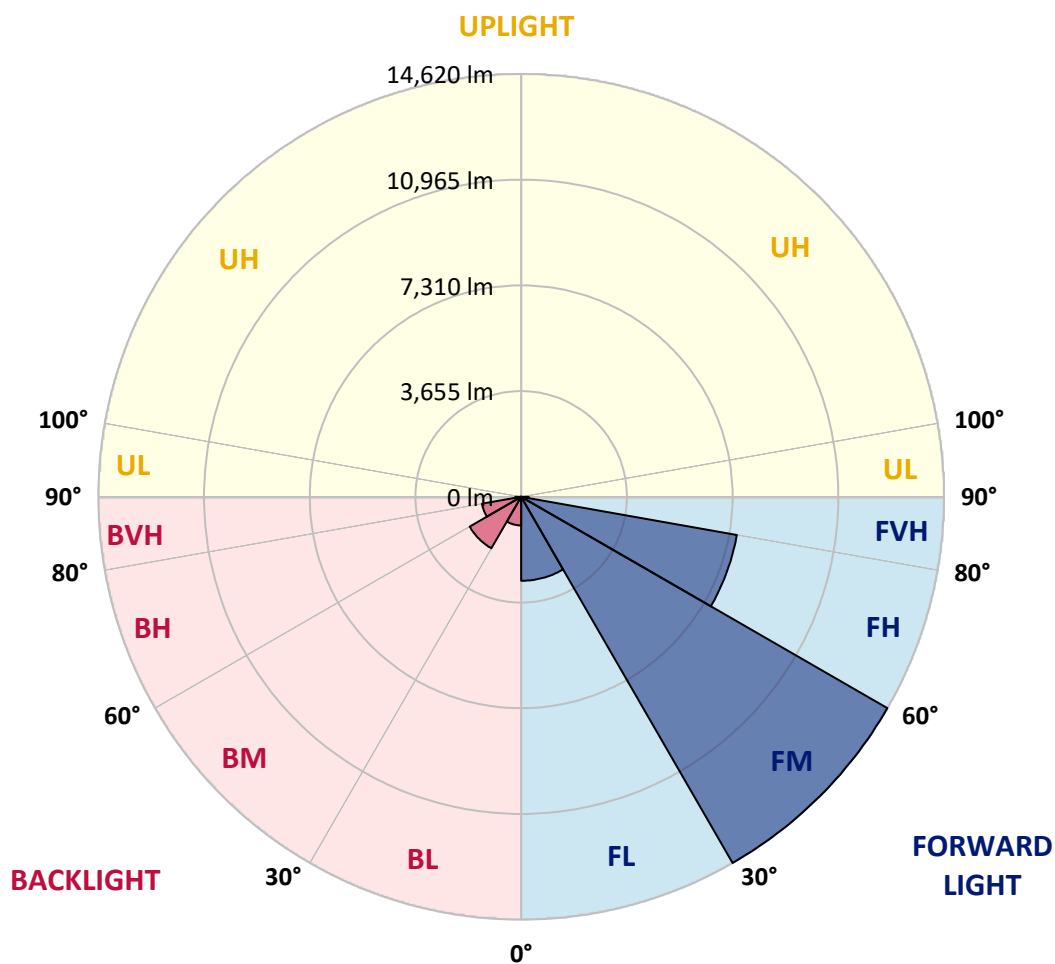
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2903.1	9.7			
FM	(30°-60°)	14620.2	48.8			
FH	(60°-80°)	7571.9	25.3			G4/12000
FVH	(80°-90°)	259.5	0.9			G3/500
BL	(0°-30°)	988.4	3.3	B2/1000		
BM	(30°-60°)	2057.2	6.9	B2/2500		
BH	(60°-80°)	1374.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	202.2	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°	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2
2.5°	3093.1	3059.0	3067.6	3010.7	2941.3	2850.5	2749.7	2748.3	2749.7	2739.7	2702.8
5°	4289.2	4248.0	4232.3	4104.8	3917.4	3650.7	3361.3	3330.0	3317.2	3284.7	3209.4
7.5°	5161.7	5139.0	5115.0	5018.5	4848.2	4550.2	4161.4	4094.8	4030.9	4015.3	3930.2
10°	5725.0	5719.4	5668.3	5642.7	5536.2	5278.1	4899.3	4835.4	4765.9	4741.8	4652.4
12.5°	6170.5	6169.1	6145.0	6152.1	6059.8	5872.5	5546.2	5488.1	5437.0	5363.2	5299.4
15°	6478.4	6479.8	6515.3	6555.0	6541.0	6414.6	6108.1	6082.6	6038.6	5987.5	5912.3
17.5°	6731.0	6738.1	6774.9	6847.4	6925.4	6915.4	6672.8	6651.4	6613.3	6543.7	6503.9
20°	7301.4	7328.3	7257.3	7257.3	7265.8	7304.2	7187.8	7170.8	7116.9	7080.0	7048.9
22.5°	8264.8	8295.9	8135.7	7972.4	7812.1	7695.7	7579.5	7600.7	7563.8	7538.4	7519.9
25°	9516.2	9540.3	9280.7	9005.3	8679.0	8253.5	7965.4	7952.7	7932.8	7917.2	7908.6
27.5°	10693.9	10703.8	10458.3	10055.3	9676.5	9065.0	8357.0	8341.4	8317.3	8287.5	8261.9
30°	11701.2	11698.4	11445.8	11061.3	10655.5	9978.7	8951.5	8903.2	8832.3	8751.4	8689.0
32.5°	12573.8	12569.5	12292.9	11894.2	11468.5	10884.0	9765.9	9666.6	9556.0	9398.4	9303.3
35°	13260.5	13257.6	12996.6	12580.8	12092.9	11736.6	10699.5	10577.5	10437.0	10225.6	10079.5
37.5°	13520.2	13520.2	13374.0	13090.3	12658.9	12414.9	11736.6	11589.1	11438.7	11199.0	11034.3
40°	13368.3	13371.1	13402.4	13349.9	13139.9	12952.5	12704.3	12616.3	12487.2	12271.6	12099.9
42.5°	12858.9	12874.6	13081.7	13335.7	13440.7	13410.9	13562.7	13523.0	13432.3	13266.1	13130.0
45°	12213.4	12261.6	12488.7	12968.2	13524.4	13806.8	14282.1	14286.3	14269.3	14179.8	14074.9
47.5°	11326.6	11394.7	11694.1	12342.5	13328.6	14191.2	15012.8	15051.1	15086.5	15028.4	14980.1
50°	10149.0	10229.8	10678.2	11538.0	12930.0	14589.9	16393.3	16566.4	16728.1	16708.3	16740.9
52.5°	8887.5	8982.6	9531.8	10489.6	12244.5	14682.1	17275.8	17558.2	17840.5	18071.8	18317.4
55°	7749.8	7698.6	8247.8	9256.6	11118.0	14266.4	18069.0	18409.5	18724.6	19008.3	19300.5
57.5°	6207.4	6291.1	6841.7	7839.2	9626.9	13093.1	18615.3	19113.3	19565.8	20035.5	20449.8
60°	4537.4	4621.1	5218.6	6231.6	8007.9	11313.9	18198.1	18952.8	19677.9	20397.3	20959.2
62.5°	2739.7	2802.2	3328.6	4293.5	6174.8	9204.0	16339.4	17329.7	18396.7	19256.5	20117.8
65°	1705.4	1740.9	1935.3	2466.0	3965.7	6871.5	13349.9	14429.7	15579.0	16670.0	17565.3
67.5°	1396.2	1408.9	1444.4	1557.9	2178.0	4480.7	9936.1	10892.5	11929.6	12985.3	13981.3
70°	1255.7	1247.2	1247.2	1254.3	1396.2	2409.1	6505.4	7128.3	7992.4	8910.3	9821.2
72.5°	1133.7	1125.2	1109.5	1088.2	1139.3	1470.0	3362.7	3832.3	4455.1	5271.0	6143.5
75°	1018.8	1007.4	988.9	962.0	997.4	1109.5	1614.7	1811.8	2115.5	2549.7	3036.4
77.5°	899.5	885.3	868.3	848.5	893.8	862.7	946.4	1017.3	1133.7	1272.7	1455.8
80°	764.7	752.0	746.4	736.4	790.3	656.9	668.2	712.3	780.3	855.6	940.7
82.5°	598.7	598.7	621.4	625.7	685.3	472.4	499.5	537.8	573.2	613.0	652.8
85°	394.4	397.2	473.8	503.6	540.7	317.8	374.5	387.4	415.7	438.4	455.5
87.5°	123.5	133.4	289.4	320.6	310.8	180.2	229.9	235.6	255.3	271.0	285.1
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°	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2
2.5°	2702.8	2685.9	2670.3	2668.8	2657.5	2641.9	2647.6	2623.5	2624.9	2612.1	2597.8
5°	3178.3	3166.9	3110.1	3094.5	3051.9	3025.0	3020.7	2963.9	2956.9	2924.3	2888.9
7.5°	3862.1	3825.1	3745.7	3707.3	3635.0	3581.2	3555.7	3480.5	3443.6	3358.4	3320.1
10°	4578.6	4531.7	4433.8	4379.9	4310.5	4223.9	4177.1	4067.8	4025.2	3947.2	3853.6
12.5°	5242.6	5195.9	5095.1	5053.9	4961.7	4869.4	4818.5	4695.0	4639.5	4514.8	4441.0
15°	5857.0	5810.2	5722.2	5679.7	5587.4	5512.2	5444.1	5322.1	5256.8	5140.4	5044.0
17.5°	6452.9	6403.2	6326.6	6288.3	6199.0	6122.4	6048.5	5933.7	5866.9	5750.6	5664.0
20°	7006.2	6969.3	6914.0	6862.9	6773.5	6704.0	6616.0	6516.8	6420.3	6335.2	6252.8
22.5°	7488.6	7474.4	7414.9	7392.2	7315.6	7256.0	7179.3	7081.4	7011.9	6904.1	6827.5
25°	7904.4	7900.1	7871.7	7864.7	7810.7	7754.0	7736.9	7656.2	7592.2	7497.2	7417.7
27.5°	8261.9	8266.2	8259.1	8278.9	8264.8	8239.2	8240.7	8213.7	8176.8	8097.3	8027.9
30°	8659.3	8636.5	8649.3	8677.7	8686.1	8689.0	8735.9	8751.4	8748.6	8696.1	8662.1
32.5°	9221.1	9167.2	9117.4	9113.2	9141.6	9152.9	9232.4	9273.6	9309.0	9321.8	9327.5
35°	9937.5	9829.7	9726.1	9670.9	9622.6	9635.3	9692.2	9758.8	9836.8	9890.8	9954.6
37.5°	10839.9	10708.1	10525.0	10394.5	10361.8	10290.9	10327.7	10380.2	10456.8	10540.6	10651.2
40°	11933.9	11733.8	11528.1	11355.0	11261.4	11130.8	11129.3	11119.5	11166.3	11244.3	11400.4
42.5°	12986.7	12809.3	12590.8	12409.2	12287.2	12112.7	12077.2	11984.9	12006.3	12074.4	12226.2
45°	13972.7	13826.6	13693.3	13483.2	13379.7	13191.0	13131.5	13022.2	12961.1	12992.3	13144.1
47.5°	14927.6	14834.0	14695.0	14558.8	14479.2	14310.4	14233.9	14155.8	14077.7	14074.9	14233.9
50°	16789.3	16739.5	16574.9	16433.0	16471.4	16264.3	16277.0	16067.0	16162.0	16173.4	16506.8
52.5°	18538.6	18711.7	18833.7	18982.7	19079.2	19097.7	19161.5	19256.5	19371.4	19598.5	19907.8
55°	19540.3	19757.4	19883.6	19997.1	20184.4	20224.2	20330.6	20456.8	20557.5	20813.1	21075.4
57.5°	20730.8	21133.7	21329.5	21509.7	21762.3	21858.7	22036.1	22173.7	22304.1	22606.4	22924.2
60°	21464.3	21955.2	22353.9	22639.1	22955.5	23182.5	23450.7	23666.3	23972.8	24334.5	24808.5
62.5°	20881.1	21601.8	22131.1	22620.6	23050.5	23484.7	23869.3	24272.2	24737.5	25285.3	26020.2
65°	18558.4	19292.0	20198.6	20706.6	21275.5	21945.3	22529.8	23182.5	23816.7	24614.0	25700.9
67.5°	14940.4	15793.1	16811.8	17324.0	17978.2	18726.0	19381.4	20178.8	20919.5	21885.6	23229.3
70°	10769.0	11871.4	12728.4	13263.3	14026.7	14797.1	15429.9	16357.9	16970.8	17961.1	19350.2
72.5°	6819.0	7688.7	8738.7	9412.5	10090.8	10871.2	11518.2	12318.4	12890.2	13792.6	15051.1
75°	3666.3	4307.6	5229.8	5869.7	6596.2	7263.0	8020.7	8557.0	8979.9	9693.5	10715.0
77.5°	1718.2	2108.3	2575.2	3067.6	3559.8	4073.5	4572.9	5007.2	5188.7	5597.4	6200.4
80°	1042.9	1169.1	1305.3	1457.2	1662.9	1828.9	2048.8	2207.7	2219.0	2348.2	2532.6
82.5°	696.6	743.5	784.6	822.9	875.3	916.5	963.4	1018.8	1041.5	1071.2	1130.9
85°	475.3	498.0	506.5	530.7	525.0	539.2	557.7	576.1	585.9	584.5	611.6
87.5°	292.3	303.6	309.3	315.0	310.8	305.1	313.6	323.5	326.3	317.8	320.6
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2
2.5°	2600.7	2588.1	2575.2	2566.7	2563.9	2488.6	2456.0	2434.8	2389.3	2352.5	2322.7
5°	2868.9	2842.0	2820.6	2795.1	2780.9	2590.7	2521.2	2473.1	2393.6	2346.8	2304.2
7.5°	3300.1	3225.0	3181.1	3131.4	3088.9	2745.4	2630.5	2555.3	2444.6	2382.3	2334.0
10°	3789.7	3711.6	3642.1	3565.5	3498.9	2951.2	2783.8	2667.4	2521.2	2440.5	2376.6
12.5°	4336.0	4259.4	4171.4	4073.5	3988.4	3212.2	2979.6	2813.5	2613.5	2505.7	2416.3
15°	4981.5	4846.7	4740.3	4626.8	4527.4	3524.3	3208.0	2978.2	2711.4	2565.3	2446.1
17.5°	5581.7	5439.8	5295.1	5195.9	5080.9	3874.9	3437.9	3145.6	2792.2	2603.5	2451.8
20°	6167.6	6013.1	5888.2	5754.8	5634.2	4238.0	3683.3	3293.2	2844.8	2605.0	2416.3
22.5°	6684.2	6587.7	6448.6	6303.9	6181.9	4601.4	3913.1	3417.9	2864.7	2572.4	2353.9
25°	7271.5	7169.4	6999.1	6877.1	6741.0	4971.7	4138.7	3514.5	2853.3	2511.4	2257.4
27.5°	7898.7	7785.2	7610.7	7482.9	7318.4	5356.1	4345.9	3584.0	2810.7	2412.0	2128.3
30°	8552.9	8449.2	8277.5	8148.4	7982.4	5763.3	4577.2	3630.8	2725.6	2274.4	1977.9
32.5°	9255.2	9168.6	8998.3	8863.5	8686.1	6204.7	4792.8	3645.0	2596.4	2111.2	1818.9
35°	9922.0	9862.4	9719.0	9592.8	9408.4	6621.7	5021.3	3637.9	2443.2	1932.5	1674.3
37.5°	10672.6	10637.1	10566.1	10405.8	10180.2	7187.8	5295.1	3608.1	2255.9	1755.1	1563.6
40°	11472.8	11475.6	11399.0	11289.8	11079.8	7874.6	5621.5	3550.0	2051.7	1599.0	1462.9
42.5°	12319.8	12363.8	12326.9	12248.8	12047.4	8567.0	6011.7	3479.1	1853.0	1447.2	1363.5
45°	13290.3	13344.3	13400.9	13286.0	13090.3	9480.8	6525.3	3386.8	1638.8	1321.0	1295.4
47.5°	14409.7	14494.9	14546.0	14547.5	14351.6	10612.9	7359.4	3331.5	1448.7	1235.8	1262.8
50°	16772.2	16799.0	16919.7	17129.6	16979.3	13233.6	8816.6	3297.5	1319.6	1183.3	1238.7
52.5°	20176.0	20472.5	20681.0	20666.8	20462.5	14897.8	9619.7	3121.4	1243.0	1163.5	1227.3
55°	21562.2	21932.4	22318.4	22420.5	22261.7	16318.1	10378.9	2945.5	1206.0	1177.6	1231.6
57.5°	23409.5	24033.8	24563.0	24785.8	24555.9	18135.6	11377.7	2853.3	1194.6	1215.9	1258.5
60°	25567.5	26339.3	27034.7	27434.8	27434.8	20224.2	12413.5	2814.9	1179.0	1272.7	1303.9
62.5°	26953.7	28087.4	29137.4	29723.3	29706.3	21678.4	12873.2	2684.5	1143.6	1312.4	1366.4
65°	26959.4	28307.3	29645.4	30303.6	30337.7	21499.7	12114.1	2370.9	1078.3	1318.1	1428.8
67.5°	24712.0	26149.2	27708.5	28445.0	28615.2	19791.4	10486.7	1949.5	971.9	1261.4	1451.5
70°	20871.1	22274.4	23866.4	24590.0	24892.2	16871.5	8446.4	1502.6	835.8	1136.6	1404.6
72.5°	16443.0	17819.2	18927.4	19456.6	19692.2	12895.9	6150.6	1135.1	685.3	957.7	1278.4
75°	11641.6	12674.5	13263.3	13381.1	13418.0	7773.8	3737.2	844.2	564.7	744.9	1079.7
77.5°	6570.7	7013.4	6965.1	7017.6	6580.5	3000.8	1627.4	604.4	465.3	566.1	837.2
80°	2565.3	2644.7	2484.4	2434.8	2233.3	1116.6	718.0	421.4	371.7	428.6	585.9
82.5°	1130.9	1167.7	1133.7	1142.2	1092.5	576.1	429.9	305.1	283.7	313.6	388.8
85°	622.9	634.2	631.4	649.9	622.9	229.9	204.4	187.3	198.7	212.8	249.7
87.5°	303.6	306.5	296.5	312.2	302.2	116.4	100.7	106.4	116.4	119.2	119.2
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°	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2
2.5°	2301.3	2290.0	2291.3	2288.6	2283.0	2283.0
5°	2281.6	2270.2	2270.2	2267.3	2260.2	2261.6
7.5°	2301.3	2283.0	2275.9	2265.9	2255.9	2255.9
10°	2324.1	2291.3	2271.6	2254.6	2241.8	2241.8
12.5°	2341.1	2290.0	2257.4	2234.7	2221.9	2221.9
15°	2346.8	2280.1	2234.7	2207.7	2196.3	2194.9
17.5°	2328.4	2241.8	2186.4	2155.2	2141.1	2136.8
20°	2271.6	2172.3	2105.5	2070.1	2050.2	2043.1
22.5°	2186.4	2072.9	1994.8	1958.0	1932.5	1928.2
25°	2067.3	1945.3	1868.7	1833.2	1818.9	1814.7
27.5°	1928.2	1814.7	1749.5	1726.8	1714.0	1712.5
30°	1796.2	1699.7	1651.6	1634.5	1618.9	1616.1
32.5°	1672.9	1611.8	1593.3	1569.3	1532.4	1528.1
35°	1584.8	1579.2	1566.4	1512.4	1467.2	1454.4
37.5°	1530.9	1583.3	1518.1	1411.7	1379.1	1376.2
40°	1499.7	1539.5	1427.4	1390.5	1393.3	1390.5
42.5°	1428.8	1470.0	1430.2	1413.2	1424.5	1427.4
45°	1357.9	1403.2	1451.5	1440.1	1467.2	1467.2
47.5°	1318.1	1386.2	1450.1	1450.1	1489.8	1504.0
50°	1272.7	1372.0	1427.4	1447.2	1478.4	1467.2
52.5°	1269.8	1347.9	1394.7	1430.2	1444.4	1431.7
55°	1274.1	1328.0	1362.1	1401.8	1418.8	1420.3
57.5°	1279.8	1316.7	1339.4	1357.9	1408.9	1408.9
60°	1293.9	1306.7	1319.6	1329.4	1396.2	1397.5
62.5°	1316.7	1296.8	1293.9	1303.9	1389.0	1383.3
65°	1352.2	1282.6	1261.4	1271.2	1381.9	1364.9
67.5°	1400.3	1261.4	1220.2	1227.3	1376.2	1339.4
70°	1444.4	1227.3	1169.1	1162.1	1322.4	1257.1
72.5°	1448.7	1187.5	1098.2	1076.9	1149.3	1086.8
75°	1377.6	1160.7	1020.2	957.7	949.3	940.7
77.5°	1241.5	1145.0	929.4	831.5	814.4	820.1
80°	1038.6	1086.8	820.1	703.7	796.0	786.0
82.5°	776.1	959.2	696.6	622.9	621.4	549.1
85°	431.3	747.8	567.5	466.7	324.9	315.0
87.5°	120.6	415.7	397.2	263.9	180.2	187.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)