

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: P193164

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193164
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39350.8 lumens
Efficiency: N/A
Efficacy: 103.0 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): 382
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



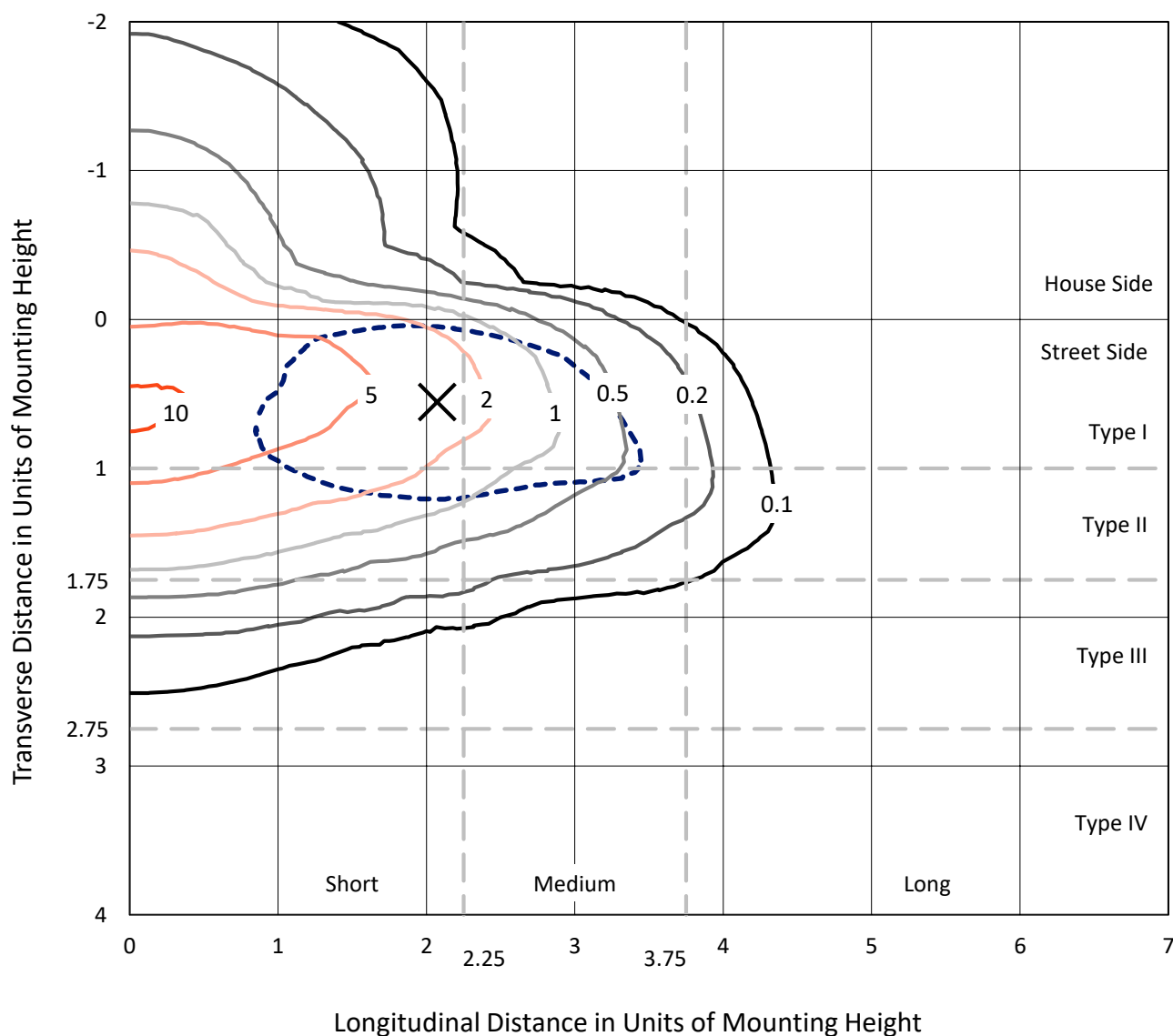
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

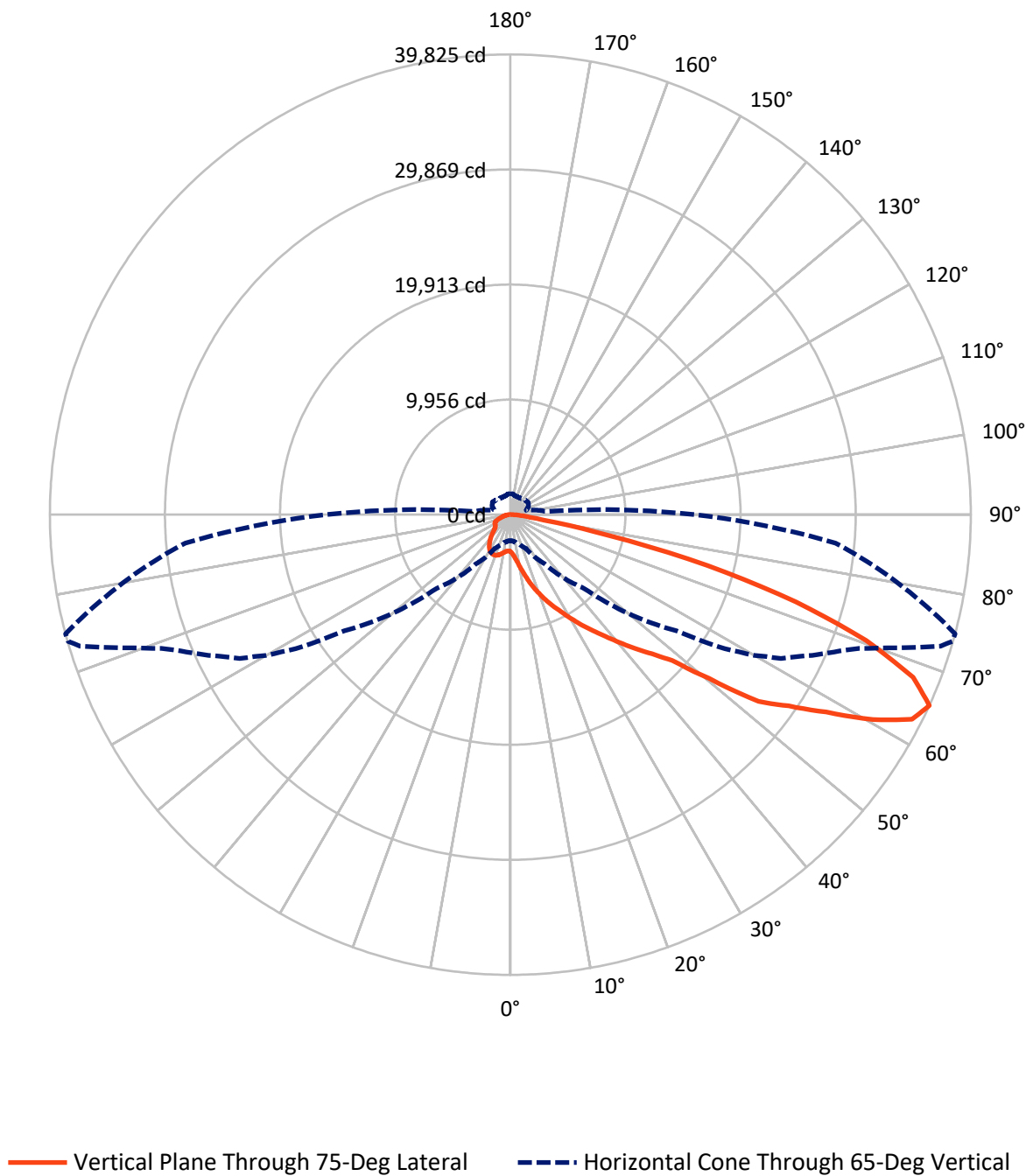


Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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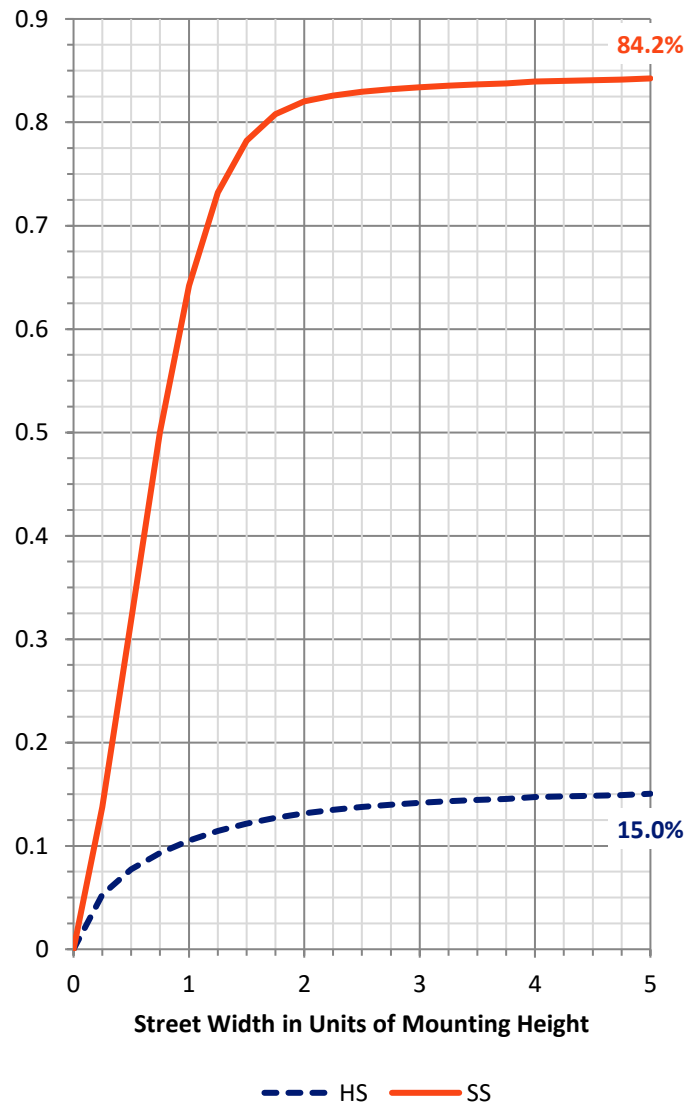
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6067.0	0.0	6067.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	33283.8	0.0	33283.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	39350.8	0.0	39350.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.3	1.0
10°-20°	1544.5	3.9
20°-30°	3168.7	8.1
30°-40°	5331.2	13.5
40°-50°	7366.3	18.7
50°-60°	9195.3	23.4
60°-70°	8274.8	21.0
70°-80°	3468.7	8.8
80°-90°	606.0	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°	39350.8	100.0
0°-180°	39350.8	100.0

Coefficient of Utilization



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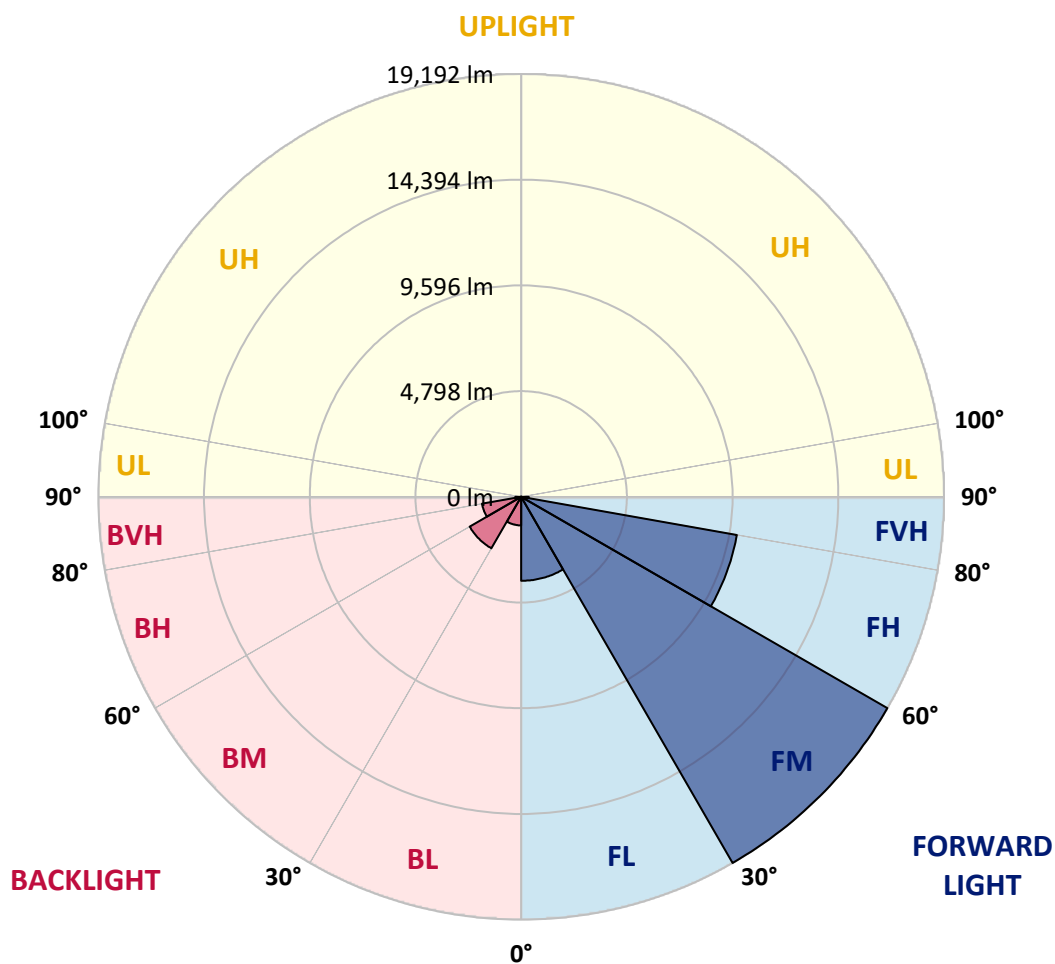
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3811.0	9.7			
FM	(30°-60°)	19192.3	48.8			
FH	(60°-80°)	9939.9	25.3			G4/12000
FVH	(80°-90°)	340.6	0.9			G3/500
BL	(0°-30°)	1297.5	3.3	B3/2500		
BM	(30°-60°)	2700.5	6.9	B3/5000		
BH	(60°-80°)	1803.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	265.4	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°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	4060.4	4015.8	4026.9	3952.4	3861.1	3741.9	3609.6	3607.7	3609.6	3596.6	3548.2
5°	5630.4	5576.5	5556.1	5388.3	5142.5	4792.3	4412.4	4371.5	4354.6	4311.8	4213.1
7.5°	6775.9	6746.2	6714.5	6587.9	6364.4	5973.2	5462.9	5375.3	5291.5	5271.0	5159.2
10°	7515.4	7508.0	7440.9	7407.3	7267.7	6928.6	6431.4	6347.6	6256.3	6224.6	6107.3
12.5°	8100.3	8098.4	8066.7	8076.0	7954.9	7709.2	7280.7	7204.3	7137.4	7040.4	6956.6
15°	8504.4	8506.3	8552.9	8605.0	8586.3	8420.6	8018.3	7984.7	7927.1	7860.0	7761.2
17.5°	8835.9	8845.3	8893.7	8988.6	9091.1	9078.2	8759.7	8731.7	8681.4	8590.1	8537.9
20°	9584.7	9620.1	9527.0	9527.0	9538.2	9588.5	9435.7	9413.3	9342.5	9294.1	9253.1
22.5°	10849.3	10890.3	10679.9	10465.7	10255.2	10102.5	9949.8	9977.7	9929.3	9895.7	9871.6
25°	12492.1	12523.9	12183.0	11821.7	11393.2	10834.4	10456.3	10439.6	10413.5	10393.1	10382.0
27.5°	14038.0	14051.1	13728.9	13199.9	12702.6	11899.9	10970.4	10950.0	10918.3	10879.2	10845.6
30°	15360.5	15356.7	15025.3	14520.4	13987.8	13099.3	11750.9	11687.6	11594.4	11488.3	11406.3
32.5°	16505.9	16500.4	16137.1	15613.8	15055.1	14287.7	12819.9	12689.6	12544.3	12337.5	12212.8
35°	17407.4	17403.7	17061.1	16515.3	15874.6	15407.0	14045.5	13885.3	13701.0	13423.5	13231.7
37.5°	17748.3	17748.3	17556.5	17184.0	16617.7	16297.3	15407.0	15213.4	15015.9	14701.2	14485.0
40°	17549.0	17552.7	17593.7	17524.7	17249.1	17003.3	16677.4	16561.8	16392.3	16109.1	15883.9
42.5°	16880.3	16900.8	17172.8	17506.2	17644.0	17604.8	17804.2	17752.0	17632.8	17414.9	17236.0
45°	16032.9	16096.2	16394.3	17023.8	17753.9	18124.5	18748.5	18754.1	18731.7	18614.4	18476.5
47.5°	14868.8	14958.1	15351.2	16202.4	17496.9	18629.2	19707.6	19758.0	19804.6	19728.2	19664.8
50°	13322.8	13429.0	14017.6	15146.3	16973.4	19152.6	21519.9	21747.2	21959.5	21933.5	21976.3
52.5°	11667.0	11791.8	12512.6	13769.8	16073.9	19273.8	22678.5	23049.2	23419.7	23723.4	24045.6
55°	10173.2	10106.3	10827.0	12151.3	14595.0	18728.0	23719.6	24166.6	24580.2	24952.6	25336.3
57.5°	8148.7	8258.6	8981.2	10290.6	12637.5	17187.7	24436.7	25090.6	25684.6	26301.1	26845.0
60°	5956.5	6066.3	6850.4	8180.4	10512.3	14852.0	23889.1	24880.0	25831.7	26776.0	27513.6
62.5°	3596.6	3678.5	4369.6	5636.1	8105.8	12082.4	21449.2	22749.2	24149.9	25278.5	26409.2
65°	2238.8	2285.3	2540.5	3237.2	5205.8	9020.3	17524.7	18942.2	20450.8	21883.2	23058.4
67.5°	1832.8	1849.5	1896.0	2045.2	2859.0	5882.0	13043.5	14298.9	15660.3	17046.1	18353.6
70°	1648.4	1637.1	1637.1	1646.5	1832.8	3162.6	8539.8	9357.5	10491.7	11696.9	12892.6
72.5°	1488.2	1476.9	1456.5	1428.6	1495.6	1929.6	4414.3	5030.8	5848.4	6919.4	8064.9
75°	1337.4	1322.4	1298.2	1262.8	1309.4	1456.5	2119.6	2378.5	2777.1	3347.0	3985.9
77.5°	1180.9	1162.2	1139.9	1113.8	1173.5	1132.5	1242.3	1335.4	1488.2	1670.7	1911.0
80°	1003.9	987.1	979.7	966.6	1037.4	862.4	877.3	935.0	1024.5	1123.0	1234.8
82.5°	786.0	786.0	815.8	821.4	899.6	620.3	655.7	706.0	752.5	804.5	856.8
85°	517.8	521.5	622.1	661.2	709.6	417.3	491.6	508.5	545.8	575.6	597.8
87.5°	162.0	175.1	380.0	420.9	407.9	236.5	301.8	309.2	335.2	355.7	374.3
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°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3548.2	3525.8	3505.4	3503.5	3488.5	3468.1	3475.5	3443.9	3445.7	3429.0	3410.3
5°	4172.2	4157.2	4082.7	4062.3	4006.3	3970.9	3965.3	3890.8	3881.6	3838.8	3792.2
7.5°	5069.8	5021.4	4917.1	4866.9	4771.9	4701.1	4667.5	4568.9	4520.4	4408.7	4358.4
10°	6010.5	5948.9	5820.5	5749.7	5658.4	5544.8	5483.4	5339.9	5284.1	5181.6	5058.7
12.5°	6882.1	6820.7	6688.5	6634.4	6513.4	6392.3	6325.2	6163.2	6090.5	5926.7	5829.7
15°	7688.6	7627.2	7511.7	7455.9	7334.8	7236.0	7146.6	6986.5	6900.9	6748.1	6621.3
17.5°	8470.9	8405.8	8305.2	8254.9	8137.5	8036.9	7940.1	7789.2	7701.6	7548.9	7435.3
20°	9197.3	9148.9	9076.2	9009.2	8891.8	8800.7	8685.1	8554.7	8428.0	8316.3	8208.3
22.5°	9830.6	9811.9	9733.7	9703.9	9603.4	9525.1	9424.4	9296.0	9204.8	9063.2	8962.6
25°	10376.3	10370.7	10333.4	10324.1	10253.3	10178.8	10156.5	10050.3	9966.5	9841.7	9737.4
27.5°	10845.6	10851.2	10841.9	10868.0	10849.3	10815.9	10817.8	10782.4	10733.8	10629.7	10538.4
30°	11367.3	11337.4	11354.1	11391.4	11402.6	11406.3	11467.8	11488.3	11484.5	11415.6	11370.9
32.5°	12104.8	12034.0	11968.8	11963.3	12000.5	12015.4	12119.7	12173.6	12220.2	12237.0	12244.4
35°	13045.3	12903.7	12767.8	12695.2	12631.9	12648.6	12723.1	12810.6	12913.2	12983.9	13067.7
37.5°	14229.9	14056.7	13816.4	13645.1	13602.2	13509.2	13557.6	13626.5	13727.0	13836.9	13982.2
40°	15665.9	15403.4	15133.3	14906.0	14783.1	14611.8	14609.9	14596.8	14658.3	14760.7	14965.7
42.5°	17047.9	16815.1	16528.3	16289.9	16129.7	15900.6	15854.1	15733.0	15760.9	15850.4	16049.6
45°	18342.5	18150.5	17975.6	17699.9	17563.9	17316.2	17238.0	17094.4	17014.4	17055.4	17254.7
47.5°	19595.9	19473.1	19290.5	19111.6	19007.4	18785.7	18685.2	18582.7	18480.2	18476.5	18685.2
50°	22039.6	21974.4	21758.3	21572.1	21622.4	21350.5	21367.2	21091.5	21216.4	21231.3	21669.0
52.5°	24336.2	24563.3	24723.5	24919.1	25045.7	25070.0	25153.7	25278.5	25429.4	25727.5	26133.5
55°	25651.2	25936.1	26101.8	26250.8	26496.7	26548.9	26688.5	26854.3	26986.6	27321.8	27666.4
57.5°	27213.7	27742.8	27999.8	28236.3	28567.9	28694.5	28927.4	29108.0	29279.4	29676.1	30093.3
60°	28176.8	28821.2	29344.6	29718.9	30134.2	30432.3	30784.4	31067.5	31469.7	31944.6	32566.8
62.5°	27411.2	28357.3	29052.1	29694.7	30259.1	30829.0	31333.8	31862.7	32473.6	33192.6	34157.4
65°	24362.2	25325.2	26515.4	27182.2	27929.0	28808.2	29575.5	30432.3	31264.9	32311.6	33738.2
67.5°	19612.7	20732.1	22069.4	22741.8	23600.4	24582.0	25442.5	26489.3	27461.5	28729.9	30493.7
70°	14136.8	15583.9	16709.0	17411.1	18413.3	19424.5	20255.2	21473.4	22278.0	23578.0	25401.4
72.5°	8951.4	10093.2	11471.4	12356.2	13246.5	14270.9	15120.2	16170.7	16921.3	18105.9	19758.0
75°	4812.9	5654.7	6865.5	7705.4	8659.1	9534.4	10529.0	11233.1	11788.1	12725.0	14066.0
77.5°	2255.5	2767.7	3380.6	4026.9	4673.1	5347.3	6003.0	6572.9	6811.3	7347.8	8139.4
80°	1369.0	1534.8	1713.5	1912.8	2182.9	2400.9	2689.5	2898.1	2913.1	3082.5	3324.6
82.5°	914.5	976.0	1030.0	1080.2	1149.2	1203.2	1264.6	1337.4	1367.2	1406.2	1484.5
85°	624.0	653.8	665.0	696.6	689.1	707.8	732.0	756.2	769.1	767.3	802.7
87.5°	383.7	398.6	406.0	413.4	407.9	400.4	411.6	424.7	428.4	417.3	420.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3414.1	3397.3	3380.6	3369.3	3365.6	3267.0	3224.1	3196.2	3136.5	3088.1	3049.0
5°	3766.0	3730.6	3702.8	3669.3	3650.6	3401.0	3309.8	3246.4	3142.1	3080.7	3024.9
7.5°	4332.3	4233.6	4175.9	4110.7	4054.8	3604.0	3453.1	3354.5	3209.2	3127.2	3063.8
10°	4974.9	4872.4	4781.1	4680.5	4593.0	3874.2	3654.2	3501.6	3309.8	3203.6	3119.8
12.5°	5692.0	5591.4	5476.0	5347.3	5235.6	4216.9	3911.4	3693.4	3430.8	3289.2	3171.9
15°	6539.3	6362.5	6222.8	6073.8	5943.3	4626.6	4211.3	3909.6	3559.3	3367.5	3211.0
17.5°	7327.3	7141.0	6951.1	6820.7	6669.8	5086.7	4513.0	4129.2	3665.5	3417.7	3218.4
20°	8096.5	7893.6	7729.6	7554.5	7396.2	5563.5	4835.2	4323.0	3734.4	3419.6	3171.9
22.5°	8774.5	8647.9	8465.3	8275.3	8115.1	6040.3	5137.0	4486.8	3760.4	3376.7	3090.0
25°	9545.6	9411.5	9187.9	9027.8	8849.0	6526.4	5433.0	4613.6	3745.6	3296.7	2963.3
27.5°	10368.8	10219.8	9990.7	9823.1	9607.0	7031.2	5705.0	4704.8	3689.6	3166.4	2793.9
30°	11227.5	11091.6	10866.2	10696.7	10478.7	7565.6	6008.6	4766.3	3577.9	2985.7	2596.4
32.5°	12149.4	12035.8	11812.3	11635.3	11402.6	8144.9	6291.7	4784.9	3408.5	2771.5	2387.8
35°	13024.8	12946.5	12758.5	12592.7	12350.5	8692.5	6591.6	4775.6	3207.3	2536.8	2197.9
37.5°	14010.1	13963.6	13870.5	13660.0	13363.8	9435.7	6951.1	4736.5	2961.5	2304.0	2052.6
40°	15060.7	15064.3	14963.7	14820.4	14544.7	10337.1	7379.5	4660.1	2693.2	2099.1	1920.3
42.5°	16172.5	16230.4	16181.9	16079.4	15815.0	11246.0	7891.7	4567.0	2432.5	1899.8	1789.8
45°	17446.5	17517.3	17591.9	17440.9	17184.0	12445.6	8565.9	4445.9	2151.2	1734.1	1700.5
47.5°	18916.0	19027.8	19094.9	19096.8	18839.8	13931.8	9661.0	4373.3	1901.6	1622.3	1657.7
50°	22017.3	22052.7	22211.0	22486.6	22289.2	17372.0	11574.0	4328.6	1732.2	1553.3	1626.0
52.5°	26485.5	26874.8	27148.6	27129.9	26861.7	19556.9	12628.0	4097.7	1631.6	1527.3	1611.1
55°	28305.2	28791.4	29298.0	29432.0	29223.5	21421.3	13624.6	3866.6	1583.1	1545.9	1616.7
57.5°	30730.3	31549.8	32244.6	32537.0	32235.2	23807.1	14935.8	3745.6	1568.3	1596.2	1652.1
60°	33563.3	34576.5	35489.1	36014.4	36014.4	26548.9	16295.5	3695.2	1547.7	1670.7	1711.6
62.5°	35382.9	36871.1	38249.4	39018.6	38996.3	28458.0	16898.9	3523.9	1501.2	1722.9	1793.6
65°	35390.3	37159.8	38916.2	39780.4	39825.1	28223.3	15902.4	3112.4	1415.6	1730.3	1875.6
67.5°	32440.1	34326.8	36373.8	37340.5	37564.0	25980.8	13766.1	2559.2	1275.8	1655.9	1905.4
70°	27398.2	29240.3	31330.0	32279.9	32676.7	22147.6	11087.7	1972.4	1097.1	1491.9	1844.0
72.5°	21585.1	23391.9	24846.4	25541.2	25850.4	16928.7	8074.2	1490.1	899.6	1257.2	1678.1
75°	15282.3	16638.2	17411.1	17565.7	17614.2	10205.0	4906.0	1108.2	741.4	977.9	1417.4
77.5°	8625.5	9206.6	9143.3	9212.2	8638.6	3939.4	2136.3	793.4	610.9	743.2	1098.9
80°	3367.5	3471.8	3261.3	3196.2	2931.7	1465.8	942.5	553.2	488.0	562.4	769.1
82.5°	1484.5	1532.9	1488.2	1499.4	1434.1	756.2	564.4	400.4	372.5	411.6	510.4
85°	817.7	832.5	828.8	853.1	817.7	301.8	268.2	245.9	260.8	279.3	327.8
87.5°	398.6	402.3	389.3	409.7	396.7	152.8	132.2	139.8	152.8	156.5	156.5
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°	3198.0	3198.0	3198.0	3198.0	3198.0	3198.0
2.5°	3021.0	3006.2	3008.0	3004.3	2996.9	2996.9
5°	2995.1	2980.0	2980.0	2976.3	2967.1	2968.9
7.5°	3021.0	2996.9	2987.5	2974.5	2961.5	2961.5
10°	3050.8	3008.0	2981.9	2959.7	2942.8	2942.8
12.5°	3073.3	3006.2	2963.3	2933.5	2916.7	2916.7
15°	3080.7	2993.1	2933.5	2898.1	2883.3	2881.3
17.5°	3056.4	2942.8	2870.2	2829.3	2810.5	2805.0
20°	2981.9	2851.5	2764.0	2717.5	2691.4	2682.1
22.5°	2870.2	2721.2	2618.7	2570.4	2536.8	2531.2
25°	2713.8	2553.6	2453.0	2406.4	2387.8	2382.2
27.5°	2531.2	2382.2	2296.5	2266.7	2249.9	2248.1
30°	2358.1	2231.3	2168.0	2145.7	2125.2	2121.5
32.5°	2196.0	2116.0	2091.7	2060.0	2011.6	2006.0
35°	2080.6	2072.9	2056.3	1985.5	1925.9	1909.1
37.5°	2009.8	2078.6	1992.9	1853.2	1810.4	1806.7
40°	1968.8	2020.9	1873.7	1825.2	1829.0	1825.2
42.5°	1875.6	1929.6	1877.4	1855.1	1870.0	1873.7
45°	1782.4	1842.1	1905.4	1890.5	1925.9	1925.9
47.5°	1730.3	1819.7	1903.6	1903.6	1955.6	1974.4
50°	1670.7	1801.1	1873.7	1899.8	1940.8	1925.9
52.5°	1667.0	1769.5	1830.8	1877.4	1896.0	1879.4
55°	1672.5	1743.3	1788.0	1840.3	1862.6	1864.4
57.5°	1680.0	1728.5	1758.2	1782.4	1849.5	1849.5
60°	1698.7	1715.4	1732.2	1745.2	1832.8	1834.6
62.5°	1728.5	1702.4	1698.7	1711.6	1823.4	1816.0
65°	1775.0	1683.8	1655.9	1668.8	1814.1	1791.8
67.5°	1838.3	1655.9	1601.8	1611.1	1806.7	1758.2
70°	1896.0	1611.1	1534.8	1525.5	1735.9	1650.3
72.5°	1901.6	1558.9	1441.5	1413.7	1508.7	1426.7
75°	1808.6	1523.6	1339.2	1257.2	1246.1	1234.8
77.5°	1629.7	1503.1	1220.0	1091.5	1069.1	1076.5
80°	1363.3	1426.7	1076.5	923.8	1044.8	1031.9
82.5°	1018.9	1259.1	914.5	817.7	815.8	720.8
85°	566.2	981.5	745.0	612.7	426.5	413.4
87.5°	158.3	545.8	521.5	346.5	236.5	245.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)