

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: P193134

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193134
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23635 lumens
Efficiency: N/A
Efficacy: 122.5 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 - G3

Input Watts (W): 193
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



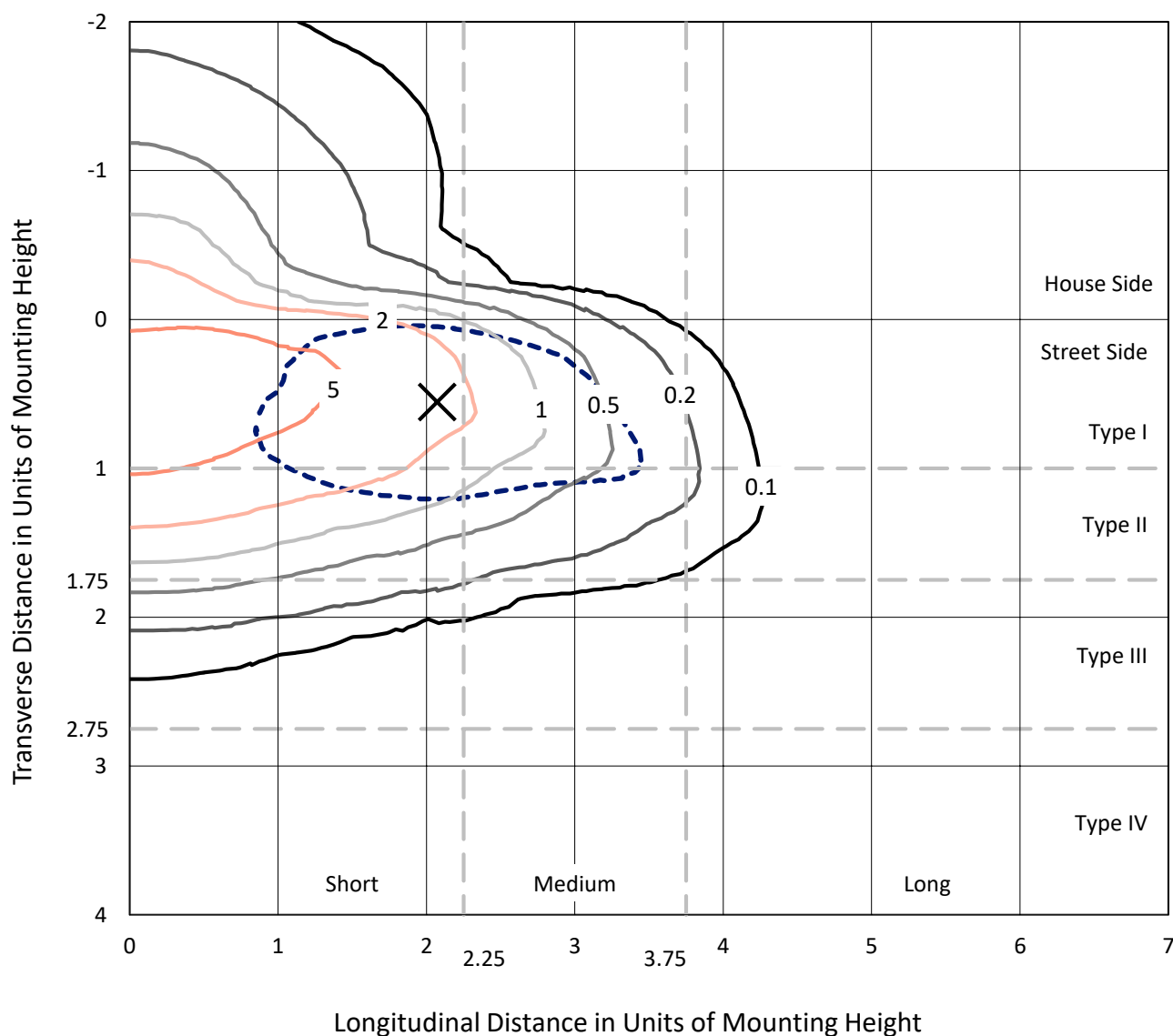
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

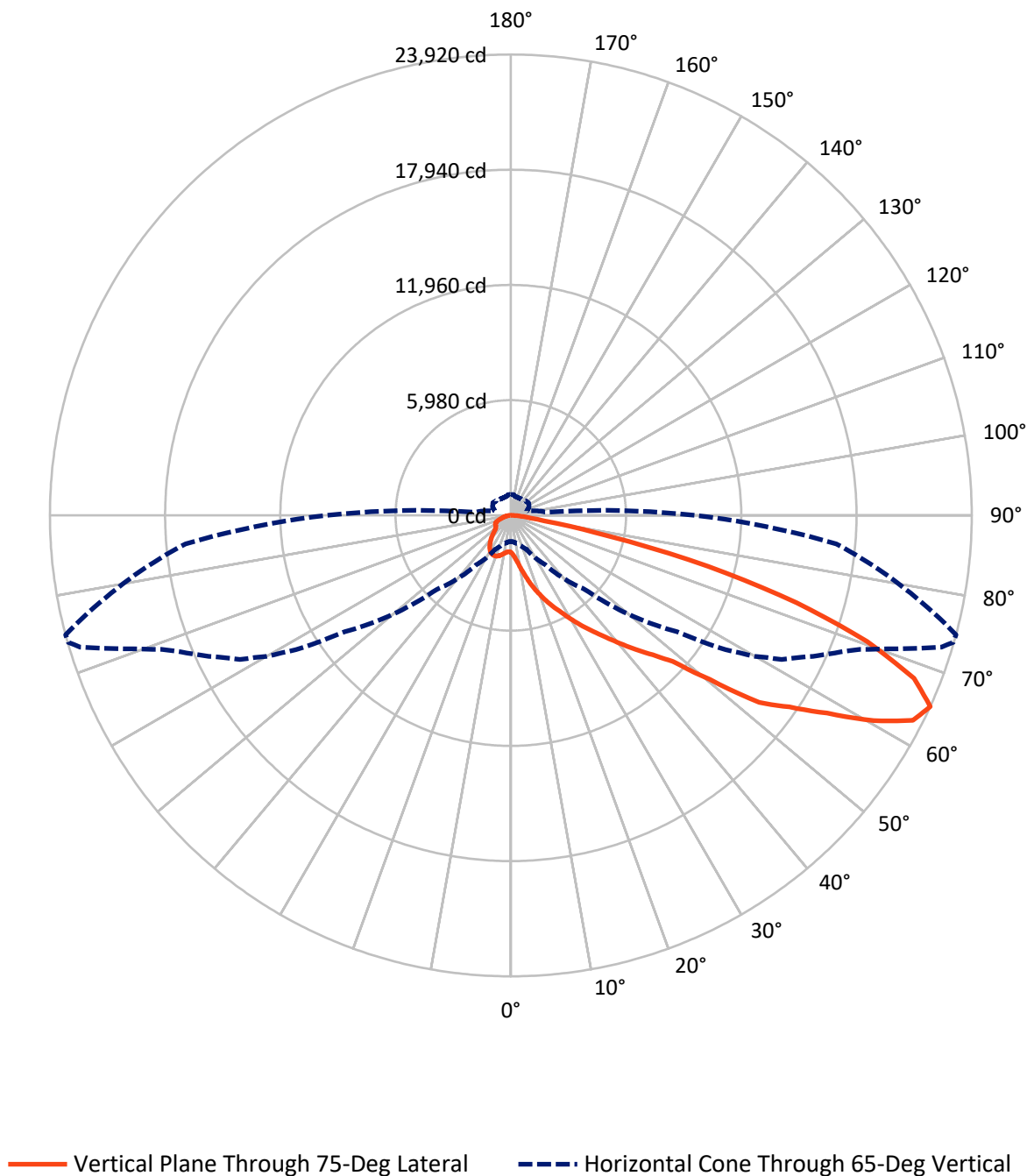


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.0	0.0	3644.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19991.0	0.0	19991.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	23635.0	0.0	23635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.0
10°-20°	927.6	3.9
20°-30°	1903.2	8.1
30°-40°	3202.1	13.5
40°-50°	4424.3	18.7
50°-60°	5522.9	23.4
60°-70°	4970.0	21.0
70°-80°	2083.4	8.8
80°-90°	364.0	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°	23635.0	100.0
0°-180°	23635.0	100.0

Coefficient of Utilization



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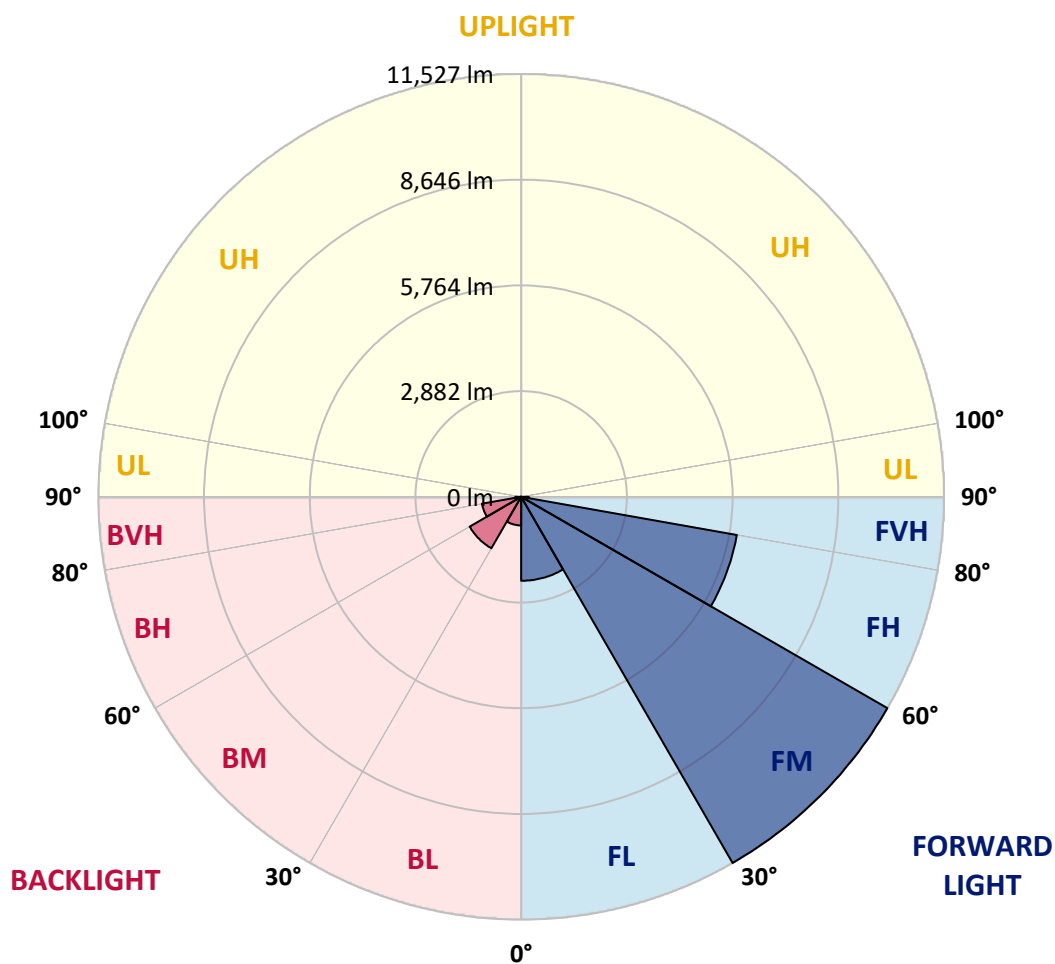
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.0	9.7			
FM	(30°-60°)	11527.3	48.8			
FH	(60°-80°)	5970.1	25.3			G3/7500
FVH	(80°-90°)	204.6	0.9			G2/225
BL	(0°-30°)	779.3	3.3	B2/1000		
BM	(30°-60°)	1622.0	6.9	B2/2500		
BH	(60°-80°)	1083.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	159.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	2438.7	2411.9	2418.6	2373.8	2319.0	2247.5	2168.0	2166.9	2168.0	2160.2	2131.1
5°	3381.8	3349.4	3337.1	3236.4	3088.8	2878.4	2650.2	2625.6	2615.4	2589.8	2530.5
7.5°	4069.8	4051.9	4032.9	3956.9	3822.6	3587.6	3281.2	3228.5	3178.3	3165.9	3098.8
10°	4513.9	4509.4	4469.1	4449.0	4365.1	4161.5	3862.9	3812.5	3757.7	3738.7	3668.2
12.5°	4865.2	4864.1	4845.1	4850.7	4777.9	4630.3	4373.0	4327.1	4286.8	4228.7	4178.3
15°	5108.0	5109.1	5137.1	5168.4	5157.1	5057.6	4815.9	4795.8	4761.2	4720.9	4661.5
17.5°	5307.0	5312.6	5341.8	5398.8	5460.3	5452.5	5261.2	5244.5	5214.2	5159.4	5128.1
20°	5756.8	5778.0	5722.1	5722.1	5728.8	5759.0	5667.3	5653.8	5611.3	5582.3	5557.7
22.5°	6516.3	6541.1	6414.6	6285.9	6159.5	6067.8	5976.1	5992.9	5963.7	5943.6	5929.1
25°	7503.1	7522.1	7317.3	7100.3	6843.0	6507.5	6280.3	6270.3	6254.6	6242.3	6235.5
27.5°	8431.5	8439.4	8245.9	7928.2	7629.5	7147.3	6589.1	6576.8	6557.7	6534.2	6514.1
30°	9225.9	9223.5	9024.5	8721.3	8401.4	7867.8	7057.8	7019.8	6963.8	6900.0	6850.9
32.5°	9913.8	9910.5	9692.4	9377.9	9042.4	8581.4	7699.9	7621.6	7534.4	7410.2	7335.2
35°	10455.2	10453.1	10247.2	9919.4	9534.6	9253.8	8436.0	8339.9	8229.1	8062.5	7947.2
37.5°	10660.0	10660.0	10544.8	10321.0	9981.0	9788.5	9253.8	9137.5	9019.0	8829.8	8700.1
40°	10540.4	10542.5	10567.1	10525.8	10360.2	10212.6	10016.8	9947.4	9845.6	9675.6	9540.2
42.5°	10138.7	10150.9	10314.3	10514.6	10597.4	10573.9	10693.5	10662.3	10590.6	10459.7	10352.4
45°	9629.7	9667.7	9846.8	10224.8	10663.3	10885.9	11260.7	11264.1	11250.7	11180.2	11097.5
47.5°	8930.6	8984.2	9220.3	9731.5	10509.0	11189.1	11836.8	11867.0	11895.0	11849.1	11811.2
50°	8002.0	8065.7	8419.3	9097.2	10194.7	11503.5	12925.4	13061.8	13189.3	13173.7	13199.4
52.5°	7007.5	7082.4	7515.4	8270.5	9654.2	11576.2	13621.2	13843.8	14066.5	14248.7	14442.3
55°	6110.4	6070.0	6503.0	7298.3	8766.1	11248.5	14246.6	14515.0	14763.3	14987.1	15217.5
57.5°	4894.3	4960.3	5394.3	6180.8	7590.4	10323.3	14677.3	15069.9	15426.8	15797.0	16123.7
60°	3577.5	3643.6	4114.6	4913.3	6313.9	8920.5	14348.4	14943.5	15515.2	16082.3	16525.4
62.5°	2160.2	2209.4	2624.4	3385.2	4868.6	7257.0	12882.9	13663.8	14504.9	15182.8	15861.9
65°	1344.7	1372.7	1526.0	1944.3	3126.8	5417.8	10525.8	11377.0	12283.3	13143.5	13849.3
67.5°	1100.8	1110.8	1138.8	1228.3	1717.2	3532.8	7834.2	8588.3	9405.9	10238.2	11023.6
70°	990.0	983.4	983.4	988.9	1100.8	1899.6	5129.1	5620.3	6301.6	7025.4	7743.5
72.5°	893.8	887.0	874.8	858.0	898.3	1158.9	2651.2	3021.6	3512.6	4155.9	4843.9
75°	803.3	794.4	779.7	758.5	786.4	874.8	1273.1	1428.6	1668.0	2010.3	2394.0
77.5°	709.2	698.0	684.6	669.0	704.7	680.1	746.1	802.1	893.8	1003.4	1147.8
80°	603.0	592.9	588.5	580.6	623.1	518.0	526.9	561.6	615.2	674.5	741.7
82.5°	472.1	472.1	490.0	493.3	540.3	372.6	393.8	424.0	452.0	483.3	514.6
85°	311.0	313.2	373.6	397.1	426.2	250.6	295.3	305.4	327.8	345.7	359.1
87.5°	97.4	105.1	228.3	252.8	245.0	142.0	181.3	185.7	201.4	213.7	224.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	2131.1	2117.7	2105.4	2104.3	2095.3	2083.0	2087.5	2068.5	2069.6	2059.5	2048.3
5°	2505.9	2496.9	2452.3	2439.9	2406.3	2385.0	2381.8	2336.9	2331.4	2305.6	2277.6
7.5°	3045.0	3016.0	2953.4	2923.1	2866.1	2823.6	2803.5	2744.1	2715.1	2647.9	2617.8
10°	3610.0	3573.1	3495.9	3453.3	3398.6	3330.3	3293.4	3207.3	3173.8	3112.2	3038.4
12.5°	4133.6	4096.6	4017.3	3984.8	3912.0	3839.4	3799.1	3701.7	3658.1	3559.6	3501.5
15°	4618.0	4581.0	4511.7	4478.1	4405.5	4346.2	4292.5	4196.2	4144.8	4053.0	3976.9
17.5°	5087.7	5048.7	4988.2	4958.0	4887.6	4827.2	4768.9	4678.4	4625.8	4534.0	4465.9
20°	5524.1	5494.9	5451.4	5411.1	5340.6	5285.9	5216.5	5138.1	5062.1	4995.0	4930.1
22.5°	5904.5	5893.2	5846.3	5828.4	5768.1	5721.1	5660.6	5583.3	5528.5	5443.6	5383.1
25°	6232.2	6228.9	6206.5	6200.9	6158.4	6113.6	6100.3	6036.5	5986.1	5911.2	5848.5
27.5°	6514.1	6517.6	6511.9	6527.5	6516.3	6496.2	6497.3	6476.2	6447.1	6384.3	6329.6
30°	6827.4	6809.5	6819.5	6842.0	6848.6	6850.9	6887.8	6900.0	6897.9	6856.4	6829.6
32.5°	7270.3	7227.8	7188.7	7185.3	7207.8	7216.7	7279.3	7311.7	7339.7	7349.8	7354.2
35°	7835.3	7750.3	7668.6	7624.9	7587.0	7597.1	7641.8	7694.4	7755.9	7798.4	7848.7
37.5°	8546.8	8442.8	8298.5	8195.5	8169.8	8113.9	8143.0	8184.4	8244.7	8310.8	8398.0
40°	9409.3	9251.5	9089.4	8952.9	8879.1	8776.1	8775.0	8767.2	8804.1	8865.7	8988.6
42.5°	10239.3	10099.6	9927.3	9784.0	9687.9	9550.3	9522.3	9449.7	9466.3	9520.1	9639.7
45°	11016.8	10901.7	10796.5	10630.9	10549.3	10400.5	10353.5	10267.3	10219.2	10243.8	10363.6
47.5°	11769.7	11695.8	11586.3	11478.9	11416.3	11283.1	11222.7	11161.2	11099.6	11097.5	11222.7
50°	13237.6	13198.3	13068.5	12956.7	12986.9	12823.5	12833.6	12668.1	12743.0	12751.9	13014.9
52.5°	14616.8	14753.3	14849.5	14967.0	15043.1	15057.6	15108.0	15182.8	15273.5	15452.4	15696.4
55°	15406.6	15577.7	15677.4	15766.8	15914.4	15945.9	16029.8	16129.3	16208.7	16410.0	16617.0
57.5°	16345.1	16662.9	16817.3	16959.3	17158.5	17234.5	17374.4	17482.9	17585.9	17824.1	18074.6
60°	16923.6	17310.6	17624.9	17849.8	18099.4	18278.3	18489.7	18659.8	18901.5	19186.7	19560.3
62.5°	16463.7	17032.1	17449.4	17835.3	18174.3	18516.6	18819.7	19137.5	19504.4	19936.2	20515.7
65°	14632.4	15210.8	15925.7	16326.2	16774.8	17302.9	17763.7	18278.3	18778.4	19407.0	20264.0
67.5°	11779.8	12452.2	13255.4	13659.3	14175.0	14764.5	15281.3	15910.0	16494.0	17255.9	18315.2
70°	8490.9	9360.1	10035.8	10457.5	11059.3	11666.8	12165.8	12897.4	13380.7	14161.5	15256.8
72.5°	5376.4	6062.1	6890.0	7421.4	7956.2	8571.4	9081.5	9712.5	10163.3	10874.8	11867.0
75°	2890.7	3396.4	4123.5	4628.0	5200.8	5726.6	6323.9	6746.9	7080.2	7642.9	8448.4
77.5°	1354.7	1662.4	2030.5	2418.6	2806.8	3211.7	3605.5	3947.9	4091.1	4413.2	4888.7
80°	822.2	921.8	1029.2	1148.9	1311.1	1442.0	1615.4	1740.7	1749.7	1851.4	1996.8
82.5°	549.2	586.1	618.6	648.9	690.2	722.6	759.6	803.3	821.1	844.6	891.5
85°	374.8	392.7	399.4	418.4	413.9	425.1	439.7	454.2	462.0	460.8	482.2
87.5°	230.4	239.4	243.8	248.3	245.0	240.5	247.3	255.0	257.3	250.6	252.8
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°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	2050.6	2040.5	2030.5	2023.7	2021.6	1962.2	1936.4	1919.6	1883.8	1854.7	1831.3
5°	2262.0	2240.7	2224.0	2203.9	2192.7	2042.7	1987.9	1949.8	1887.2	1850.3	1816.8
7.5°	2602.1	2542.8	2508.1	2468.9	2435.4	2164.7	2074.1	2014.7	1927.6	1878.2	1840.3
10°	2988.0	2926.5	2871.7	2811.2	2758.7	2326.9	2194.9	2103.1	1987.9	1924.2	1873.8
12.5°	3418.7	3358.3	3288.9	3211.7	3144.6	2532.7	2349.3	2218.4	2060.6	1975.6	1905.2
15°	3927.8	3821.5	3737.5	3648.0	3569.7	2778.8	2529.4	2348.1	2137.7	2022.6	1928.7
17.5°	4401.0	4289.1	4174.9	4096.6	4006.0	3055.1	2710.6	2480.1	2201.6	2052.8	1933.2
20°	4862.9	4741.0	4642.5	4537.4	4442.4	3341.5	2904.1	2596.4	2243.0	2054.0	1905.2
22.5°	5270.1	5194.0	5084.5	4970.3	4874.2	3628.0	3085.4	2694.9	2258.6	2028.2	1855.9
25°	5733.3	5652.7	5518.4	5422.3	5314.9	3919.9	3263.2	2771.1	2249.6	1980.1	1779.9
27.5°	6227.8	6138.3	6000.6	5900.0	5770.2	4223.1	3426.6	2825.8	2216.1	1901.7	1678.0
30°	6743.5	6661.7	6526.5	6424.7	6293.8	4544.1	3609.0	2862.7	2149.0	1793.3	1559.4
32.5°	7297.2	7229.0	7094.7	6988.4	6848.6	4892.1	3779.0	2873.9	2047.2	1664.6	1434.1
35°	7823.0	7776.0	7663.0	7563.5	7418.0	5221.0	3959.0	2868.3	1926.4	1523.6	1320.1
37.5°	8414.8	8386.8	8330.9	8204.5	8026.6	5667.3	4174.9	2844.8	1778.7	1383.8	1232.8
40°	9045.7	9048.0	8987.5	8901.5	8735.9	6208.7	4432.2	2799.0	1617.6	1260.8	1153.3
42.5°	9713.5	9748.3	9719.1	9657.7	9498.8	6754.6	4739.8	2743.1	1461.1	1141.1	1075.1
45°	10478.7	10521.3	10566.0	10475.4	10321.0	7475.1	5144.9	2670.3	1292.1	1041.5	1021.3
47.5°	11361.5	11428.5	11468.8	11469.9	11315.6	8367.8	5802.6	2626.7	1142.2	974.4	995.7
50°	13224.0	13245.3	13340.4	13506.0	13387.4	10434.0	6951.5	2599.9	1040.3	933.0	976.7
52.5°	15907.8	16141.6	16306.1	16294.8	16133.8	11746.3	7584.8	2461.2	979.9	917.3	967.7
55°	17000.7	17292.7	17597.0	17677.6	17552.3	12866.1	8183.2	2322.5	950.9	928.4	971.0
57.5°	18457.2	18949.5	19366.8	19542.4	19361.2	14299.1	8970.7	2249.6	942.0	958.7	992.3
60°	20158.8	20767.4	21315.5	21631.0	21631.0	15945.9	9787.5	2219.5	929.7	1003.4	1028.1
62.5°	21251.8	22145.6	22973.4	23435.4	23422.0	17092.5	10149.8	2116.6	901.7	1034.8	1077.3
65°	21256.3	22319.1	23374.0	23893.1	23919.8	16951.6	9551.3	1869.3	850.2	1039.3	1126.6
67.5°	19484.2	20617.4	21846.9	22427.5	22561.8	15604.6	8268.2	1537.1	766.4	994.5	1144.4
70°	16456.0	17562.4	18817.5	19388.0	19626.4	13302.4	6659.6	1184.7	659.0	896.0	1107.5
72.5°	12964.4	14049.6	14923.4	15340.6	15526.3	10167.7	4849.5	895.0	540.3	755.1	1007.9
75°	9178.9	9993.3	10457.5	10550.4	10579.5	6129.3	2946.6	665.6	445.2	587.3	851.3
77.5°	5180.6	5529.7	5491.7	5533.0	5188.5	2366.0	1283.1	476.6	366.9	446.4	660.0
80°	2022.6	2085.2	1958.8	1919.6	1760.8	880.4	566.1	332.2	293.2	337.8	462.0
82.5°	891.5	920.7	893.8	900.6	861.4	454.2	338.9	240.5	223.8	247.3	306.5
85°	491.1	500.1	497.7	512.3	491.1	181.3	161.0	147.7	156.6	167.8	196.8
87.5°	239.4	241.7	233.9	246.2	238.3	91.8	79.4	83.9	91.8	94.0	94.0
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°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1814.5	1805.6	1806.7	1804.4	1799.9	1799.9
5°	1798.9	1789.8	1789.8	1787.7	1782.1	1783.2
7.5°	1814.5	1799.9	1794.4	1786.5	1778.7	1778.7
10°	1832.4	1806.7	1791.0	1777.6	1767.5	1767.5
12.5°	1845.8	1805.6	1779.9	1762.0	1751.9	1751.9
15°	1850.3	1797.8	1762.0	1740.7	1731.8	1730.6
17.5°	1835.8	1767.5	1723.9	1699.3	1688.0	1684.8
20°	1791.0	1712.7	1660.0	1632.3	1616.5	1610.9
22.5°	1723.9	1634.4	1572.9	1543.9	1523.6	1520.4
25°	1629.9	1533.7	1473.4	1445.4	1434.1	1430.9
27.5°	1520.4	1430.9	1379.4	1361.5	1351.4	1350.2
30°	1416.2	1340.2	1302.2	1288.7	1276.4	1274.2
32.5°	1319.0	1270.8	1256.3	1237.3	1208.2	1204.8
35°	1249.6	1245.1	1235.0	1192.6	1156.7	1146.6
37.5°	1207.1	1248.5	1197.1	1113.2	1087.3	1085.2
40°	1182.4	1213.8	1125.4	1096.3	1098.6	1096.3
42.5°	1126.6	1158.9	1127.7	1114.2	1123.1	1125.4
45°	1070.6	1106.4	1144.4	1135.4	1156.7	1156.7
47.5°	1039.3	1092.9	1143.3	1143.3	1174.6	1185.8
50°	1003.4	1081.7	1125.4	1141.1	1165.7	1156.7
52.5°	1001.3	1062.8	1099.7	1127.7	1138.8	1128.7
55°	1004.6	1047.1	1073.9	1105.2	1118.7	1119.8
57.5°	1009.0	1038.2	1056.0	1070.6	1110.8	1110.8
60°	1020.3	1030.4	1040.3	1048.3	1100.8	1101.9
62.5°	1038.2	1022.4	1020.3	1028.1	1095.3	1090.7
65°	1066.2	1011.3	994.5	1002.4	1089.7	1076.2
67.5°	1104.2	994.5	962.0	967.7	1085.2	1056.0
70°	1138.8	967.7	921.8	916.2	1042.7	991.2
72.5°	1142.2	936.4	865.9	849.1	906.1	856.9
75°	1086.2	915.0	804.3	755.1	748.4	741.7
77.5°	978.9	902.8	732.7	655.5	642.1	646.6
80°	818.9	856.9	646.6	554.8	627.5	619.7
82.5°	612.0	756.2	549.2	491.1	490.0	432.8
85°	340.2	589.6	447.5	368.1	256.2	248.3
87.5°	95.0	327.8	313.2	208.0	142.0	147.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)