

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: P193035

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35785.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

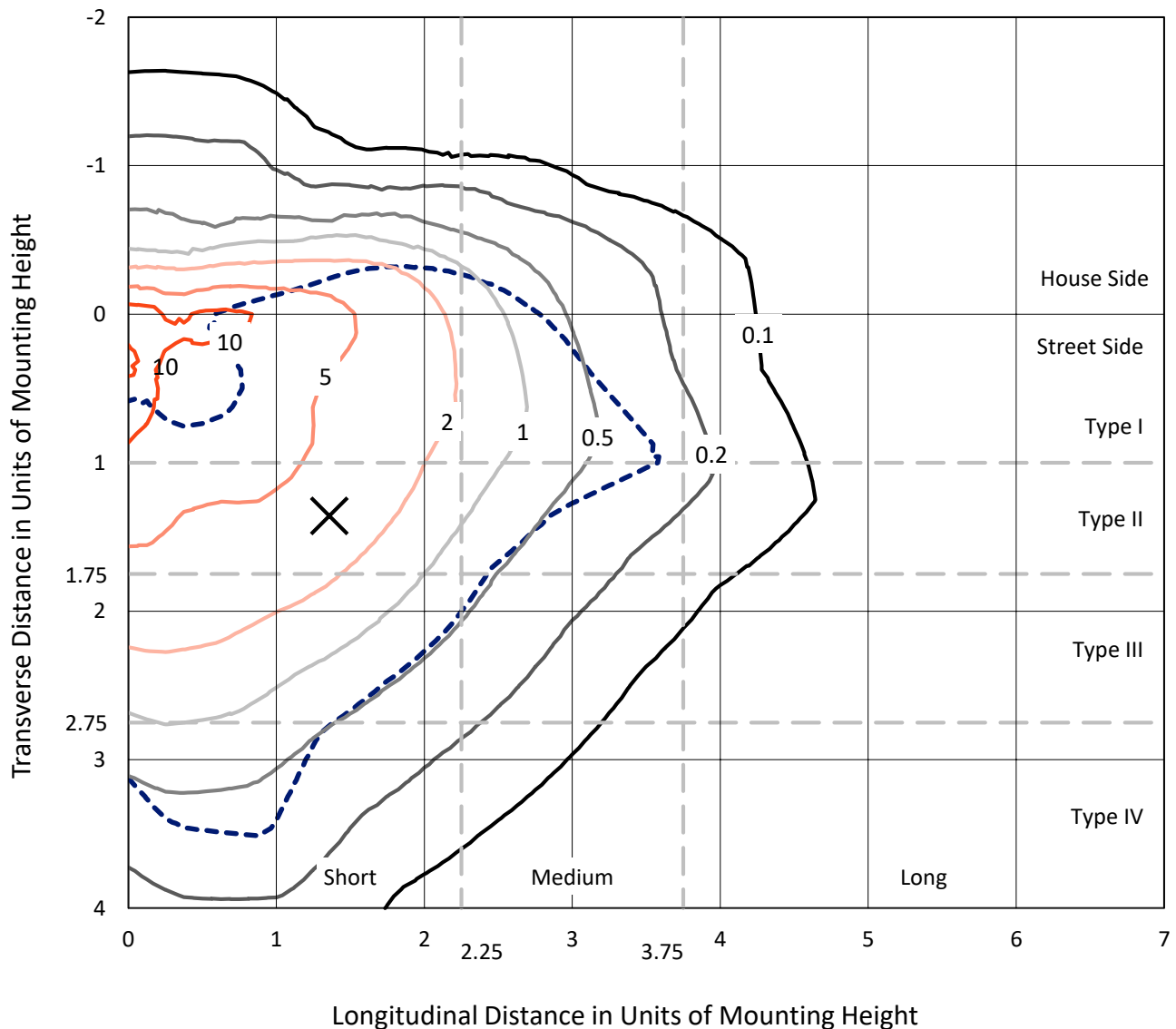


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

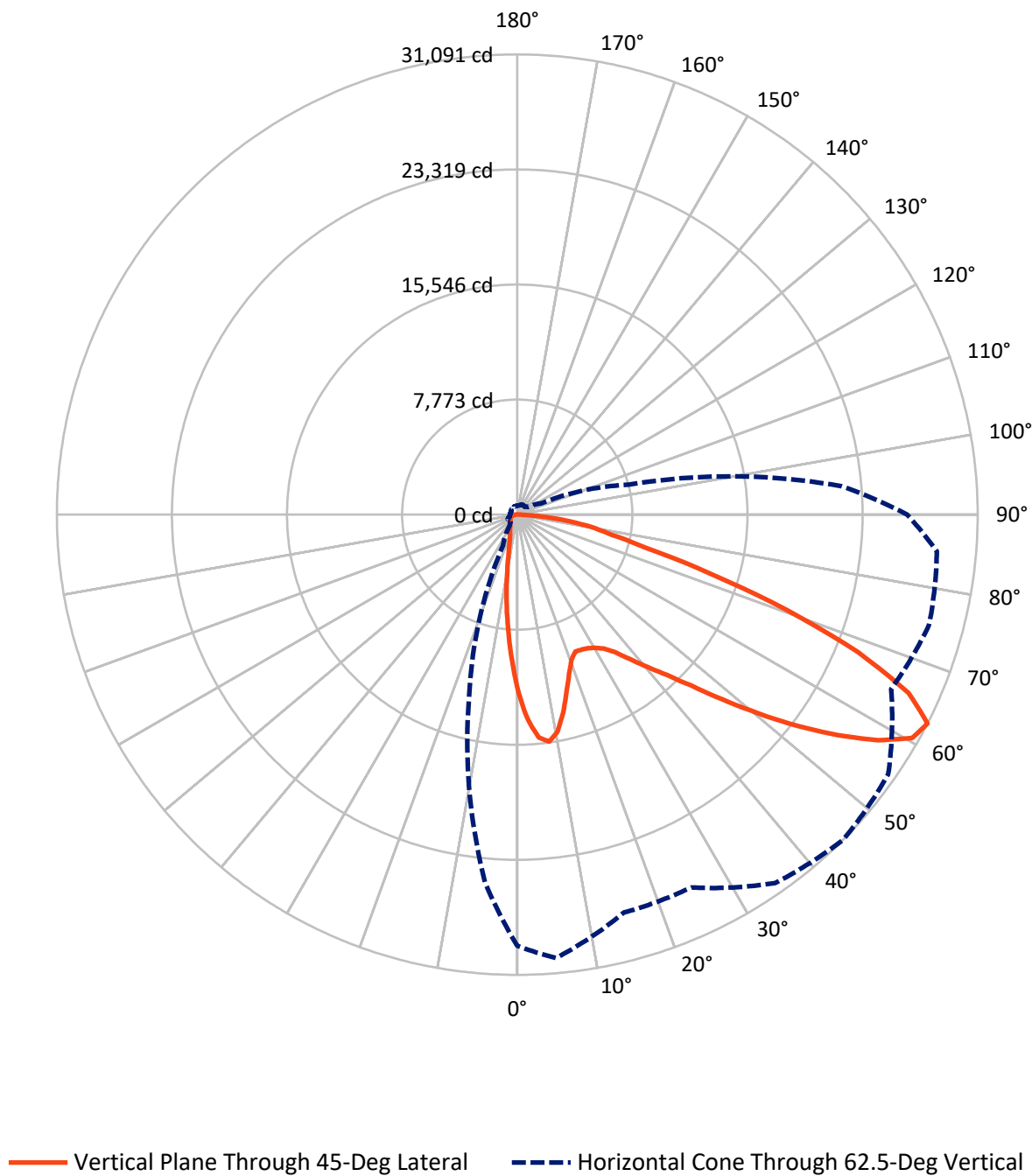


Based on 30 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5922.0	0.0	5922.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29863.6	0.0	29863.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	35785.6	0.0	35785.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.1	2.5
10°-20°	1613.9	4.5
20°-30°	2353.1	6.6
30°-40°	3624.1	10.1
40°-50°	5333.7	14.9
50°-60°	7823.4	21.9
60°-70°	8745.4	24.4
70°-80°	4281.6	12.0
80°-90°	1130.4	3.2
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°	35785.6	100.0
0°-180°	35785.6	100.0

Coefficient of Utilization



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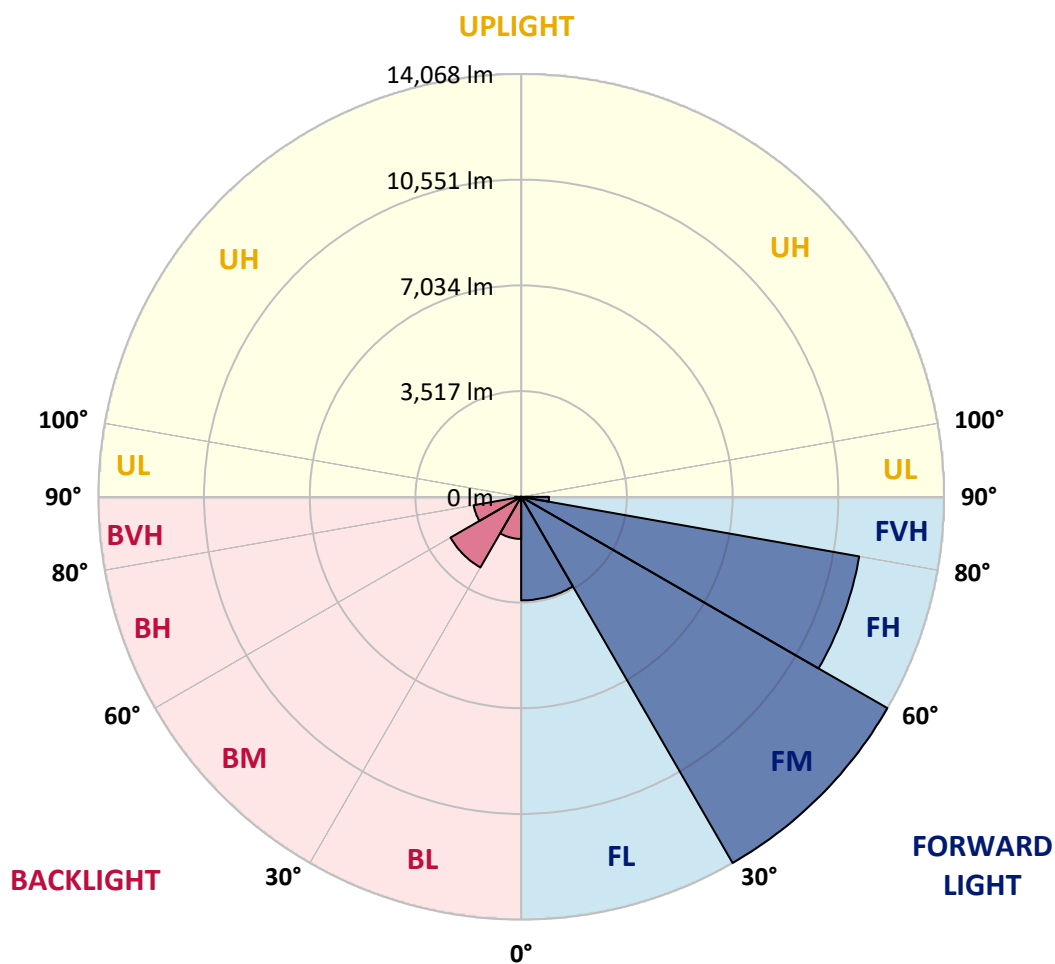
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3446.0	9.6			
FM	(30°-60°)	14067.7	39.3			
FH	(60°-80°)	11421.5	31.9			G4/12000
FVH	(80°-90°)	928.4	2.6			G5
BL	(0°-30°)	1401.1	3.9	B3/2500		
BM	(30°-60°)	2713.4	7.6	B3/5000		
BH	(60°-80°)	1605.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	202.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	12562.4	12763.1	13154.6	13447.7	13803.7	13886.5	14000.5	13888.4	13689.6	13426.1	13339.5
5°	11813.0	12241.9	13192.0	14028.1	14771.7	15117.8	15214.3	14928.9	14352.7	13595.2	13133.0
7.5°	10611.0	11220.8	12507.4	13738.8	14834.5	15481.7	15465.9	14803.1	13742.7	12509.3	11767.7
10°	9574.3	10270.7	11746.0	13123.1	14285.7	14913.3	14671.4	13823.4	12558.5	11138.2	10333.6
12.5°	8994.0	9676.5	11173.6	12556.5	13528.4	13744.7	13559.8	12729.7	11537.6	10101.4	9397.3
15°	8893.7	9643.1	10945.5	12070.6	12615.6	12426.7	12206.5	11834.6	10992.7	9767.1	9033.3
17.5°	9328.4	10154.7	11207.0	11732.3	11639.8	11311.3	11248.4	11289.6	11087.1	10138.9	9293.0
20°	10162.5	11153.9	11830.7	11573.0	10898.2	10445.7	10461.5	11093.0	11692.9	11081.2	10115.2
22.5°	11332.9	12464.1	12729.7	11657.5	10585.5	10048.3	10178.3	11201.1	12658.9	12458.2	11224.8
25°	12847.7	13878.5	13687.7	11964.4	10616.9	10097.5	10201.9	11574.9	13799.8	13835.3	12597.9
27.5°	14315.2	15271.2	14492.2	12371.7	10746.7	10213.7	10351.3	12163.1	14889.7	15330.2	14167.6
30°	15460.0	16125.0	14810.9	12743.5	11002.5	10439.8	10611.0	12721.8	15385.4	16339.5	15375.5
32.5°	16408.3	16886.3	15318.4	13203.8	11472.7	10795.9	11096.9	13400.4	16099.5	17299.4	16557.8
35°	17620.1	17755.8	15950.0	13717.2	12198.6	11415.6	11789.4	14065.4	16780.1	18269.2	17722.4
37.5°	19040.4	18865.4	16546.0	14419.5	13136.9	12385.4	12694.3	14795.3	17340.7	19368.9	18912.6
40°	20445.0	20024.0	17293.5	15509.4	14506.1	13528.4	13894.3	15574.3	17864.0	20470.6	20075.2
42.5°	21639.1	21015.5	18031.3	16707.3	15780.8	14789.4	15226.1	16359.2	18363.6	21410.9	21084.3
45°	22522.3	21747.3	18733.5	17858.1	17537.4	16465.4	16671.9	17258.1	18904.7	22195.8	21914.4
47.5°	23311.1	22483.0	19528.2	19018.8	19073.8	18645.0	18312.5	18304.6	19542.0	22837.1	22699.3
50°	24367.5	23504.0	20382.0	20214.8	21379.5	21094.1	20360.4	19526.3	20348.6	23564.9	23549.2
52.5°	25823.3	25121.0	21424.6	21503.4	23531.5	23718.3	22809.5	20993.8	21611.5	24900.6	24806.2
55°	27544.6	27135.4	22844.9	22984.7	26171.4	26305.3	25402.3	22829.1	23468.6	26834.4	26572.7
57.5°	28888.1	28801.7	24402.9	24762.9	28142.6	28744.6	27914.4	24953.7	25561.6	28463.2	27806.2
60°	29423.2	29842.2	26061.3	26557.0	29966.2	30633.0	29905.2	26820.6	27416.7	29138.1	27721.6
62.5°	29134.1	30070.5	27827.8	27786.5	30373.4	31091.4	30579.9	27859.3	28791.8	28441.6	26319.0
65°	27798.3	29250.2	28852.7	27469.9	28980.6	29039.6	28874.4	27395.0	29116.4	26240.4	23608.2
67.5°	24888.8	26978.0	27503.3	24755.1	25223.3	24839.6	24562.2	24853.4	27424.5	22941.3	19841.1
70°	20271.9	23415.5	23667.2	19799.8	19587.2	19329.6	18776.8	20376.1	24086.2	18802.4	15743.3
72.5°	14905.3	18210.2	18983.4	14521.7	13538.2	13591.3	13154.6	15355.9	19583.3	13967.0	11753.9
75°	10197.9	13186.1	14852.2	10133.0	8952.7	8974.3	8919.3	10880.5	15597.9	9716.0	8795.3
77.5°	7449.8	9420.9	11201.1	6812.4	6613.7	6491.7	6462.2	7612.9	11958.5	7054.4	6830.2
80°	5978.2	6960.0	7524.4	4721.2	5077.3	5067.5	4904.2	5234.7	7809.8	5159.9	5108.8
82.5°	4146.8	5348.8	6096.3	3700.3	3426.8	3369.8	3409.1	3898.9	5519.9	3527.2	3354.0
85°	2187.5	3552.8	6037.3	3279.3	2034.1	1622.9	2018.3	3192.8	4782.3	1868.9	1636.7
87.5°	279.3	1026.8	3997.4	1308.2	802.6	432.7	957.9	1798.0	3070.7	381.7	332.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	13117.2	12855.6	12513.3	12196.6	11868.1	11541.5	11114.6	10847.0	10662.2	10626.8	10548.1
5°	12798.5	11929.0	11271.9	10703.5	10188.1	9460.2	9056.9	8722.5	8543.5	8525.8	8482.6
7.5°	11329.0	10129.1	9241.8	8437.2	7707.4	7119.3	6470.2	6167.1	6043.2	6072.7	6102.2
10°	9800.5	8458.9	7439.9	6617.7	5974.3	5478.6	4957.3	4605.2	4361.3	4312.0	4302.2
12.5°	8683.2	7211.6	6222.2	5641.9	5144.2	4677.9	4125.2	3710.1	3393.4	3285.2	3212.4
15°	8211.1	6601.9	5565.1	4939.6	4390.8	3798.6	3285.2	2850.5	2559.3	2464.9	2411.8
17.5°	8311.4	6432.7	5112.7	4312.0	3609.8	2992.1	2344.9	1973.1	1798.0	1752.7	1752.7
20°	8838.5	6401.3	4738.9	3733.7	2858.3	2142.2	1611.1	1398.6	1341.6	1335.7	1351.4
22.5°	9578.2	6511.5	4459.6	3232.1	2220.9	1563.9	1255.1	1176.4	1150.8	1156.7	1174.4
25°	10679.9	6883.3	4257.0	2785.6	1742.9	1280.6	1119.4	1072.2	1060.4	1076.1	1097.7
27.5°	11986.1	7255.1	4131.1	2449.1	1471.5	1170.5	1064.3	1015.0	1022.8	1042.7	1062.3
30°	13133.0	7559.8	3932.5	2209.1	1386.8	1176.4	1064.3	997.3	989.5	993.3	999.2
32.5°	14161.7	7766.4	3700.3	1981.0	1196.1	1044.6	993.3	983.6	940.2	924.6	926.5
35°	15049.0	7766.4	3560.6	1847.1	1072.2	926.5	843.9	794.8	773.1	775.0	796.7
37.5°	15904.8	7611.0	3491.7	1772.4	1005.1	881.2	808.5	765.3	735.8	729.9	733.7
40°	16660.1	7384.9	3413.0	1740.9	954.1	853.8	784.9	749.5	718.1	708.2	710.1
42.5°	17266.0	7201.9	3326.5	1699.6	922.5	834.0	769.1	737.7	702.3	692.4	690.5
45°	17921.0	7140.8	3212.4	1617.0	938.3	836.1	765.3	731.8	696.4	684.6	680.6
47.5°	18784.6	7331.8	3094.3	1518.7	971.8	845.8	771.2	731.8	694.5	684.6	680.6
50°	19872.5	7780.3	2944.9	1375.0	938.3	873.4	769.1	725.9	694.5	684.6	676.8
52.5°	21269.3	8386.0	2748.2	1209.8	918.7	940.2	765.3	714.1	684.6	670.9	657.0
55°	22967.0	8881.9	2514.0	1074.1	873.4	922.5	759.4	700.4	668.8	649.2	637.4
57.5°	24210.2	9060.9	2213.0	985.5	810.4	893.0	751.4	682.7	649.2	633.4	617.7
60°	23964.3	8714.6	1959.3	930.5	773.1	806.6	745.5	666.9	631.5	619.7	605.9
62.5°	21995.1	7809.8	1796.0	904.8	749.5	735.8	751.4	651.1	615.6	603.8	600.0
65°	19042.4	6474.0	1731.1	898.9	729.9	694.5	698.3	633.4	597.9	588.2	584.2
67.5°	15707.9	5224.9	1674.1	918.7	704.2	665.0	645.2	609.7	580.2	570.5	562.5
70°	12387.4	4345.6	1648.5	906.9	672.8	635.5	613.7	584.2	558.7	548.8	542.9
72.5°	9975.6	3670.8	1634.7	895.1	631.5	596.0	576.4	550.7	523.3	519.3	513.4
75°	8441.2	2885.9	1497.1	857.6	584.2	548.8	535.1	511.5	483.9	483.9	479.9
77.5°	6511.5	2087.2	1245.2	759.4	535.1	495.7	483.9	466.2	434.8	440.7	438.6
80°	4809.8	1361.3	973.7	629.6	474.0	436.7	430.8	413.1	379.6	387.6	387.6
82.5°	3295.0	893.0	700.4	515.3	405.3	369.9	369.9	352.2	314.7	318.7	330.5
85°	1654.4	613.7	523.3	399.4	314.7	297.0	297.0	283.3	246.0	247.9	263.7
87.5°	503.5	369.9	346.3	285.2	226.2	222.4	212.5	202.5	178.9	177.0	186.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	10428.0	10315.9	10180.2	9881.2	9780.9	9775.0	9865.4	9771.0	9952.0	9875.3	9959.8
5°	8409.6	8299.6	8148.1	7766.4	7534.3	7376.9	7302.3	7081.8	7241.2	7125.2	7221.5
7.5°	6184.8	6210.4	6110.1	5885.8	5380.3	5126.5	4977.0	4843.3	4959.3	4947.5	5132.4
10°	4347.5	4416.4	4345.6	4119.3	3710.1	3570.5	3598.0	3651.1	3802.6	3881.2	4166.5
12.5°	3129.8	3125.9	3080.6	2878.0	2608.4	2624.2	2736.4	2828.8	2968.5	3051.1	3342.2
15°	2337.0	2301.6	2282.0	2116.7	1963.3	1996.7	2051.8	2061.6	2150.1	2199.3	2435.4
17.5°	1766.5	1784.2	1805.8	1687.8	1571.8	1550.2	1506.9	1453.8	1479.4	1489.2	1607.2
20°	1402.6	1473.5	1526.6	1443.9	1325.9	1262.9	1207.9	1172.5	1172.5	1170.5	1203.9
22.5°	1225.6	1276.7	1333.7	1276.7	1170.5	1115.4	1084.0	1056.4	1052.5	1052.5	1084.0
25°	1129.2	1166.6	1221.6	1182.3	1103.6	1062.3	1032.8	997.3	983.6	979.6	1001.3
27.5°	1082.0	1097.7	1125.3	1089.9	1022.8	1003.2	995.4	963.8	946.1	936.4	957.9
30°	1001.3	997.3	999.2	963.8	910.7	908.8	922.5	928.4	922.5	920.6	954.1
32.5°	926.5	918.7	916.6	885.2	836.1	824.3	836.1	847.9	861.6	881.2	920.6
35°	832.1	851.7	863.5	836.1	777.1	741.7	727.8	706.3	694.5	694.5	739.6
37.5°	757.3	802.6	820.3	794.8	729.9	680.6	657.0	653.2	655.1	662.9	706.3
40°	731.8	765.3	780.9	755.4	690.5	645.2	631.5	627.5	631.5	643.3	686.5
42.5°	716.0	739.6	737.7	706.3	653.2	621.6	613.7	609.7	613.7	625.6	672.8
45°	702.3	718.1	702.3	665.0	615.6	600.0	601.9	600.0	603.8	615.6	661.0
47.5°	690.5	696.4	676.8	639.3	588.2	584.2	592.0	597.9	601.9	611.8	659.1
50°	672.8	672.8	655.1	615.6	564.6	566.5	576.4	590.1	592.0	603.8	641.4
52.5°	651.1	649.2	637.4	600.0	544.8	550.7	550.7	566.5	570.5	584.2	623.7
55°	633.4	629.6	623.7	588.2	527.1	537.0	531.1	537.0	546.9	560.6	603.8
57.5°	617.7	609.7	609.7	578.3	513.4	517.4	503.5	511.5	523.3	535.1	580.2
60°	601.9	594.1	597.9	564.6	491.7	487.9	482.0	497.6	501.6	515.3	560.6
62.5°	584.2	578.3	580.2	548.8	476.1	466.2	466.2	479.9	482.0	501.6	544.8
65°	570.5	562.5	560.6	533.0	458.4	446.6	452.5	458.4	462.2	482.0	523.3
67.5°	556.6	541.0	541.0	519.3	438.6	426.8	438.6	436.7	442.6	460.3	493.8
70°	538.9	517.4	519.3	509.4	419.0	405.3	415.0	413.1	417.1	428.9	462.2
72.5°	511.5	493.8	497.6	493.8	399.4	379.6	383.6	383.6	383.6	393.5	428.9
75°	476.1	462.2	474.0	483.9	375.8	348.2	352.2	352.2	346.3	352.2	395.4
77.5°	432.7	424.9	464.3	450.4	348.2	314.7	314.7	310.9	299.1	306.9	354.1
80°	385.5	379.6	428.9	377.7	316.8	273.4	269.6	259.7	247.9	253.8	301.0
82.5°	336.4	330.5	360.0	289.2	273.4	226.2	216.5	198.7	186.9	192.8	236.1
85°	275.5	275.5	277.4	218.4	208.5	173.0	161.2	137.6	123.9	127.9	169.2
87.5°	196.6	202.5	186.9	149.4	123.9	96.3	88.5	74.8	63.0	72.7	88.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3	12090.3
2.5°	10392.6	10609.1	10854.9	11169.7	11439.2	11881.8	12306.8	12562.4
5°	7770.4	8130.4	8578.9	9155.3	9692.3	10498.8	11299.5	11813.0
7.5°	5561.2	5946.8	6430.8	7150.7	7910.1	8938.9	9997.2	10611.0
10°	4601.2	4996.7	5403.9	5889.7	6511.5	7630.6	8881.9	9574.3
12.5°	3806.5	4229.4	4668.1	5179.7	5756.0	6755.3	8197.2	8994.0
15°	2913.4	3385.5	3902.8	4550.1	5272.1	6426.8	8028.1	8893.7
17.5°	1996.7	2523.9	3159.3	3958.0	4841.3	6320.5	8331.0	9328.4
20°	1375.0	1758.6	2437.3	3373.7	4436.0	6306.8	8913.4	10162.5
22.5°	1150.8	1321.9	1817.6	2836.7	4131.1	6476.1	9816.3	11332.9
25°	1064.3	1166.6	1451.8	2370.5	3908.7	6865.6	11059.6	12847.7
27.5°	1013.1	1105.6	1318.0	2065.5	3733.7	7317.9	12269.4	14315.2
30°	1032.8	1127.2	1280.6	1910.2	3495.6	7695.6	13343.4	15460.0
32.5°	930.5	971.8	1097.7	1772.4	3324.5	8012.3	14283.8	16408.3
35°	792.7	865.6	979.6	1707.5	3328.5	8224.8	15308.7	17620.1
37.5°	755.4	828.1	910.7	1683.9	3373.7	8450.9	16485.0	19040.4
40°	731.8	798.6	869.4	1670.1	3417.0	8657.6	17637.8	20445.0
42.5°	716.0	777.1	865.6	1622.9	3438.6	8842.5	18586.0	21639.1
45°	714.1	777.1	881.2	1575.7	3472.0	9041.2	19380.7	22522.3
47.5°	716.0	802.6	851.7	1518.7	3472.0	9373.7	20313.2	23311.1
50°	708.2	845.8	820.3	1438.0	3391.4	10003.1	21591.9	24367.5
52.5°	704.2	839.9	759.4	1314.1	3251.8	11002.5	23230.4	25823.3
55°	694.5	810.4	716.0	1129.2	3088.4	12092.3	24985.3	27544.6
57.5°	684.6	718.1	692.4	967.8	2836.7	12859.5	26193.0	28888.1
60°	767.2	627.5	672.8	889.2	2500.3	13070.0	26145.8	29423.2
62.5°	710.1	588.2	647.3	871.5	2264.2	12479.8	24938.0	29134.1
65°	556.6	562.5	621.6	922.5	2201.2	10915.9	22797.7	27798.3
67.5°	509.4	537.0	596.0	987.4	2207.1	8740.2	19599.0	24888.8
70°	479.9	509.4	566.5	1020.9	2222.9	6515.3	15495.5	20271.9
72.5°	446.6	472.1	533.0	1026.8	2120.6	4733.0	11942.8	14905.3
75°	407.2	430.8	485.8	895.1	1756.7	3283.2	9135.6	10197.9
77.5°	361.9	379.6	426.8	690.5	1304.2	2100.9	6857.6	7449.8
80°	308.8	318.7	358.1	505.6	893.0	1314.1	5425.5	5978.2
82.5°	247.9	251.9	277.4	379.6	580.2	843.9	3633.4	4146.8
85°	175.1	175.1	190.7	275.5	395.4	535.1	1973.1	2187.5
87.5°	82.6	84.5	84.5	151.5	206.6	271.5	454.4	279.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)