

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: P193041

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193041
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-03-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 16943.9 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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



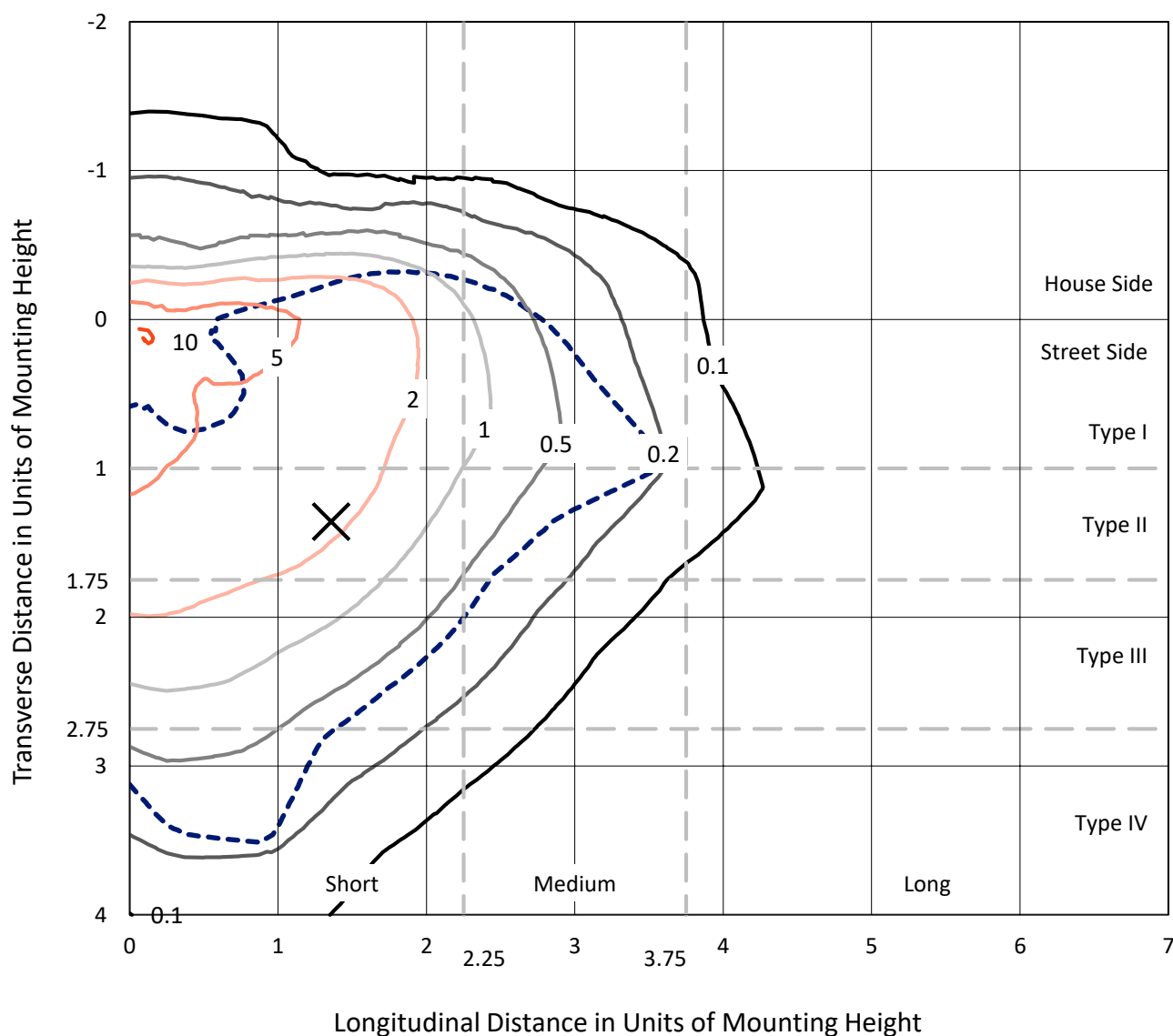
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

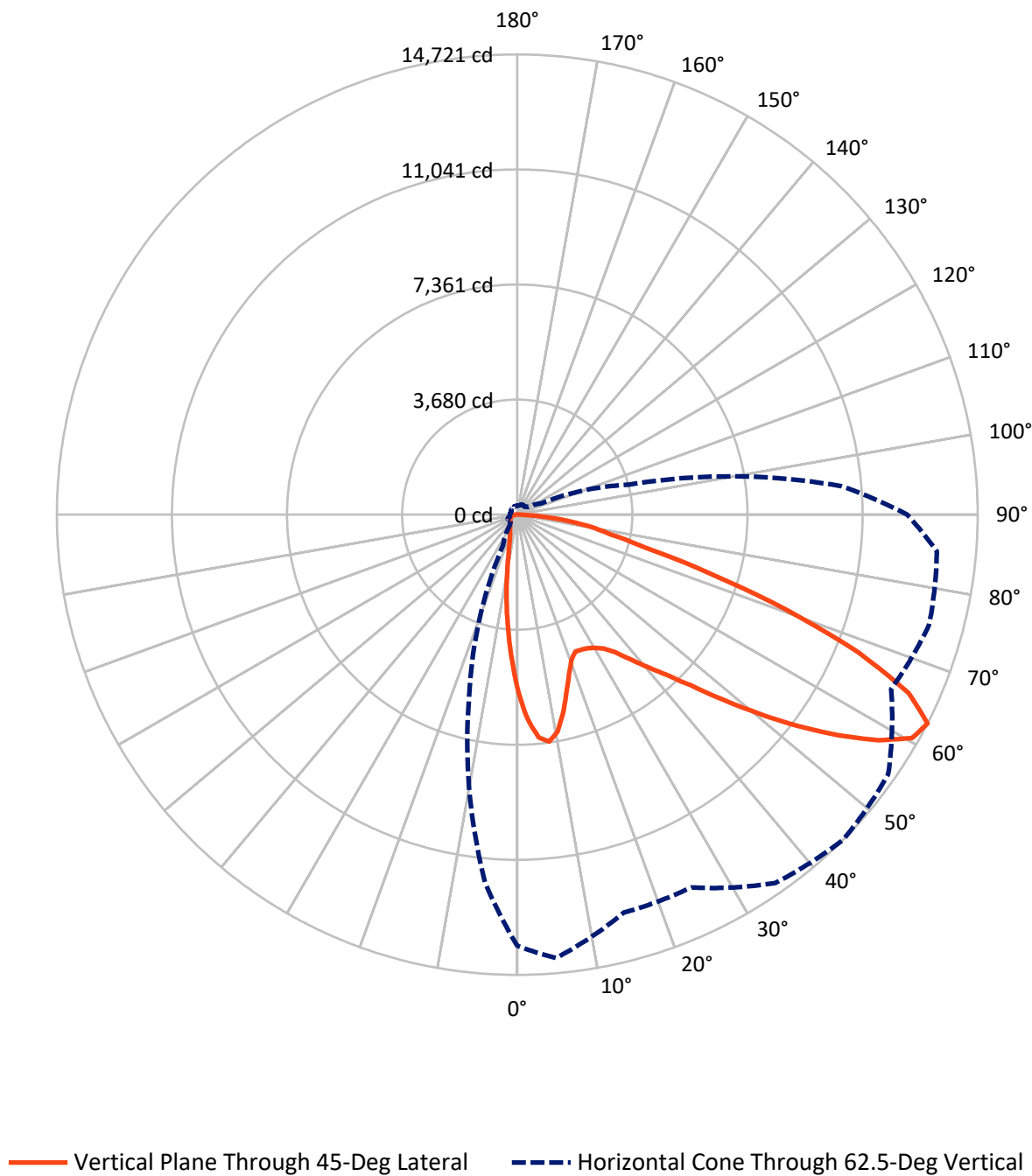


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.0	0.0	2804.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14139.9	0.0	14139.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	16943.9	0.0	16943.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	2.5
10°-20°	764.2	4.5
20°-30°	1114.1	6.6
30°-40°	1715.9	10.1
40°-50°	2525.4	14.9
50°-60°	3704.2	21.9
60°-70°	4140.8	24.4
70°-80°	2027.3	12.0
80°-90°	535.3	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°	16943.9	100.0
0°-180°	16943.9	100.0

Coefficient of Utilization



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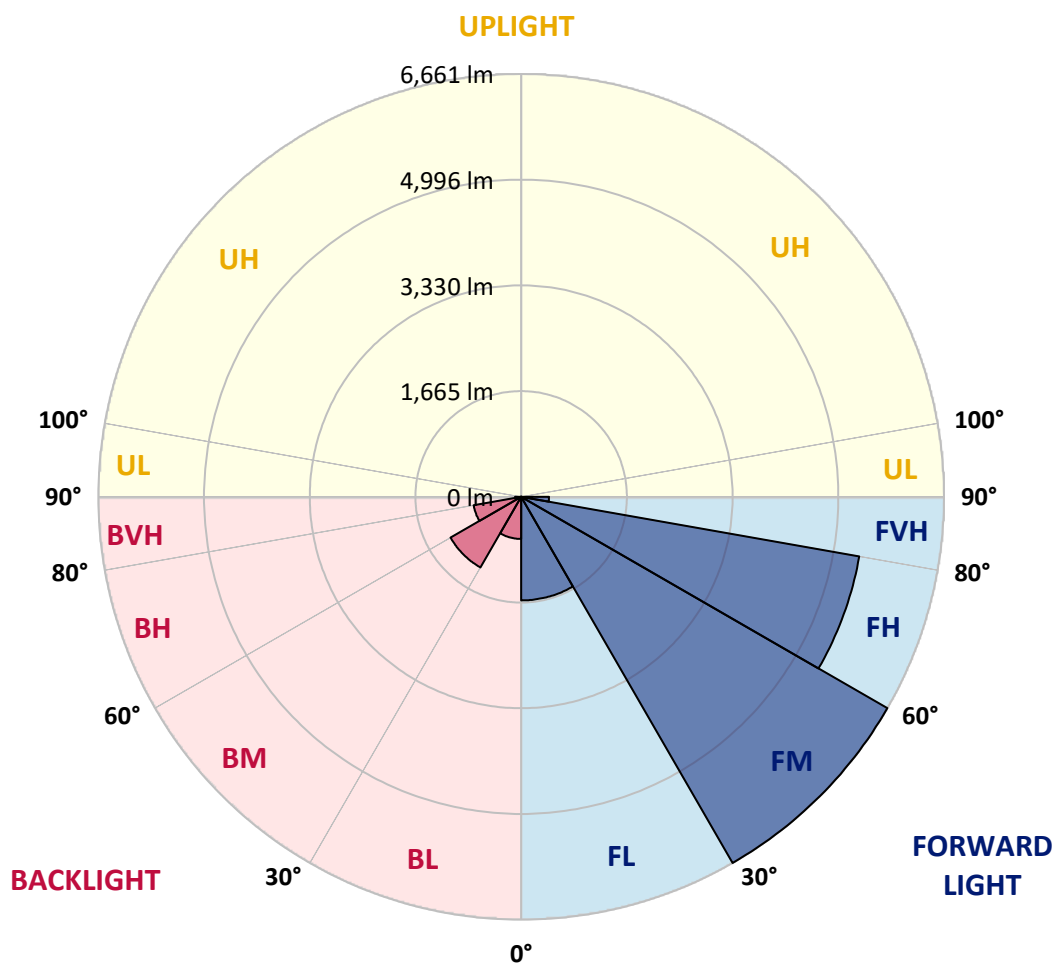
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.6	9.6			
FM	(30°-60°)	6660.8	39.3			
FH	(60°-80°)	5407.9	31.9			G3/7500
FVH	(80°-90°)	439.6	2.6			G3/500
BL	(0°-30°)	663.4	3.9	B2/1000		
BM	(30°-60°)	1284.8	7.6	B2/2500		
BH	(60°-80°)	760.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	95.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	5948.1	6043.1	6228.5	6367.3	6535.9	6575.0	6629.0	6575.9	6481.8	6357.0	6316.1
5°	5593.2	5796.3	6246.2	6642.0	6994.1	7158.0	7203.7	7068.6	6795.7	6437.1	6218.3
7.5°	5024.2	5312.8	5922.1	6505.1	7023.9	7330.3	7322.9	7009.0	6506.9	5923.0	5571.7
10°	4533.2	4863.0	5561.7	6213.6	6764.0	7061.2	6946.6	6545.1	5946.2	5273.7	4892.8
12.5°	4258.5	4581.7	5290.6	5945.4	6405.5	6507.9	6420.4	6027.3	5462.9	4783.0	4449.5
15°	4211.0	4565.8	5182.5	5715.3	5973.3	5883.8	5779.5	5603.5	5204.8	4624.5	4277.2
17.5°	4416.8	4808.1	5306.4	5555.1	5511.2	5355.7	5326.0	5345.5	5249.6	4800.7	4400.1
20°	4811.8	5281.1	5601.6	5479.6	5160.1	4945.9	4953.4	5252.3	5536.3	5246.7	4789.4
22.5°	5365.9	5901.5	6027.3	5519.7	5012.0	4757.7	4819.2	5303.6	5993.8	5898.8	5314.7
25°	6083.1	6571.3	6480.9	5665.0	5026.9	4781.0	4830.4	5480.6	6534.0	6550.7	5964.9
27.5°	6778.0	7230.7	6861.8	5857.7	5088.4	4836.1	4901.2	5759.0	7050.0	7258.6	6708.2
30°	7320.2	7634.9	7012.7	6033.9	5209.5	4943.1	5024.2	6023.6	7284.8	7736.4	7280.1
32.5°	7769.1	7995.4	7253.0	6251.9	5432.2	5111.7	5254.2	6344.9	7622.8	8190.9	7839.9
35°	8342.8	8407.1	7552.0	6494.9	5775.8	5405.0	5582.0	6659.7	7945.2	8650.2	8391.2
37.5°	9015.3	8932.4	7834.2	6827.4	6220.1	5864.3	6010.6	7005.2	8210.5	9170.9	8954.8
40°	9680.4	9481.1	8188.2	7343.5	6868.4	6405.5	6578.7	7374.1	8458.3	9692.5	9505.2
42.5°	10245.8	9950.5	8537.5	7910.6	7471.9	7002.5	7209.3	7745.8	8694.9	10137.7	9983.0
45°	10663.9	10296.9	8870.0	8455.6	8303.7	7796.0	7893.9	8171.4	8951.1	10509.3	10376.2
47.5°	11037.5	10645.3	9246.3	9005.0	9031.2	8828.1	8670.7	8667.0	9252.8	10813.0	10747.8
50°	11537.7	11128.7	9650.6	9571.3	10122.8	9987.7	9640.3	9245.4	9634.7	11157.5	11150.1
52.5°	12226.8	11894.4	10144.1	10181.5	11141.8	11230.2	10799.9	9940.2	10232.6	11790.0	11745.4
55°	13041.8	12848.2	10816.6	10882.9	12391.7	12455.1	12027.6	10809.2	11112.0	12705.6	12581.7
57.5°	13678.0	13637.0	11554.3	11724.8	13325.0	13610.1	13217.0	11815.2	12102.9	13476.9	13165.7
60°	13931.4	14129.9	12339.6	12574.3	14188.5	14504.2	14159.6	12699.1	12981.3	13796.3	13125.8
62.5°	13794.5	14237.8	13176.0	13156.5	14381.2	14721.3	14479.0	13190.9	13632.4	13466.6	12461.6
65°	13162.0	13849.4	13661.3	13006.4	13721.9	13749.7	13671.5	12971.1	13786.2	12424.3	11178.1
67.5°	11784.4	12773.6	13022.3	11721.2	11942.8	11761.2	11629.9	11767.7	12985.0	10862.3	9394.4
70°	9598.4	11086.9	11206.0	9374.9	9274.3	9152.2	8890.5	9647.7	11404.5	8902.7	7454.2
72.5°	7057.5	8622.3	8988.3	6875.8	6410.1	6435.3	6228.5	7270.7	9272.4	6613.1	5565.3
75°	4828.5	6243.4	7032.3	4797.8	4238.9	4249.2	4223.1	5151.8	7385.3	4600.4	4164.4
77.5°	3527.3	4460.6	5303.6	3225.6	3131.5	3073.7	3059.7	3604.7	5662.2	3340.0	3234.0
80°	2830.6	3295.4	3562.7	2235.5	2404.0	2399.4	2322.1	2478.5	3697.8	2443.1	2418.9
82.5°	1963.5	2532.5	2886.5	1752.0	1622.5	1595.5	1614.2	1846.1	2613.6	1670.0	1588.1
85°	1035.8	1682.1	2858.5	1552.7	963.1	768.4	955.7	1511.7	2264.3	884.9	774.9
87.5°	132.3	486.2	1892.7	619.4	380.0	204.9	453.7	851.3	1453.9	180.8	157.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	6210.8	6087.0	5924.8	5774.9	5619.3	5464.7	5262.6	5135.9	5048.4	5031.6	4994.3
5°	6059.8	5648.1	5337.1	5067.9	4823.9	4479.3	4288.3	4130.0	4045.3	4036.8	4016.4
7.5°	5364.1	4795.9	4375.9	3994.9	3649.4	3370.8	3063.5	2920.1	2861.4	2875.3	2889.3
10°	4640.3	4005.1	3522.6	3133.3	2828.7	2594.1	2347.2	2180.5	2065.0	2041.7	2037.0
12.5°	4111.3	3414.6	2946.0	2671.4	2435.7	2214.9	1953.2	1756.7	1606.7	1555.6	1521.0
15°	3887.8	3125.9	2635.0	2338.8	2078.9	1798.6	1555.6	1349.7	1211.8	1167.1	1142.0
17.5°	3935.3	3045.8	2420.7	2041.7	1709.2	1416.6	1110.3	934.2	851.3	830.0	830.0
20°	4184.9	3030.9	2243.8	1767.9	1353.4	1014.4	762.8	662.2	635.3	632.4	639.9
22.5°	4535.2	3083.1	2111.6	1530.4	1051.6	740.4	594.3	557.0	544.8	547.7	556.0
25°	5056.7	3259.1	2015.7	1318.9	825.2	606.4	530.0	507.6	502.0	509.4	519.7
27.5°	5675.3	3435.1	1956.0	1159.7	696.7	554.2	503.9	480.6	484.3	493.7	502.9
30°	6218.3	3579.5	1861.9	1046.0	656.6	557.0	503.9	472.2	468.5	470.4	473.2
32.5°	6705.4	3677.3	1752.0	938.0	566.3	494.6	470.4	465.7	445.2	437.8	438.6
35°	7125.5	3677.3	1685.9	874.6	507.6	438.6	399.6	376.3	366.0	367.0	377.3
37.5°	7530.5	3603.7	1653.3	839.2	476.0	417.3	382.9	362.3	348.3	345.6	347.5
40°	7888.3	3496.7	1616.1	824.4	451.8	404.3	371.6	354.9	340.1	335.3	336.3
42.5°	8175.3	3410.0	1575.1	804.8	436.8	395.0	364.2	349.3	332.4	327.9	326.9
45°	8485.3	3381.1	1521.0	765.7	444.2	395.8	362.3	346.5	329.8	324.2	322.4
47.5°	8894.2	3471.5	1465.1	719.0	460.1	400.6	365.2	346.5	328.8	324.2	322.4
50°	9409.3	3683.7	1394.3	651.0	444.2	413.5	364.2	343.7	328.8	324.2	320.4
52.5°	10070.7	3970.7	1301.2	572.8	435.0	445.2	362.3	338.1	324.2	317.6	311.1
55°	10874.5	4205.4	1190.4	508.6	413.5	436.8	359.6	331.6	316.7	307.3	301.8
57.5°	11463.2	4290.2	1047.9	466.6	383.7	422.9	355.8	323.2	307.3	299.9	292.5
60°	11346.7	4126.2	927.7	440.6	366.0	381.9	353.0	315.8	299.1	293.4	287.0
62.5°	10414.4	3697.8	850.4	428.4	354.9	348.3	355.8	308.3	291.5	285.9	284.1
65°	9016.3	3065.4	819.7	425.7	345.6	328.8	330.6	299.9	283.2	278.5	276.7
67.5°	7437.5	2473.8	792.6	435.0	333.5	314.7	305.5	288.8	274.8	270.1	266.4
70°	5865.2	2057.6	780.5	429.4	318.6	300.9	290.6	276.7	264.5	259.8	257.1
72.5°	4723.3	1738.1	774.0	423.8	299.1	282.2	272.9	260.8	247.8	246.0	243.1
75°	3996.8	1366.4	708.8	406.1	276.7	259.8	253.4	242.1	229.1	229.1	227.3
77.5°	3083.1	988.2	589.6	359.6	253.4	234.7	229.1	220.7	205.9	208.6	207.7
80°	2277.4	644.5	461.1	298.1	224.5	206.8	204.0	195.6	179.7	183.4	183.4
82.5°	1560.1	422.9	331.6	244.0	191.9	175.2	175.2	166.7	149.0	150.9	156.5
85°	783.3	290.6	247.8	189.1	149.0	140.6	140.6	134.2	116.5	117.4	124.8
87.5°	238.4	175.2	163.9	135.1	107.1	105.2	100.6	95.9	84.7	83.8	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	4937.5	4884.4	4820.2	4678.6	4631.1	4628.3	4671.2	4626.4	4712.2	4675.8	4715.8
5°	3981.9	3929.7	3858.0	3677.3	3567.5	3492.9	3457.5	3353.1	3428.5	3373.6	3419.3
7.5°	2928.3	2940.5	2893.0	2786.8	2547.5	2427.3	2356.5	2293.2	2348.1	2342.5	2430.2
10°	2058.5	2091.1	2057.6	1950.4	1756.7	1690.6	1703.6	1728.7	1800.5	1837.7	1972.7
12.5°	1481.9	1480.0	1458.6	1362.7	1235.0	1242.5	1295.6	1339.4	1405.5	1444.6	1582.5
15°	1106.6	1089.8	1080.5	1002.2	929.6	945.4	971.6	976.1	1018.1	1041.4	1153.1
17.5°	836.4	844.8	855.1	799.1	744.2	734.0	713.5	688.4	700.5	705.0	761.0
20°	664.1	697.6	722.8	683.6	627.8	597.9	571.9	555.1	555.1	554.2	570.0
22.5°	580.2	604.5	631.5	604.5	554.2	528.2	513.2	500.2	498.3	498.3	513.2
25°	534.6	552.3	578.4	559.7	522.6	502.9	489.1	472.2	465.7	463.8	474.0
27.5°	512.3	519.7	532.7	516.0	484.3	475.1	471.4	456.3	448.1	443.4	453.7
30°	474.0	472.2	473.2	456.3	431.2	430.4	436.8	439.7	436.8	436.0	451.8
32.5°	438.6	435.0	434.1	419.1	395.8	390.3	395.8	401.4	408.0	417.3	436.0
35°	394.0	403.2	408.8	395.8	367.8	351.2	344.6	334.4	328.8	328.8	350.1
37.5°	358.6	380.0	388.4	376.3	345.6	322.4	311.1	309.2	310.2	313.9	334.4
40°	346.5	362.3	369.8	357.8	326.9	305.5	299.1	297.0	299.1	304.7	325.0
42.5°	339.0	350.1	349.3	334.4	309.2	294.4	290.6	288.8	290.6	296.2	318.6
45°	332.4	340.1	332.4	314.7	291.5	284.1	285.0	284.1	285.9	291.5	312.9
47.5°	326.9	329.8	320.4	302.7	278.5	276.7	280.4	283.2	285.0	289.6	312.1
50°	318.6	318.6	310.2	291.5	267.3	268.2	272.9	279.3	280.4	285.9	303.6
52.5°	308.3	307.3	301.8	284.1	258.0	260.8	260.8	268.2	270.1	276.7	295.2
55°	299.9	298.1	295.2	278.5	249.6	254.2	251.6	254.2	259.0	265.5	285.9
57.5°	292.5	288.8	288.8	273.8	243.1	245.0	238.4	242.1	247.8	253.4	274.8
60°	285.0	281.4	283.2	267.3	232.8	231.0	228.3	235.7	237.5	244.0	265.5
62.5°	276.7	273.8	274.8	259.8	225.4	220.7	220.7	227.3	228.3	237.5	258.0
65°	270.1	266.4	265.5	252.4	217.0	211.4	214.2	217.0	218.8	228.3	247.8
67.5°	263.7	256.1	256.1	246.0	207.7	202.1	207.7	206.8	209.6	218.0	233.9
70°	255.2	245.0	246.0	241.3	198.5	191.9	196.5	195.6	197.4	203.0	218.8
72.5°	242.1	233.9	235.7	233.9	189.1	179.7	181.6	181.6	181.6	186.3	203.0
75°	225.4	218.8	224.5	229.1	177.9	164.9	166.7	166.7	163.9	166.7	187.3
77.5°	204.9	201.1	219.8	213.3	164.9	149.0	149.0	147.2	141.6	145.4	167.6
80°	182.6	179.7	203.0	178.8	150.0	129.5	127.7	122.9	117.4	120.1	142.5
82.5°	159.3	156.5	170.5	136.9	129.5	107.1	102.4	94.1	88.5	91.2	111.8
85°	130.3	130.3	131.3	103.4	98.8	82.0	76.4	65.2	58.7	60.5	80.1
87.5°	93.1	95.9	88.5	70.8	58.7	45.7	41.9	35.4	29.8	34.4	41.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5	5724.5
2.5°	4920.7	5023.2	5139.7	5288.7	5416.3	5625.9	5827.1	5948.1
5°	3679.2	3849.6	4061.9	4334.9	4589.1	4971.1	5350.1	5593.2
7.5°	2633.1	2815.7	3044.8	3385.7	3745.3	4232.3	4733.5	5024.2
10°	2178.6	2365.8	2558.7	2788.8	3083.1	3612.9	4205.4	4533.2
12.5°	1802.3	2002.6	2210.4	2452.5	2725.4	3198.6	3881.2	4258.5
15°	1379.4	1603.0	1848.0	2154.4	2496.2	3043.0	3801.1	4211.0
17.5°	945.4	1195.1	1495.9	1874.1	2292.3	2992.7	3944.6	4416.8
20°	651.0	832.7	1154.0	1597.4	2100.4	2986.2	4220.3	4811.8
22.5°	544.8	625.9	860.6	1343.2	1956.0	3066.3	4647.9	5365.9
25°	503.9	552.3	687.4	1122.4	1850.8	3250.7	5236.5	6083.1
27.5°	479.6	523.5	624.1	978.0	1767.9	3464.9	5809.4	6778.0
30°	489.1	533.7	606.4	904.4	1655.2	3643.8	6317.9	7320.2
32.5°	440.6	460.1	519.7	839.2	1574.1	3793.7	6763.1	7769.1
35°	375.5	409.8	463.8	808.5	1575.9	3894.3	7248.4	8342.8
37.5°	357.8	392.1	431.2	797.3	1597.4	4001.4	7805.4	9015.3
40°	346.5	378.1	411.7	790.8	1617.9	4099.2	8351.2	9680.4
42.5°	339.0	367.8	409.8	768.4	1628.2	4186.9	8800.2	10245.8
45°	338.1	367.8	417.3	746.0	1644.1	4280.9	9176.4	10663.9
47.5°	339.0	380.0	403.2	719.0	1644.1	4438.2	9618.0	11037.5
50°	335.3	400.6	388.4	680.9	1605.8	4736.3	10223.4	11537.7
52.5°	333.5	397.7	359.6	622.2	1539.7	5209.5	10999.2	12226.8
55°	328.8	383.7	339.0	534.6	1462.3	5725.5	11830.0	13041.8
57.5°	324.2	340.1	327.9	458.3	1343.2	6088.8	12402.0	13678.0
60°	363.3	297.0	318.6	420.9	1183.9	6188.5	12379.6	13931.4
62.5°	336.3	278.5	306.5	412.7	1072.1	5909.0	11807.7	13794.5
65°	263.7	266.4	294.4	436.8	1042.3	5168.5	10794.4	13162.0
67.5°	241.3	254.2	282.2	467.6	1045.1	4138.3	9279.8	11784.4
70°	227.3	241.3	268.2	483.4	1052.5	3084.9	7336.9	9598.4
72.5°	211.4	223.6	252.4	486.2	1004.1	2241.0	5654.7	7057.5
75°	192.9	204.0	230.1	423.8	831.8	1554.5	4325.6	4828.5
77.5°	171.4	179.7	202.1	326.9	617.6	994.8	3246.9	3527.3
80°	146.2	150.9	169.6	239.4	422.9	622.2	2568.9	2830.6
82.5°	117.4	119.2	131.3	179.7	274.8	399.6	1720.4	1963.5
85°	82.9	82.9	90.3	130.3	187.3	253.4	934.2	1035.8
87.5°	39.2	40.1	40.1	71.7	97.8	128.5	215.1	132.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)