

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: P193081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193081
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-SLR-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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



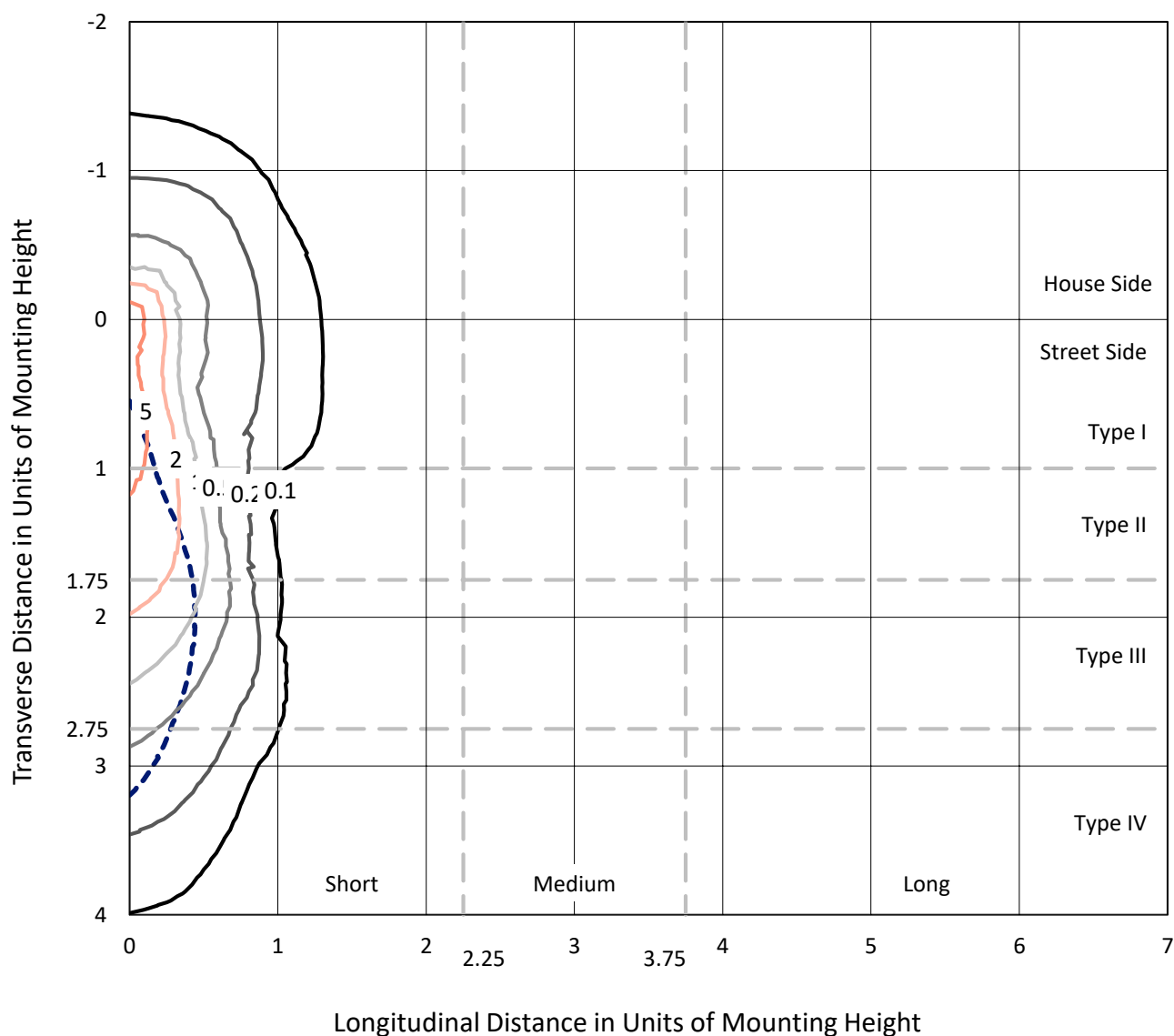
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

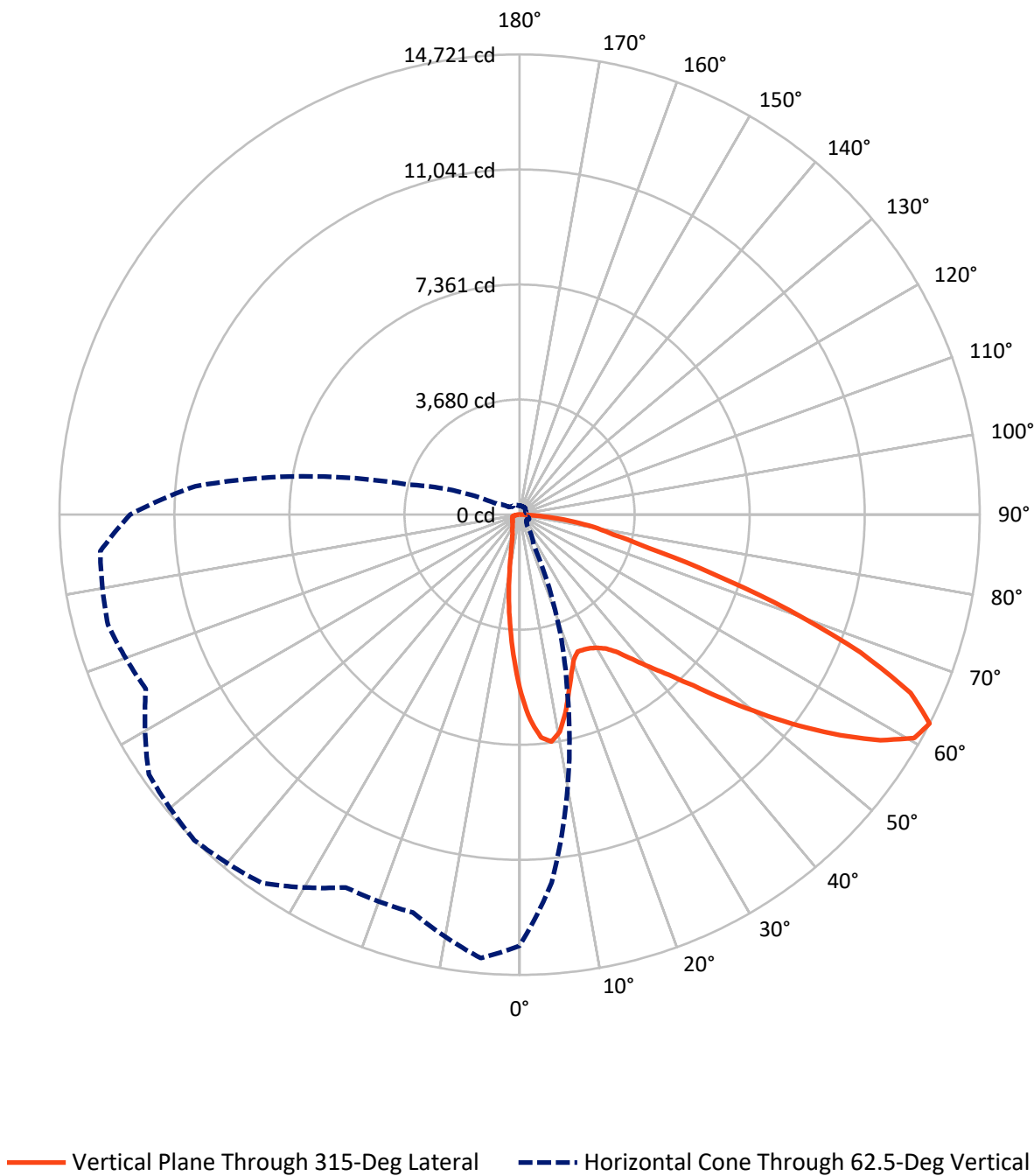


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type IV - Short - Non-Cutoff

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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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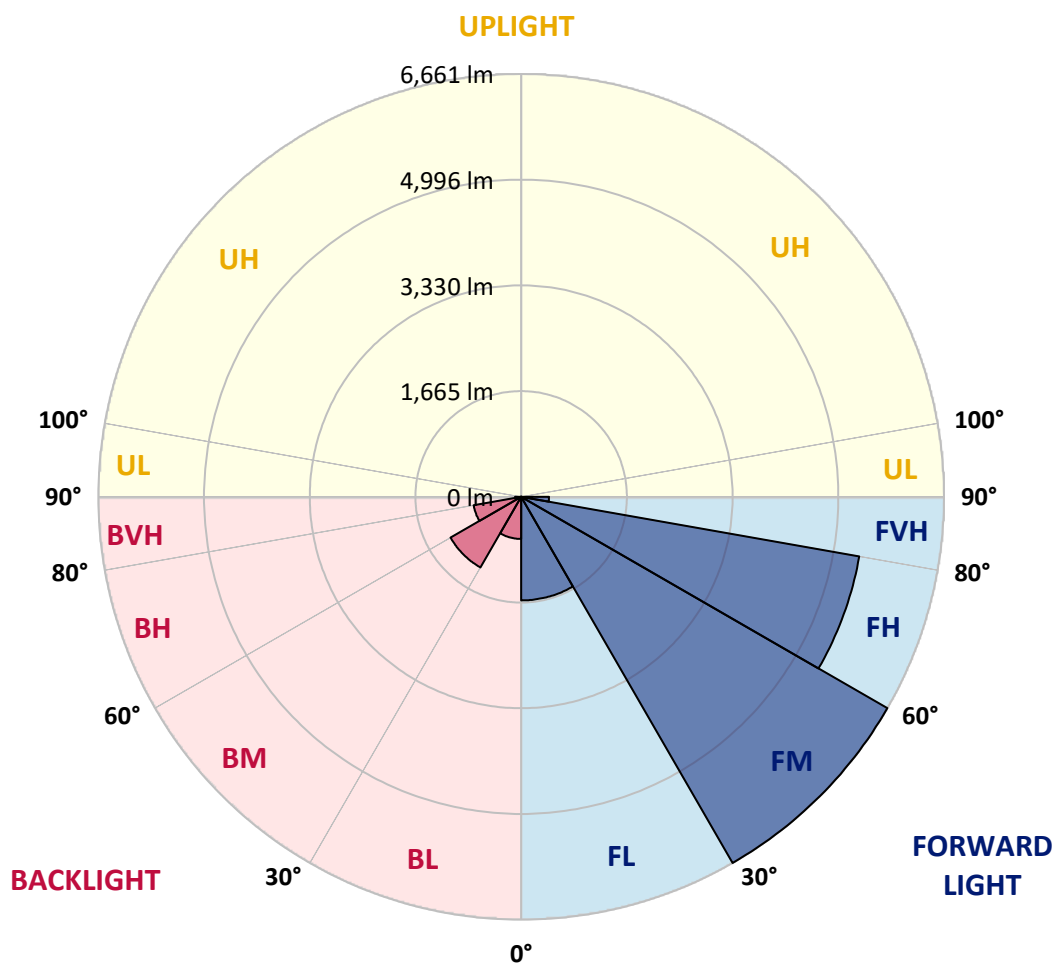
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	5827.1	5625.9	5416.3	5288.7	5139.7	5023.2	4920.7	4715.8	4675.8	4712.2
5°	5593.2	5350.1	4971.1	4589.1	4334.9	4061.9	3849.6	3679.2	3419.3	3373.6	3428.5
7.5°	5024.2	4733.5	4232.3	3745.3	3385.7	3044.8	2815.7	2633.1	2430.2	2342.5	2348.1
10°	4533.2	4205.4	3612.9	3083.1	2788.8	2558.7	2365.8	2178.6	1972.7	1837.7	1800.5
12.5°	4258.5	3881.2	3198.6	2725.4	2452.5	2210.4	2002.6	1802.3	1582.5	1444.6	1405.5
15°	4211.0	3801.1	3043.0	2496.2	2154.4	1848.0	1603.0	1379.4	1153.1	1041.4	1018.1
17.5°	4416.8	3944.6	2992.7	2292.3	1874.1	1495.9	1195.1	945.4	761.0	705.0	700.5
20°	4811.8	4220.3	2986.2	2100.4	1597.4	1154.0	832.7	651.0	570.0	554.2	555.1
22.5°	5365.9	4647.9	3066.3	1956.0	1343.2	860.6	625.9	544.8	513.2	498.3	498.3
25°	6083.1	5236.5	3250.7	1850.8	1122.4	687.4	552.3	503.9	474.0	463.8	465.7
27.5°	6778.0	5809.4	3464.9	1767.9	978.0	624.1	523.5	479.6	453.7	443.4	448.1
30°	7320.2	6317.9	3643.8	1655.2	904.4	606.4	533.7	489.1	451.8	436.0	436.8
32.5°	7769.1	6763.1	3793.7	1574.1	839.2	519.7	460.1	440.6	436.0	417.3	408.0
35°	8342.8	7248.4	3894.3	1575.9	808.5	463.8	409.8	375.5	350.1	328.8	328.8
37.5°	9015.3	7805.4	4001.4	1597.4	797.3	431.2	392.1	357.8	334.4	313.9	310.2
40°	9680.4	8351.2	4099.2	1617.9	790.8	411.7	378.1	346.5	325.0	304.7	299.1
42.5°	10245.8	8800.2	4186.9	1628.2	768.4	409.8	367.8	339.0	318.6	296.2	290.6
45°	10663.9	9176.4	4280.9	1644.1	746.0	417.3	367.8	338.1	312.9	291.5	285.9
47.5°	11037.5	9618.0	4438.2	1644.1	719.0	403.2	380.0	339.0	312.1	289.6	285.0
50°	11537.7	10223.4	4736.3	1605.8	680.9	388.4	400.6	335.3	303.6	285.9	280.4
52.5°	12226.8	10999.2	5209.5	1539.7	622.2	359.6	397.7	333.5	295.2	276.7	270.1
55°	13041.8	11830.0	5725.5	1462.3	534.6	339.0	383.7	328.8	285.9	265.5	259.0
57.5°	13678.0	12402.0	6088.8	1343.2	458.3	327.9	340.1	324.2	274.8	253.4	247.8
60°	13931.4	12379.6	6188.5	1183.9	420.9	318.6	297.0	363.3	265.5	244.0	237.5
62.5°	13794.5	11807.7	5909.0	1072.1	412.7	306.5	278.5	336.3	258.0	237.5	228.3
65°	13162.0	10794.4	5168.5	1042.3	436.8	294.4	266.4	263.7	247.8	228.3	218.8
67.5°	11784.4	9279.8	4138.3	1045.1	467.6	282.2	254.2	241.3	233.9	218.0	209.6
70°	9598.4	7336.9	3084.9	1052.5	483.4	268.2	241.3	227.3	218.8	203.0	197.4
72.5°	7057.5	5654.7	2241.0	1004.1	486.2	252.4	223.6	211.4	203.0	186.3	181.6
75°	4828.5	4325.6	1554.5	831.8	423.8	230.1	204.0	192.9	187.3	166.7	163.9
77.5°	3527.3	3246.9	994.8	617.6	326.9	202.1	179.7	171.4	167.6	145.4	141.6
80°	2830.6	2568.9	622.2	422.9	239.4	169.6	150.9	146.2	142.5	120.1	117.4
82.5°	1963.5	1720.4	399.6	274.8	179.7	131.3	119.2	117.4	111.8	91.2	88.5
85°	1035.8	934.2	253.4	187.3	130.3	90.3	82.9	82.9	80.1	60.5	58.7
87.5°	132.3	215.1	128.5	97.8	71.7	40.1	40.1	39.2	41.9	34.4	29.8
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):

	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°	4626.4	4671.2	4628.3	4631.1	4678.6	4820.2	4884.4	4937.5	4994.3	5031.6	5048.4
5°	3353.1	3457.5	3492.9	3567.5	3677.3	3858.0	3929.7	3981.9	4016.4	4036.8	4045.3
7.5°	2293.2	2356.5	2427.3	2547.5	2786.8	2893.0	2940.5	2928.3	2889.3	2875.3	2861.4
10°	1728.7	1703.6	1690.6	1756.7	1950.4	2057.6	2091.1	2058.5	2037.0	2041.7	2065.0
12.5°	1339.4	1295.6	1242.5	1235.0	1362.7	1458.6	1480.0	1481.9	1521.0	1555.6	1606.7
15°	976.1	971.6	945.4	929.6	1002.2	1080.5	1089.8	1106.6	1142.0	1167.1	1211.8
17.5°	688.4	713.5	734.0	744.2	799.1	855.1	844.8	836.4	830.0	830.0	851.3
20°	555.1	571.9	597.9	627.8	683.6	722.8	697.6	664.1	639.9	632.4	635.3
22.5°	500.2	513.2	528.2	554.2	604.5	631.5	604.5	580.2	556.0	547.7	544.8
25°	472.2	489.1	502.9	522.6	559.7	578.4	552.3	534.6	519.7	509.4	502.0
27.5°	456.3	471.4	475.1	484.3	516.0	532.7	519.7	512.3	502.9	493.7	484.3
30°	439.7	436.8	430.4	431.2	456.3	473.2	472.2	474.0	473.2	470.4	468.5
32.5°	401.4	395.8	390.3	395.8	419.1	434.1	435.0	438.6	438.6	437.8	445.2
35°	334.4	344.6	351.2	367.8	395.8	408.8	403.2	394.0	377.3	367.0	366.0
37.5°	309.2	311.1	322.4	345.6	376.3	388.4	380.0	358.6	347.5	345.6	348.3
40°	297.0	299.1	305.5	326.9	357.8	369.8	362.3	346.5	336.3	335.3	340.1
42.5°	288.8	290.6	294.4	309.2	334.4	349.3	350.1	339.0	326.9	327.9	332.4
45°	284.1	285.0	284.1	291.5	314.7	332.4	340.1	332.4	322.4	324.2	329.8
47.5°	283.2	280.4	276.7	278.5	302.7	320.4	329.8	326.9	322.4	324.2	328.8
50°	279.3	272.9	268.2	267.3	291.5	310.2	318.6	318.6	320.4	324.2	328.8
52.5°	268.2	260.8	260.8	258.0	284.1	301.8	307.3	308.3	311.1	317.6	324.2
55°	254.2	251.6	254.2	249.6	278.5	295.2	298.1	299.9	301.8	307.3	316.7
57.5°	242.1	238.4	245.0	243.1	273.8	288.8	288.8	292.5	292.5	299.9	307.3
60°	235.7	228.3	231.0	232.8	267.3	283.2	281.4	285.0	287.0	293.4	299.1
62.5°	227.3	220.7	220.7	225.4	259.8	274.8	273.8	276.7	284.1	285.9	291.5
65°	217.0	214.2	211.4	217.0	252.4	265.5	266.4	270.1	276.7	278.5	283.2
67.5°	206.8	207.7	202.1	207.7	246.0	256.1	256.1	263.7	266.4	270.1	274.8
70°	195.6	196.5	191.9	198.5	241.3	246.0	245.0	255.2	257.1	259.8	264.5
72.5°	181.6	181.6	179.7	189.1	233.9	235.7	233.9	242.1	243.1	246.0	247.8
75°	166.7	166.7	164.9	177.9	229.1	224.5	218.8	225.4	227.3	229.1	229.1
77.5°	147.2	149.0	149.0	164.9	213.3	219.8	201.1	204.9	207.7	208.6	205.9
80°	122.9	127.7	129.5	150.0	178.8	203.0	179.7	182.6	183.4	183.4	179.7
82.5°	94.1	102.4	107.1	129.5	136.9	170.5	156.5	159.3	156.5	150.9	149.0
85°	65.2	76.4	82.0	98.8	103.4	131.3	130.3	130.3	124.8	117.4	116.5
87.5°	35.4	41.9	45.7	58.7	70.8	88.5	95.9	93.1	88.5	83.8	84.7
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°	5135.9	5262.6	5464.7	5619.3	5774.9	5924.8	6087.0	6210.8	6316.1	6357.0	6481.8
5°	4130.0	4288.3	4479.3	4823.9	5067.9	5337.1	5648.1	6059.8	6218.3	6437.1	6795.7
7.5°	2920.1	3063.5	3370.8	3649.4	3994.9	4375.9	4795.9	5364.1	5571.7	5923.0	6506.9
10°	2180.5	2347.2	2594.1	2828.7	3133.3	3522.6	4005.1	4640.3	4892.8	5273.7	5946.2
12.5°	1756.7	1953.2	2214.9	2435.7	2671.4	2946.0	3414.6	4111.3	4449.5	4783.0	5462.9
15°	1349.7	1555.6	1798.6	2078.9	2338.8	2635.0	3125.9	3887.8	4277.2	4624.5	5204.8
17.5°	934.2	1110.3	1416.6	1709.2	2041.7	2420.7	3045.8	3935.3	4400.1	4800.7	5249.6
20°	662.2	762.8	1014.4	1353.4	1767.9	2243.8	3030.9	4184.9	4789.4	5246.7	5536.3
22.5°	557.0	594.3	740.4	1051.6	1530.4	2111.6	3083.1	4535.2	5314.7	5898.8	5993.8
25°	507.6	530.0	606.4	825.2	1318.9	2015.7	3259.1	5056.7	5964.9	6550.7	6534.0
27.5°	480.6	503.9	554.2	696.7	1159.7	1956.0	3435.1	5675.3	6708.2	7258.6	7050.0
30°	472.2	503.9	557.0	656.6	1046.0	1861.9	3579.5	6218.3	7280.1	7736.4	7284.8
32.5°	465.7	470.4	494.6	566.3	938.0	1752.0	3677.3	6705.4	7839.9	8190.9	7622.8
35°	376.3	399.6	438.6	507.6	874.6	1685.9	3677.3	7125.5	8391.2	8650.2	7945.2
37.5°	362.3	382.9	417.3	476.0	839.2	1653.3	3603.7	7530.5	8954.8	9170.9	8210.5
40°	354.9	371.6	404.3	451.8	824.4	1616.1	3496.7	7888.3	9505.2	9692.5	8458.3
42.5°	349.3	364.2	395.0	436.8	804.8	1575.1	3410.0	8175.3	9983.0	10137.7	8694.9
45°	346.5	362.3	395.8	444.2	765.7	1521.0	3381.1	8485.3	10376.2	10509.3	8951.1
47.5°	346.5	365.2	400.6	460.1	719.0	1465.1	3471.5	8894.2	10747.8	10813.0	9252.8
50°	343.7	364.2	413.5	444.2	651.0	1394.3	3683.7	9409.3	11150.1	11157.5	9634.7
52.5°	338.1	362.3	445.2	435.0	572.8	1301.2	3970.7	10070.7	11745.4	11790.0	10232.6
55°	331.6	359.6	436.8	413.5	508.6	1190.4	4205.4	10874.5	12581.7	12705.6	11112.0
57.5°	323.2	355.8	422.9	383.7	466.6	1047.9	4290.2	11463.2	13165.7	13476.9	12102.9
60°	315.8	353.0	381.9	366.0	440.6	927.7	4126.2	11346.7	13125.8	13796.3	12981.3
62.5°	308.3	355.8	348.3	354.9	428.4	850.4	3697.8	10414.4	12461.6	13466.6	13632.4
65°	299.9	330.6	328.8	345.6	425.7	819.7	3065.4	9016.3	11178.1	12424.3	13786.2
67.5°	288.8	305.5	314.7	333.5	435.0	792.6	2473.8	7437.5	9394.4	10862.3	12985.0
70°	276.7	290.6	300.9	318.6	429.4	780.5	2057.6	5865.2	7454.2	8902.7	11404.5
72.5°	260.8	272.9	282.2	299.1	423.8	774.0	1738.1	4723.3	5565.3	6613.1	9272.4
75°	242.1	253.4	259.8	276.7	406.1	708.8	1366.4	3996.8	4164.4	4600.4	7385.3
77.5°	220.7	229.1	234.7	253.4	359.6	589.6	988.2	3083.1	3234.0	3340.0	5662.2
80°	195.6	204.0	206.8	224.5	298.1	461.1	644.5	2277.4	2418.9	2443.1	3697.8
82.5°	166.7	175.2	175.2	191.9	244.0	331.6	422.9	1560.1	1588.1	1670.0	2613.6
85°	134.2	140.6	140.6	149.0	189.1	247.8	290.6	783.3	774.9	884.9	2264.3
87.5°	95.9	100.6	105.2	107.1	135.1	163.9	175.2	238.4	157.5	180.8	1453.9
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°	6575.9	6629.0	6575.0	6535.9	6367.3	6228.5	6043.1	5948.1
5°	7068.6	7203.7	7158.0	6994.1	6642.0	6246.2	5796.3	5593.2
7.5°	7009.0	7322.9	7330.3	7023.9	6505.1	5922.1	5312.8	5024.2
10°	6545.1	6946.6	7061.2	6764.0	6213.6	5561.7	4863.0	4533.2
12.5°	6027.3	6420.4	6507.9	6405.5	5945.4	5290.6	4581.7	4258.5
15°	5603.5	5779.5	5883.8	5973.3	5715.3	5182.5	4565.8	4211.0
17.5°	5345.5	5326.0	5355.7	5511.2	5555.1	5306.4	4808.1	4416.8
20°	5252.3	4953.4	4945.9	5160.1	5479.6	5601.6	5281.1	4811.8
22.5°	5303.6	4819.2	4757.7	5012.0	5519.7	6027.3	5901.5	5365.9
25°	5480.6	4830.4	4781.0	5026.9	5665.0	6480.9	6571.3	6083.1
27.5°	5759.0	4901.2	4836.1	5088.4	5857.7	6861.8	7230.7	6778.0
30°	6023.6	5024.2	4943.1	5209.5	6033.9	7012.7	7634.9	7320.2
32.5°	6344.9	5254.2	5111.7	5432.2	6251.9	7253.0	7995.4	7769.1
35°	6659.7	5582.0	5405.0	5775.8	6494.9	7552.0	8407.1	8342.8
37.5°	7005.2	6010.6	5864.3	6220.1	6827.4	7834.2	8932.4	9015.3
40°	7374.1	6578.7	6405.5	6868.4	7343.5	8188.2	9481.1	9680.4
42.5°	7745.8	7209.3	7002.5	7471.9	7910.6	8537.5	9950.5	10245.8
45°	8171.4	7893.9	7796.0	8303.7	8455.6	8870.0	10296.9	10663.9
47.5°	8667.0	8670.7	8828.1	9031.2	9005.0	9246.3	10645.3	11037.5
50°	9245.4	9640.3	9987.7	10122.8	9571.3	9650.6	11128.7	11537.7
52.5°	9940.2	10799.9	11230.2	11141.8	10181.5	10144.1	11894.4	12226.8
55°	10809.2	12027.6	12455.1	12391.7	10882.9	10816.6	12848.2	13041.8
57.5°	11815.2	13217.0	13610.1	13325.0	11724.8	11554.3	13637.0	13678.0
60°	12699.1	14159.6	14504.2	14188.5	12574.3	12339.6	14129.9	13931.4
62.5°	13190.9	14479.0	14721.3	14381.2	13156.5	13176.0	14237.8	13794.5
65°	12971.1	13671.5	13749.7	13721.9	13006.4	13661.3	13849.4	13162.0
67.5°	11767.7	11629.9	11761.2	11942.8	11721.2	13022.3	12773.6	11784.4
70°	9647.7	8890.5	9152.2	9274.3	9374.9	11206.0	11086.9	9598.4
72.5°	7270.7	6228.5	6435.3	6410.1	6875.8	8988.3	8622.3	7057.5
75°	5151.8	4223.1	4249.2	4238.9	4797.8	7032.3	6243.4	4828.5
77.5°	3604.7	3059.7	3073.7	3131.5	3225.6	5303.6	4460.6	3527.3
80°	2478.5	2322.1	2399.4	2404.0	2235.5	3562.7	3295.4	2830.6
82.5°	1846.1	1614.2	1595.5	1622.5	1752.0	2886.5	2532.5	1963.5
85°	1511.7	955.7	768.4	963.1	1552.7	2858.5	1682.1	1035.8
87.5°	851.3	453.7	204.9	380.0	619.4	1892.7	486.2	132.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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