

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: P193072

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193072
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-04-LED-E1-SLR-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 20408.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

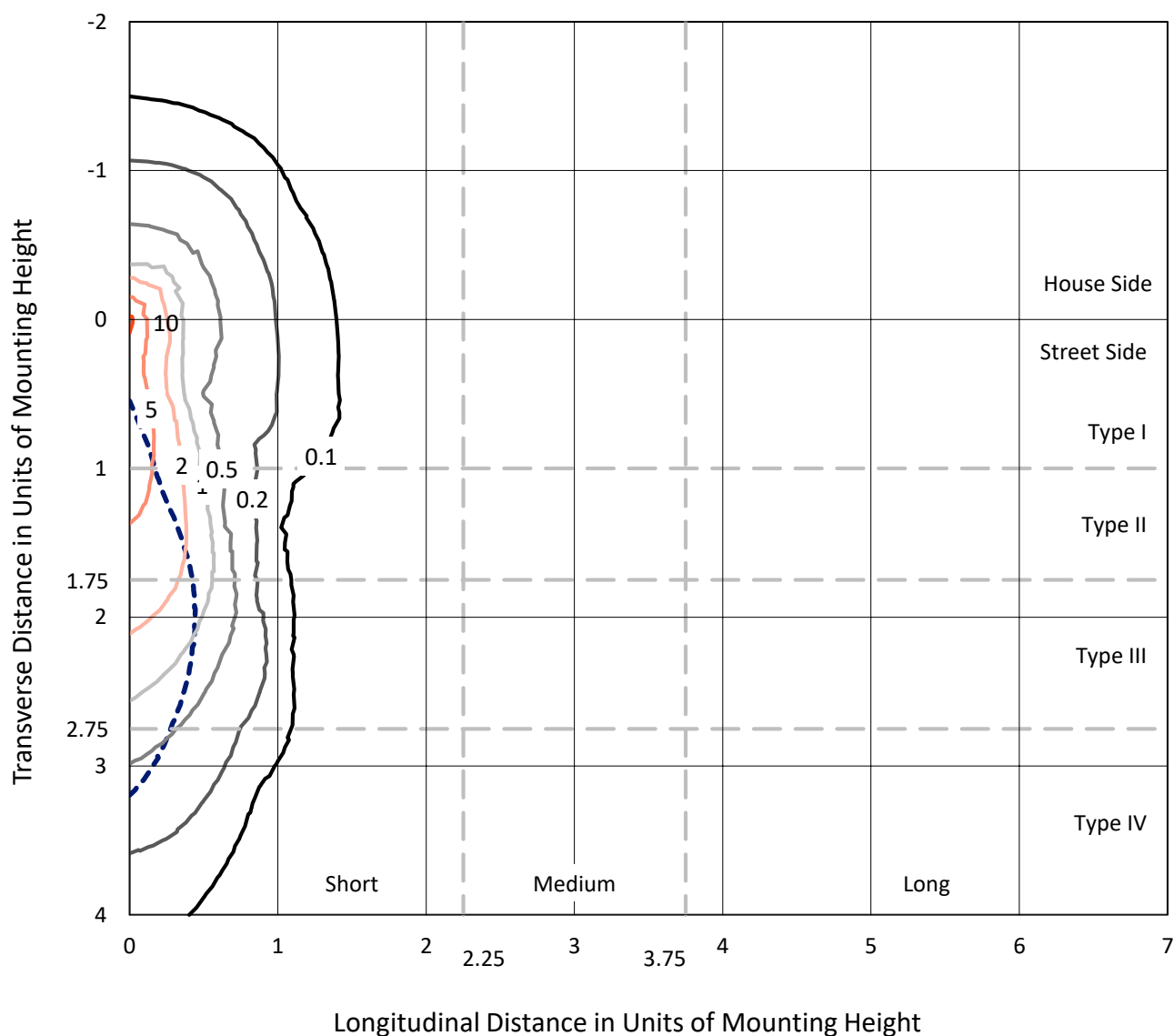


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

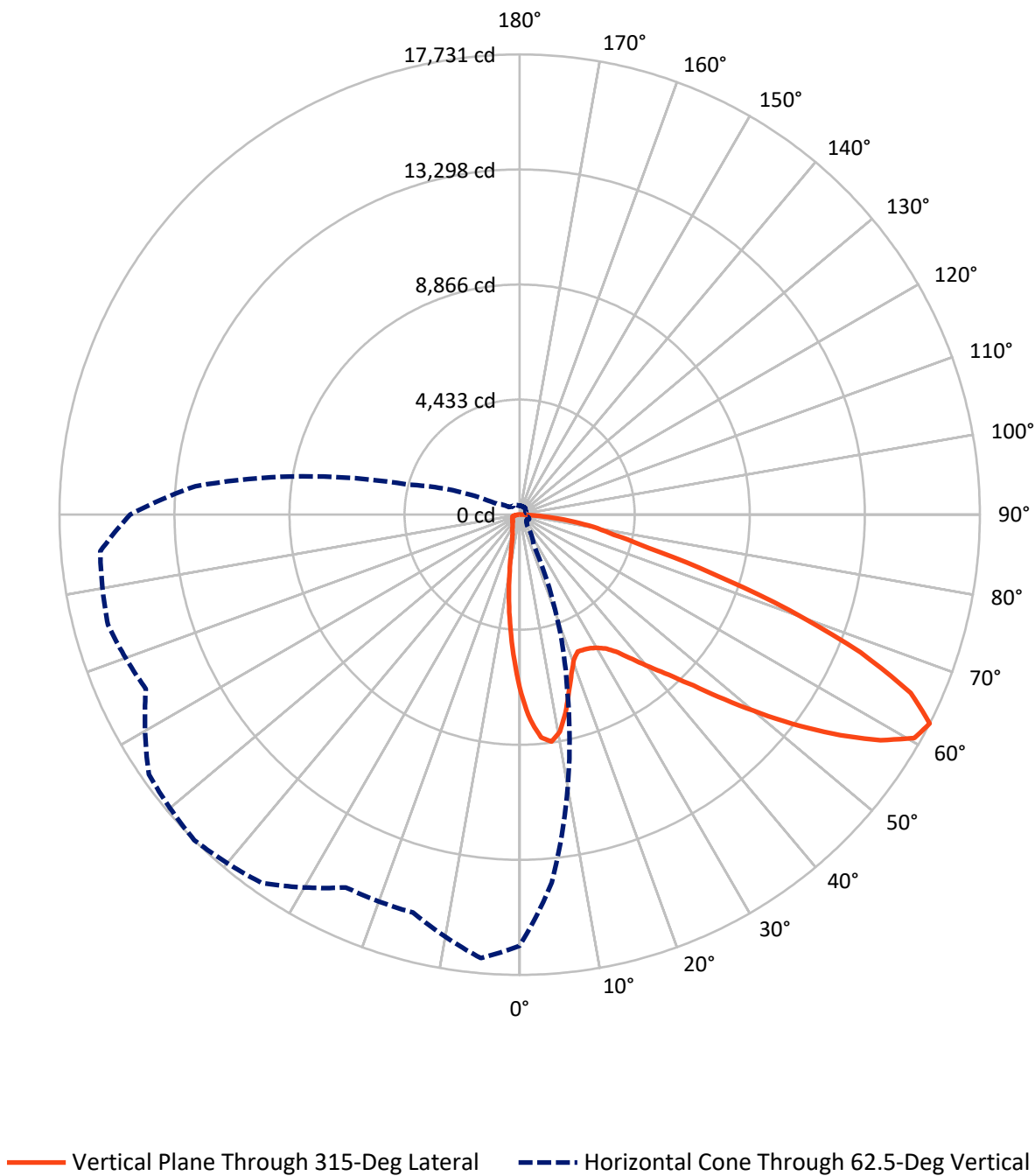


Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3377.3	0.0	3377.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17031.2	0.0	17031.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	20408.5	0.0	20408.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	2.5
10°-20°	920.4	4.5
20°-30°	1342.0	6.6
30°-40°	2066.8	10.1
40°-50°	3041.8	14.9
50°-60°	4461.7	21.9
60°-70°	4987.5	24.4
70°-80°	2441.8	12.0
80°-90°	644.7	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°	20408.5	100.0
0°-180°	20408.5	100.0

Coefficient of Utilization



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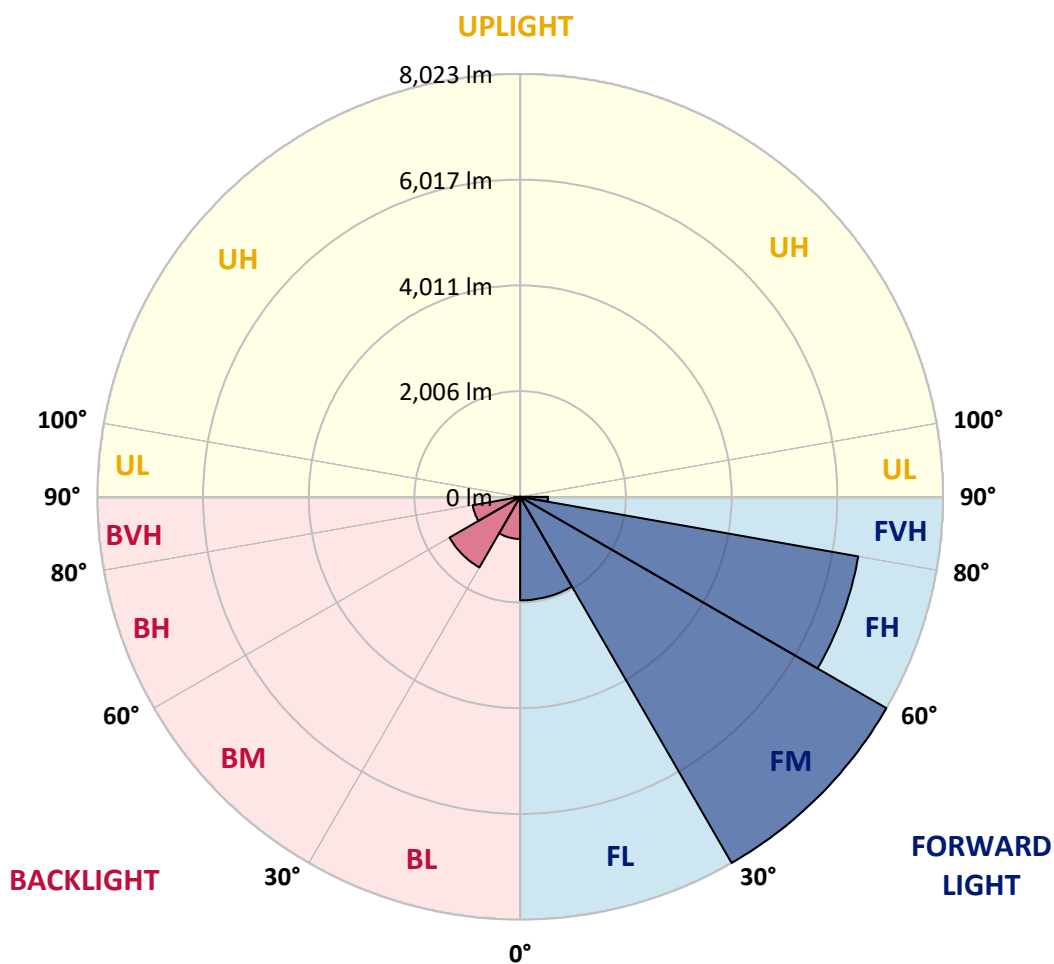
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.3	9.6			
FM	(30°-60°)	8022.8	39.3			
FH	(60°-80°)	6513.7	31.9			G3/7500
FVH	(80°-90°)	529.5	2.6			G4/750
BL	(0°-30°)	799.0	3.9	B2/1000		
BM	(30°-60°)	1547.5	7.6	B2/2500		
BH	(60°-80°)	915.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	115.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7164.3	7018.5	6776.2	6523.8	6370.1	6190.5	6050.3	5926.9	5680.1	5631.9	5675.6
5°	6736.9	6444.1	5987.5	5527.5	5221.3	4892.5	4636.8	4431.4	4118.4	4063.5	4129.7
7.5°	6051.5	5701.3	5097.8	4511.1	4078.1	3667.4	3391.4	3171.6	2926.9	2821.5	2828.2
10°	5460.2	5065.3	4351.8	3713.4	3358.9	3081.7	2849.6	2624.1	2376.2	2213.5	2168.6
12.5°	5129.2	4674.8	3852.6	3282.5	2954.0	2662.2	2412.0	2170.9	1906.0	1740.1	1693.0
15°	5072.1	4578.4	3665.2	3006.6	2594.9	2225.8	1930.7	1661.5	1388.9	1254.3	1226.2
17.5°	5320.0	4751.1	3604.6	2761.0	2257.2	1801.8	1439.4	1138.7	916.5	849.3	843.7
20°	5795.6	5083.3	3596.9	2529.9	1924.0	1390.0	1003.0	784.2	686.5	667.6	668.6
22.5°	6463.2	5598.2	3693.3	2355.9	1617.8	1036.7	753.9	656.3	618.2	600.2	600.2
25°	7327.0	6307.2	3915.5	2229.2	1351.9	827.9	665.3	606.9	571.0	558.8	560.9
27.5°	8164.0	6997.2	4173.3	2129.4	1178.1	751.7	630.5	577.8	546.4	534.1	539.6
30°	8816.9	7609.8	4388.8	1993.6	1089.4	730.4	642.9	589.0	544.1	525.0	526.2
32.5°	9357.6	8146.1	4569.4	1895.9	1010.8	626.0	554.2	530.7	525.0	502.6	491.3
35°	10048.7	8730.5	4690.6	1898.3	973.8	558.8	493.7	452.2	421.8	396.1	396.1
37.5°	10858.7	9401.4	4819.7	1924.0	960.3	519.4	472.3	430.8	402.7	378.0	373.5
40°	11659.7	10058.9	4937.4	1948.7	952.5	495.8	455.5	417.4	391.5	366.9	360.1
42.5°	12340.8	10599.6	5042.9	1961.1	925.5	493.7	443.1	408.4	383.7	356.7	350.0
45°	12844.4	11052.7	5156.2	1980.1	898.6	502.6	443.1	407.2	377.0	351.2	344.3
47.5°	13294.3	11584.5	5345.7	1980.1	866.1	485.7	457.7	408.4	375.9	348.9	343.3
50°	13896.8	12313.8	5704.8	1934.1	820.1	467.8	482.4	403.9	365.7	344.3	337.7
52.5°	14726.9	13248.3	6274.6	1854.4	749.4	433.0	479.0	401.6	355.6	333.2	325.4
55°	15708.6	14249.0	6896.2	1761.4	644.0	408.4	462.1	396.1	344.3	319.7	311.9
57.5°	16474.8	14937.9	7333.8	1617.8	552.0	394.9	409.5	390.4	330.9	305.2	298.4
60°	16780.0	14910.9	7453.7	1426.0	507.1	383.7	358.0	437.6	319.7	293.9	286.0
62.5°	16615.2	14222.2	7117.2	1291.3	497.0	369.1	335.4	405.1	310.8	286.0	274.9
65°	15853.3	13001.6	6225.4	1255.4	526.2	354.5	320.9	317.5	298.4	274.9	263.7
67.5°	14194.1	11177.3	4984.5	1258.7	563.2	339.9	306.3	290.5	281.6	262.6	252.4
70°	11561.0	8837.1	3715.7	1267.7	582.3	323.1	290.5	273.7	263.7	244.5	237.8
72.5°	8500.5	6811.0	2699.2	1209.4	585.6	304.1	269.3	254.7	244.5	224.4	218.7
75°	5815.9	5210.0	1872.3	1001.8	510.5	277.1	245.8	232.1	225.5	200.8	197.4
77.5°	4248.5	3910.9	1198.1	743.8	393.8	243.4	216.6	206.4	201.9	175.1	170.6
80°	3409.4	3094.1	749.4	509.3	288.3	204.2	181.7	176.1	171.6	144.8	141.4
82.5°	2364.9	2072.1	481.3	330.9	216.6	158.2	143.5	141.4	134.6	110.0	106.5
85°	1247.5	1125.3	305.2	225.5	157.2	108.8	99.9	99.9	96.4	72.8	70.7
87.5°	159.3	259.2	154.8	117.8	86.5	48.3	48.3	47.1	50.5	41.5	35.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	5572.4	5626.3	5574.6	5578.0	5635.3	5805.7	5883.2	5947.1	6015.6	6060.4	6080.6
5°	4038.8	4164.4	4207.0	4296.8	4429.2	4646.8	4733.2	4796.1	4837.6	4862.2	4872.3
7.5°	2762.1	2838.3	2923.7	3068.3	3356.7	3484.6	3541.7	3527.2	3480.1	3463.3	3446.5
10°	2082.3	2051.9	2036.3	2116.0	2349.2	2478.2	2518.7	2479.3	2453.5	2459.2	2487.2
12.5°	1613.3	1560.5	1496.7	1487.6	1641.3	1756.9	1782.7	1785.0	1832.1	1873.6	1935.2
15°	1175.7	1170.1	1138.7	1119.7	1207.1	1301.4	1312.6	1332.8	1375.5	1405.7	1459.6
17.5°	829.1	859.4	884.0	896.4	962.6	1029.9	1017.5	1007.5	999.6	999.6	1025.4
20°	668.6	688.9	720.2	756.2	823.5	870.6	840.3	799.9	770.8	761.7	765.2
22.5°	602.4	618.2	636.1	667.6	728.1	760.7	728.1	698.9	669.8	659.7	656.3
25°	568.8	589.0	605.9	629.4	674.2	696.6	665.3	644.0	626.0	613.7	604.8
27.5°	549.7	567.7	572.2	583.3	621.5	641.7	626.0	617.0	605.9	594.6	583.3
30°	529.6	526.2	518.3	519.4	549.7	569.9	568.8	571.0	569.9	566.5	564.4
32.5°	483.6	476.8	470.1	476.8	504.9	522.8	523.9	528.4	528.4	527.2	536.3
35°	402.7	415.0	423.0	443.1	476.8	492.5	485.7	474.5	454.4	442.1	440.9
37.5°	372.5	374.8	388.2	416.2	453.2	467.8	457.7	431.9	418.5	416.2	419.5
40°	358.0	360.1	367.9	393.8	430.8	445.3	436.4	417.4	405.1	403.9	409.5
42.5°	347.8	350.0	354.5	372.5	402.7	420.7	421.8	408.4	393.8	394.9	400.6
45°	342.2	343.3	342.2	351.2	379.2	400.6	409.5	400.6	388.2	390.4	397.1
47.5°	341.1	337.7	333.2	335.4	364.6	385.9	397.1	393.8	388.2	390.4	396.1
50°	336.5	328.8	323.1	322.0	351.2	373.5	383.7	383.7	385.9	390.4	396.1
52.5°	323.1	314.1	314.1	310.8	342.2	363.5	370.2	371.4	374.8	382.5	390.4
55°	306.3	302.8	306.3	300.7	335.4	355.6	359.0	361.2	363.5	370.2	381.5
57.5°	291.7	287.3	295.1	292.9	329.9	347.8	347.8	352.3	352.3	361.2	370.2
60°	283.8	274.9	278.2	280.5	322.0	341.1	338.8	343.3	345.6	353.4	360.1
62.5°	273.7	265.9	265.9	271.5	313.0	330.9	329.9	333.2	342.2	344.3	351.2
65°	261.3	258.1	254.7	261.3	304.1	319.7	320.9	325.4	333.2	335.4	341.1
67.5°	249.1	250.2	243.4	250.2	296.2	308.5	308.5	317.5	320.9	325.4	330.9
70°	235.6	236.8	231.1	239.0	290.5	296.2	295.1	307.3	309.6	313.0	318.6
72.5°	218.7	218.7	216.6	227.7	281.6	283.8	281.6	291.7	292.9	296.2	298.4
75°	200.8	200.8	198.6	214.2	276.0	270.4	263.7	271.5	273.7	276.0	276.0
77.5°	177.2	179.5	179.5	198.6	256.9	264.7	242.3	246.8	250.2	251.3	247.9
80°	148.0	153.7	155.9	180.6	215.3	244.5	216.6	219.9	221.0	221.0	216.6
82.5°	113.3	123.4	129.0	155.9	164.9	205.3	188.5	191.9	188.5	181.7	179.5
85°	78.5	92.0	98.8	118.9	124.5	158.2	157.2	157.2	150.3	141.4	140.3
87.5°	42.6	50.5	54.9	70.7	85.2	106.5	115.6	112.2	106.5	100.9	102.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	6186.0	6338.6	6582.1	6768.3	6955.7	7136.3	7331.6	7480.8	7607.5	7656.9	7807.2
5°	4974.5	5165.1	5395.1	5810.2	6104.2	6428.4	6803.1	7298.9	7489.7	7753.4	8185.2
7.5°	3517.0	3689.9	4060.1	4395.5	4811.8	5270.6	5776.5	6460.9	6711.1	7134.1	7837.5
10°	2626.4	2827.2	3124.5	3407.1	3774.1	4243.0	4824.2	5589.2	5893.2	6352.2	7162.2
12.5°	2116.0	2352.6	2667.9	2933.7	3217.5	3548.5	4112.8	4951.9	5359.2	5760.9	6579.8
15°	1625.6	1873.6	2166.4	2504.0	2817.0	3173.8	3765.1	4682.8	5151.7	5570.1	6269.1
17.5°	1125.3	1337.4	1706.4	2058.7	2459.2	2915.8	3668.6	4740.0	5299.7	5782.2	6323.0
20°	797.7	918.9	1221.7	1630.1	2129.4	2702.6	3650.6	5040.6	5768.8	6319.5	6668.5
22.5°	670.9	715.7	891.9	1266.7	1843.2	2543.3	3713.4	5462.4	6401.5	7104.9	7219.3
25°	611.5	638.4	730.4	994.0	1588.6	2427.7	3925.4	6090.6	7184.6	7890.2	7870.1
27.5°	578.8	606.9	667.6	839.2	1396.8	2355.9	4137.5	6835.7	8079.8	8742.8	8491.5
30°	568.8	606.9	670.9	790.9	1259.9	2242.6	4311.4	7489.7	8768.6	9318.4	8774.3
32.5°	560.9	566.5	595.7	682.1	1129.7	2110.3	4429.2	8076.5	9442.9	9865.9	9181.5
35°	453.2	481.3	528.4	611.5	1053.5	2030.6	4429.2	8582.5	10107.0	10419.0	9569.7
37.5°	436.4	461.1	502.6	573.3	1010.8	1991.4	4340.6	9070.4	10785.7	11046.1	9889.4
40°	427.4	447.6	486.9	544.1	992.8	1946.5	4211.5	9501.3	11448.8	11674.4	10187.9
42.5°	420.7	438.6	475.8	526.2	969.3	1897.1	4107.3	9846.8	12024.3	12210.6	10472.8
45°	417.4	436.4	476.8	535.2	922.1	1832.1	4072.4	10220.3	12497.8	12658.2	10781.2
47.5°	417.4	439.8	482.4	554.2	866.1	1764.7	4181.3	10712.9	12945.5	13023.9	11144.8
50°	414.0	438.6	498.1	535.2	784.2	1679.5	4437.0	11333.3	13430.0	13439.1	11604.8
52.5°	407.2	436.4	536.3	523.9	690.0	1567.4	4782.6	12129.9	14147.0	14200.9	12325.0
55°	399.4	433.0	526.2	498.1	612.5	1433.8	5065.3	13098.0	15154.4	15303.6	13384.0
57.5°	389.3	428.6	509.3	462.1	562.0	1262.2	5167.4	13807.0	15857.9	16232.5	14577.8
60°	380.3	425.2	460.0	440.9	530.7	1117.4	4969.9	13666.8	15809.6	16617.4	15635.6
62.5°	371.4	428.6	419.5	427.4	516.0	1024.3	4453.9	12543.8	15009.7	16220.2	16419.9
65°	361.2	398.2	396.1	416.2	512.8	987.2	3692.1	10859.9	13463.7	14964.8	16605.0
67.5°	347.8	367.9	379.2	401.6	523.9	954.7	2979.7	8958.2	11315.3	13083.5	15640.3
70°	333.2	350.0	362.4	383.7	517.3	940.1	2478.2	7064.4	8978.5	10722.9	13736.4
72.5°	314.1	328.8	339.9	360.1	510.5	932.3	2093.4	5689.1	6703.3	7965.3	11168.4
75°	291.7	305.2	313.0	333.2	489.2	853.8	1645.8	4814.0	5016.0	5541.0	8895.5
77.5°	265.9	276.0	282.8	305.2	433.0	710.1	1190.3	3713.4	3895.2	4023.0	6820.0
80°	235.6	245.8	249.1	270.4	359.0	555.4	776.4	2743.0	2913.5	2942.7	4453.9
82.5°	200.8	210.9	210.9	231.1	293.9	399.4	509.3	1879.2	1912.8	2011.6	3148.0
85°	161.6	169.4	169.4	179.5	227.7	298.4	350.0	943.5	933.4	1065.9	2727.3
87.5°	115.6	121.2	126.7	129.0	162.7	197.4	210.9	287.3	189.6	217.7	1751.2
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°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7920.5	7984.4	7919.3	7872.2	7669.2	7502.1	7278.8	7164.3
5°	8514.0	8676.6	8621.6	8424.2	8000.2	7523.4	6981.4	6736.9
7.5°	8442.1	8820.3	8829.2	8460.2	7835.2	7133.0	6399.2	6051.5
10°	7883.5	8367.0	8505.0	8147.1	7484.0	6698.8	5857.4	5460.2
12.5°	7259.7	7733.2	7838.6	7715.3	7161.0	6372.3	5518.5	5129.2
15°	6749.3	6961.4	7087.0	7194.6	6883.9	6242.2	5499.4	5072.1
17.5°	6438.5	6414.9	6450.8	6638.1	6690.9	6391.3	5791.2	5320.0
20°	6326.3	5966.2	5957.3	6215.2	6600.1	6747.0	6361.1	5795.6
22.5°	6388.1	5804.6	5730.5	6036.9	6648.3	7259.7	7108.3	6463.2
25°	6601.1	5818.0	5758.6	6054.8	6823.4	7806.0	7914.8	7327.0
27.5°	6936.7	5903.4	5824.8	6128.9	7055.5	8264.9	8709.2	8164.0
30°	7255.3	6051.5	5953.9	6274.6	7267.6	8446.8	9196.2	8816.9
32.5°	7642.2	6328.6	6156.9	6542.9	7530.0	8736.2	9630.2	9357.6
35°	8021.5	6723.5	6510.3	6956.7	7822.9	9096.3	10126.1	10048.7
37.5°	8437.6	7239.5	7063.4	7491.9	8223.4	9436.1	10758.9	10858.7
40°	8882.0	7923.9	7715.3	8272.8	8845.0	9862.5	11419.7	11659.7
42.5°	9329.5	8683.4	8434.4	8999.8	9528.2	10283.2	11985.0	12340.8
45°	9842.3	9508.0	9390.2	10001.6	10184.5	10683.7	12402.4	12844.4
47.5°	10439.1	10443.6	10633.2	10877.8	10846.3	11136.9	12822.0	13294.3
50°	11135.8	11611.5	12030.0	12192.7	11528.5	11623.9	13404.3	13896.8
52.5°	11972.7	13008.3	13526.6	13420.0	12263.4	12218.5	14326.5	14726.9
55°	13019.5	14486.9	15001.9	14925.6	13108.1	13028.4	15475.3	15708.6
57.5°	14231.1	15919.5	16392.9	16049.6	14122.3	13917.0	16425.5	16474.8
60°	15295.7	17055.0	17470.0	17089.7	15145.4	14862.7	17019.0	16780.0
62.5°	15888.2	17439.8	17731.3	17321.9	15846.6	15870.1	17149.2	16615.2
65°	15623.4	16467.0	16561.3	16527.6	15666.0	16454.7	16681.2	15853.3
67.5°	14173.8	14007.8	14166.0	14384.8	14117.8	15685.0	15385.6	14194.1
70°	11620.5	10708.4	11023.6	11170.5	11291.7	13497.4	13353.7	11561.0
72.5°	8757.4	7502.1	7751.1	7720.8	8281.8	10826.2	10385.3	8500.5
75°	6205.2	5086.7	5118.0	5105.6	5778.8	8470.3	7520.0	5815.9
77.5°	4341.8	3685.5	3702.2	3771.7	3885.0	6388.1	5372.8	4248.5
80°	2985.3	2796.8	2890.0	2895.6	2692.4	4291.1	3969.3	3409.4
82.5°	2223.5	1944.3	1921.8	1954.3	2110.3	3476.7	3050.4	2364.9
85°	1820.8	1151.0	925.5	1160.0	1870.2	3443.1	2026.1	1247.5
87.5°	1025.4	546.4	246.8	457.7	746.0	2279.7	585.6	159.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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