

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: P192123

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192123
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-05-LED-E1-SLR-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA 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: 21124 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
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

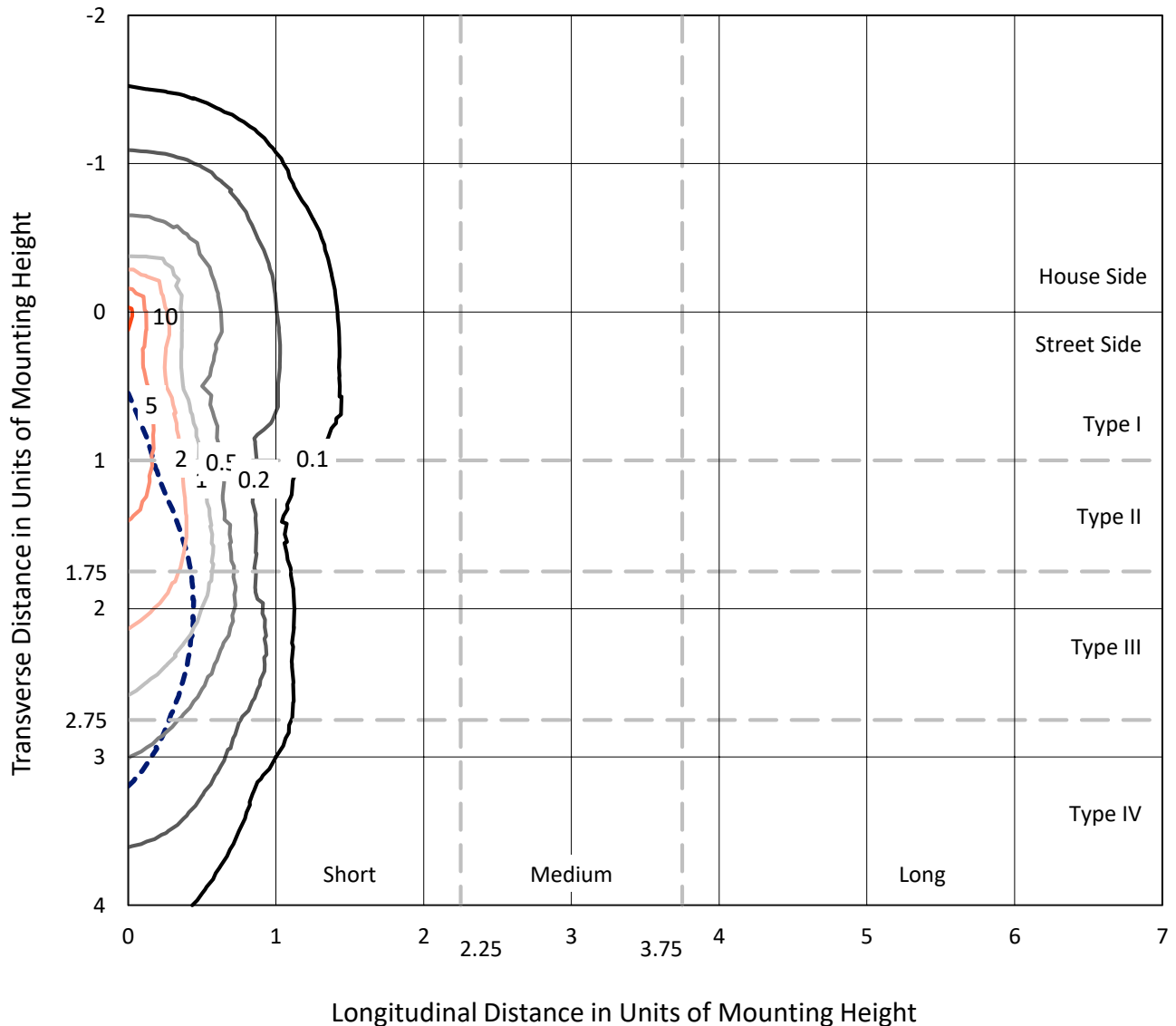


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

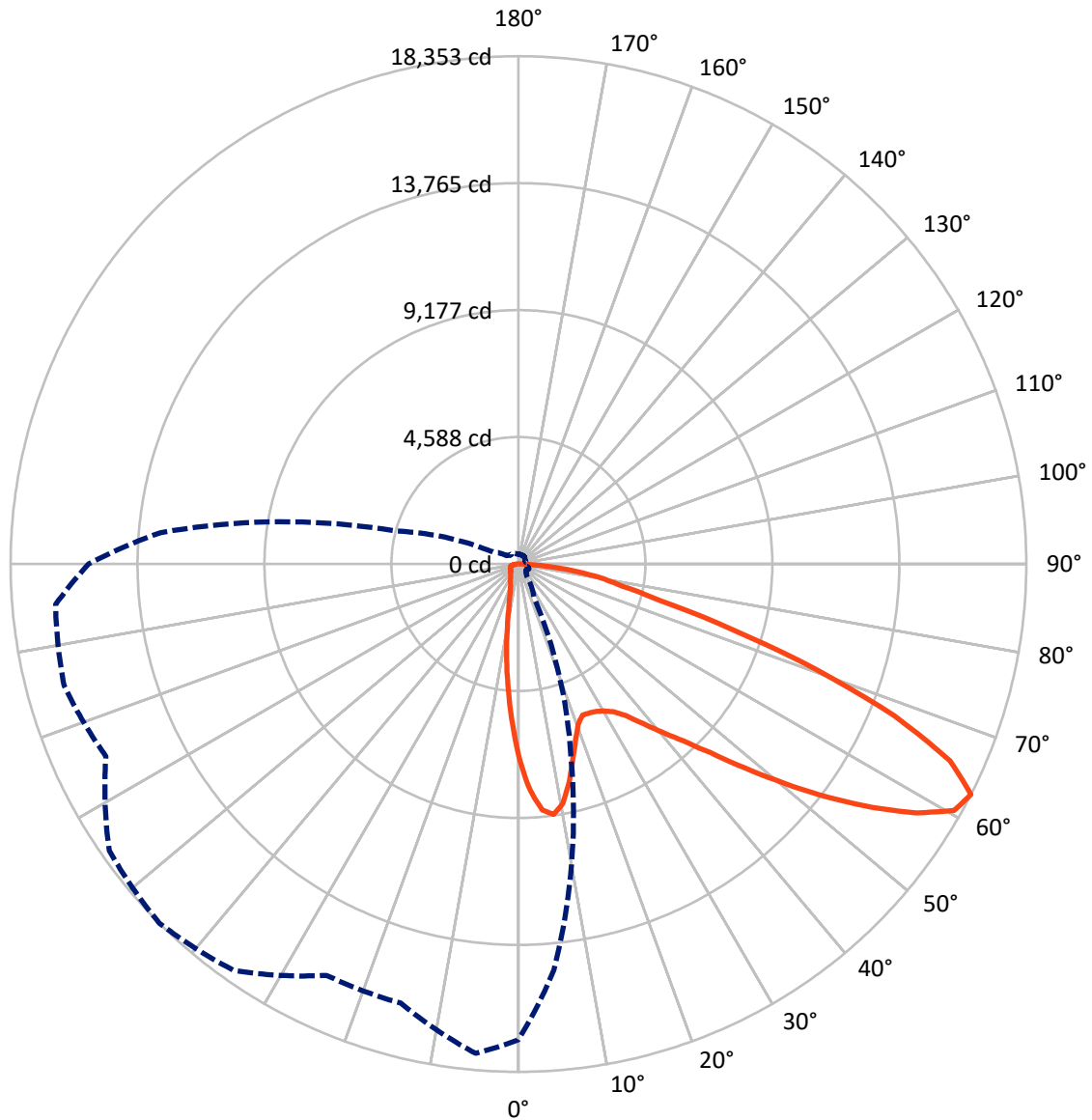


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3495.7	0.0	3495.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17628.3	0.0	17628.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	21124.0	0.0	21124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.5	2.5
10°-20°	952.7	4.5
20°-30°	1389.0	6.6
30°-40°	2139.3	10.1
40°-50°	3148.4	14.9
50°-60°	4618.1	21.9
60°-70°	5162.3	24.4
70°-80°	2527.4	12.0
80°-90°	667.3	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°	21124.0	100.0
0°-180°	21124.0	100.0



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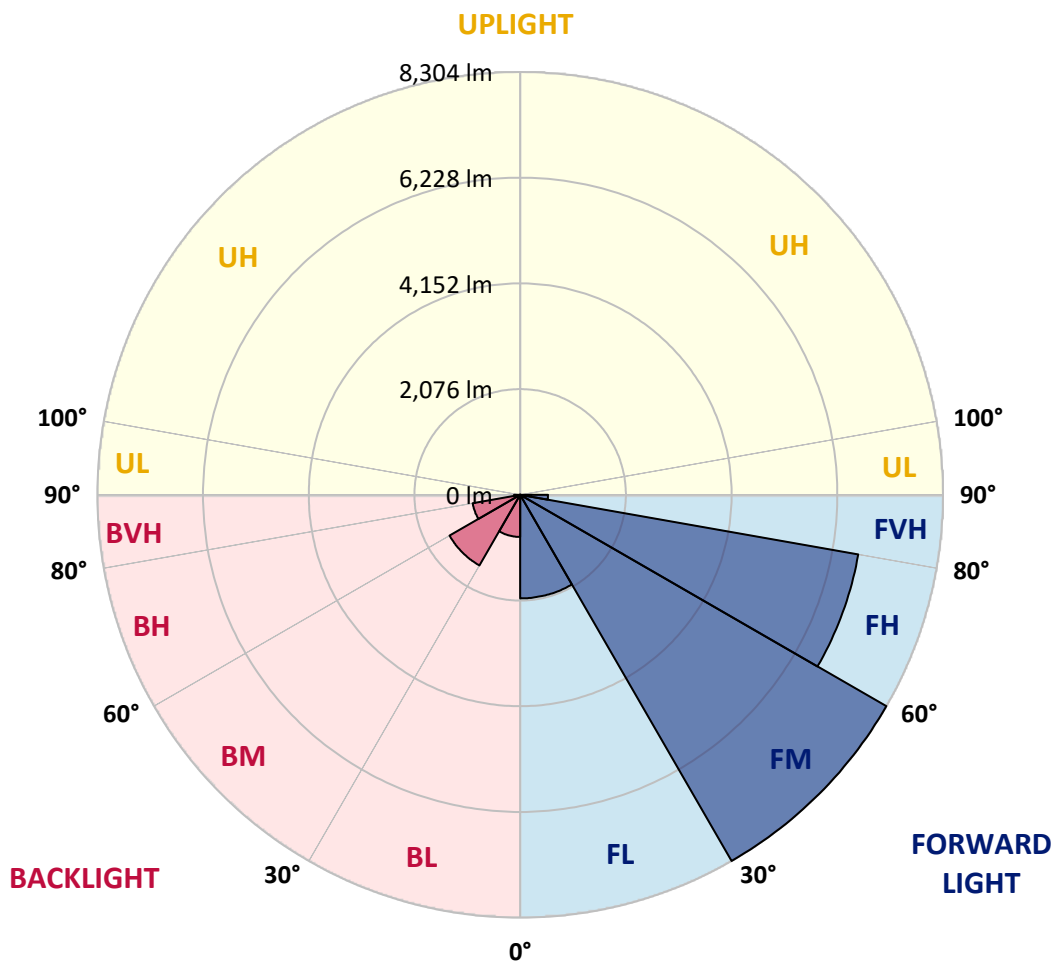
CATALOG NUMBER: GLEON-AF-05-LED-E1-SLR-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.2	9.6			
FM (30°-60°)	8304.0	39.3			
FH (60°-80°)	6742.1	31.9			G3/7500
FVH (80°-90°)	548.0	2.6			G4/750
BL (0°-30°)	827.0	3.9	B2/1000		
BM (30°-60°)	1601.7	7.6	B2/2500		
BH (60°-80°)	947.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	119.3	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°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	7415.5	7264.6	7013.7	6752.5	6593.4	6407.6	6262.4	6134.7	5879.2	5829.3	5874.6
5°	6973.1	6670.0	6197.4	5721.3	5404.3	5064.1	4799.3	4586.8	4262.8	4205.9	4274.4
7.5°	6263.6	5901.3	5276.6	4669.2	4221.0	3796.0	3510.4	3282.8	3029.6	2920.5	2927.4
10°	5651.6	5242.9	4504.4	3843.6	3476.7	3189.9	2949.5	2716.1	2459.5	2291.1	2244.6
12.5°	5309.1	4838.8	3987.6	3397.7	3057.5	2755.6	2496.6	2247.0	1972.9	1801.0	1752.3
15°	5249.9	4738.9	3793.7	3112.1	2685.9	2303.8	1998.5	1719.8	1437.6	1298.2	1269.2
17.5°	5506.5	4917.7	3731.0	2857.7	2336.4	1864.9	1489.8	1178.6	948.7	879.0	873.2
20°	5998.8	5261.5	3722.9	2618.5	1991.5	1438.7	1038.1	811.7	710.7	690.9	692.1
22.5°	6689.8	5794.5	3822.7	2438.6	1674.5	1073.0	780.3	679.3	639.8	621.2	621.2
25°	7583.9	6528.3	4052.6	2307.3	1399.3	857.0	688.6	628.2	591.1	578.3	580.6
27.5°	8450.2	7242.5	4319.7	2204.0	1219.3	778.0	652.6	598.0	565.5	552.7	558.5
30°	9126.0	7876.5	4542.7	2063.5	1127.5	756.0	665.4	609.6	563.2	543.4	544.6
32.5°	9685.7	8431.6	4729.6	1962.5	1046.3	648.0	573.6	549.3	543.4	520.2	508.6
35°	10401.0	9036.6	4855.0	1964.8	1007.9	578.3	510.9	468.0	436.6	409.9	409.9
37.5°	11239.4	9731.0	4988.6	1991.5	994.0	537.6	488.9	445.9	416.9	391.3	386.7
40°	12068.5	10411.5	5110.5	2017.0	985.9	513.3	471.5	432.0	405.3	379.7	372.7
42.5°	12773.4	10971.2	5219.7	2029.8	958.0	510.9	458.7	422.7	397.1	369.3	362.3
45°	13294.7	11440.3	5336.9	2049.5	930.1	520.2	458.7	421.5	390.2	363.5	356.5
47.5°	13760.4	11990.7	5533.2	2049.5	896.5	502.8	473.8	422.7	389.0	361.1	355.3
50°	14384.0	12745.5	5904.8	2001.9	848.8	484.2	499.3	418.0	378.6	356.5	349.5
52.5°	15243.3	13712.8	6494.7	1919.5	775.7	448.2	495.8	415.7	368.1	344.9	336.8
55°	16259.3	14748.6	7138.0	1823.1	666.5	422.7	478.4	409.9	356.5	330.9	322.8
57.5°	17052.4	15461.6	7590.9	1674.5	571.3	408.7	423.8	404.1	342.6	315.9	308.9
60°	17368.3	15433.7	7715.1	1475.9	524.9	397.1	370.4	452.9	330.9	304.2	296.1
62.5°	17197.6	14720.7	7366.7	1336.6	514.4	382.0	347.2	419.2	321.7	296.1	284.5
65°	16409.1	13457.3	6443.6	1299.4	544.6	366.9	332.1	328.6	308.9	284.5	272.9
67.5°	14691.7	11569.2	5159.3	1302.9	582.9	351.8	317.0	300.8	291.5	271.7	261.3
70°	11966.3	9146.9	3845.9	1312.2	602.7	334.4	300.8	283.3	272.9	253.1	246.2
72.5°	8798.5	7049.7	2793.9	1251.8	606.2	314.7	278.7	263.6	253.1	232.2	226.4
75°	6019.7	5392.7	1938.1	1037.0	528.4	286.8	254.3	240.4	233.4	207.9	204.4
77.5°	4397.5	4048.0	1240.2	769.9	407.6	252.0	224.1	213.7	209.0	181.1	176.5
80°	3528.9	3202.6	775.7	527.2	298.4	211.3	188.1	182.3	177.7	149.8	146.3
82.5°	2447.8	2144.8	498.2	342.6	224.1	163.7	148.6	146.3	139.3	113.8	110.3
85°	1291.3	1164.7	315.9	233.4	162.6	112.6	103.3	103.3	99.9	75.5	73.2
87.5°	164.9	268.2	160.2	121.9	89.4	49.9	49.9	48.8	52.3	43.0	37.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	5767.8	5823.5	5770.1	5773.6	5832.8	6009.3	6089.4	6155.6	6226.4	6272.9	6293.8
5°	4180.4	4310.4	4354.6	4447.5	4584.5	4809.8	4899.2	4964.2	5007.2	5032.7	5043.2
7.5°	2858.9	2937.9	3026.1	3175.9	3474.4	3606.7	3666.0	3650.9	3602.1	3584.7	3567.3
10°	2155.2	2123.9	2107.6	2190.1	2431.6	2565.1	2606.9	2566.3	2539.6	2545.4	2574.4
12.5°	1669.8	1615.2	1549.1	1539.8	1698.9	1818.5	1845.2	1847.5	1896.3	1939.2	2003.1
15°	1217.0	1211.1	1178.6	1158.9	1249.5	1347.0	1358.6	1379.5	1423.6	1455.0	1510.7
17.5°	858.1	889.5	915.0	927.8	996.3	1066.0	1053.2	1042.8	1034.6	1034.6	1061.4
20°	692.1	713.0	745.5	782.7	852.3	901.1	869.7	827.9	797.8	788.5	791.9
22.5°	623.6	639.8	658.4	690.9	753.6	787.3	753.6	723.4	693.2	682.8	679.3
25°	588.7	609.6	627.1	651.4	697.9	721.1	688.6	666.5	648.0	635.2	625.9
27.5°	569.0	587.6	592.2	603.8	643.3	664.2	648.0	638.7	627.1	615.4	603.8
30°	548.1	544.6	536.5	537.6	569.0	589.9	588.7	591.1	589.9	586.4	584.1
32.5°	500.5	493.5	486.5	493.5	522.5	541.1	542.3	546.9	546.9	545.8	555.1
35°	416.9	429.6	437.8	458.7	493.5	509.8	502.8	491.2	470.3	457.5	456.4
37.5°	385.5	387.8	401.8	430.8	469.1	484.2	473.8	447.1	433.1	430.8	434.3
40°	370.4	372.7	380.9	407.6	445.9	461.0	451.7	432.0	419.2	418.0	423.8
42.5°	360.0	362.3	366.9	385.5	416.9	435.5	436.6	422.7	407.6	408.7	414.6
45°	354.2	355.3	354.2	363.5	392.5	414.6	423.8	414.6	401.8	404.1	411.1
47.5°	353.0	349.5	344.9	347.2	377.4	399.5	411.1	407.6	401.8	404.1	409.9
50°	348.4	340.2	334.4	333.3	363.5	386.7	397.1	397.1	399.5	404.1	409.9
52.5°	334.4	325.1	325.1	321.7	354.2	376.2	383.2	384.4	387.8	396.0	404.1
55°	317.0	313.5	317.0	311.2	347.2	368.1	371.6	373.9	376.2	383.2	394.8
57.5°	301.9	297.3	305.4	303.1	341.4	360.0	360.0	364.6	364.6	373.9	383.2
60°	293.8	284.5	288.0	290.3	333.3	353.0	350.7	355.3	357.7	365.8	372.7
62.5°	283.3	275.2	275.2	281.0	324.0	342.6	341.4	344.9	354.2	356.5	363.5
65°	270.6	267.1	263.6	270.6	314.7	330.9	332.1	336.8	344.9	347.2	353.0
67.5°	257.8	259.0	252.0	259.0	306.6	319.3	319.3	328.6	332.1	336.8	342.6
70°	243.9	245.0	239.2	247.3	300.8	306.6	305.4	318.2	320.5	324.0	329.8
72.5°	226.4	226.4	224.1	235.7	291.5	293.8	291.5	301.9	303.1	306.6	308.9
75°	207.9	207.9	205.5	221.8	285.7	279.9	272.9	281.0	283.3	285.7	285.7
77.5°	183.5	185.8	185.8	205.5	265.9	274.0	250.8	255.5	259.0	260.1	256.6
80°	153.3	159.1	161.4	187.0	223.0	253.1	224.1	227.6	228.8	228.8	224.1
82.5°	117.3	127.7	133.5	161.4	170.7	212.5	195.1	198.6	195.1	188.1	185.8
85°	81.3	95.2	102.2	123.1	128.9	163.7	162.6	162.6	155.6	146.3	145.2
87.5°	44.1	52.3	56.9	73.2	88.3	110.3	119.6	116.1	110.3	104.5	105.7
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°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	6402.9	6560.9	6812.8	7005.6	7199.5	7386.5	7588.5	7743.0	7874.2	7925.3	8080.9
5°	5148.8	5346.2	5584.3	6013.9	6318.2	6653.8	7041.6	7554.9	7752.3	8025.2	8472.2
7.5°	3640.4	3819.2	4202.4	4549.6	4980.4	5455.4	5979.1	6687.4	6946.4	7384.2	8112.2
10°	2718.4	2926.3	3234.0	3526.6	3906.3	4391.7	4993.2	5785.2	6099.9	6574.8	7413.2
12.5°	2190.1	2435.1	2761.4	3036.6	3330.4	3672.9	4257.0	5125.6	5547.1	5962.8	6810.5
15°	1682.6	1939.2	2242.3	2591.8	2915.8	3285.1	3897.0	4846.9	5332.3	5765.4	6488.9
17.5°	1164.7	1384.2	1766.2	2130.8	2545.4	3018.0	3797.2	4906.1	5485.6	5984.9	6544.6
20°	825.6	951.0	1264.6	1687.2	2204.0	2797.4	3778.6	5217.3	5971.0	6541.1	6902.3
22.5°	694.4	740.9	923.2	1311.0	1907.9	2632.5	3843.6	5654.0	6625.9	7354.0	7472.4
25°	632.9	660.7	756.0	1028.8	1644.3	2512.9	4063.1	6304.2	7436.4	8166.8	8145.9
27.5°	599.2	628.2	690.9	868.6	1445.7	2438.6	4282.6	7075.3	8363.1	9049.3	8789.2
30°	588.7	628.2	694.4	818.7	1304.0	2321.3	4462.5	7752.3	9076.1	9645.0	9081.9
32.5°	580.6	586.4	616.6	706.0	1169.3	2184.2	4584.5	8359.6	9773.9	10211.7	9503.4
35°	469.1	498.2	546.9	632.9	1090.4	2101.8	4584.5	8883.3	10461.4	10784.2	9905.2
37.5°	451.7	477.3	520.2	593.4	1046.3	2061.2	4492.7	9388.4	11163.9	11433.3	10236.1
40°	442.4	463.3	504.0	563.2	1027.7	2014.7	4359.2	9834.3	11850.2	12083.6	10545.0
42.5°	435.5	454.0	492.4	544.6	1003.3	1963.6	4251.2	10192.0	12445.9	12638.7	10839.9
45°	432.0	451.7	493.5	553.9	954.5	1896.3	4215.2	10578.7	12935.9	13102.0	11159.3
47.5°	432.0	455.2	499.3	573.6	896.5	1826.6	4327.8	11088.4	13399.3	13480.5	11535.5
50°	428.5	454.0	515.6	553.9	811.7	1738.3	4592.6	11730.6	13900.9	13910.2	12011.6
52.5°	421.5	451.7	555.1	542.3	714.1	1622.2	4950.3	12555.1	14642.9	14698.7	12757.1
55°	413.4	448.2	544.6	515.6	634.0	1484.0	5242.9	13557.2	15685.7	15840.1	13853.3
57.5°	402.9	443.6	527.2	478.4	581.8	1306.4	5348.6	14291.1	16413.8	16801.6	15088.8
60°	393.7	440.1	476.1	456.4	549.3	1156.6	5144.2	14145.9	16363.8	17199.9	16183.8
62.5°	384.4	443.6	434.3	442.4	534.2	1060.2	4610.0	12983.5	15535.9	16788.8	16995.5
65°	373.9	412.2	409.9	430.8	530.7	1021.9	3821.6	11240.6	13935.7	15489.4	17187.1
67.5°	360.0	380.9	392.5	415.7	542.3	988.2	3084.2	9272.3	11712.0	13542.1	16188.5
70°	344.9	362.3	375.1	397.1	535.3	973.1	2565.1	7312.2	9293.2	11098.9	14217.9
72.5°	325.1	340.2	351.8	372.7	528.4	965.0	2166.8	5888.5	6938.3	8244.6	11559.9
75°	301.9	315.9	324.0	344.9	506.3	883.7	1703.5	4982.8	5191.8	5735.2	9207.3
77.5°	275.2	285.7	292.6	315.9	448.2	735.0	1232.0	3843.6	4031.7	4164.1	7059.0
80°	243.9	254.3	257.8	279.9	371.6	574.8	803.6	2839.2	3015.7	3045.9	4610.0
82.5°	207.9	218.3	218.3	239.2	304.2	413.4	527.2	1945.0	1979.9	2082.1	3258.4
85°	167.2	175.3	175.3	185.8	235.7	308.9	362.3	976.6	966.1	1103.2	2822.9
87.5°	119.6	125.4	131.2	133.5	168.4	204.4	218.3	297.3	196.2	225.3	1812.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8	7136.8
2.5°	8198.2	8264.4	8197.0	8148.2	7938.1	7765.0	7534.0	7415.5
5°	8812.5	8980.8	8923.9	8719.6	8280.6	7787.1	7226.2	6973.1
7.5°	8738.1	9129.5	9138.8	8756.7	8109.9	7383.0	6623.6	6263.6
10°	8159.9	8660.3	8803.2	8432.7	7746.5	6933.6	6062.7	5651.6
12.5°	7514.2	8004.3	8113.4	7985.7	7412.0	6595.7	5712.0	5309.1
15°	6985.9	7205.3	7335.4	7446.9	7125.2	6461.0	5692.3	5249.9
17.5°	6664.2	6639.8	6677.0	6870.9	6925.5	6615.4	5994.2	5506.5
20°	6548.1	6175.3	6166.0	6433.1	6831.4	6983.5	6584.1	5998.8
22.5°	6612.0	6008.1	5931.5	6248.5	6881.4	7514.2	7357.5	6689.8
25°	6832.6	6022.1	5960.5	6267.1	7062.5	8079.7	8192.4	7583.9
27.5°	7179.8	6110.3	6029.0	6343.7	7302.9	8554.7	9014.5	8450.2
30°	7509.6	6263.6	6162.6	6494.7	7522.3	8742.8	9518.5	9126.0
32.5°	7910.2	6550.4	6372.7	6772.2	7794.1	9042.4	9967.9	9685.7
35°	8302.7	6959.2	6738.5	7200.7	8097.1	9415.1	10481.1	10401.0
37.5°	8733.5	7493.3	7311.0	7754.6	8511.7	9767.0	11136.0	11239.4
40°	9193.3	8201.7	7985.7	8562.8	9155.0	10208.2	11820.0	12068.5
42.5°	9656.7	8987.8	8730.0	9315.3	9862.2	10643.7	12405.3	12773.4
45°	10187.3	9841.3	9719.4	10352.2	10541.5	11058.2	12837.2	13294.7
47.5°	10805.1	10809.7	11006.0	11259.1	11226.6	11527.4	13271.5	13760.4
50°	11526.2	12018.6	12451.7	12620.1	11932.6	12031.3	13874.2	14384.0
52.5°	12392.5	13464.3	14000.8	13890.4	12693.2	12646.8	14828.7	15243.3
55°	13475.9	14994.8	15527.8	15448.8	13567.6	13485.2	16017.8	16259.3
57.5°	14730.0	16477.6	16967.7	16612.3	14617.4	14404.9	17001.3	17052.4
60°	15832.0	17652.8	18082.4	17688.8	15676.4	15383.8	17615.6	17368.3
62.5°	16445.1	18051.1	18353.0	17929.2	16402.2	16426.5	17750.3	17197.6
65°	16171.1	17044.3	17141.9	17107.0	16215.2	17031.5	17266.1	16409.1
67.5°	14670.8	14498.9	14662.7	14889.1	14612.7	16234.9	15924.9	14691.7
70°	12027.9	11083.8	11410.1	11562.2	11687.6	13970.6	13821.9	11966.3
72.5°	9064.4	7765.0	8022.8	7991.5	8572.1	11205.7	10749.4	8798.5
75°	6422.7	5264.9	5297.5	5284.7	5981.4	8767.2	7783.6	6019.7
77.5°	4493.9	3814.6	3832.0	3904.0	4021.3	6612.0	5561.1	4397.5
80°	3090.0	2894.9	2991.3	2997.1	2786.9	4441.6	4108.4	3528.9
82.5°	2301.5	2012.4	1989.2	2022.8	2184.2	3598.6	3157.3	2447.8
85°	1884.7	1191.4	958.0	1200.7	1935.7	3563.8	2097.2	1291.3
87.5°	1061.4	565.5	255.5	473.8	772.2	2359.6	606.2	164.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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