

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: P192122

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192122
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17049 lumens
Efficiency: N/A
Efficacy: 99.7 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): 171
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

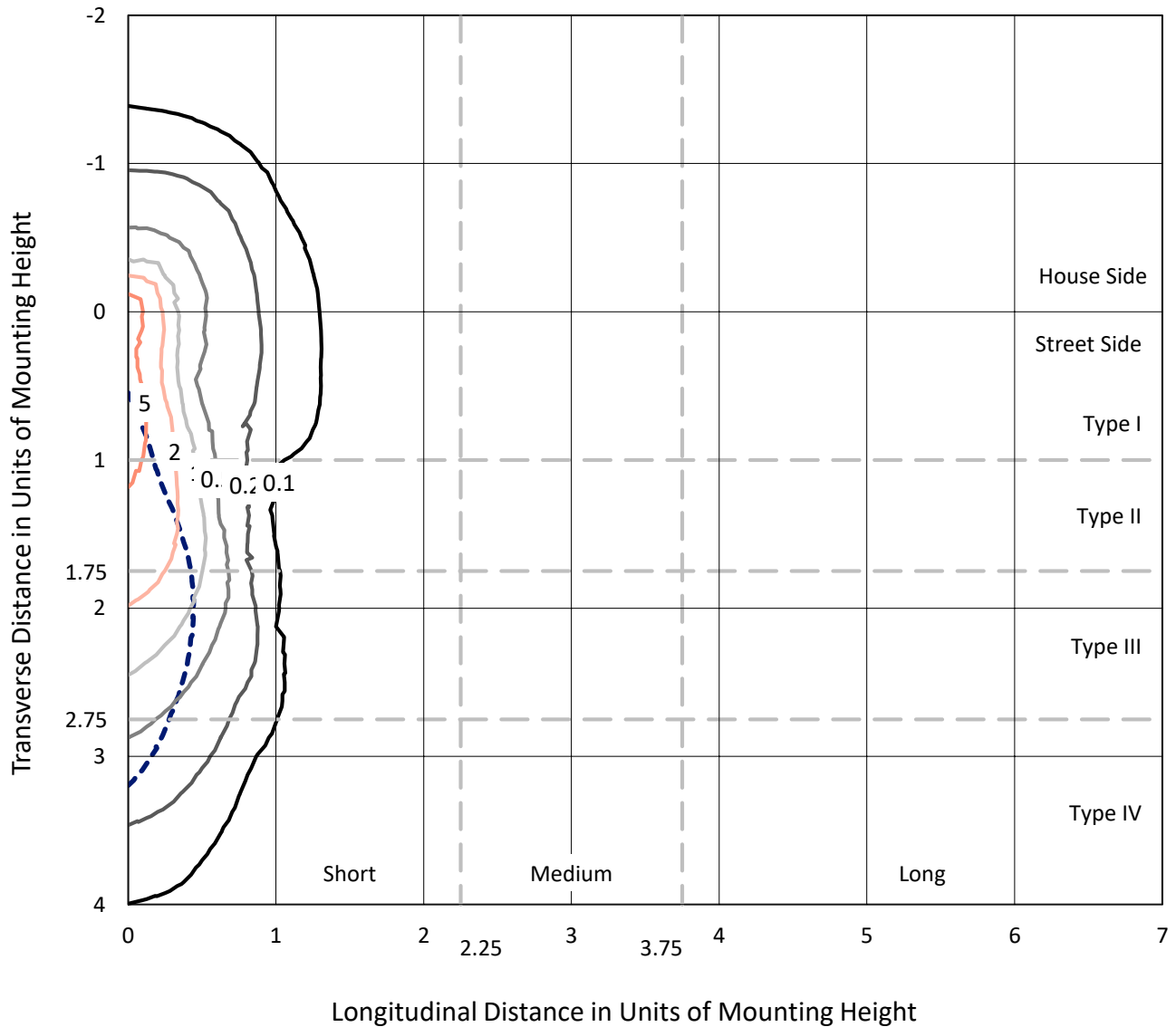


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

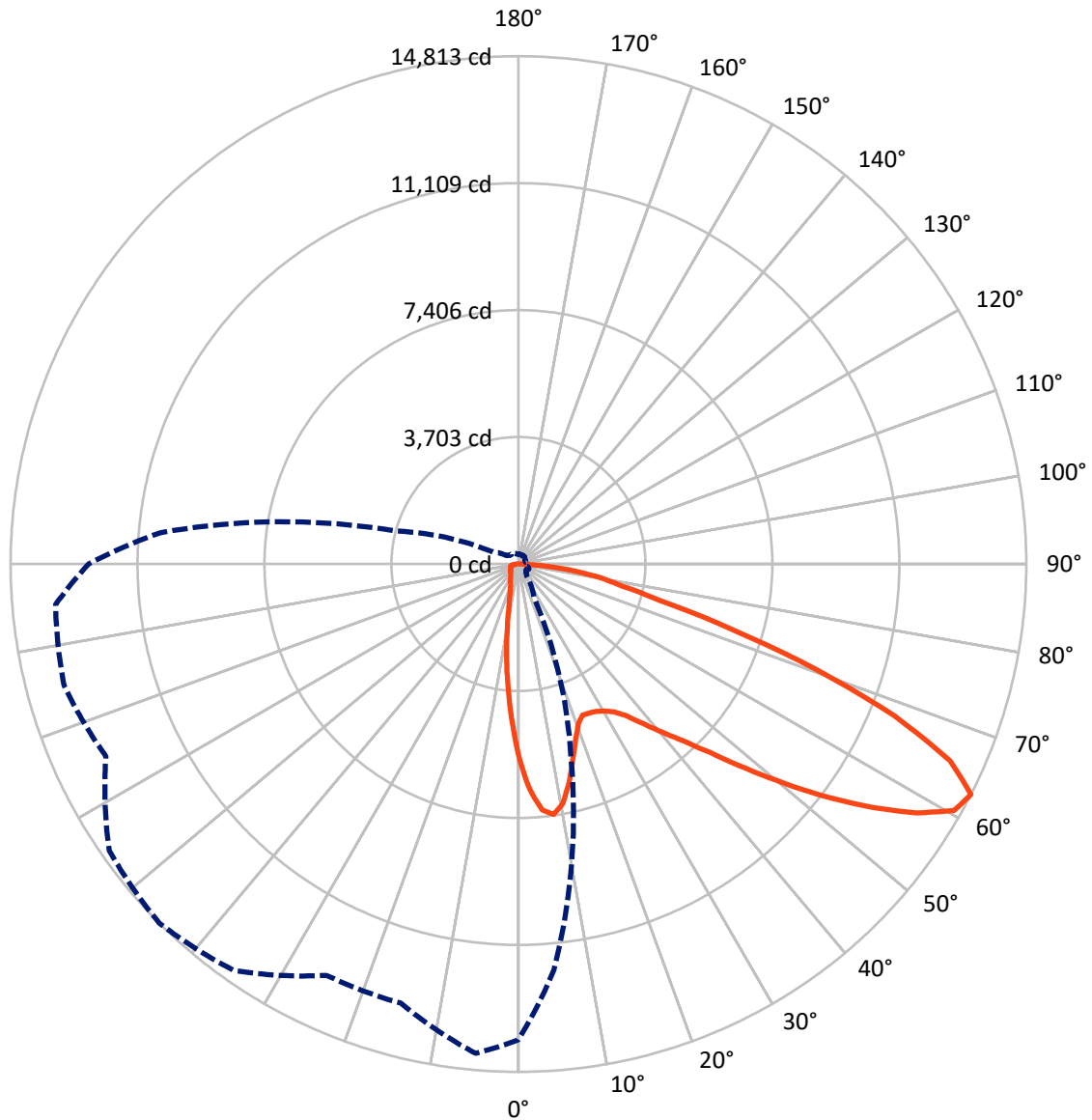


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— 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	2821.4	0.0	2821.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14227.6	0.0	14227.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	17049.0	0.0	17049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.3	2.5
10°-20°	768.9	4.5
20°-30°	1121.0	6.6
30°-40°	1726.6	10.1
40°-50°	2541.1	14.9
50°-60°	3727.2	21.9
60°-70°	4166.5	24.4
70°-80°	2039.9	12.0
80°-90°	538.6	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°	17049.0	100.0
0°-180°	17049.0	100.0



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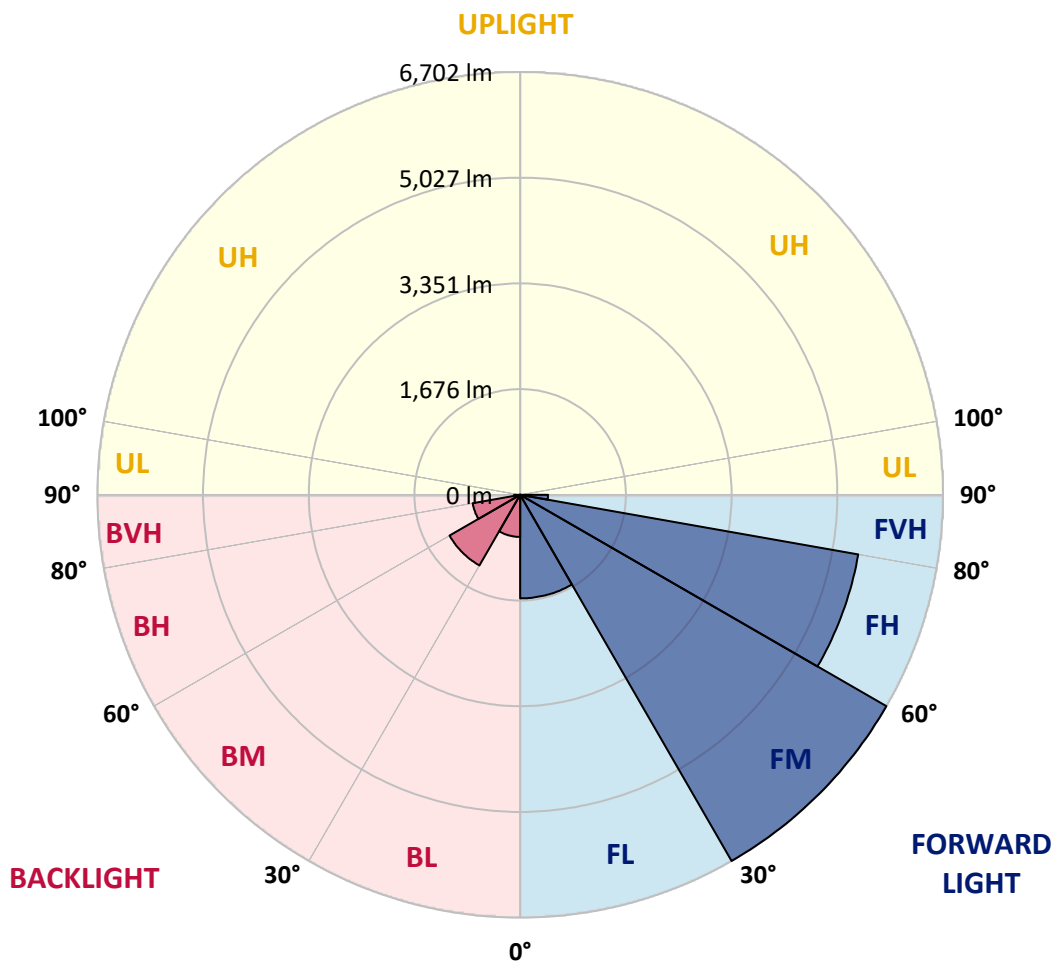
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.8	9.6			
FM	(30°-60°)	6702.1	39.3			
FH	(60°-80°)	5441.5	31.9			G3/7500
FVH	(80°-90°)	442.3	2.6			G3/500
BL	(0°-30°)	667.5	3.9	B2/1000		
BM	(30°-60°)	1292.7	7.6	B2/2500		
BH	(60°-80°)	764.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	96.3	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°	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1
2.5°	5985.0	5863.2	5660.7	5449.9	5321.5	5171.5	5054.4	4951.3	4745.1	4704.8	4741.3
5°	5627.9	5383.3	5001.9	4617.6	4361.8	4087.2	3873.5	3702.0	3440.5	3394.6	3449.9
7.5°	5055.3	4762.9	4258.7	3768.5	3406.7	3063.7	2833.2	2649.5	2445.2	2357.1	2362.7
10°	4561.4	4231.5	3635.4	3102.2	2806.0	2574.5	2380.5	2192.1	1985.0	1849.1	1811.6
12.5°	4284.9	3905.3	3218.4	2742.3	2467.7	2224.0	2015.0	1813.5	1592.3	1453.6	1414.2
15°	4237.1	3824.7	3061.9	2511.7	2167.8	1859.4	1612.9	1388.0	1160.3	1047.8	1024.4
17.5°	4444.2	3969.1	3011.2	2306.5	1885.7	1505.2	1202.4	951.3	765.7	709.5	704.8
20°	4841.6	4246.5	3004.7	2113.4	1607.3	1161.2	837.9	655.1	573.6	557.6	558.6
22.5°	5399.2	4676.7	3085.3	1968.1	1351.5	866.0	629.8	548.3	516.4	501.4	501.4
25°	6120.9	5269.0	3270.9	1862.2	1129.3	691.7	555.8	507.0	477.0	466.7	468.6
27.5°	6820.1	5845.4	3486.4	1778.8	984.1	627.9	526.7	482.7	456.4	446.1	450.8
30°	7365.5	6357.1	3666.4	1665.4	910.0	610.1	537.0	492.0	454.5	438.6	439.5
32.5°	7817.2	6805.1	3817.2	1583.9	844.4	523.0	463.0	443.3	438.6	419.9	410.5
35°	8394.6	7293.3	3918.5	1585.8	813.5	466.7	412.4	377.7	352.4	330.8	330.8
37.5°	9071.2	7853.8	4026.2	1607.3	802.2	433.9	394.6	359.9	336.5	315.8	312.1
40°	9740.4	8403.0	4124.6	1627.9	795.7	414.2	380.5	348.6	327.1	306.5	300.8
42.5°	10309.3	8854.7	4212.7	1638.2	773.2	412.4	370.2	341.1	320.5	298.0	292.4
45°	10730.1	9233.4	4307.4	1654.2	750.7	419.9	370.2	340.2	314.9	293.3	287.7
47.5°	11105.9	9677.6	4465.8	1654.2	723.5	405.8	382.4	341.1	314.0	291.5	286.8
50°	11609.2	10286.8	4765.7	1615.7	685.1	390.8	403.0	337.4	305.5	287.7	282.1
52.5°	12302.7	11067.5	5241.8	1549.2	626.1	361.8	400.2	335.5	297.1	278.4	271.8
55°	13122.8	11903.5	5761.0	1471.4	538.0	341.1	386.1	330.8	287.7	267.1	260.5
57.5°	13762.9	12478.9	6126.5	1351.5	461.1	329.9	342.1	326.1	276.5	254.9	249.3
60°	14017.8	12456.4	6226.8	1191.2	423.6	320.5	299.0	365.5	267.1	245.5	239.0
62.5°	13880.0	11881.0	5945.6	1078.7	415.2	308.3	280.2	338.3	259.6	239.0	229.6
65°	13243.7	10861.3	5200.6	1048.7	439.5	296.2	268.0	265.2	249.3	229.6	220.2
67.5°	11857.5	9337.4	4164.0	1051.5	470.5	284.0	255.9	242.7	235.2	219.3	210.9
70°	9657.9	7382.4	3104.0	1059.0	486.4	269.9	242.7	228.7	220.2	204.3	198.7
72.5°	7101.2	5689.8	2254.9	1010.3	489.2	254.0	224.9	212.7	204.3	187.4	182.8
75°	4858.5	4352.4	1564.2	836.9	426.4	231.5	205.2	194.0	188.4	167.8	164.9
77.5°	3549.2	3267.1	1000.9	621.4	329.0	203.4	180.9	172.4	168.7	146.2	142.5
80°	2848.2	2584.8	626.1	425.5	240.9	170.6	151.8	147.1	143.4	120.9	118.1
82.5°	1975.6	1731.0	402.1	276.5	180.9	132.1	120.0	118.1	112.5	91.8	89.0
85°	1042.2	940.0	254.9	188.4	131.2	90.9	83.4	83.4	80.6	60.9	59.0
87.5°	133.1	216.5	129.3	98.4	72.2	40.3	40.3	39.4	42.2	34.7	30.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1
2.5°	4655.1	4700.1	4657.0	4659.8	4707.6	4850.0	4914.7	4968.1	5025.3	5062.8	5079.7
5°	3373.9	3478.9	3514.5	3589.5	3700.1	3881.9	3954.1	4006.6	4041.2	4061.9	4070.3
7.5°	2307.4	2371.1	2442.4	2563.3	2804.1	2911.0	2958.8	2946.6	2907.2	2893.2	2879.1
10°	1739.5	1714.2	1701.0	1767.6	1962.5	2070.3	2104.0	2071.2	2049.7	2054.4	2077.8
12.5°	1347.7	1303.7	1250.2	1242.7	1371.1	1467.7	1489.2	1491.1	1530.5	1565.1	1616.7
15°	982.2	977.5	951.3	935.3	1008.4	1087.2	1096.5	1113.4	1149.0	1174.3	1219.3
17.5°	692.6	717.9	738.5	748.8	804.1	860.4	850.0	841.6	835.1	835.1	856.6
20°	558.6	575.4	601.7	631.7	687.9	727.3	702.0	668.2	643.9	636.4	639.2
22.5°	503.3	516.4	531.4	557.6	608.2	635.4	608.2	583.9	559.5	551.1	548.3
25°	475.2	492.0	506.1	525.8	563.3	582.0	555.8	538.0	523.0	512.7	505.2
27.5°	459.2	474.2	478.0	487.3	519.2	536.1	523.0	515.5	506.1	496.7	487.3
30°	442.4	439.5	433.0	433.9	459.2	476.1	475.2	477.0	476.1	473.3	471.4
32.5°	403.9	398.3	392.7	398.3	421.7	436.7	437.7	441.4	441.4	440.5	448.0
35°	336.5	346.8	353.3	370.2	398.3	411.4	405.8	396.4	379.6	369.3	368.3
37.5°	311.2	313.0	324.3	347.7	378.6	390.8	382.4	360.8	349.6	347.7	350.5
40°	299.0	300.8	307.4	329.0	359.9	372.1	364.6	348.6	338.3	337.4	342.1
42.5°	290.5	292.4	296.2	311.2	336.5	351.5	352.4	341.1	329.0	329.9	334.6
45°	285.8	286.8	285.8	293.3	316.8	334.6	342.1	334.6	324.3	326.1	331.8
47.5°	284.9	282.1	278.4	280.2	304.6	322.4	331.8	329.0	324.3	326.1	330.8
50°	281.2	274.6	269.9	269.0	293.3	312.1	320.5	320.5	322.4	326.1	330.8
52.5°	269.9	262.4	262.4	259.6	285.8	303.7	309.3	310.2	313.0	319.6	326.1
55°	255.9	253.0	255.9	251.2	280.2	297.1	299.9	301.8	303.7	309.3	318.7
57.5°	243.7	239.9	246.5	244.6	275.5	290.5	290.5	294.3	294.3	301.8	309.3
60°	237.1	229.6	232.4	234.3	269.0	284.9	283.0	286.8	288.7	295.2	300.8
62.5°	228.7	222.1	222.1	226.8	261.5	276.5	275.5	278.4	285.8	287.7	293.3
65°	218.4	215.6	212.7	218.4	254.0	267.1	268.0	271.8	278.4	280.2	284.9
67.5°	208.1	209.0	203.4	209.0	247.4	257.7	257.7	265.2	268.0	271.8	276.5
70°	196.8	197.8	193.1	199.6	242.7	247.4	246.5	256.8	258.7	261.5	266.2
72.5°	182.8	182.8	180.9	190.3	235.2	237.1	235.2	243.7	244.6	247.4	249.3
75°	167.8	167.8	165.9	179.0	230.6	225.9	220.2	226.8	228.7	230.6	230.6
77.5°	148.1	150.0	150.0	165.9	214.6	221.2	202.4	206.2	209.0	209.9	207.1
80°	123.7	128.4	130.3	150.9	179.9	204.3	180.9	183.7	184.6	184.6	180.9
82.5°	94.7	103.1	107.8	130.3	137.8	171.5	157.5	160.3	157.5	151.8	150.0
85°	65.6	76.9	82.5	99.3	104.0	132.1	131.2	131.2	125.6	118.1	117.2
87.5°	35.6	42.2	45.9	59.0	71.2	89.0	96.5	93.7	89.0	84.3	85.3
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°	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1
2.5°	5167.8	5295.2	5498.6	5654.2	5810.7	5961.6	6124.6	6249.3	6355.2	6396.4	6522.0
5°	4155.6	4314.9	4507.0	4853.8	5099.3	5370.2	5683.2	6097.5	6256.8	6477.0	6837.9
7.5°	2938.1	3082.5	3391.7	3672.0	4019.7	4403.0	4825.7	5397.4	5606.4	5959.7	6547.3
10°	2194.0	2361.8	2610.1	2846.3	3152.8	3544.5	4030.0	4669.2	4923.1	5306.5	5983.1
12.5°	1767.6	1965.3	2228.7	2450.8	2687.9	2964.4	3435.8	4136.8	4477.0	4812.6	5496.7
15°	1358.0	1565.1	1809.7	2091.8	2353.3	2651.4	3145.3	3911.9	4303.7	4653.2	5237.1
17.5°	940.0	1117.2	1425.5	1719.8	2054.4	2435.8	3064.7	3959.7	4427.4	4830.4	5282.1
20°	666.4	767.6	1020.6	1361.8	1778.8	2257.7	3049.7	4210.9	4819.1	5279.3	5570.8
22.5°	560.4	597.9	745.1	1058.1	1539.8	2124.6	3102.2	4563.3	5347.7	5935.3	6030.9
25°	510.8	533.3	610.1	830.4	1327.1	2028.1	3279.3	5088.1	6001.9	6591.4	6574.5
27.5°	483.6	507.0	557.6	701.0	1166.8	1968.1	3456.4	5710.4	6749.8	7303.6	7093.7
30°	475.2	507.0	560.4	660.7	1052.5	1873.5	3601.7	6256.8	7325.2	7784.4	7329.9
32.5°	468.6	473.3	497.7	569.8	943.8	1762.9	3700.1	6746.9	7888.5	8241.8	7670.1
35°	378.6	402.1	441.4	510.8	880.0	1696.3	3700.1	7169.6	8443.3	8703.8	7994.4
37.5°	364.6	385.2	419.9	478.9	844.4	1663.5	3626.1	7577.3	9010.3	9227.7	8261.5
40°	357.1	373.9	406.7	454.5	829.4	1626.1	3518.3	7937.2	9564.2	9752.6	8510.8
42.5°	351.5	366.4	397.4	439.5	809.7	1584.8	3431.1	8225.9	10045.0	10200.6	8748.8
45°	348.6	364.6	398.3	447.0	770.4	1530.5	3402.1	8538.0	10440.5	10574.5	9006.6
47.5°	348.6	367.4	403.0	463.0	723.5	1474.2	3493.0	8949.4	10814.4	10880.0	9310.2
50°	345.8	366.4	416.1	447.0	655.1	1403.0	3706.7	9467.7	11219.3	11226.8	9694.5
52.5°	340.2	364.6	448.0	437.7	576.4	1309.3	3995.3	10133.1	11818.2	11863.2	10296.1
55°	333.6	361.8	439.5	416.1	511.7	1197.7	4231.5	10941.9	12659.8	12784.4	11180.9
57.5°	325.2	358.0	425.5	386.1	469.5	1054.4	4316.8	11534.2	13247.4	13560.4	12178.1
60°	317.7	355.2	384.3	368.3	443.3	933.5	4151.8	11417.0	13207.1	13881.9	13061.8
62.5°	310.2	358.0	350.5	357.1	431.1	855.7	3720.7	10478.9	12538.9	13550.1	13717.0
65°	301.8	332.7	330.8	347.7	428.3	824.7	3084.3	9072.2	11247.4	12501.4	13871.6
67.5°	290.5	307.4	316.8	335.5	437.7	797.6	2489.2	7483.6	9452.7	10929.7	13065.6
70°	278.4	292.4	302.7	320.5	432.1	785.4	2070.3	5901.6	7500.5	8957.8	11475.2
72.5°	262.4	274.6	284.0	300.8	426.4	778.8	1748.8	4752.6	5599.8	6654.2	9329.9
75°	243.7	254.9	261.5	278.4	408.6	713.2	1374.9	4021.6	4190.2	4628.9	7431.1
77.5°	222.1	230.6	236.2	254.9	361.8	593.3	994.4	3102.2	3254.0	3360.8	5697.3
80°	196.8	205.2	208.1	225.9	299.9	463.9	648.5	2291.5	2433.9	2458.3	3720.7
82.5°	167.8	176.2	176.2	193.1	245.5	333.6	425.5	1569.8	1597.9	1680.4	2629.8
85°	135.0	141.5	141.5	150.0	190.3	249.3	292.4	788.2	779.8	890.3	2278.3
87.5°	96.5	101.2	105.9	107.8	135.9	164.9	176.2	239.9	158.4	181.8	1463.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1	5760.1
2.5°	6616.7	6670.1	6615.7	6576.4	6406.7	6267.1	6080.6	5985.0
5°	7112.5	7248.4	7202.4	7037.5	6683.2	6284.9	5832.2	5627.9
7.5°	7052.5	7368.3	7375.8	7067.5	6545.4	5958.8	5345.8	5055.3
10°	6585.7	6989.7	7105.0	6806.0	6252.1	5596.1	4893.2	4561.4
12.5°	6064.7	6460.2	6548.3	6445.2	5982.2	5323.3	4610.1	4284.9
15°	5638.2	5815.4	5920.3	6010.3	5750.7	5214.6	4594.2	4237.1
17.5°	5378.6	5358.9	5388.9	5545.5	5589.5	5339.3	4837.9	4444.2
20°	5284.9	4984.1	4976.6	5192.1	5513.6	5636.4	5314.0	4841.6
22.5°	5336.5	4849.1	4787.3	5043.1	5553.9	6064.7	5938.1	5399.2
25°	5514.5	4860.4	4810.7	5058.1	5700.1	6521.1	6612.0	6120.9
27.5°	5794.7	4931.6	4866.0	5120.0	5894.1	6904.4	7275.5	6820.1
30°	6060.9	5055.3	4973.8	5241.8	6071.2	7056.2	7682.3	7365.5
32.5°	6384.3	5286.8	5143.4	5465.8	6290.5	7298.0	8045.0	7817.2
35°	6701.0	5616.7	5438.6	5811.6	6535.1	7598.9	8459.2	8394.6
37.5°	7048.7	6047.8	5900.7	6258.7	6869.7	7882.8	8987.8	9071.2
40°	7419.9	6619.5	6445.2	6911.0	7388.9	8239.0	9539.8	9740.4
42.5°	7793.8	7254.0	7045.9	7518.3	7959.7	8590.4	10012.2	10309.3
45°	8222.1	7942.8	7844.4	8355.2	8508.0	8925.0	10360.8	10730.1
47.5°	8720.7	8724.5	8882.8	9087.2	9060.9	9303.6	10711.3	11105.9
50°	9302.7	9700.1	10049.7	10185.6	9630.7	9710.4	11197.7	11609.2
52.5°	10001.9	10866.9	11299.9	11210.9	10244.6	10207.1	11968.1	12302.7
55°	10876.3	12102.1	12532.3	12468.6	10950.3	10883.8	12927.8	13122.8
57.5°	11888.5	13299.0	13694.5	13407.7	11797.6	11626.0	13721.6	13762.9
60°	12777.9	14247.4	14594.2	14276.5	12652.3	12416.1	14217.4	14017.8
62.5°	13272.7	14568.9	14812.5	14470.5	13238.0	13257.7	14326.1	13880.0
65°	13051.5	13756.3	13835.0	13806.9	13087.2	13746.0	13935.3	13243.7
67.5°	11840.7	11702.0	11834.1	12016.9	11793.8	13103.1	12852.8	11857.5
70°	9707.6	8945.6	9209.0	9331.8	9433.0	11275.5	11155.6	9657.9
72.5°	7315.8	6267.1	6475.2	6449.9	6918.5	9044.0	8675.7	7101.2
75°	5183.7	4249.3	4275.5	4265.2	4827.6	7075.9	6282.1	4858.5
77.5°	3627.0	3078.7	3092.8	3150.9	3245.5	5336.5	4488.3	3549.2
80°	2493.9	2336.5	2414.2	2418.9	2249.3	3584.8	3315.8	2848.2
82.5°	1857.5	1624.2	1605.4	1632.6	1762.9	2904.4	2548.3	1975.6
85°	1521.1	961.6	773.2	969.1	1562.3	2876.3	1692.6	1042.2
87.5°	856.6	456.4	206.2	382.4	623.2	1904.4	489.2	133.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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