

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: P191333

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191333
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 26745.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

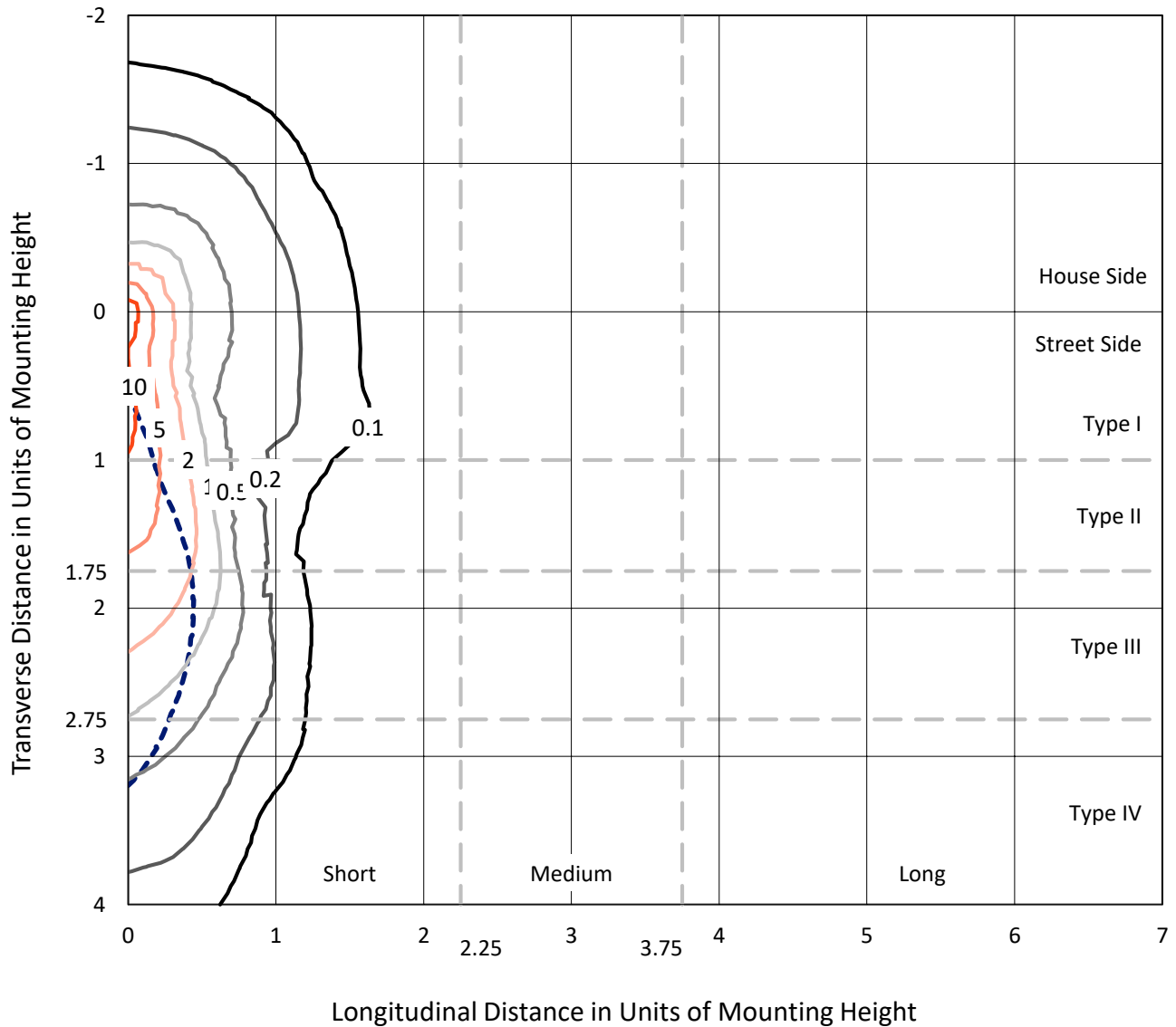


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

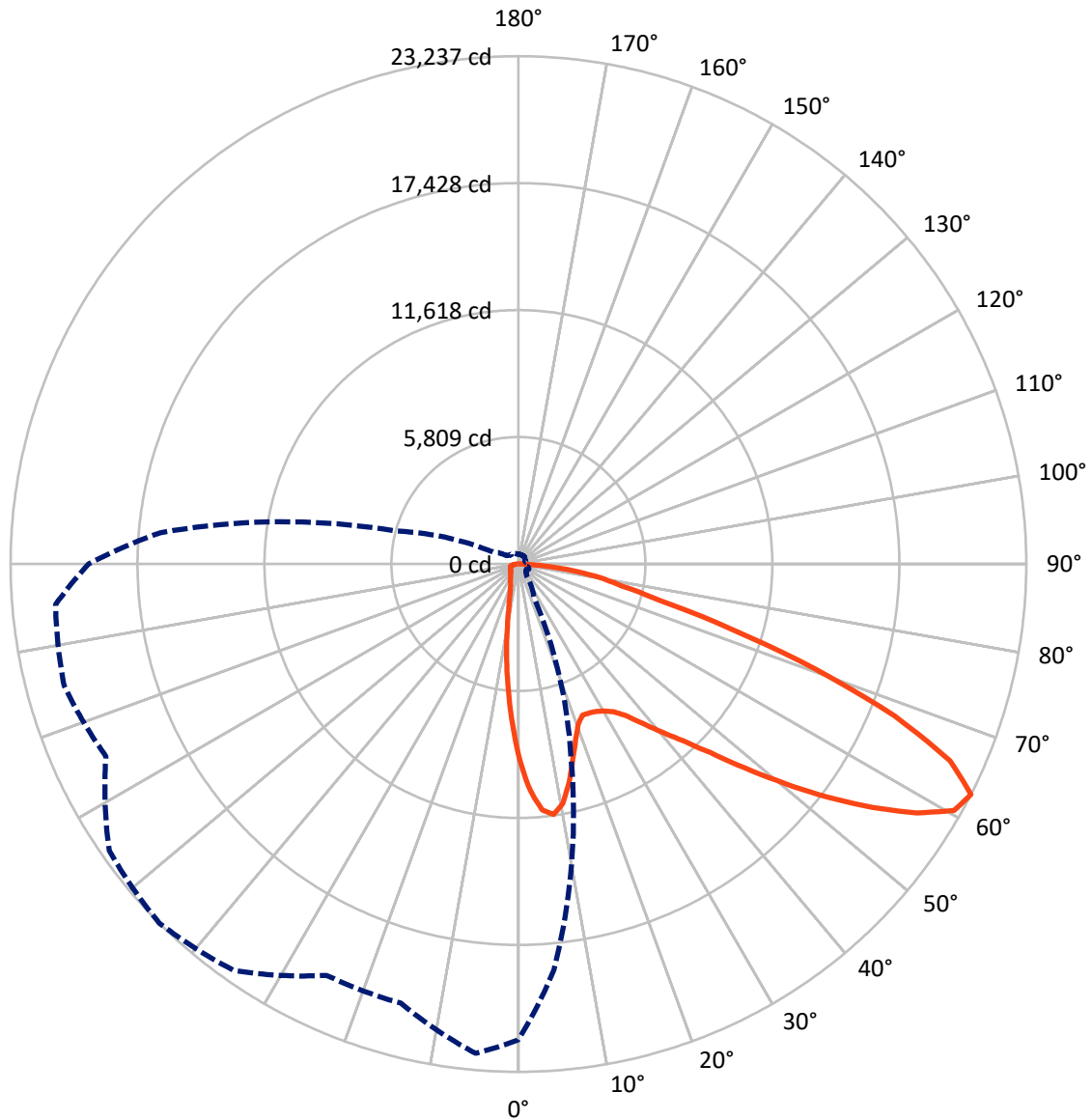


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

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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	4425.9	0.0	4425.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22319.1	0.0	22319.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	26745.1	0.0	26745.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.8	2.5
10°-20°	1206.2	4.5
20°-30°	1758.6	6.6
30°-40°	2708.5	10.1
40°-50°	3986.2	14.9
50°-60°	5846.9	21.9
60°-70°	6536.0	24.4
70°-80°	3200.0	12.0
80°-90°	844.9	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°	26745.1	100.0
0°-180°	26745.1	100.0



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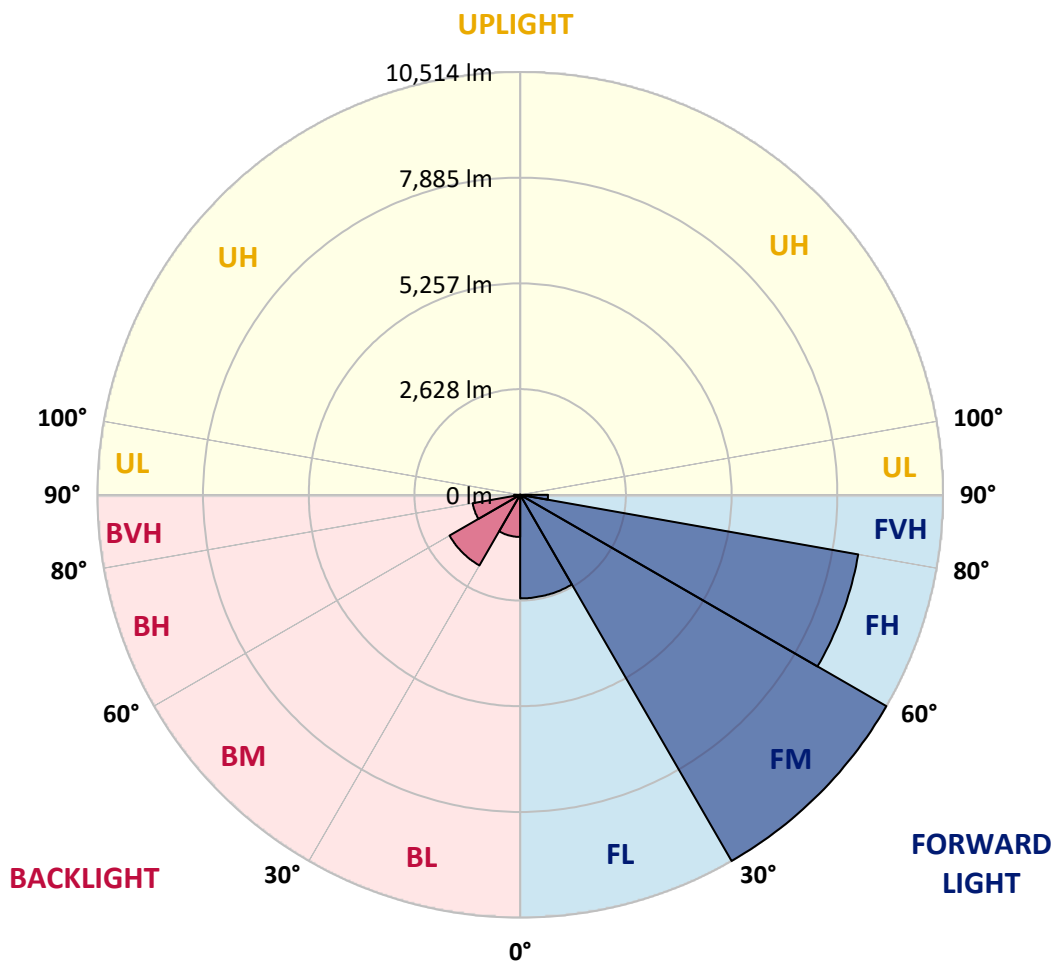
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.5	9.6			
FM (30°-60°)	10513.7	39.3			
FH (60°-80°)	8536.1	31.9			G4/12000
FVH (80°-90°)	693.8	2.6			G4/750
BL (0°-30°)	1047.1	3.9	B3/2500		
BM (30°-60°)	2027.9	7.6	B2/2500		
BH (60°-80°)	1199.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	151.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	9388.7	9197.7	8880.0	8549.3	8347.9	8112.6	7928.9	7767.2	7443.7	7380.5	7437.8
5°	8828.6	8444.9	7846.5	7243.7	6842.3	6411.5	6076.4	5807.3	5397.2	5325.1	5411.8
7.5°	7930.3	7471.6	6680.7	5911.7	5344.2	4806.1	4444.4	4156.2	3835.8	3697.6	3706.4
10°	7155.5	6638.0	5703.0	4866.4	4401.9	4038.7	3734.4	3438.9	3113.9	2900.7	2842.0
12.5°	6721.8	6126.4	5048.7	4301.8	3871.1	3488.8	3160.9	2844.8	2497.8	2280.3	2218.6
15°	6646.8	5999.9	4803.2	3940.2	3400.6	2916.9	2530.3	2177.4	1820.1	1643.7	1607.0
17.5°	6971.7	6226.4	4723.8	3618.2	2958.1	2361.2	1886.3	1492.3	1201.1	1113.0	1105.6
20°	7595.1	6661.6	4713.5	3315.3	2521.4	1821.6	1314.4	1027.7	899.8	874.7	876.3
22.5°	8469.9	7336.4	4839.9	3087.5	2120.1	1358.5	988.0	860.1	810.1	786.5	786.5
25°	9601.9	8265.5	5131.0	2921.3	1771.6	1085.0	871.9	795.3	748.3	732.1	735.1
27.5°	10698.7	9169.7	5469.2	2790.5	1543.7	985.0	826.2	757.2	716.0	699.8	707.2
30°	11554.4	9972.4	5751.4	2612.6	1427.5	957.1	842.4	771.8	713.1	688.0	689.6
32.5°	12263.0	10675.2	5988.1	2484.6	1324.6	820.4	726.3	695.4	688.0	658.7	643.9
35°	13168.7	11441.2	6146.9	2487.6	1276.1	732.1	646.9	592.5	552.8	518.9	518.9
37.5°	14230.2	12320.4	6316.0	2521.4	1258.5	680.7	619.0	564.6	527.8	495.4	489.6
40°	15279.9	13181.9	6470.4	2553.8	1248.2	649.9	596.9	546.9	513.1	480.8	471.9
42.5°	16172.3	13890.5	6608.6	2570.0	1212.9	646.9	580.7	535.2	502.8	467.5	458.7
45°	16832.5	14484.5	6757.1	2594.9	1177.6	658.7	580.7	533.7	494.0	460.2	451.3
47.5°	17422.0	15181.4	7005.6	2594.9	1135.0	636.6	599.9	535.2	492.6	457.3	449.9
50°	18211.5	16137.0	7476.0	2534.7	1074.7	613.1	632.2	529.3	479.3	451.3	442.5
52.5°	19299.5	17361.7	8222.9	2430.2	982.1	567.5	627.8	526.3	466.1	436.7	426.4
55°	20585.9	18673.1	9037.4	2308.2	843.9	535.2	605.7	518.9	451.3	419.0	408.7
57.5°	21590.1	19575.9	9610.7	2120.1	723.3	517.5	536.6	511.7	433.7	399.9	391.1
60°	21990.0	19540.6	9768.1	1868.6	664.5	502.8	469.0	573.4	419.0	385.2	374.9
62.5°	21773.8	18637.9	9327.1	1692.2	651.3	483.7	439.6	530.7	407.2	374.9	360.2
65°	20775.5	17038.3	8158.2	1645.2	689.6	464.6	420.4	416.0	391.1	360.2	345.5
67.5°	18601.1	14647.7	6532.2	1649.6	738.1	445.5	401.4	380.7	369.0	344.0	330.8
70°	15150.5	11580.8	4869.3	1661.4	763.0	423.4	380.7	358.7	345.5	320.5	311.7
72.5°	11139.8	8925.7	3537.4	1584.9	767.4	398.4	352.8	333.8	320.5	294.0	286.7
75°	7621.6	6827.7	2453.8	1312.9	668.9	363.1	322.0	304.3	295.5	263.2	258.8
77.5°	5567.7	5125.2	1570.2	974.8	516.1	319.1	283.8	270.5	264.6	229.3	223.5
80°	4467.9	4054.9	982.1	667.5	377.9	267.6	238.1	230.8	224.9	189.7	185.3
82.5°	3099.2	2715.5	630.8	433.7	283.8	207.2	188.2	185.3	176.5	144.0	139.6
85°	1634.9	1474.6	399.9	295.5	205.8	142.6	130.8	130.8	126.4	95.5	92.6
87.5°	208.8	339.6	202.9	154.4	113.2	63.2	63.2	61.8	66.2	54.4	47.1
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°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	7302.5	7373.1	7305.5	7309.9	7384.9	7608.3	7709.8	7793.6	7883.3	7942.1	7968.6
5°	5292.7	5457.4	5513.3	5630.9	5804.4	6089.6	6202.9	6285.1	6339.5	6371.9	6385.2
7.5°	3619.6	3719.7	3831.4	4021.0	4398.9	4566.5	4641.4	4622.3	4560.6	4538.5	4516.5
10°	2728.7	2689.0	2668.5	2772.8	3078.7	3247.7	3300.7	3249.2	3215.3	3222.7	3259.4
12.5°	2114.1	2045.1	1961.3	1949.5	2151.0	2302.4	2336.2	2339.1	2400.9	2455.3	2536.1
15°	1540.8	1533.4	1492.3	1467.3	1582.0	1705.5	1720.2	1746.6	1802.4	1842.1	1912.7
17.5°	1086.5	1126.2	1158.5	1174.7	1261.4	1349.7	1333.5	1320.2	1310.0	1310.0	1343.7
20°	876.3	902.8	943.9	990.9	1079.1	1140.9	1101.2	1048.2	1010.1	998.3	1002.7
22.5°	789.5	810.1	833.6	874.7	954.2	996.8	954.2	916.0	877.7	864.5	860.1
25°	745.4	771.8	793.9	824.8	883.6	913.0	871.9	843.9	820.4	804.2	792.5
27.5°	720.4	743.9	749.8	764.6	814.5	841.0	820.4	808.6	793.9	779.2	764.6
30°	694.0	689.6	679.2	680.7	720.4	746.9	745.4	748.3	746.9	742.5	739.5
32.5°	633.6	624.8	616.0	624.8	661.6	685.1	686.6	692.4	692.4	691.0	702.8
35°	527.8	544.0	554.2	580.7	624.8	645.4	636.6	621.9	595.5	579.3	577.8
37.5°	488.2	491.0	508.7	545.4	593.9	613.1	599.9	566.0	548.4	545.4	549.8
40°	469.0	471.9	482.2	516.1	564.6	583.7	571.9	546.9	530.7	529.3	536.6
42.5°	455.7	458.7	464.6	488.2	527.8	551.4	552.8	535.2	516.1	517.5	524.9
45°	448.5	449.9	448.5	460.2	496.9	524.9	536.6	524.9	508.7	511.7	520.5
47.5°	446.9	442.5	436.7	439.6	477.8	505.7	520.5	516.1	508.7	511.7	518.9
50°	441.1	430.8	423.4	422.0	460.2	489.6	502.8	502.8	505.7	511.7	518.9
52.5°	423.4	411.6	411.6	407.2	448.5	476.4	485.2	486.6	491.0	501.3	511.7
55°	401.4	397.0	401.4	394.0	439.6	466.1	470.5	473.4	476.4	485.2	499.9
57.5°	382.3	376.3	386.7	383.7	432.2	455.7	455.7	461.7	461.7	473.4	485.2
60°	371.9	360.2	364.6	367.5	422.0	446.9	444.0	449.9	452.9	463.1	471.9
62.5°	358.7	348.4	348.4	355.8	410.2	433.7	432.2	436.7	448.5	451.3	460.2
65°	342.6	338.2	333.8	342.6	398.4	419.0	420.4	426.4	436.7	439.6	446.9
67.5°	326.4	327.9	319.1	327.9	388.1	404.3	404.3	416.0	420.4	426.4	433.7
70°	308.7	310.3	302.9	313.1	380.7	388.1	386.7	402.8	405.8	410.2	417.6
72.5°	286.7	286.7	283.8	298.5	369.0	371.9	369.0	382.3	383.7	388.1	391.1
75°	263.2	263.2	260.2	280.8	361.7	354.4	345.5	355.8	358.7	361.7	361.7
77.5°	232.3	235.3	235.3	260.2	336.7	347.0	317.5	323.5	327.9	329.3	324.9
80°	194.1	201.4	204.4	236.7	282.2	320.5	283.8	288.2	289.6	289.6	283.8
82.5°	148.5	161.7	169.1	204.4	216.1	269.0	247.0	251.4	247.0	238.1	235.3
85°	102.9	120.6	129.4	155.8	163.2	207.2	205.8	205.8	197.0	185.3	183.8
87.5°	55.9	66.2	72.0	92.6	111.7	139.6	151.4	147.0	139.6	132.4	133.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	8106.8	8306.7	8625.7	8869.8	9115.3	9352.0	9607.9	9803.3	9969.5	10034.2	10231.2
5°	6519.0	6768.9	7070.2	7614.2	7999.4	8424.3	8915.3	9565.2	9815.1	10160.7	10726.7
7.5°	4609.1	4835.5	5320.7	5760.3	6305.8	6907.1	7570.1	8467.0	8794.8	9349.1	10270.9
10°	3441.7	3704.9	4094.6	4465.1	4945.8	5560.4	6321.9	7324.6	7723.0	8324.4	9385.8
12.5°	2772.8	3083.1	3496.1	3844.6	4216.6	4650.2	5389.8	6489.5	7023.2	7549.6	8622.8
15°	2130.3	2455.3	2839.0	3281.5	3691.7	4159.2	4934.0	6136.7	6751.2	7299.6	8215.5
17.5°	1474.6	1752.5	2236.2	2697.8	3222.7	3821.0	4807.6	6211.7	6945.3	7577.5	8286.1
20°	1045.4	1204.1	1601.0	2136.2	2790.5	3541.8	4784.0	6605.7	7559.8	8281.7	8739.0
22.5°	879.2	938.0	1168.8	1659.8	2415.6	3333.0	4866.4	7158.5	8389.0	9310.9	9460.8
25°	801.3	836.6	957.1	1302.6	2081.8	3181.6	5144.3	7981.8	9415.2	10340.0	10313.5
27.5°	758.6	795.3	874.7	1099.7	1830.4	3087.5	5422.2	8958.0	10588.5	11457.4	11128.1
30°	745.4	795.3	879.2	1036.5	1651.0	2938.9	5650.1	9815.1	11491.2	12211.6	11498.5
32.5°	735.1	742.5	780.7	893.9	1480.5	2765.4	5804.4	10584.1	12374.7	12929.1	12032.3
35°	593.9	630.8	692.4	801.3	1380.6	2661.1	5804.4	11247.1	13245.2	13653.8	12540.9
37.5°	571.9	604.3	658.7	751.3	1324.6	2609.6	5688.2	11886.7	14134.6	14475.7	12959.9
40°	560.2	586.7	638.1	713.1	1301.1	2550.8	5519.1	12451.3	15003.5	15299.0	13350.9
42.5°	551.4	574.9	623.4	689.6	1270.3	2486.1	5382.5	12904.0	15757.7	16001.8	13724.4
45°	546.9	571.9	624.8	701.3	1208.5	2400.9	5336.8	13393.6	16378.2	16588.4	14128.7
47.5°	546.9	576.3	632.2	726.3	1135.0	2312.7	5479.4	14039.1	16964.7	17067.7	14605.1
50°	542.5	574.9	652.7	701.3	1027.7	2200.9	5814.7	14852.1	17599.9	17611.6	15207.9
52.5°	533.7	571.9	702.8	686.6	904.2	2053.9	6267.5	15895.9	18539.3	18609.9	16151.8
55°	523.4	567.5	689.6	652.7	802.7	1879.0	6638.0	17164.7	19859.6	20055.2	17539.6
57.5°	510.1	561.6	667.5	605.7	736.6	1654.0	6771.8	18093.9	20781.5	21272.5	19103.9
60°	498.4	557.2	602.8	577.8	695.4	1464.4	6513.0	17910.1	20718.2	21776.8	20490.3
62.5°	486.6	561.6	549.8	560.2	676.3	1342.3	5836.8	16438.4	19669.9	21256.3	21518.0
65°	473.4	521.9	518.9	545.4	671.9	1293.8	4838.5	14231.6	17644.0	19611.2	21760.6
67.5°	455.7	482.2	496.9	526.3	686.6	1251.2	3904.9	11739.6	14828.6	17145.6	20496.3
70°	436.7	458.7	474.9	502.8	677.8	1232.0	3247.7	9257.9	11766.1	14052.3	18001.3
72.5°	411.6	430.8	445.5	471.9	668.9	1221.7	2743.5	7455.5	8784.5	10438.5	14636.0
75°	382.3	399.9	410.2	436.7	641.0	1118.8	2156.8	6308.6	6573.3	7261.4	11657.3
77.5°	348.4	361.7	370.5	399.9	567.5	930.7	1559.9	4866.4	5104.5	5272.2	8937.4
80°	308.7	322.0	326.4	354.4	470.5	727.7	1017.4	3594.6	3818.2	3856.3	5836.8
82.5°	263.2	276.4	276.4	302.9	385.2	523.4	667.5	2462.7	2506.7	2636.0	4125.5
85°	211.8	222.0	222.0	235.3	298.5	391.1	458.7	1236.4	1223.2	1396.7	3574.1
87.5°	151.4	158.8	166.1	169.1	213.2	258.8	276.4	376.3	248.5	285.2	2295.0
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°	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9	9035.9
2.5°	10379.7	10463.5	10378.2	10316.5	10050.4	9831.3	9538.7	9388.7
5°	11157.4	11370.6	11298.6	11039.8	10484.1	9859.2	9149.2	8828.6
7.5°	11063.3	11558.8	11570.6	11086.8	10268.0	9347.6	8386.0	7930.3
10°	10331.2	10964.8	11145.7	10676.6	9807.7	8778.7	7676.0	7155.5
12.5°	9513.7	10134.2	10272.4	10110.6	9384.3	8350.8	7232.0	6721.8
15°	8844.8	9122.7	9287.4	9428.4	9021.2	8180.2	7207.0	6646.8
17.5°	8437.5	8406.7	8453.7	8699.3	8768.3	8375.8	7589.3	6971.7
20°	8290.5	7818.6	7806.9	8144.9	8649.3	8841.9	8336.1	7595.1
22.5°	8371.4	7606.9	7509.8	7911.2	8712.5	9513.7	9315.3	8469.9
25°	8650.7	7624.6	7546.6	7934.7	8941.8	10229.7	10372.3	9601.9
27.5°	9090.4	7736.3	7633.4	8031.8	9246.1	10831.0	11413.3	10698.7
30°	9507.8	7930.3	7802.5	8222.9	9524.0	11069.2	12051.3	11554.4
32.5°	10015.1	8293.5	8068.5	8574.3	9868.1	11448.6	12620.2	12263.0
35°	10512.0	8811.0	8531.6	9116.7	10251.8	11920.4	13270.1	13168.7
37.5°	11057.5	9487.3	9256.5	9818.1	10776.7	12365.9	14099.3	14230.2
40°	11639.6	10384.1	10110.6	10841.3	11591.2	12924.7	14965.3	15279.9
42.5°	12226.3	11379.4	11053.1	11794.0	12486.5	13475.9	15706.3	16172.3
45°	12898.2	12460.1	12305.7	13107.0	13346.5	14000.8	16253.2	16832.5
47.5°	13680.3	13686.2	13934.6	14255.1	14214.0	14594.7	16803.1	17422.0
50°	14593.3	15216.7	15765.1	15978.3	15107.9	15232.9	17566.1	18211.5
52.5°	15690.1	17047.1	17726.3	17586.7	16070.9	16012.0	18774.6	19299.5
55°	17061.8	18984.8	19659.7	19559.7	17177.9	17073.6	20280.1	20585.9
57.5°	18649.6	20862.3	21482.7	21032.9	18507.0	18238.0	21525.3	21590.1
60°	20044.8	22350.1	22894.2	22395.8	19847.8	19477.4	22303.1	21990.0
62.5°	20821.1	22854.5	23236.7	22700.1	20766.7	20797.6	22473.6	21773.8
65°	20474.2	21579.8	21703.2	21659.1	20530.0	21563.6	21860.6	20775.5
67.5°	18574.6	18357.1	18564.3	18851.0	18501.1	20555.1	20162.5	18601.1
70°	15228.5	14033.1	14446.3	14638.9	14797.7	17688.1	17499.9	15150.5
72.5°	11476.5	9831.3	10157.7	10118.0	10853.1	14187.5	13609.7	11139.8
75°	8131.7	6666.0	6707.1	6690.9	7573.0	11100.1	9854.8	7621.6
77.5°	5689.8	4829.7	4851.7	4942.9	5091.3	8371.4	7040.9	5567.7
80°	3912.3	3665.2	3787.3	3794.6	3528.5	5623.6	5201.6	4467.9
82.5°	2914.0	2547.9	2518.5	2561.1	2765.4	4556.2	3997.5	3099.2
85°	2386.1	1508.4	1212.9	1520.2	2450.9	4512.0	2655.2	1634.9
87.5°	1343.7	716.0	323.5	599.9	977.7	2987.4	767.4	208.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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