

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: P193855

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193855
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-07-LED-E1-SLR-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 19892 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

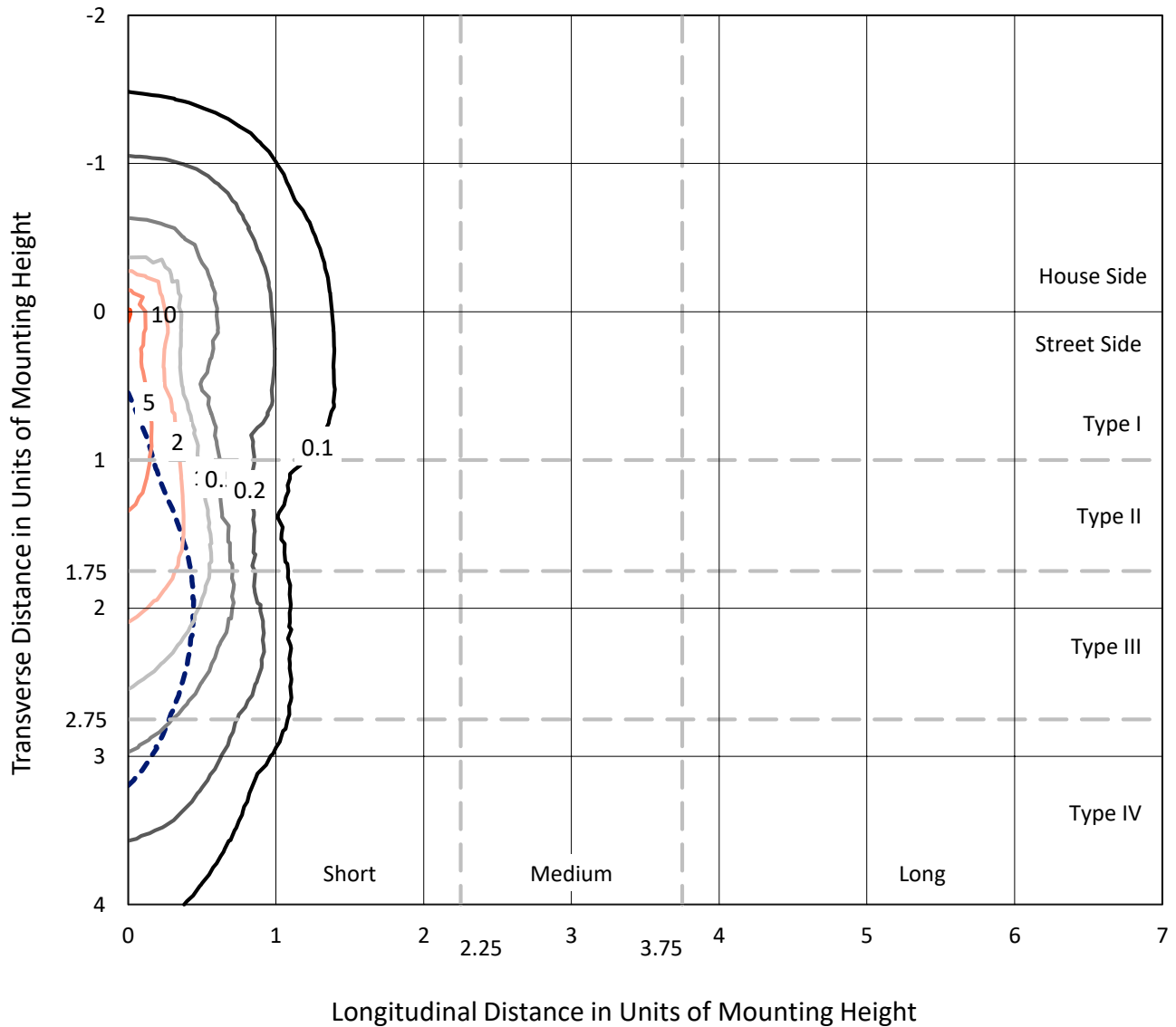


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Iso-Footcandle Lines of Horizontal Illumination

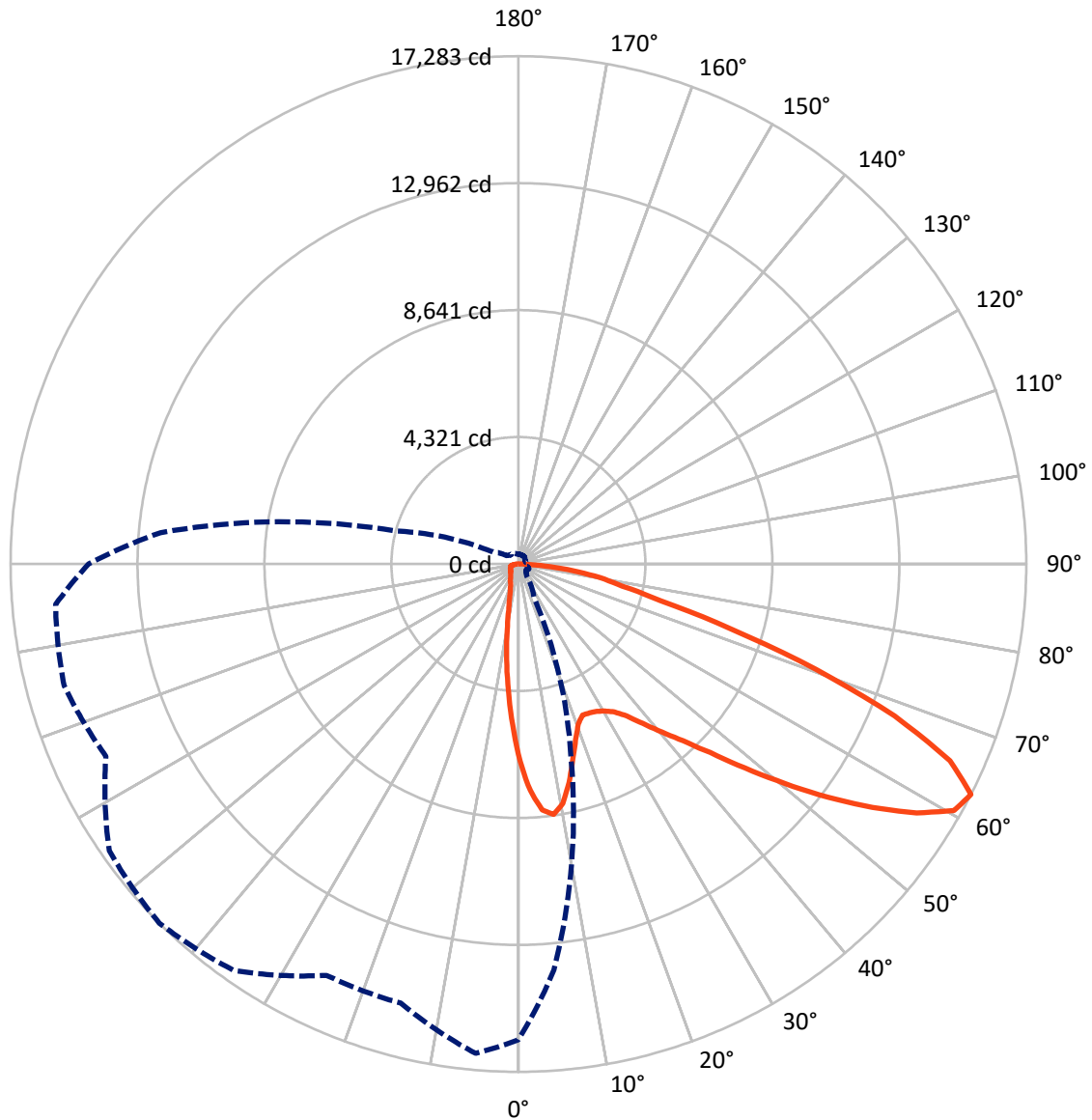
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	3291.9	0.0	3291.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16600.1	0.0	16600.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	19892.0	0.0	19892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.2	2.5
10°-20°	897.1	4.5
20°-30°	1308.0	6.6
30°-40°	2014.5	10.1
40°-50°	2964.8	14.9
50°-60°	4348.7	21.9
60°-70°	4861.3	24.4
70°-80°	2380.0	12.0
80°-90°	628.4	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°	19892.0	100.0
0°-180°	19892.0	100.0

Coefficient of Utilization



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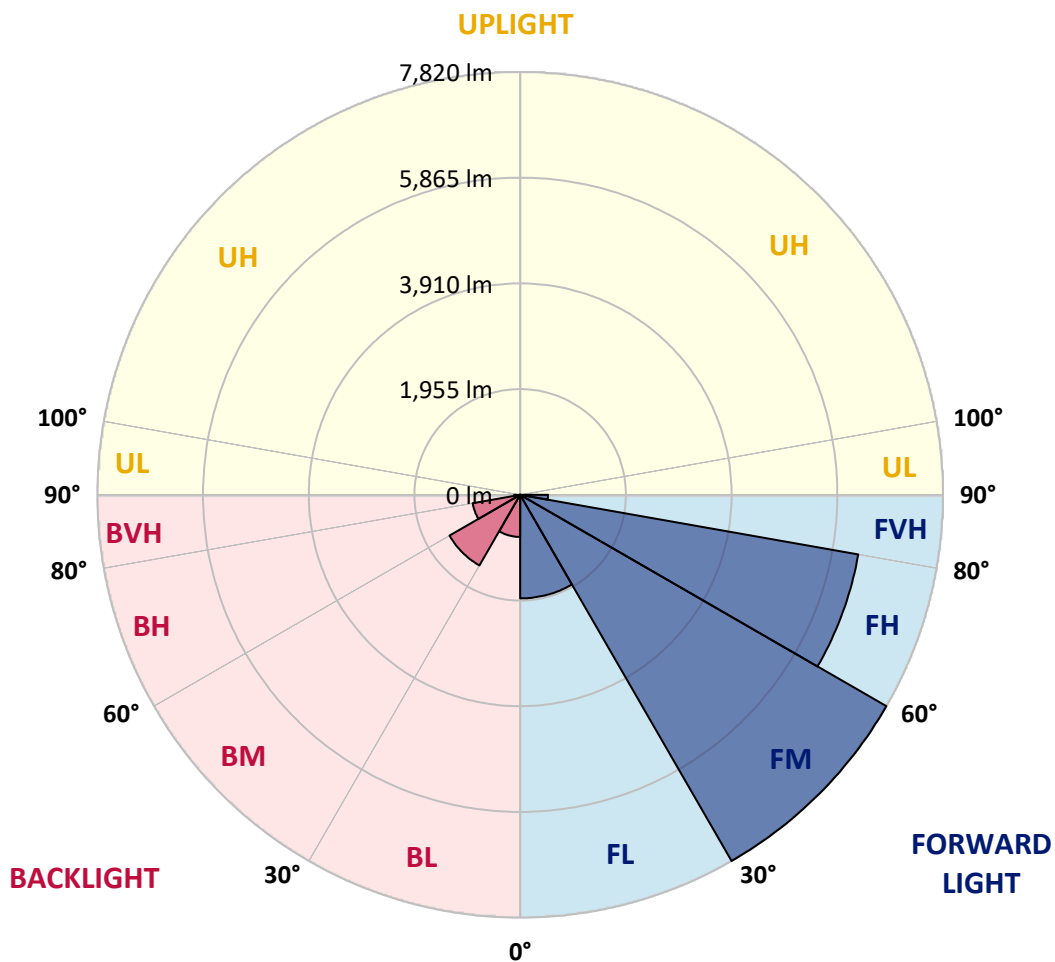
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1915.5	9.6			
FM	(30°-60°)	7819.7	39.3			
FH	(60°-80°)	6348.8	31.9			G3/7500
FVH	(80°-90°)	516.0	2.6			G4/750
BL	(0°-30°)	778.8	3.9	B2/1000		
BM	(30°-60°)	1508.3	7.6	B2/2500		
BH	(60°-80°)	892.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	112.3	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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	6983.0	6840.9	6604.7	6358.6	6208.8	6033.9	5897.2	5776.9	5536.3	5489.3	5532.0
5°	6566.4	6281.0	5836.0	5387.6	5089.1	4768.7	4519.4	4319.3	4014.2	3960.6	4025.1
7.5°	5898.3	5557.1	4968.8	4396.9	3974.8	3574.6	3305.6	3091.3	2852.9	2750.1	2756.7
10°	5322.0	4937.1	4241.6	3619.5	3273.9	3003.8	2777.5	2557.7	2316.0	2157.5	2113.7
12.5°	4999.4	4556.6	3755.0	3199.6	2879.2	2594.9	2351.0	2115.9	1857.8	1696.0	1650.1
15°	4943.7	4462.5	3572.4	2930.6	2529.2	2169.5	1881.9	1619.5	1353.7	1222.5	1195.2
17.5°	5185.3	4630.9	3513.4	2691.1	2200.1	1756.1	1402.9	1109.9	893.4	827.8	822.3
20°	5649.0	4954.6	3505.7	2465.8	1875.3	1354.8	977.6	764.3	669.2	650.6	651.7
22.5°	6299.6	5456.5	3599.8	2296.3	1576.8	1010.4	734.8	639.7	602.5	585.0	585.0
25°	7141.6	6147.6	3816.3	2172.8	1317.7	807.0	648.4	591.6	556.6	544.6	546.7
27.5°	7957.3	6820.1	4067.8	2075.4	1148.2	732.6	614.5	563.1	532.5	520.5	526.0
30°	8593.7	7417.1	4277.7	1943.1	1061.8	711.9	626.6	574.1	530.3	511.8	512.8
32.5°	9120.8	7939.8	4453.8	1848.0	985.2	610.2	540.2	517.2	511.8	489.9	478.9
35°	9794.4	8509.5	4571.9	1850.2	949.1	544.6	481.1	440.7	411.2	386.0	386.0
37.5°	10583.9	9163.4	4697.6	1875.3	936.0	506.3	460.4	419.9	392.6	368.5	364.1
40°	11364.6	9804.2	4812.4	1899.4	928.4	483.3	444.0	406.8	381.6	357.6	351.0
42.5°	12028.4	10331.3	4915.2	1911.4	902.1	481.1	431.9	398.0	374.0	347.7	341.2
45°	12519.4	10773.1	5025.7	1930.0	875.9	489.9	431.9	396.9	367.4	342.3	335.7
47.5°	12957.9	11291.4	5210.5	1930.0	844.2	473.5	446.1	398.0	366.3	340.1	334.6
50°	13545.1	12002.1	5560.4	1885.2	799.3	456.0	470.2	393.7	356.5	335.7	329.1
52.5°	14354.2	12913.0	6115.9	1807.5	730.5	422.1	466.9	391.5	346.6	324.8	317.1
55°	15311.0	13888.4	6721.7	1716.8	627.7	398.0	450.5	386.0	335.7	311.6	304.0
57.5°	16057.9	14559.8	7148.1	1576.8	538.0	384.9	399.1	380.5	322.6	297.4	290.9
60°	16355.3	14533.6	7265.1	1389.8	494.3	374.0	348.8	426.5	311.6	286.5	278.8
62.5°	16194.6	13862.2	6937.1	1258.6	484.4	359.8	327.0	394.7	302.9	278.8	267.9
65°	15452.1	12672.5	6067.8	1223.6	512.8	345.5	312.7	309.5	290.9	267.9	257.0
67.5°	13834.8	10894.4	4858.4	1226.9	548.9	331.3	298.5	283.2	274.5	255.9	246.0
70°	11268.4	8613.4	3621.6	1235.6	567.5	314.9	283.2	266.8	257.0	238.4	231.8
72.5°	8285.4	6638.6	2630.9	1178.8	570.8	296.3	262.4	248.2	238.4	218.7	213.2
75°	5668.7	5078.2	1825.0	976.5	497.5	270.1	239.5	226.4	219.8	195.7	192.5
77.5°	4141.0	3811.9	1167.8	725.0	383.8	237.3	211.0	201.2	196.8	170.6	166.2
80°	3323.1	3015.8	730.5	496.4	281.0	199.0	177.1	171.7	167.3	141.1	137.8
82.5°	2305.1	2019.7	469.1	322.6	211.0	154.2	140.0	137.8	131.2	107.2	103.9
85°	1216.0	1096.8	297.4	219.8	153.1	106.1	97.3	97.3	94.0	71.1	68.9
87.5°	155.3	252.6	150.9	114.8	84.2	47.0	47.0	45.9	49.2	40.5	35.0
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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	5431.4	5483.9	5433.6	5436.8	5492.6	5658.8	5734.3	5796.6	5863.3	5907.0	5926.7
5°	3936.6	4059.0	4100.6	4188.1	4317.1	4529.2	4613.4	4674.7	4715.1	4739.2	4749.0
7.5°	2692.2	2766.5	2849.6	2990.7	3271.7	3396.4	3452.1	3437.9	3392.0	3375.6	3359.2
10°	2029.5	2000.0	1984.7	2062.3	2289.8	2415.5	2454.9	2416.6	2391.5	2396.9	2424.3
12.5°	1572.4	1521.0	1458.7	1450.0	1599.8	1712.4	1737.6	1739.7	1785.7	1826.1	1886.3
15°	1146.0	1140.5	1109.9	1091.3	1176.6	1268.4	1279.4	1299.1	1340.6	1370.1	1422.6
17.5°	808.1	837.6	861.7	873.7	938.2	1003.8	991.8	982.0	974.3	974.3	999.4
20°	651.7	671.4	702.0	737.0	802.6	848.5	819.0	779.7	751.2	742.5	745.8
22.5°	587.2	602.5	620.0	650.6	709.7	741.4	709.7	681.2	652.8	643.0	639.7
25°	554.4	574.1	590.5	613.4	657.2	679.1	648.4	627.7	610.2	598.1	589.4
27.5°	535.8	553.3	557.7	568.6	605.8	625.5	610.2	601.4	590.5	579.5	568.6
30°	516.1	512.8	505.2	506.3	535.8	555.5	554.4	556.6	555.5	552.2	550.0
32.5°	471.3	464.7	458.2	464.7	492.1	509.6	510.7	515.0	515.0	513.9	522.7
35°	392.6	404.6	412.2	431.9	464.7	480.0	473.5	462.5	442.9	430.8	429.7
37.5°	363.0	365.2	378.3	405.7	441.8	456.0	446.1	421.0	407.9	405.7	409.0
40°	348.8	351.0	358.7	383.8	419.9	434.1	425.4	406.8	394.7	393.7	399.1
42.5°	339.0	341.2	345.5	363.0	392.6	410.1	411.2	398.0	383.8	384.9	390.4
45°	333.5	334.6	333.5	342.3	369.6	390.4	399.1	390.4	378.3	380.5	387.1
47.5°	332.4	329.1	324.8	327.0	355.4	376.2	387.1	383.8	378.3	380.5	386.0
50°	328.0	320.4	314.9	313.8	342.3	364.1	374.0	374.0	376.2	380.5	386.0
52.5°	314.9	306.2	306.2	302.9	333.5	354.3	360.9	361.9	365.2	372.9	380.5
55°	298.5	295.2	298.5	293.1	327.0	346.6	349.9	352.1	354.3	360.9	371.8
57.5°	284.3	279.9	287.6	285.4	321.5	339.0	339.0	343.4	343.4	352.1	360.9
60°	276.7	267.9	271.2	273.4	313.8	332.4	330.2	334.6	336.8	344.4	351.0
62.5°	266.8	259.2	259.2	264.6	305.1	322.6	321.5	324.8	333.5	335.7	342.3
65°	254.8	251.5	248.2	254.8	296.3	311.6	312.7	317.1	324.8	327.0	332.4
67.5°	242.8	243.8	237.3	243.8	288.7	300.7	300.7	309.5	312.7	317.1	322.6
70°	229.6	230.7	225.3	232.9	283.2	288.7	287.6	299.6	301.8	305.1	310.6
72.5°	213.2	213.2	211.0	222.0	274.5	276.7	274.5	284.3	285.4	288.7	290.9
75°	195.7	195.7	193.5	208.9	269.0	263.5	257.0	264.6	266.8	269.0	269.0
77.5°	172.8	175.0	175.0	193.5	250.4	258.1	236.2	240.6	243.8	244.9	241.7
80°	144.3	149.8	152.0	176.1	210.0	238.4	211.0	214.3	215.4	215.4	211.0
82.5°	110.4	120.3	125.8	152.0	160.7	200.1	183.7	187.0	183.7	177.1	175.0
85°	76.5	89.7	96.2	115.9	121.4	154.2	153.1	153.1	146.5	137.8	136.7
87.5°	41.6	49.2	53.6	68.9	83.1	103.9	112.6	109.3	103.9	98.4	99.5
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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	6029.5	6178.2	6415.5	6597.0	6779.6	6955.7	7146.0	7291.4	7415.0	7463.1	7609.6
5°	4848.5	5034.4	5258.6	5663.2	5949.7	6265.7	6630.9	7114.2	7300.1	7557.1	7978.1
7.5°	3428.1	3596.5	3957.3	4284.3	4690.0	5137.2	5630.4	6297.4	6541.3	6953.5	7639.1
10°	2559.9	2755.6	3045.4	3320.9	3678.5	4135.6	4702.0	5447.8	5744.1	6191.3	6980.8
12.5°	2062.3	2293.0	2600.3	2859.5	3136.1	3458.7	4008.7	4826.7	5223.6	5615.1	6413.3
15°	1584.5	1826.1	2111.5	2440.7	2745.8	3093.5	3669.8	4564.2	5021.3	5429.2	6110.4
17.5°	1096.8	1303.4	1663.2	2006.6	2396.9	2842.0	3575.7	4620.0	5165.6	5635.8	6162.9
20°	777.5	895.6	1190.8	1588.8	2075.4	2634.2	3558.2	4913.1	5622.7	6159.6	6499.7
22.5°	653.9	697.6	869.3	1234.6	1796.6	2478.9	3619.5	5324.2	6239.5	6925.1	7036.6
25°	596.0	622.2	711.9	968.8	1548.4	2366.3	3826.1	5936.6	7002.7	7690.5	7670.8
27.5°	564.2	591.6	650.6	817.9	1361.4	2296.3	4032.8	6662.6	7875.3	8521.6	8276.6
30°	554.4	591.6	653.9	770.9	1228.0	2185.9	4202.3	7300.1	8546.7	9082.5	8552.2
32.5°	546.7	552.2	580.6	664.8	1101.1	2056.9	4317.1	7872.0	9203.9	9616.2	8949.1
35°	441.8	469.1	515.0	596.0	1026.8	1979.2	4317.1	8365.2	9851.3	10155.2	9327.5
37.5°	425.4	449.4	489.9	558.8	985.2	1940.9	4230.7	8840.9	10512.8	10766.5	9639.1
40°	416.6	436.3	474.6	530.3	967.7	1897.2	4105.0	9260.8	11159.1	11378.9	9930.0
42.5°	410.1	427.6	463.6	512.8	944.8	1849.1	4003.3	9597.6	11720.0	11901.5	10207.7
45°	406.8	425.4	464.7	521.6	898.8	1785.7	3969.4	9961.7	12181.5	12337.8	10508.4
47.5°	406.8	428.6	470.2	540.2	844.2	1720.1	4075.4	10441.7	12617.8	12694.3	10862.7
50°	403.5	427.6	485.5	521.6	764.3	1637.0	4324.8	11046.4	13090.2	13098.9	11311.1
52.5°	396.9	425.4	522.7	510.7	672.5	1527.6	4661.5	11822.8	13788.9	13841.4	12013.1
55°	389.3	422.1	512.8	485.5	597.0	1397.5	4937.1	12766.5	14770.9	14916.3	13045.3
57.5°	379.4	417.7	496.4	450.5	547.8	1230.2	5036.6	13457.6	15456.5	15821.7	14208.8
60°	370.7	414.4	448.3	429.7	517.2	1089.1	4844.2	13320.9	15409.5	16196.8	15240.0
62.5°	361.9	417.7	409.0	416.6	503.0	998.4	4341.2	12226.3	14629.8	15809.7	16004.3
65°	352.1	388.2	386.0	405.7	499.7	962.3	3598.7	10585.0	13123.0	14586.1	16184.7
67.5°	339.0	358.7	369.6	391.5	510.7	930.6	2904.3	8731.5	11028.9	12752.3	15244.3
70°	324.8	341.2	353.2	374.0	504.1	916.3	2415.5	6885.7	8751.2	10451.6	13388.7
72.5°	306.2	320.4	331.3	351.0	497.5	908.7	2040.5	5545.1	6533.6	7763.8	10885.7
75°	284.3	297.4	305.1	324.8	476.8	832.1	1604.1	4692.2	4889.0	5400.7	8670.3
77.5°	259.2	269.0	275.6	297.4	422.1	692.2	1160.2	3619.5	3796.6	3921.3	6647.3
80°	229.6	239.5	242.8	263.5	349.9	541.3	756.7	2673.6	2839.8	2868.2	4341.2
82.5°	195.7	205.6	205.6	225.3	286.5	389.3	496.4	1831.6	1864.4	1960.6	3068.3
85°	157.5	165.1	165.1	175.0	222.0	290.9	341.2	919.6	909.8	1038.8	2658.3
87.5°	112.6	118.1	123.6	125.8	158.6	192.5	205.6	279.9	184.8	212.1	1706.9
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°	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6	6720.6
2.5°	7720.0	7782.4	7718.9	7673.0	7475.1	7312.2	7094.6	6983.0
5°	8298.5	8457.1	8403.5	8211.0	7797.7	7332.9	6804.8	6566.4
7.5°	8228.5	8597.0	8605.8	8246.0	7636.9	6952.4	6237.3	5898.3
10°	7684.0	8155.2	8289.7	7940.9	7294.7	6529.2	5709.1	5322.0
12.5°	7076.0	7537.4	7640.2	7519.9	6979.7	6211.0	5378.9	4999.4
15°	6578.4	6785.1	6907.6	7012.6	6709.7	6084.2	5360.3	4943.7
17.5°	6275.5	6252.6	6287.6	6470.2	6521.6	6229.6	5644.6	5185.3
20°	6166.2	5815.2	5806.4	6057.9	6433.0	6576.2	6200.1	5649.0
22.5°	6226.3	5657.7	5585.5	5884.1	6480.0	7076.0	6928.4	6299.6
25°	6434.1	5670.8	5612.9	5901.6	6650.6	7608.5	7714.6	7141.6
27.5°	6761.0	5753.9	5677.4	5973.7	6877.0	8055.7	8488.8	7957.3
30°	7071.6	5898.3	5803.2	6115.9	7083.6	8232.9	8963.3	8593.7
32.5°	7448.9	6168.4	6001.1	6377.2	7339.5	8515.0	9386.5	9120.8
35°	7818.5	6553.3	6345.5	6780.7	7624.9	8866.0	9869.8	9794.4
37.5°	8224.1	7056.3	6884.6	7302.3	8015.3	9197.3	10486.6	10583.9
40°	8657.2	7723.3	7519.9	8063.4	8621.1	9612.9	11130.6	11364.6
42.5°	9093.5	8463.6	8220.9	8772.0	9287.0	10022.9	11681.8	12028.4
45°	9593.2	9267.3	9152.5	9748.5	9926.7	10413.3	12088.5	12519.4
47.5°	10174.9	10179.3	10364.1	10602.5	10571.9	10855.1	12497.5	12957.9
50°	10854.0	11317.6	11725.5	11884.0	11236.7	11329.6	13065.0	13545.1
52.5°	11669.7	12679.0	13184.2	13080.3	11952.9	11909.2	13963.9	14354.2
55°	12690.0	14120.2	14622.1	14547.8	12776.3	12698.7	15083.6	15311.0
57.5°	13870.9	15516.6	15978.1	15643.5	13764.9	13564.7	16009.8	16057.9
60°	14908.6	16623.2	17027.8	16657.1	14762.1	14486.6	16588.2	16355.3
62.5°	15486.0	16998.3	17282.6	16883.5	15445.5	15468.5	16715.1	16194.6
65°	15227.9	16050.2	16142.1	16109.3	15269.5	16038.2	16259.1	15452.1
67.5°	13815.2	13653.3	13807.5	14020.7	13760.5	15288.1	14996.1	13834.8
70°	11326.4	10437.4	10744.6	10887.9	11006.0	13155.8	13015.8	11268.4
72.5°	8535.8	7312.2	7554.9	7525.4	8072.1	10552.2	10122.4	8285.4
75°	6048.1	4957.9	4988.5	4976.5	5632.6	8255.8	7329.7	5668.7
77.5°	4231.8	3592.1	3608.5	3676.3	3786.8	6226.3	5236.7	4141.0
80°	2909.8	2726.1	2816.8	2822.3	2624.4	4182.6	3868.8	3323.1
82.5°	2167.3	1895.0	1873.1	1904.9	2056.9	3388.7	2973.2	2305.1
85°	1774.7	1121.9	902.1	1130.7	1822.8	3355.9	1974.8	1216.0
87.5°	999.4	532.5	240.6	446.1	727.2	2222.0	570.8	155.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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