

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: P193862

Luminaire Tested: **GLEON-AF-04-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193862
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 13912 lumens
Efficiency: N/A
Efficacy: 81.4 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

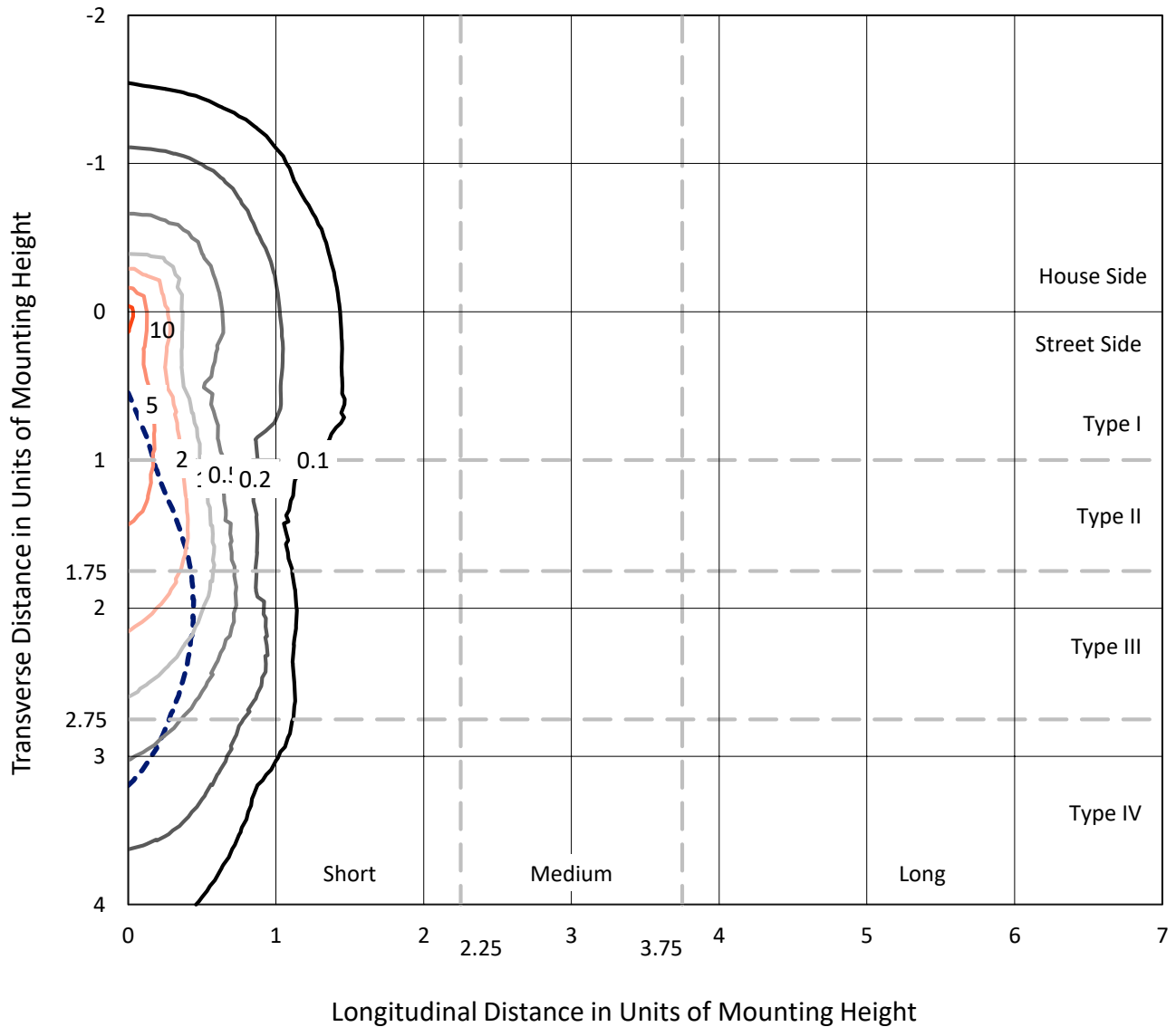


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

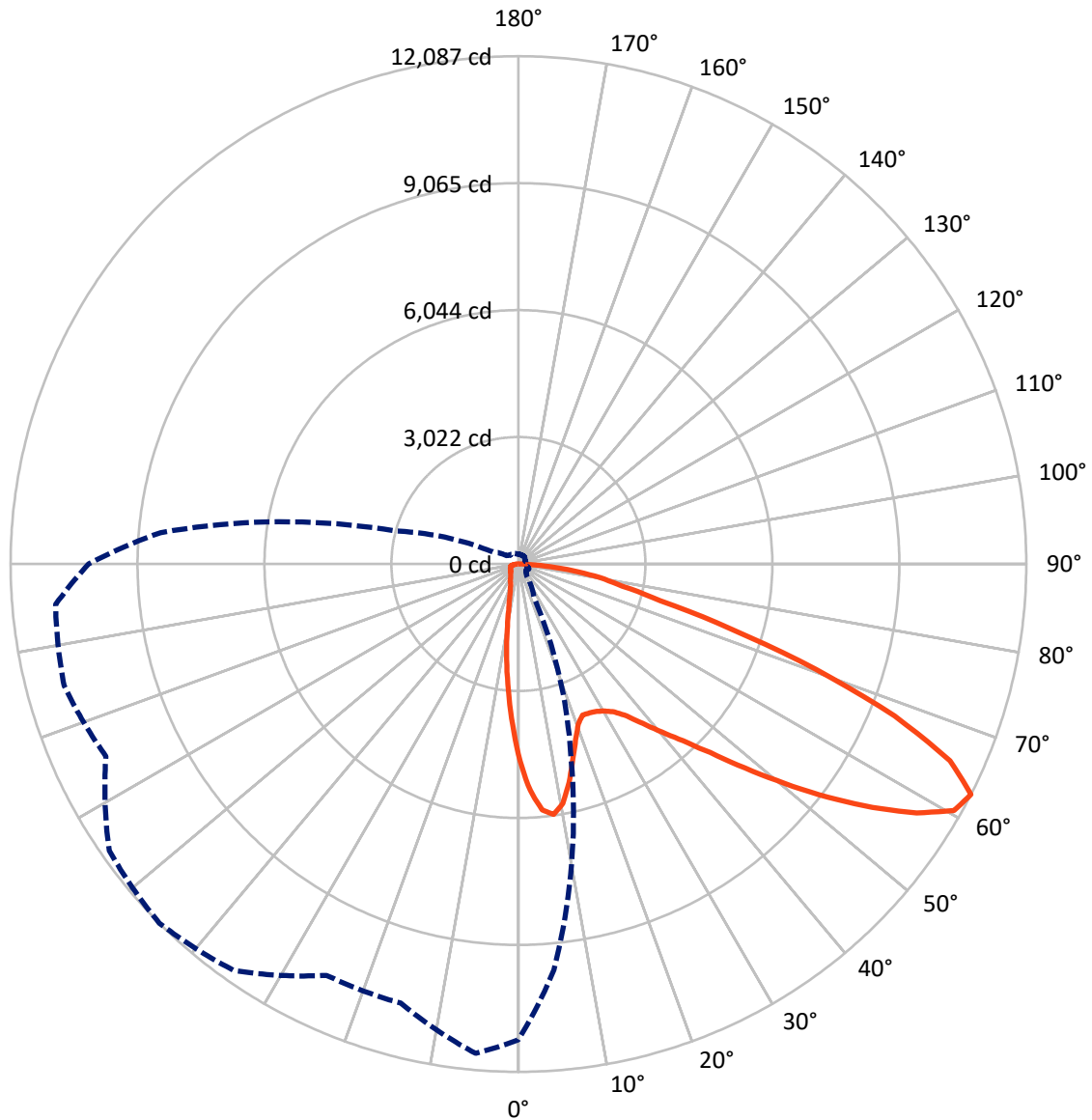


Based on 20 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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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	2302.2	0.0	2302.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11609.8	0.0	11609.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	13912.0	0.0	13912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	2.5
10°-20°	627.4	4.5
20°-30°	914.8	6.6
30°-40°	1408.9	10.1
40°-50°	2073.5	14.9
50°-60°	3041.4	21.9
60°-70°	3399.8	24.4
70°-80°	1664.5	12.0
80°-90°	439.5	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°	13912.0	100.0
0°-180°	13912.0	100.0



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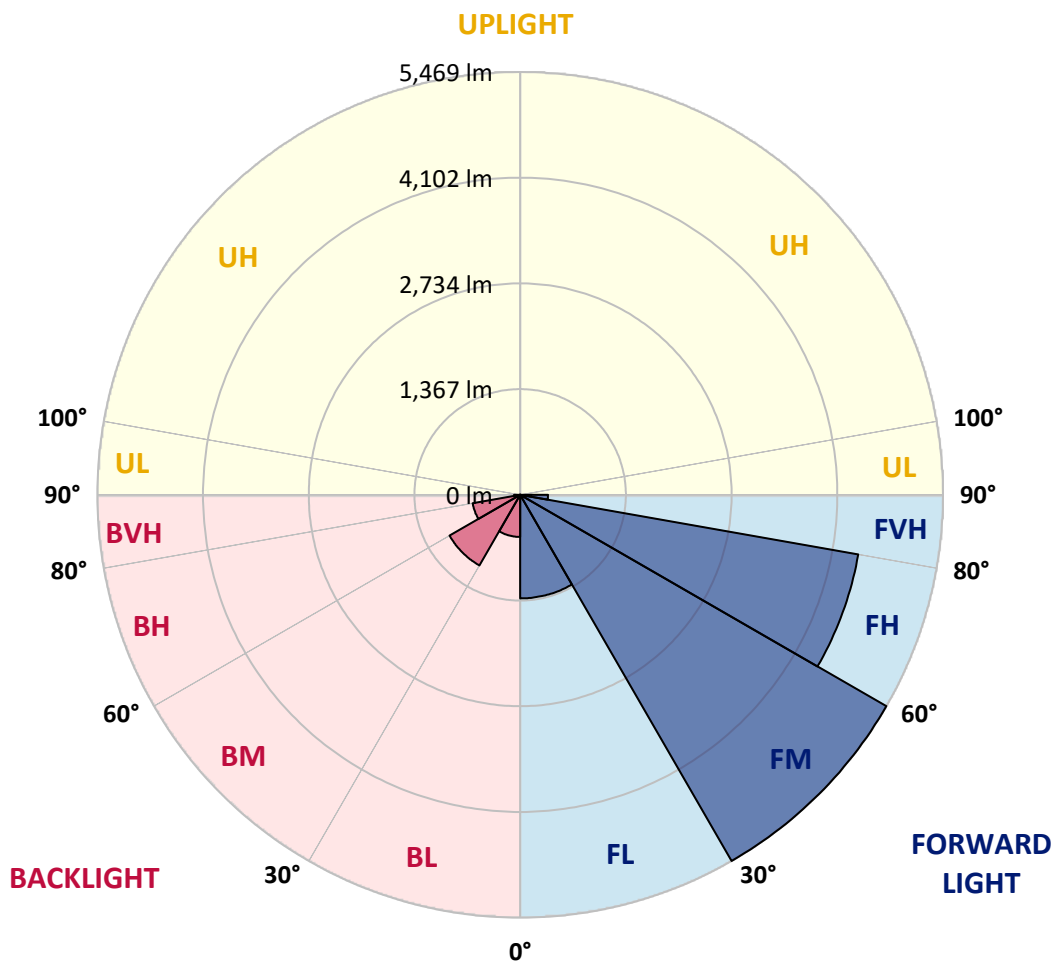
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1339.7	9.6			
FM	(30°-60°)	5468.9	39.3			
FH	(60°-80°)	4440.2	31.9			G2/5000
FVH	(80°-90°)	360.9	2.6			G3/500
BL	(0°-30°)	544.7	3.9	B2/1000		
BM	(30°-60°)	1054.9	7.6	B2/2500		
BH	(60°-80°)	624.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	78.6	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°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4883.8	4784.3	4619.2	4447.1	4342.3	4220.0	4124.4	4040.2	3872.0	3839.1	3868.9
5°	4592.4	4392.8	4081.5	3768.0	3559.2	3335.1	3160.8	3020.8	2807.4	2770.0	2815.1
7.5°	4125.1	3886.5	3475.1	3075.1	2779.9	2500.0	2311.9	2162.0	1995.3	1923.4	1928.0
10°	3722.1	3452.9	2966.5	2531.4	2289.7	2100.8	1942.5	1788.8	1619.8	1508.9	1478.3
12.5°	3496.5	3186.8	2626.2	2237.7	2013.6	1814.8	1644.2	1479.8	1299.3	1186.1	1154.0
15°	3457.5	3121.0	2498.5	2049.6	1768.9	1517.3	1316.2	1132.6	946.8	855.0	835.9
17.5°	3626.5	3238.8	2457.2	1882.1	1538.7	1228.2	981.2	776.2	624.8	578.9	575.1
20°	3950.8	3465.1	2451.8	1724.5	1311.6	947.5	683.7	534.6	468.0	455.0	455.8
22.5°	4405.8	3816.2	2517.6	1606.0	1102.8	706.6	513.9	447.4	421.4	409.1	409.1
25°	4994.7	4299.5	2669.0	1519.6	921.5	564.4	453.5	413.7	389.3	380.9	382.4
27.5°	5565.2	4769.8	2844.9	1451.5	803.0	512.4	429.8	393.9	372.4	364.0	367.9
30°	6010.3	5187.4	2991.7	1359.0	742.6	497.9	438.2	401.5	370.9	357.9	358.7
32.5°	6378.9	5552.9	3114.9	1292.4	689.0	426.7	377.8	361.7	357.9	342.6	335.0
35°	6850.0	5951.4	3197.5	1294.0	663.8	380.9	336.5	308.2	287.6	270.0	270.0
37.5°	7402.1	6408.7	3285.4	1311.6	654.6	354.1	322.0	293.7	274.5	257.7	254.7
40°	7948.2	6856.8	3365.7	1328.4	649.3	338.0	310.5	284.5	266.9	250.1	245.5
42.5°	8412.4	7225.5	3437.6	1336.8	630.9	336.5	302.1	278.4	261.5	243.2	238.6
45°	8755.8	7534.4	3514.8	1349.8	612.6	342.6	302.1	277.6	257.0	239.4	234.8
47.5°	9062.4	7896.9	3644.1	1349.8	590.4	331.1	312.0	278.4	256.2	237.8	234.0
50°	9473.1	8394.0	3888.8	1318.4	559.0	318.9	328.8	275.3	249.3	234.8	230.2
52.5°	10039.0	9031.1	4277.3	1264.2	510.9	295.2	326.6	273.8	242.4	227.1	221.8
55°	10708.2	9713.2	4701.0	1200.7	439.0	278.4	315.1	270.0	234.8	218.0	212.6
57.5°	11230.5	10182.8	4999.2	1102.8	376.3	269.2	279.1	266.1	225.6	208.0	203.4
60°	11438.5	10164.4	5081.1	972.0	345.7	261.5	244.0	298.3	218.0	200.4	195.0
62.5°	11326.1	9694.9	4851.6	880.2	338.8	251.6	228.7	276.1	211.8	195.0	187.4
65°	10806.8	8862.8	4243.7	855.8	358.7	241.7	218.7	216.4	203.4	187.4	179.7
67.5°	9675.8	7619.3	3397.8	858.1	383.9	231.7	208.8	198.1	192.0	179.0	172.1
70°	7880.9	6024.0	2532.9	864.2	396.9	220.3	198.1	186.6	179.7	166.7	162.1
72.5°	5794.6	4642.9	1840.0	824.4	399.2	207.3	183.5	173.6	166.7	153.0	149.1
75°	3964.5	3551.6	1276.4	682.9	348.0	188.9	167.5	158.3	153.7	136.9	134.6
77.5°	2896.2	2666.0	816.8	507.0	268.4	166.0	147.6	140.7	137.7	119.3	116.2
80°	2324.1	2109.2	510.9	347.2	196.5	139.2	123.9	120.1	117.0	98.7	96.4
82.5°	1612.1	1412.5	328.1	225.6	147.6	107.8	97.9	96.4	91.8	74.9	72.7
85°	850.4	767.1	208.0	153.7	107.1	74.2	68.1	68.1	65.8	49.7	48.2
87.5°	108.6	176.7	105.5	80.3	58.9	32.9	32.9	32.1	34.4	28.3	24.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	3798.6	3835.3	3800.1	3802.4	3841.4	3957.6	4010.4	4054.0	4100.7	4131.2	4145.0
5°	2753.1	2838.8	2867.9	2929.0	3019.3	3167.6	3226.5	3269.4	3297.7	3314.5	3321.4
7.5°	1882.8	1934.8	1993.0	2091.6	2288.2	2375.3	2414.4	2404.4	2372.3	2360.8	2349.3
10°	1419.4	1398.7	1388.0	1442.3	1601.4	1689.4	1716.9	1690.1	1672.5	1676.4	1695.5
12.5°	1099.7	1063.8	1020.2	1014.1	1118.8	1197.6	1215.2	1216.7	1248.9	1277.2	1319.2
15°	801.5	797.6	776.2	763.2	822.9	887.1	894.8	908.5	937.6	958.2	995.0
17.5°	565.2	585.8	602.6	611.0	656.2	702.1	693.6	686.8	681.4	681.4	699.0
20°	455.8	469.6	491.0	515.4	561.3	593.5	572.8	545.3	525.4	519.3	521.6
22.5°	410.7	421.4	433.6	455.0	496.3	518.5	496.3	476.4	456.6	449.7	447.4
25°	387.7	401.5	413.0	429.0	459.6	474.9	453.5	439.0	426.7	418.3	412.2
27.5°	374.7	387.0	390.0	397.7	423.7	437.4	426.7	420.6	413.0	405.3	397.7
30°	361.0	358.7	353.3	354.1	374.7	388.5	387.7	389.3	388.5	386.2	384.7
32.5°	329.6	325.0	320.4	325.0	344.1	356.4	357.1	360.2	360.2	359.4	365.6
35°	274.5	283.0	288.3	302.1	325.0	335.7	331.1	323.5	309.7	301.3	300.6
37.5°	253.9	255.4	264.6	283.7	309.0	318.9	312.0	294.4	285.3	283.7	286.0
40°	244.0	245.5	250.8	268.4	293.7	303.6	297.5	284.5	276.1	275.3	279.1
42.5°	237.1	238.6	241.7	253.9	274.5	286.8	287.6	278.4	268.4	269.2	273.0
45°	233.3	234.0	233.3	239.4	258.5	273.0	279.1	273.0	264.6	266.1	270.7
47.5°	232.5	230.2	227.1	228.7	248.5	263.1	270.7	268.4	264.6	266.1	270.0
50°	229.4	224.1	220.3	219.5	239.4	254.7	261.5	261.5	263.1	266.1	270.0
52.5°	220.3	214.1	214.1	211.8	233.3	247.8	252.4	253.1	255.4	260.8	266.1
55°	208.8	206.5	208.8	205.0	228.7	242.4	244.7	246.3	247.8	252.4	260.0
57.5°	198.8	195.8	201.1	199.6	224.8	237.1	237.1	240.1	240.1	246.3	252.4
60°	193.5	187.4	189.7	191.2	219.5	232.5	231.0	234.0	235.5	240.9	245.5
62.5°	186.6	181.2	181.2	185.1	213.4	225.6	224.8	227.1	233.3	234.8	239.4
65°	178.2	175.9	173.6	178.2	207.3	218.0	218.7	221.8	227.1	228.7	232.5
67.5°	169.8	170.5	166.0	170.5	201.9	210.3	210.3	216.4	218.7	221.8	225.6
70°	160.6	161.4	157.5	162.9	198.1	201.9	201.1	209.5	211.1	213.4	217.2
72.5°	149.1	149.1	147.6	155.2	192.0	193.5	192.0	198.8	199.6	201.9	203.4
75°	136.9	136.9	135.4	146.1	188.1	184.3	179.7	185.1	186.6	188.1	188.1
77.5°	120.8	122.4	122.4	135.4	175.1	180.5	165.2	168.2	170.5	171.3	169.0
80°	100.9	104.8	106.3	123.1	146.8	166.7	147.6	149.9	150.7	150.7	147.6
82.5°	77.2	84.1	87.9	106.3	112.4	140.0	128.5	130.8	128.5	123.9	122.4
85°	53.5	62.7	67.3	81.1	84.9	107.8	107.1	107.1	102.5	96.4	95.6
87.5°	29.1	34.4	37.5	48.2	58.1	72.7	78.8	76.5	72.7	68.8	69.6
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°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	4216.9	4320.9	4486.9	4613.8	4741.5	4864.6	4997.7	5099.4	5185.8	5219.5	5322.0
5°	3391.0	3521.0	3677.7	3960.7	4161.1	4382.1	4637.5	4975.5	5105.5	5285.3	5579.7
7.5°	2397.5	2515.3	2767.7	2996.3	3280.1	3592.8	3937.8	4404.3	4574.8	4863.1	5342.6
10°	1790.3	1927.2	2129.9	2322.6	2572.7	2892.3	3288.5	3810.0	4017.3	4330.1	4882.2
12.5°	1442.3	1603.7	1818.6	1999.9	2193.3	2418.9	2803.6	3375.7	3653.3	3927.0	4485.3
15°	1108.1	1277.2	1476.8	1706.9	1920.3	2163.5	2566.5	3192.1	3511.8	3797.0	4273.5
17.5°	767.1	911.6	1163.2	1403.3	1676.4	1987.6	2500.8	3231.1	3612.7	3941.6	4310.2
20°	543.7	626.3	832.8	1111.2	1451.5	1842.3	2488.5	3436.1	3932.4	4307.9	4545.7
22.5°	457.3	487.9	608.0	863.4	1256.5	1733.7	2531.4	3723.6	4363.7	4843.2	4921.2
25°	416.8	435.1	497.9	677.6	1082.9	1654.9	2675.9	4151.9	4897.5	5378.6	5364.8
27.5°	394.6	413.7	455.0	572.0	952.1	1606.0	2820.4	4659.7	5507.8	5959.8	5788.5
30°	387.7	413.7	457.3	539.2	858.8	1528.8	2939.0	5105.5	5977.4	6352.1	5981.2
32.5°	382.4	386.2	406.1	465.0	770.1	1438.5	3019.3	5505.5	6437.0	6725.3	6258.8
35°	309.0	328.1	360.2	416.8	718.1	1384.2	3019.3	5850.4	6889.7	7102.3	6523.4
37.5°	297.5	314.3	342.6	390.8	689.0	1357.5	2958.9	6183.1	7352.4	7529.8	6741.4
40°	291.4	305.1	331.9	370.9	676.8	1326.9	2870.9	6476.8	7804.4	7958.1	6944.8
42.5°	286.8	299.0	324.3	358.7	660.8	1293.2	2799.8	6712.3	8196.7	8323.7	7139.0
45°	284.5	297.5	325.0	364.8	628.6	1248.9	2776.1	6967.0	8519.4	8628.8	7349.4
47.5°	284.5	299.8	328.8	377.8	590.4	1203.0	2850.3	7302.7	8824.6	8878.1	7597.1
50°	282.2	299.0	339.6	364.8	534.6	1144.8	3024.6	7725.6	9155.0	9161.1	7910.7
52.5°	277.6	297.5	365.6	357.1	470.3	1068.4	3260.2	8268.6	9643.6	9680.3	8401.7
55°	272.3	295.2	358.7	339.6	417.6	977.4	3452.9	8928.6	10330.4	10432.1	9123.6
57.5°	265.4	292.1	347.2	315.1	383.1	860.4	3522.5	9411.9	10809.9	11065.3	9937.3
60°	259.3	289.8	313.6	300.6	361.7	761.7	3387.9	9316.3	10777.0	11327.6	10658.5
62.5°	253.1	292.1	286.0	291.4	351.8	698.2	3036.1	8550.8	10231.7	11056.9	11193.0
65°	246.3	271.5	270.0	283.7	349.5	673.0	2516.8	7402.9	9177.9	10201.2	11319.2
67.5°	237.1	250.8	258.5	273.8	357.1	650.8	2031.2	6106.6	7713.4	8918.6	10661.5
70°	227.1	238.6	247.0	261.5	352.6	640.9	1689.4	4815.7	6120.4	7309.6	9363.7
72.5°	214.1	224.1	231.7	245.5	348.0	635.5	1427.0	3878.1	4569.4	5429.8	7613.2
75°	198.8	208.0	213.4	227.1	333.4	582.0	1121.9	3281.6	3419.2	3777.2	6063.8
77.5°	181.2	188.1	192.7	208.0	295.2	484.1	811.4	2531.4	2655.3	2742.4	4649.0
80°	160.6	167.5	169.8	184.3	244.7	378.6	529.2	1869.8	1986.1	2006.0	3036.1
82.5°	136.9	143.8	143.8	157.5	200.4	272.3	347.2	1281.0	1303.9	1371.2	2145.9
85°	110.1	115.5	115.5	122.4	155.2	203.4	238.6	643.2	636.3	726.5	1859.1
87.5°	78.8	82.6	86.4	87.9	110.9	134.6	143.8	195.8	129.2	148.4	1193.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2	4700.2
2.5°	5399.2	5442.8	5398.5	5366.3	5227.9	5114.0	4961.8	4883.8
5°	5803.8	5914.7	5877.2	5742.6	5453.5	5128.5	4759.1	4592.4
7.5°	5754.8	6012.6	6018.7	5767.1	5341.1	4862.4	4362.2	4125.1
10°	5374.0	5703.6	5797.7	5553.7	5101.7	4566.4	3992.8	3722.1
12.5°	4948.8	5271.5	5343.4	5259.3	4881.5	4343.8	3761.9	3496.5
15°	4600.8	4745.3	4831.0	4904.4	4692.6	4255.1	3748.9	3457.5
17.5°	4389.0	4372.9	4397.4	4525.1	4561.0	4356.8	3947.7	3626.5
20°	4312.5	4067.0	4060.9	4236.8	4499.1	4599.3	4336.2	3950.8
22.5°	4354.6	3956.9	3906.4	4115.2	4532.0	4948.8	4845.5	4405.8
25°	4499.9	3966.1	3925.5	4127.4	4651.3	5321.2	5395.4	4994.7
27.5°	4728.5	4024.2	3970.6	4177.9	4809.6	5634.0	5936.8	5565.2
30°	4945.7	4125.1	4058.6	4277.3	4954.1	5757.9	6268.7	6010.3
32.5°	5209.6	4314.0	4197.0	4460.1	5133.1	5955.2	6564.7	6378.9
35°	5468.0	4583.2	4437.9	4742.3	5332.7	6200.7	6902.7	6850.0
37.5°	5751.8	4935.0	4814.9	5107.1	5605.7	6432.4	7334.1	7402.1
40°	6054.6	5401.5	5259.3	5639.3	6029.4	6723.0	7784.5	7948.2
42.5°	6359.8	5919.3	5749.5	6134.9	6495.1	7009.8	8169.9	8412.4
45°	6709.3	6481.4	6401.1	6817.8	6942.5	7282.8	8454.4	8755.8
47.5°	7116.1	7119.2	7248.4	7415.1	7393.7	7591.8	8740.5	9062.4
50°	7591.0	7915.3	8200.5	8311.4	7858.7	7923.7	9137.4	9473.1
52.5°	8161.5	8867.4	9220.7	9148.1	8359.6	8329.0	9766.0	10039.0
55°	8875.1	9875.4	10226.4	10174.4	8935.5	8881.2	10549.1	10708.2
57.5°	9701.0	10852.0	11174.7	10940.7	9626.8	9486.9	11196.9	11230.5
60°	10426.8	11625.9	11908.9	11649.6	10324.3	10131.6	11601.4	11438.5
62.5°	10830.5	11888.2	12087.1	11807.9	10802.3	10818.3	11690.1	11326.1
65°	10650.1	11225.2	11289.4	11266.5	10679.1	11216.8	11371.2	10806.8
67.5°	9662.0	9548.8	9656.6	9805.8	9623.8	10692.1	10487.9	9675.8
70°	7921.4	7299.6	7514.5	7614.7	7697.3	9200.8	9103.0	7880.9
72.5°	5969.7	5114.0	5283.7	5263.1	5645.5	7379.9	7079.4	5794.6
75°	4229.9	3467.4	3488.8	3480.4	3939.3	5773.9	5126.2	3964.5
77.5°	2959.6	2512.2	2523.7	2571.1	2648.4	4354.6	3662.4	2896.2
80°	2035.0	1906.5	1970.0	1973.8	1835.4	2925.2	2705.7	2324.1
82.5°	1515.8	1325.3	1310.0	1332.2	1438.5	2370.0	2079.4	1612.1
85°	1241.2	784.6	630.9	790.8	1274.9	2347.1	1381.2	850.4
87.5°	699.0	372.4	168.2	312.0	508.6	1554.0	399.2	108.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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