

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: P193861

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193861
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-03-LED-E1-SLR-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10529 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 124
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

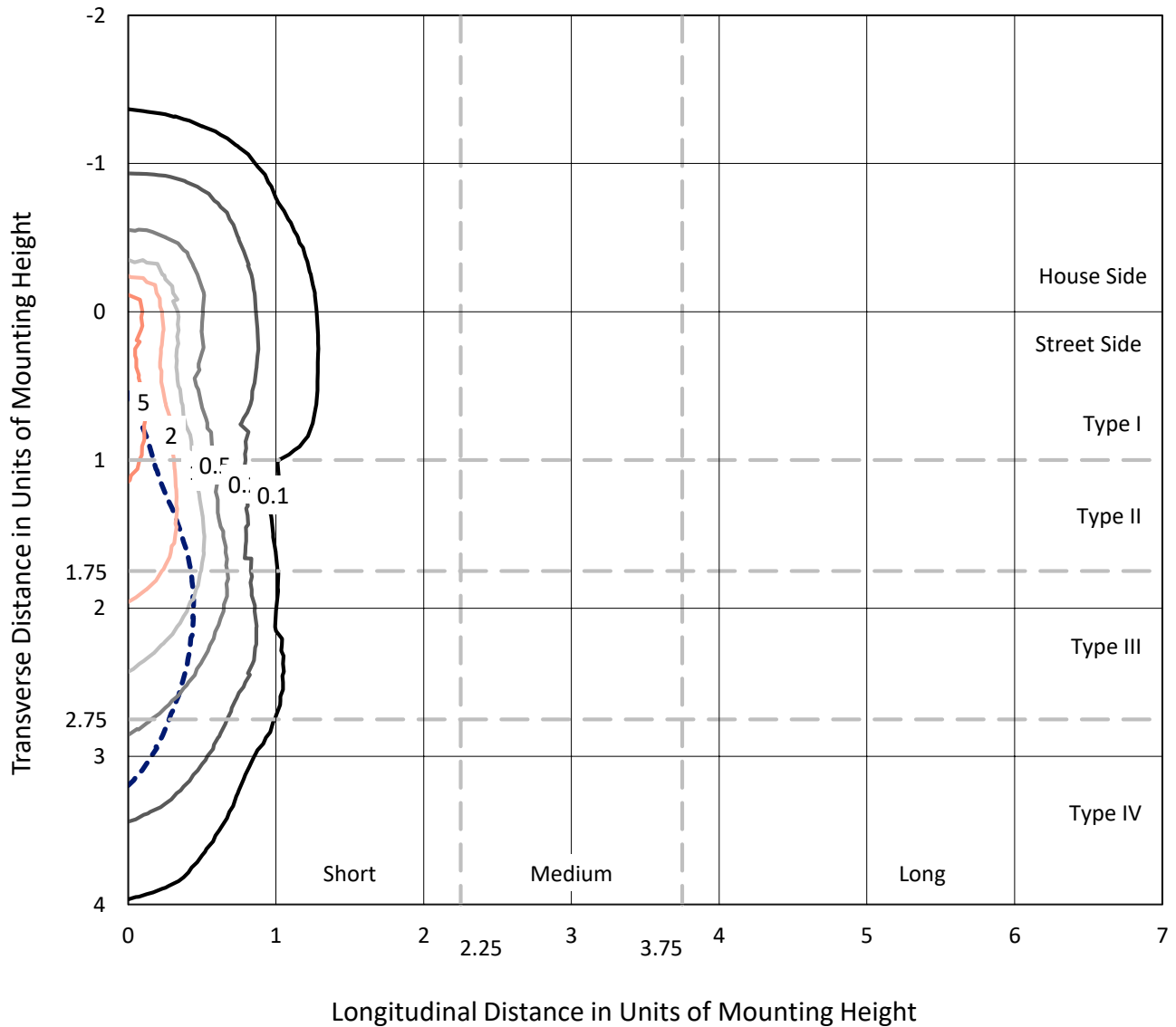


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

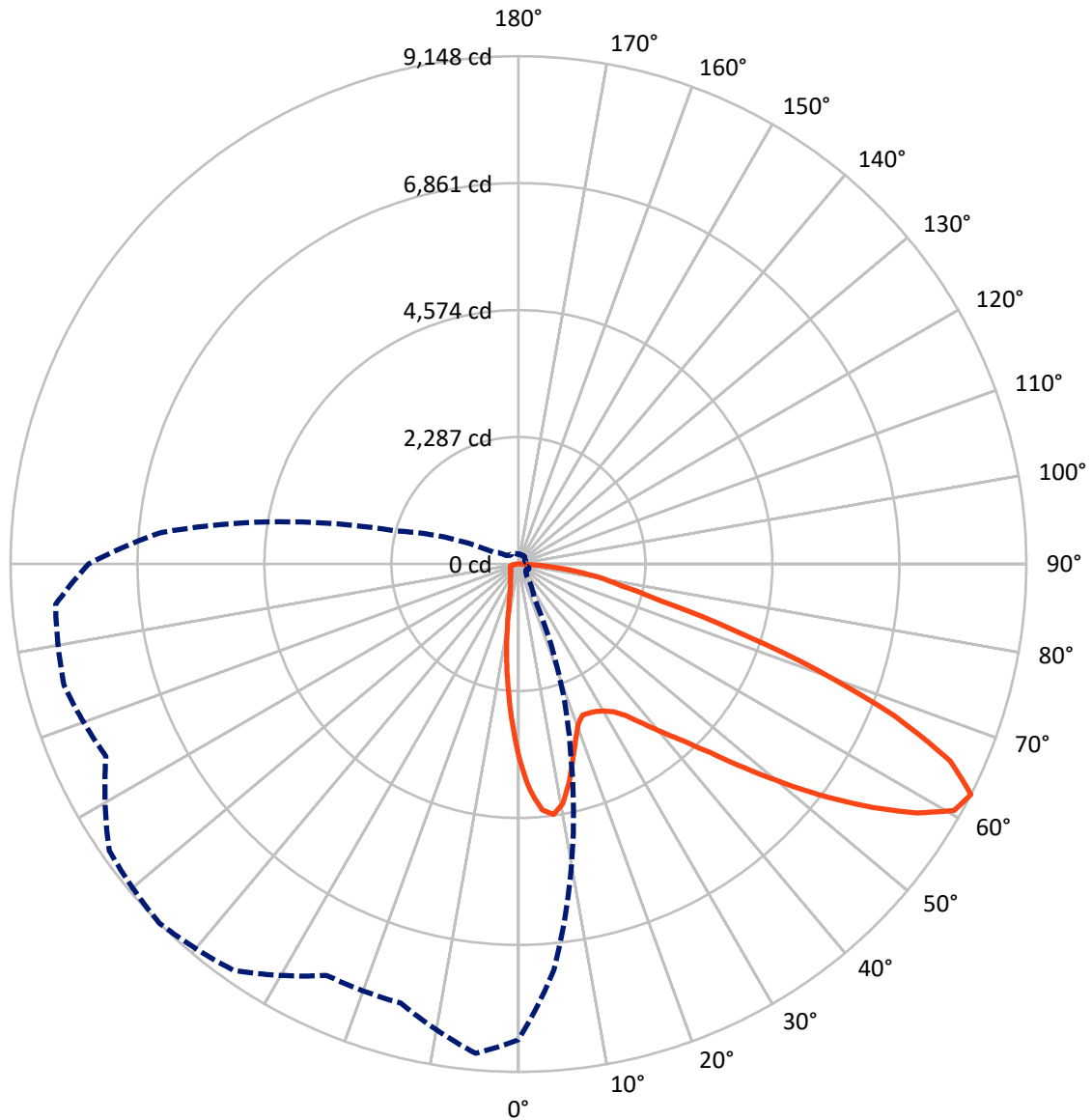


Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

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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	1742.4	0.0	1742.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8786.6	0.0	8786.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	10529.0	0.0	10529.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	2.5
10°-20°	474.8	4.5
20°-30°	692.3	6.6
30°-40°	1066.3	10.1
40°-50°	1569.3	14.9
50°-60°	2301.8	21.9
60°-70°	2573.1	24.4
70°-80°	1259.8	12.0
80°-90°	332.6	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°	10529.0	100.0
0°-180°	10529.0	100.0



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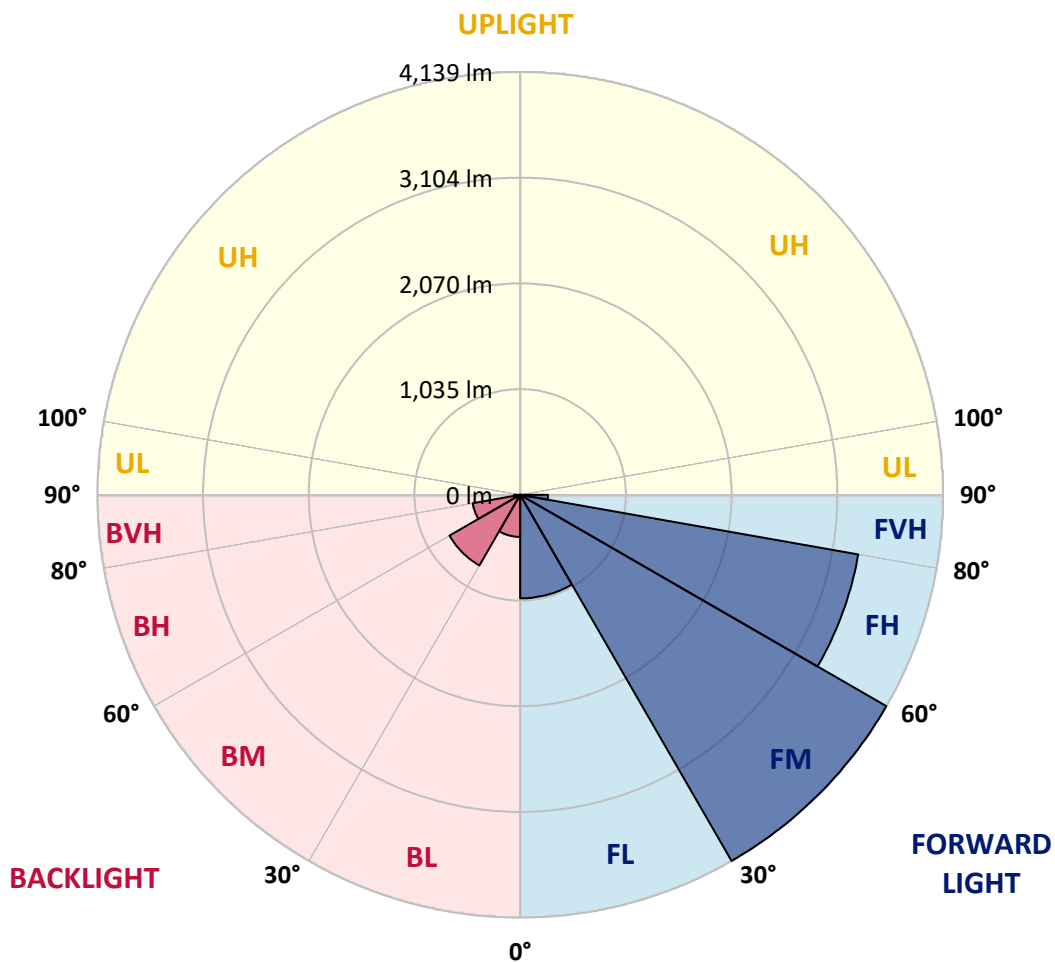
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1013.9	9.6			
FM	(30°-60°)	4139.0	39.3			
FH	(60°-80°)	3360.5	31.9			G2/5000
FVH	(80°-90°)	273.1	2.6			G3/500
BL	(0°-30°)	412.2	3.9	B1/500		
BM	(30°-60°)	798.4	7.6	B1/1000		
BH	(60°-80°)	472.4	4.5	B1/500		G1/500
BVH	(80°-90°)	59.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3696.2	3620.9	3495.9	3365.7	3286.4	3193.8	3121.4	3057.8	2930.4	2905.5	2928.1
5°	3475.7	3324.6	3089.0	2851.7	2693.7	2524.1	2392.2	2286.2	2124.8	2096.4	2130.5
7.5°	3122.0	2941.4	2630.0	2327.3	2103.9	1892.1	1749.7	1636.2	1510.1	1455.7	1459.1
10°	2817.0	2613.3	2245.1	1915.8	1732.9	1589.9	1470.1	1353.8	1225.9	1142.0	1118.8
12.5°	2646.2	2411.8	1987.6	1693.5	1524.0	1373.5	1244.4	1120.0	983.4	897.7	873.4
15°	2616.7	2362.1	1890.9	1551.2	1338.7	1148.3	996.1	857.2	716.5	647.1	632.6
17.5°	2744.6	2451.2	1859.7	1424.4	1164.5	929.5	742.6	587.5	472.9	438.1	435.3
20°	2990.0	2622.5	1855.6	1305.2	992.6	717.1	517.4	404.6	354.2	344.4	345.0
22.5°	3334.4	2888.2	1905.4	1215.5	834.6	534.8	388.9	338.6	318.9	309.7	309.7
25°	3780.1	3254.0	2020.0	1150.1	697.4	427.1	343.2	313.1	294.6	288.2	289.4
27.5°	4211.9	3609.9	2153.1	1098.5	607.7	387.8	325.3	298.1	281.9	275.5	278.4
30°	4548.7	3926.0	2264.2	1028.5	562.0	376.8	331.6	303.9	280.7	270.9	271.5
32.5°	4827.7	4202.6	2357.4	978.2	521.5	323.0	285.9	273.8	270.9	259.3	253.5
35°	5184.3	4504.2	2419.9	979.3	502.4	288.2	254.7	233.3	217.6	204.3	204.3
37.5°	5602.1	4850.3	2486.5	992.6	495.4	268.0	243.7	222.3	207.8	195.1	192.7
40°	6015.4	5189.5	2547.3	1005.4	491.4	255.8	235.0	215.3	202.0	189.3	185.8
42.5°	6366.7	5468.4	2601.7	1011.7	477.5	254.7	228.6	210.7	197.9	184.1	180.6
45°	6626.6	5702.3	2660.1	1021.6	463.6	259.3	228.6	210.1	194.5	181.2	177.7
47.5°	6858.7	5976.6	2757.9	1021.6	446.8	250.6	236.1	210.7	193.9	180.0	177.1
50°	7169.5	6352.8	2943.2	997.8	423.1	241.4	248.9	208.4	188.7	177.7	174.2
52.5°	7597.8	6835.0	3237.2	956.7	386.6	223.4	247.1	207.2	183.5	171.9	167.9
55°	8104.3	7351.3	3557.8	908.7	332.2	210.7	238.5	204.3	177.7	165.0	160.9
57.5°	8499.6	7706.6	3783.6	834.6	284.8	203.7	211.3	201.4	170.7	157.4	154.0
60°	8657.0	7692.7	3845.5	735.6	261.6	197.9	184.6	225.7	165.0	151.6	147.6
62.5°	8571.9	7337.4	3671.9	666.2	256.4	190.4	173.1	208.9	160.3	147.6	141.8
65°	8178.9	6707.6	3211.7	647.7	271.5	182.9	165.5	163.8	154.0	141.8	136.0
67.5°	7322.9	5766.5	2571.6	649.4	290.6	175.4	158.0	149.9	145.3	135.4	130.2
70°	5964.5	4559.2	1917.0	654.0	300.4	166.7	149.9	141.2	136.0	126.2	122.7
72.5°	4385.5	3513.9	1392.6	623.9	302.1	156.9	138.9	131.4	126.2	115.8	112.9
75°	3000.5	2687.9	966.0	516.9	263.4	143.0	126.8	119.8	116.3	103.6	101.9
77.5°	2191.9	2017.7	618.2	383.7	203.2	125.6	111.7	106.5	104.2	90.3	88.0
80°	1759.0	1596.3	386.6	262.8	148.7	105.3	93.8	90.9	88.6	74.7	72.9
82.5°	1220.1	1069.0	248.3	170.7	111.7	81.6	74.1	72.9	69.5	56.7	55.0
85°	643.6	580.5	157.4	116.3	81.0	56.1	51.5	51.5	49.8	37.6	36.5
87.5°	82.2	133.7	79.9	60.8	44.6	24.9	24.9	24.3	26.0	21.4	18.5
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°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	2874.9	2902.6	2876.0	2877.8	2907.3	2995.3	3035.2	3068.2	3103.5	3126.6	3137.1
5°	2083.7	2148.5	2170.5	2216.8	2285.1	2397.4	2441.9	2474.3	2495.8	2508.5	2513.7
7.5°	1425.0	1464.3	1508.3	1583.0	1731.7	1797.7	1827.3	1819.7	1795.4	1786.7	1778.1
10°	1074.2	1058.6	1050.5	1091.6	1212.0	1278.6	1299.4	1279.1	1265.8	1268.7	1283.2
12.5°	832.3	805.1	772.1	767.5	846.8	906.4	919.7	920.9	945.2	966.6	998.4
15°	606.6	603.7	587.5	577.6	622.8	671.4	677.2	687.6	709.6	725.2	753.0
17.5°	427.7	443.4	456.1	462.5	496.6	531.3	525.0	519.8	515.7	515.7	529.0
20°	345.0	355.4	371.6	390.1	424.8	449.1	433.5	412.7	397.6	393.0	394.7
22.5°	310.8	318.9	328.2	344.4	375.6	392.4	375.6	360.6	345.5	340.3	338.6
25°	293.4	303.9	312.5	324.7	347.9	359.4	343.2	332.2	323.0	316.6	312.0
27.5°	283.6	292.9	295.2	301.0	320.7	331.1	323.0	318.3	312.5	306.8	301.0
30°	273.2	271.5	267.4	268.0	283.6	294.0	293.4	294.6	294.0	292.3	291.1
32.5°	249.5	246.0	242.5	246.0	260.5	269.7	270.3	272.6	272.6	272.0	276.7
35°	207.8	214.2	218.2	228.6	246.0	254.1	250.6	244.8	234.4	228.0	227.5
37.5°	192.2	193.3	200.3	214.7	233.8	241.4	236.1	222.8	215.9	214.7	216.5
40°	184.6	185.8	189.8	203.2	222.3	229.8	225.2	215.3	208.9	208.4	211.3
42.5°	179.4	180.6	182.9	192.2	207.8	217.0	217.6	210.7	203.2	203.7	206.6
45°	176.5	177.1	176.5	181.2	195.6	206.6	211.3	206.6	200.3	201.4	204.9
47.5°	176.0	174.2	171.9	173.1	188.1	199.1	204.9	203.2	200.3	201.4	204.3
50°	173.6	169.6	166.7	166.1	181.2	192.7	197.9	197.9	199.1	201.4	204.3
52.5°	166.7	162.1	162.1	160.3	176.5	187.5	191.0	191.6	193.3	197.4	201.4
55°	158.0	156.3	158.0	155.1	173.1	183.5	185.2	186.4	187.5	191.0	196.8
57.5°	150.5	148.2	152.2	151.1	170.2	179.4	179.4	181.7	181.7	186.4	191.0
60°	146.4	141.8	143.5	144.7	166.1	176.0	174.8	177.1	178.3	182.3	185.8
62.5°	141.2	137.2	137.2	140.1	161.5	170.7	170.2	171.9	176.5	177.7	181.2
65°	134.9	133.1	131.4	134.9	156.9	165.0	165.5	167.9	171.9	173.1	176.0
67.5°	128.5	129.1	125.6	129.1	152.8	159.2	159.2	163.8	165.5	167.9	170.7
70°	121.5	122.1	119.2	123.3	149.9	152.8	152.2	158.6	159.7	161.5	164.4
72.5°	112.9	112.9	111.7	117.5	145.3	146.4	145.3	150.5	151.1	152.8	154.0
75°	103.6	103.6	102.4	110.5	142.4	139.5	136.0	140.1	141.2	142.4	142.4
77.5°	91.4	92.6	92.6	102.4	132.5	136.6	125.0	127.3	129.1	129.6	127.9
80°	76.4	79.3	80.5	93.2	111.1	126.2	111.7	113.4	114.0	114.0	111.7
82.5°	58.5	63.7	66.6	80.5	85.1	105.9	97.2	99.0	97.2	93.8	92.6
85°	40.5	47.5	50.9	61.4	64.2	81.6	81.0	81.0	77.6	72.9	72.3
87.5°	22.0	26.0	28.4	36.5	44.0	55.0	59.6	57.9	55.0	52.1	52.7
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°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	3191.5	3270.2	3395.8	3491.9	3588.5	3681.7	3782.4	3859.4	3924.8	3950.3	4027.8
5°	2566.4	2664.8	2783.4	2997.6	3149.2	3316.5	3509.8	3765.6	3864.0	4000.0	4222.9
7.5°	1814.5	1903.7	2094.7	2267.7	2482.4	2719.2	2980.2	3333.3	3462.3	3680.5	4043.4
10°	1355.0	1458.6	1611.9	1757.8	1947.1	2189.0	2488.8	2883.5	3040.4	3277.1	3695.0
12.5°	1091.6	1213.7	1376.4	1513.5	1660.0	1830.7	2121.9	2554.8	2764.9	2972.1	3394.6
15°	838.7	966.6	1117.6	1291.9	1453.3	1637.4	1942.4	2415.9	2657.8	2873.7	3234.3
17.5°	580.5	689.9	880.3	1062.1	1268.7	1504.3	1892.7	2445.4	2734.2	2983.1	3262.1
20°	411.5	474.0	630.3	841.0	1098.5	1394.3	1883.4	2600.5	2976.2	3260.3	3440.3
22.5°	346.1	369.3	460.1	653.5	951.0	1312.1	1915.8	2818.1	3302.6	3665.5	3724.5
25°	315.4	329.3	376.8	512.8	819.6	1252.5	2025.2	3142.3	3706.6	4070.7	4060.2
27.5°	298.7	313.1	344.4	432.9	720.6	1215.5	2134.6	3526.6	4168.5	4510.5	4380.9
30°	293.4	313.1	346.1	408.0	650.0	1157.0	2224.3	3864.0	4523.8	4807.5	4526.7
32.5°	289.4	292.3	307.3	351.9	582.8	1088.7	2285.1	4166.7	4871.7	5089.9	4736.8
35°	233.8	248.3	272.6	315.4	543.5	1047.6	2285.1	4427.8	5214.3	5375.3	4937.1
37.5°	225.2	237.9	259.3	295.8	521.5	1027.4	2239.4	4679.5	5564.5	5698.8	5102.1
40°	220.5	230.9	251.2	280.7	512.2	1004.2	2172.8	4901.8	5906.6	6022.9	5256.0
42.5°	217.0	226.3	245.4	271.5	500.1	978.7	2119.0	5080.1	6203.5	6299.6	5403.0
45°	215.3	225.2	246.0	276.1	475.8	945.2	2101.0	5272.8	6447.8	6530.5	5562.2
47.5°	215.3	226.9	248.9	285.9	446.8	910.4	2157.2	5526.9	6678.7	6719.2	5749.7
50°	213.6	226.3	257.0	276.1	404.6	866.5	2289.1	5847.0	6928.7	6933.4	5987.0
52.5°	210.1	225.2	276.7	270.3	356.0	808.6	2467.4	6257.9	7298.6	7326.4	6358.6
55°	206.1	223.4	271.5	257.0	316.0	739.7	2613.3	6757.4	7818.3	7895.3	6905.0
57.5°	200.8	221.1	262.8	238.5	290.0	651.1	2665.9	7123.2	8181.2	8374.6	7520.8
60°	196.2	219.4	237.3	227.5	273.8	576.5	2564.1	7050.9	8156.4	8573.1	8066.6
62.5°	191.6	221.1	216.5	220.5	266.2	528.4	2297.8	6471.5	7743.7	8368.2	8471.2
65°	186.4	205.5	204.3	214.7	264.5	509.3	1904.8	5602.7	6946.1	7720.5	8566.7
67.5°	179.4	189.8	195.6	207.2	270.3	492.6	1537.3	4621.7	5837.7	6749.9	8069.0
70°	171.9	180.6	187.0	197.9	266.8	485.0	1278.6	3644.7	4632.1	5532.1	7086.7
72.5°	162.1	169.6	175.4	185.8	263.4	481.0	1080.0	2935.1	3458.3	4109.4	5761.9
75°	150.5	157.4	161.5	171.9	252.4	440.5	849.1	2483.6	2587.8	2858.7	4589.3
77.5°	137.2	142.4	145.9	157.4	223.4	366.4	614.1	1915.8	2009.6	2075.6	3518.5
80°	121.5	126.8	128.5	139.5	185.2	286.5	400.5	1415.1	1503.1	1518.2	2297.8
82.5°	103.6	108.8	108.8	119.2	151.6	206.1	262.8	969.5	986.8	1037.8	1624.1
85°	83.3	87.4	87.4	92.6	117.5	154.0	180.6	486.8	481.6	549.9	1407.0
87.5°	59.6	62.5	65.4	66.6	83.9	101.9	108.8	148.2	97.8	112.3	903.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3	3557.3
2.5°	4086.3	4119.3	4085.7	4061.4	3956.6	3870.4	3755.2	3696.2
5°	4392.5	4476.4	4448.0	4346.2	4127.4	3881.4	3601.8	3475.7
7.5°	4355.4	4550.5	4555.1	4364.7	4042.3	3680.0	3301.4	3122.0
10°	4067.2	4316.6	4387.8	4203.2	3861.1	3456.0	3021.9	2817.0
12.5°	3745.4	3989.6	4044.0	3980.4	3694.4	3287.5	2847.1	2646.2
15°	3482.0	3591.4	3656.2	3711.8	3551.5	3220.4	2837.2	2616.7
17.5°	3321.7	3309.5	3328.1	3424.7	3451.9	3297.4	2987.7	2744.6
20°	3263.8	3078.0	3073.4	3206.5	3405.0	3480.9	3281.8	2990.0
22.5°	3295.6	2994.7	2956.5	3114.5	3429.9	3745.4	3667.2	3334.4
25°	3405.6	3001.6	2970.9	3123.7	3520.2	4027.2	4083.4	3780.1
27.5°	3578.7	3045.6	3005.1	3161.9	3640.0	4264.0	4493.2	4211.9
30°	3743.1	3122.0	3071.7	3237.2	3749.4	4357.7	4744.4	4548.7
32.5°	3942.7	3265.0	3176.4	3375.5	3884.9	4507.1	4968.4	4827.7
35°	4138.4	3468.7	3358.7	3589.1	4035.9	4692.9	5224.2	5184.3
37.5°	4353.1	3735.0	3644.1	3865.2	4242.6	4868.2	5550.6	5602.1
40°	4582.3	4088.0	3980.4	4268.0	4563.2	5088.2	5891.5	6015.4
42.5°	4813.2	4479.9	4351.4	4643.1	4915.7	5305.2	6183.2	6366.7
45°	5077.8	4905.3	4844.5	5159.9	5254.3	5511.8	6398.6	6626.6
47.5°	5385.7	5388.0	5485.8	5612.0	5595.8	5745.7	6615.0	6858.7
50°	5745.1	5990.5	6206.4	6290.3	5947.7	5996.9	6915.4	7169.5
52.5°	6176.9	6711.1	6978.5	6923.5	6326.8	6303.6	7391.2	7597.8
55°	6716.9	7474.0	7739.6	7700.3	6762.6	6721.5	7983.9	8104.3
57.5°	7342.0	8213.1	8457.3	8280.2	7285.8	7179.9	8474.1	8499.6
60°	7891.3	8798.8	9013.0	8816.8	7813.7	7667.9	8780.3	8657.0
62.5°	8196.9	8997.3	9147.8	8936.6	8175.5	8187.6	8847.4	8571.9
65°	8060.3	8495.5	8544.1	8526.8	8082.3	8489.2	8606.1	8178.9
67.5°	7312.5	7226.8	7308.4	7421.3	7283.5	8092.1	7937.6	7322.9
70°	5995.1	5524.6	5687.2	5763.0	5825.6	6963.5	6889.4	5964.5
72.5°	4518.1	3870.4	3998.9	3983.3	4272.7	5585.4	5357.9	4385.5
75°	3201.3	2624.2	2640.5	2634.1	2981.4	4369.9	3879.7	3000.5
77.5°	2239.9	1901.3	1910.0	1945.9	2004.4	3295.6	2771.8	2191.9
80°	1540.2	1442.9	1491.0	1493.9	1389.1	2213.9	2047.8	1759.0
82.5°	1147.2	1003.0	991.5	1008.3	1088.7	1793.7	1573.7	1220.1
85°	939.4	593.8	477.5	598.5	964.8	1776.3	1045.3	643.6
87.5°	529.0	281.9	127.3	236.1	384.9	1176.1	302.1	82.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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