

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: P193080

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193080
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-02-LED-E1-SLR-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11355.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



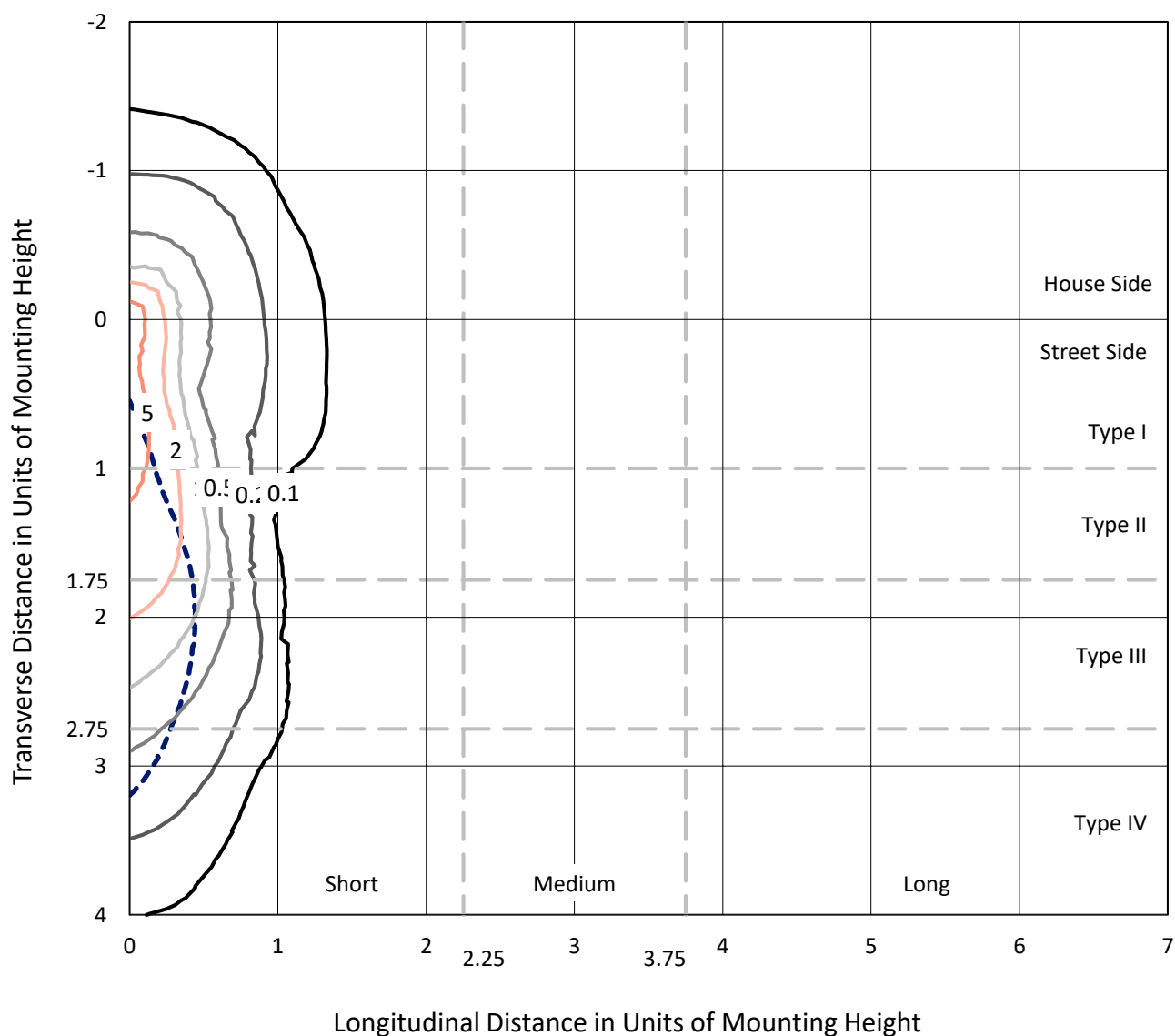
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

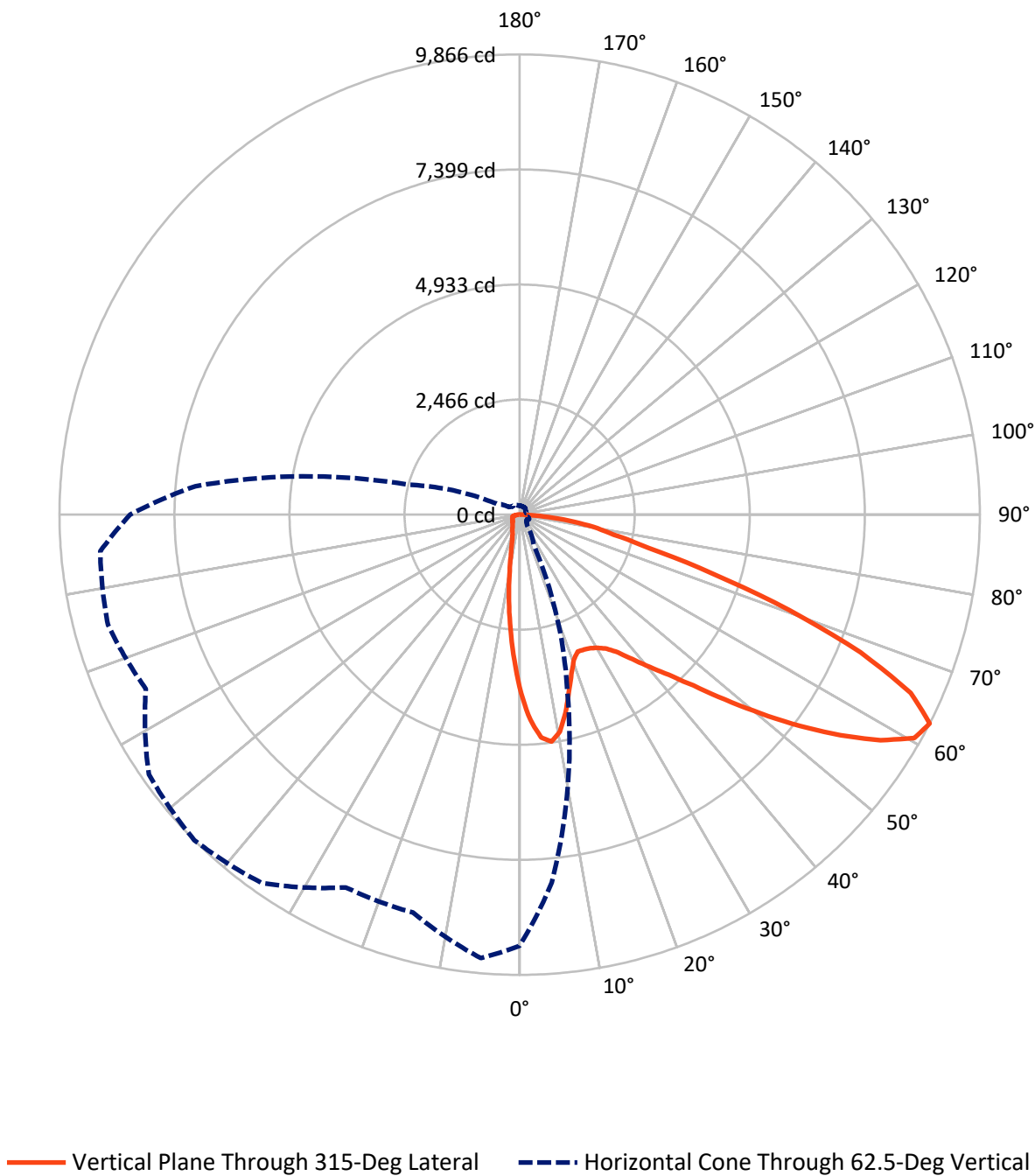


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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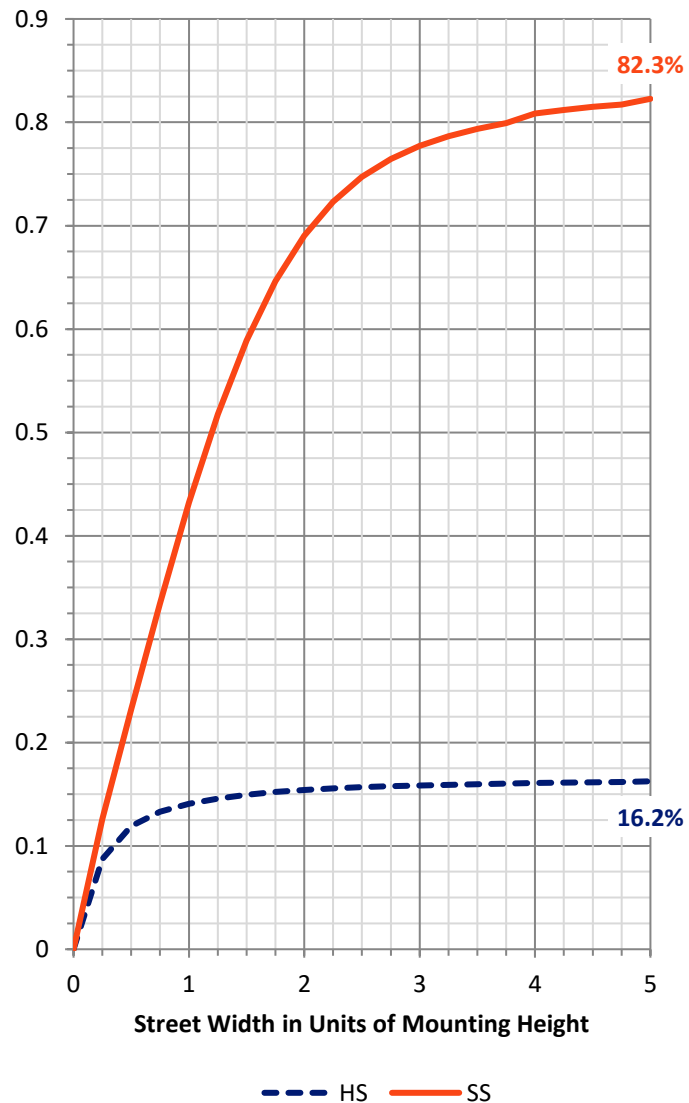
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.2	0.0	1879.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9476.2	0.0	9476.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	11355.3	0.0	11355.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	2.5
10°-20°	512.1	4.5
20°-30°	746.7	6.6
30°-40°	1150.0	10.1
40°-50°	1692.5	14.9
50°-60°	2482.5	21.9
60°-70°	2775.0	24.4
70°-80°	1358.6	12.0
80°-90°	358.7	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°	11355.3	100.0
0°-180°	11355.3	100.0

Coefficient of Utilization



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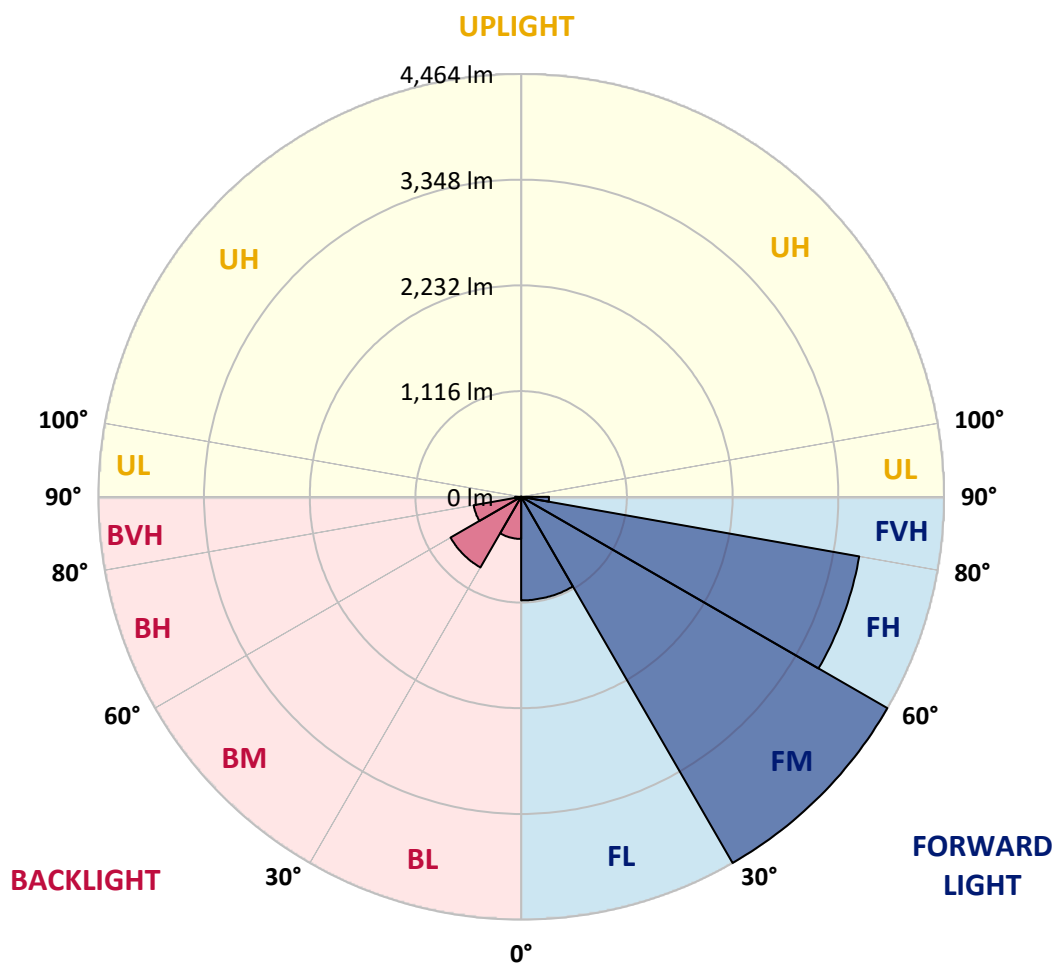
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.5	9.6			
FM	(30°-60°)	4463.9	39.3			
FH	(60°-80°)	3624.2	31.9			G2/5000
FVH	(80°-90°)	294.6	2.6			G3/500
BL	(0°-30°)	444.6	3.9	B1/500		
BM	(30°-60°)	861.0	7.6	B1/1000		
BH	(60°-80°)	509.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	64.1	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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3986.3	3905.2	3770.3	3629.8	3544.3	3444.4	3366.4	3297.8	3160.5	3133.5	3157.9
5°	3748.4	3585.5	3331.5	3075.5	2905.1	2722.2	2579.9	2465.7	2291.5	2260.9	2297.7
7.5°	3367.1	3172.3	2836.5	2510.0	2269.0	2040.5	1887.0	1764.6	1628.6	1569.9	1573.7
10°	3038.1	2818.4	2421.3	2066.2	1868.9	1714.8	1585.5	1460.0	1322.0	1231.6	1206.7
12.5°	2854.0	2601.1	2143.5	1826.5	1643.6	1481.2	1342.0	1207.9	1060.6	968.1	942.0
15°	2822.0	2547.4	2039.4	1672.9	1443.9	1238.5	1074.2	924.5	772.8	697.8	682.3
17.5°	2960.1	2643.5	2005.6	1536.1	1255.9	1002.5	800.9	633.6	510.0	472.5	469.4
20°	3224.7	2828.2	2001.2	1407.6	1070.5	773.4	558.1	436.4	382.0	371.4	372.0
22.5°	3596.2	3114.9	2054.9	1310.9	900.1	576.8	419.4	365.2	343.9	334.0	334.0
25°	4076.8	3509.3	2178.5	1240.3	752.1	460.6	370.2	337.7	317.7	310.9	312.2
27.5°	4542.5	3893.2	2322.1	1184.8	655.4	418.3	350.8	321.4	304.0	297.0	300.3
30°	4905.7	4234.1	2442.0	1109.2	606.1	406.3	357.8	327.7	302.7	292.2	292.7
32.5°	5206.6	4532.4	2542.5	1054.9	562.4	348.3	308.3	295.2	292.2	279.7	273.3
35°	5591.2	4857.6	2609.8	1056.2	541.8	310.9	274.7	251.6	234.7	220.3	220.3
37.5°	6041.8	5230.9	2681.7	1070.5	534.3	289.0	262.8	239.8	224.1	210.4	207.8
40°	6487.5	5596.7	2747.3	1084.3	529.9	275.9	253.5	232.1	217.9	204.1	200.4
42.5°	6866.4	5897.6	2805.9	1091.2	514.9	274.7	246.6	227.3	213.5	198.6	194.8
45°	7146.6	6149.7	2868.9	1101.8	500.0	279.7	246.6	226.6	209.8	195.3	191.6
47.5°	7397.0	6445.6	2974.4	1101.8	482.0	270.3	254.7	227.3	209.1	194.2	190.9
50°	7732.2	6851.4	3174.1	1076.2	456.2	260.2	268.4	224.7	203.4	191.6	187.9
52.5°	8194.1	7371.4	3491.3	1031.9	417.0	240.9	266.6	223.4	197.9	185.4	181.1
55°	8740.3	7928.2	3837.0	980.0	358.3	227.3	257.2	220.3	191.6	177.9	173.5
57.5°	9166.7	8311.5	4080.5	900.1	307.1	219.7	227.8	217.2	184.1	169.8	166.1
60°	9336.4	8296.5	4147.3	793.3	282.1	213.5	199.2	243.4	177.9	163.6	159.2
62.5°	9244.7	7913.2	3960.0	718.5	276.5	205.4	186.7	225.3	172.9	159.2	153.0
65°	8820.8	7234.0	3463.7	698.5	292.7	197.2	178.5	176.7	166.1	153.0	146.7
67.5°	7897.6	6219.0	2773.4	700.4	313.3	189.1	170.5	161.7	156.7	146.1	140.4
70°	6432.5	4917.0	2067.4	705.4	324.0	179.7	161.7	152.3	146.7	136.0	132.3
72.5°	4729.8	3789.6	1501.9	672.9	325.8	169.2	149.8	141.7	136.0	124.9	121.8
75°	3235.9	2898.8	1041.8	557.4	284.0	154.2	136.7	129.3	125.4	111.8	110.0
77.5°	2364.0	2176.0	666.7	413.9	219.1	135.5	120.5	114.8	112.3	97.4	94.8
80°	1897.0	1721.6	417.0	283.4	160.4	113.6	101.2	98.0	95.5	80.6	78.6
82.5°	1315.8	1152.9	267.8	184.1	120.5	88.1	79.9	78.6	75.0	61.1	59.3
85°	694.2	626.0	169.8	125.4	87.4	60.5	55.5	55.5	53.6	40.5	39.4
87.5°	88.6	144.2	86.1	65.5	48.1	26.9	26.9	26.2	28.1	23.1	20.0
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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3100.4	3130.5	3101.8	3103.6	3135.4	3230.4	3273.4	3309.0	3347.0	3372.1	3383.2
5°	2247.1	2317.1	2340.8	2390.7	2464.5	2585.5	2633.5	2668.5	2691.6	2705.4	2710.9
7.5°	1536.8	1579.3	1626.8	1707.2	1867.7	1938.8	1970.6	1962.6	1936.3	1927.0	1917.6
10°	1158.5	1141.6	1132.9	1177.3	1307.1	1378.9	1401.4	1379.5	1365.2	1368.3	1383.9
12.5°	897.7	868.3	832.7	827.7	913.2	977.6	991.8	993.1	1019.4	1042.5	1076.8
15°	654.1	651.0	633.6	623.0	671.6	724.1	730.3	741.6	765.3	782.2	812.2
17.5°	461.3	478.1	491.8	498.8	535.6	573.1	566.2	560.5	556.1	556.1	570.6
20°	372.0	383.3	400.8	420.7	458.2	484.3	467.5	445.0	428.9	423.8	425.7
22.5°	335.2	343.9	353.9	371.4	405.2	423.3	405.2	388.9	372.7	367.0	365.2
25°	316.6	327.7	337.1	350.1	375.2	387.7	370.2	358.3	348.3	341.4	336.4
27.5°	305.8	315.9	318.4	324.6	345.8	357.1	348.3	343.3	337.1	330.8	324.6
30°	294.7	292.7	288.3	289.0	305.8	317.1	316.6	317.7	317.1	315.2	314.0
32.5°	269.0	265.3	261.5	265.3	280.9	290.8	291.5	294.0	294.0	293.4	298.4
35°	224.1	231.0	235.4	246.6	265.3	274.0	270.3	264.1	252.8	246.0	245.3
37.5°	207.3	208.4	216.0	231.6	252.2	260.2	254.7	240.4	232.8	231.6	233.5
40°	199.2	200.4	204.8	219.1	239.8	247.8	242.8	232.1	225.3	224.7	227.8
42.5°	193.5	194.8	197.2	207.3	224.1	234.1	234.7	227.3	219.1	219.7	222.9
45°	190.4	190.9	190.4	195.3	211.0	222.9	227.8	222.9	216.0	217.2	220.9
47.5°	189.8	187.9	185.4	186.7	202.9	214.7	220.9	219.1	216.0	217.2	220.3
50°	187.3	182.9	179.7	179.1	195.3	207.8	213.5	213.5	214.7	217.2	220.3
52.5°	179.7	174.9	174.9	172.9	190.4	202.2	206.0	206.6	208.4	212.8	217.2
55°	170.5	168.6	170.5	167.2	186.7	197.9	199.7	201.0	202.2	206.0	212.2
57.5°	162.2	159.8	164.2	162.9	183.5	193.5	193.5	196.0	196.0	201.0	206.0
60°	157.9	153.0	154.8	156.0	179.1	189.8	188.5	190.9	192.3	196.6	200.4
62.5°	152.3	147.9	147.9	151.1	174.2	184.1	183.5	185.4	190.4	191.6	195.3
65°	145.5	143.5	141.7	145.5	169.2	177.9	178.5	181.1	185.4	186.7	189.8
67.5°	138.5	139.2	135.5	139.2	164.8	171.6	171.6	176.7	178.5	181.1	184.1
70°	131.1	131.6	128.6	133.0	161.7	164.8	164.2	171.0	172.3	174.2	177.3
72.5°	121.8	121.8	120.5	126.7	156.7	157.9	156.7	162.2	162.9	164.8	166.1
75°	111.8	111.8	110.5	119.2	153.5	150.4	146.7	151.1	152.3	153.5	153.5
77.5°	98.7	99.9	99.9	110.5	142.9	147.3	134.8	137.3	139.2	139.9	138.0
80°	82.4	85.5	86.8	100.5	119.8	136.0	120.5	122.4	122.9	122.9	120.5
82.5°	63.1	68.7	71.8	86.8	91.8	114.2	104.9	106.7	104.9	101.2	99.9
85°	43.7	51.2	54.9	66.2	69.3	88.1	87.4	87.4	83.7	78.6	78.0
87.5°	23.7	28.1	30.6	39.4	47.4	59.3	64.3	62.4	59.3	56.2	56.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3441.8	3526.8	3662.3	3765.9	3870.2	3970.6	4079.3	4162.2	4232.8	4260.2	4343.9
5°	2767.7	2873.8	3001.9	3232.9	3396.4	3576.7	3785.3	4061.1	4167.2	4314.0	4554.3
7.5°	1957.0	2053.1	2259.1	2445.7	2677.3	2932.5	3214.1	3594.8	3734.1	3969.4	4360.7
10°	1461.4	1573.0	1738.5	1895.7	2099.9	2360.8	2684.2	3109.8	3279.0	3534.3	3985.0
12.5°	1177.3	1309.0	1484.4	1632.4	1790.2	1974.5	2288.3	2755.3	2981.9	3205.3	3661.1
15°	904.4	1042.5	1205.3	1393.3	1567.5	1765.9	2094.8	2605.5	2866.4	3099.2	3488.1
17.5°	626.0	744.0	949.5	1145.5	1368.3	1622.4	2041.2	2637.3	2948.8	3217.2	3518.0
20°	443.8	511.3	679.8	907.0	1184.8	1503.7	2031.2	2804.5	3209.7	3516.2	3710.3
22.5°	373.2	398.2	496.2	704.7	1025.6	1415.1	2066.2	3039.3	3561.8	3953.2	4016.8
25°	340.3	355.2	406.3	553.1	883.9	1350.8	2184.1	3388.9	3997.5	4390.1	4378.9
27.5°	322.1	337.7	371.4	466.9	777.2	1310.9	2302.1	3803.4	4495.6	4864.6	4724.7
30°	316.6	337.7	373.2	440.1	701.0	1247.8	2398.9	4167.2	4878.9	5184.8	4882.0
32.5°	312.2	315.2	331.5	379.5	628.6	1174.1	2464.5	4493.8	5254.1	5489.4	5108.6
35°	252.2	267.8	294.0	340.3	586.1	1129.8	2464.5	4775.2	5623.6	5797.1	5324.5
37.5°	242.8	256.5	279.7	318.9	562.4	1108.0	2415.0	5046.8	6001.2	6146.1	5502.6
40°	237.8	249.1	271.0	302.7	552.5	1083.0	2343.3	5286.5	6370.2	6495.6	5668.5
42.5°	234.1	244.0	264.6	292.7	539.3	1055.6	2285.2	5478.8	6690.4	6794.0	5827.1
45°	232.1	242.8	265.3	297.7	513.1	1019.4	2265.9	5686.6	6953.8	7043.1	5998.8
47.5°	232.1	244.7	268.4	308.3	482.0	981.9	2326.4	5960.6	7202.8	7246.5	6201.0
50°	230.3	244.0	277.2	297.7	436.4	934.5	2468.8	6305.8	7472.5	7477.4	6456.9
52.5°	226.6	242.8	298.4	291.5	383.9	872.0	2661.0	6749.1	7871.4	7901.3	6857.6
55°	222.3	240.9	292.7	277.2	340.8	797.7	2818.4	7287.7	8432.0	8514.9	7446.9
57.5°	216.6	238.4	283.4	257.2	312.7	702.2	2875.1	7682.2	8823.3	9031.8	8111.1
60°	211.6	236.5	255.8	245.3	295.2	621.6	2765.3	7604.2	8796.5	9245.8	8699.7
62.5°	206.6	238.4	233.5	237.8	287.2	569.9	2478.1	6979.4	8351.4	9025.0	9136.0
65°	201.0	221.6	220.3	231.6	285.2	549.3	2054.3	6042.5	7491.3	8326.4	9239.1
67.5°	193.5	204.8	211.0	223.4	291.5	531.2	1657.9	4984.4	6295.8	7279.6	8702.2
70°	185.4	194.8	201.6	213.5	287.8	523.2	1378.9	3930.7	4995.7	5966.2	7642.9
72.5°	174.9	182.9	189.1	200.4	284.0	518.8	1164.8	3165.3	3729.7	4432.0	6214.1
75°	162.2	169.8	174.2	185.4	272.2	475.1	915.7	2678.5	2790.9	3083.0	4949.5
77.5°	147.9	153.5	157.4	169.8	240.9	395.1	662.3	2066.2	2167.2	2238.4	3794.6
80°	131.1	136.7	138.5	150.4	199.7	308.9	432.0	1526.3	1621.1	1637.4	2478.1
82.5°	111.8	117.4	117.4	128.6	163.6	222.3	283.4	1045.6	1064.3	1119.3	1751.5
85°	89.9	94.3	94.3	99.9	126.7	166.1	194.8	525.0	519.3	593.1	1517.5
87.5°	64.3	67.4	70.6	71.8	90.4	110.0	117.4	159.8	105.6	121.1	974.4
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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	4407.0	4442.6	4406.3	4380.1	4267.1	4174.1	4049.9	3986.3
5°	4737.2	4827.7	4797.1	4687.2	4451.3	4186.0	3884.5	3748.4
7.5°	4697.3	4907.6	4912.7	4707.2	4359.6	3968.8	3560.5	3367.1
10°	4386.3	4655.4	4732.2	4533.0	4164.2	3727.2	3258.9	3038.1
12.5°	4039.4	4302.7	4361.4	4292.7	3984.3	3545.6	3070.5	2854.0
15°	3755.2	3873.2	3943.1	4003.2	3830.2	3473.2	3060.0	2822.0
17.5°	3582.4	3569.3	3589.2	3693.5	3722.8	3556.2	3222.2	2960.1
20°	3520.0	3319.7	3314.6	3458.2	3672.3	3754.0	3539.4	3224.7
22.5°	3554.3	3229.7	3188.5	3358.9	3699.1	4039.4	3955.0	3596.2
25°	3672.9	3237.3	3204.1	3368.9	3796.5	4343.3	4403.8	4076.8
27.5°	3859.6	3284.7	3240.9	3410.1	3925.6	4598.6	4845.7	4542.5
30°	4036.8	3367.1	3312.7	3491.3	4043.6	4699.7	5116.7	4905.7
32.5°	4252.2	3521.2	3425.8	3640.4	4189.8	4860.7	5358.3	5206.6
35°	4463.1	3740.9	3622.4	3870.7	4352.7	5061.1	5634.2	5591.2
37.5°	4694.8	4028.1	3930.0	4168.6	4575.6	5250.2	5986.2	6041.8
40°	4941.9	4408.8	4292.7	4603.0	4921.4	5487.4	6353.9	6487.5
42.5°	5191.0	4831.5	4692.9	5007.5	5301.5	5721.6	6668.5	6866.4
45°	5476.3	5290.3	5224.7	5564.9	5666.6	5944.5	6900.7	7146.6
47.5°	5808.3	5810.9	5916.3	6052.4	6034.9	6196.6	7134.2	7397.0
50°	6196.0	6460.6	6693.4	6784.0	6414.5	6467.5	7458.1	7732.2
52.5°	6661.6	7237.8	7526.3	7466.9	6823.4	6798.3	7971.2	8194.1
55°	7244.0	8060.5	8347.1	8304.6	7293.4	7249.1	8610.4	8740.3
57.5°	7918.2	8857.6	9121.1	8930.1	7857.6	7743.4	9139.2	9166.7
60°	8510.5	9489.3	9720.4	9508.8	8426.9	8269.7	9469.4	9336.4
62.5°	8840.1	9703.5	9865.8	9637.9	8817.1	8830.3	9541.8	9244.7
65°	8692.8	9162.3	9214.7	9196.0	8716.6	9155.4	9281.5	8820.8
67.5°	7886.4	7794.0	7882.0	8003.7	7855.2	8727.2	8560.5	7897.6
70°	6465.6	5958.1	6133.6	6215.3	6282.7	7509.9	7430.0	6432.5
72.5°	4872.6	4174.1	4312.7	4295.8	4608.0	6023.7	5778.4	4729.8
75°	3452.6	2830.3	2847.7	2840.8	3215.4	4712.8	4184.1	3235.9
77.5°	2415.7	2050.6	2059.9	2098.7	2161.7	3554.3	2989.4	2364.0
80°	1661.1	1556.2	1608.0	1611.1	1498.2	2387.7	2208.4	1897.0
82.5°	1237.3	1081.7	1069.3	1087.3	1174.1	1934.4	1697.3	1315.8
85°	1013.1	640.5	514.9	645.4	1040.5	1915.8	1127.3	694.2
87.5°	570.6	304.0	137.3	254.7	415.0	1268.4	325.8	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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