

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: P193060

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193060
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 8363.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

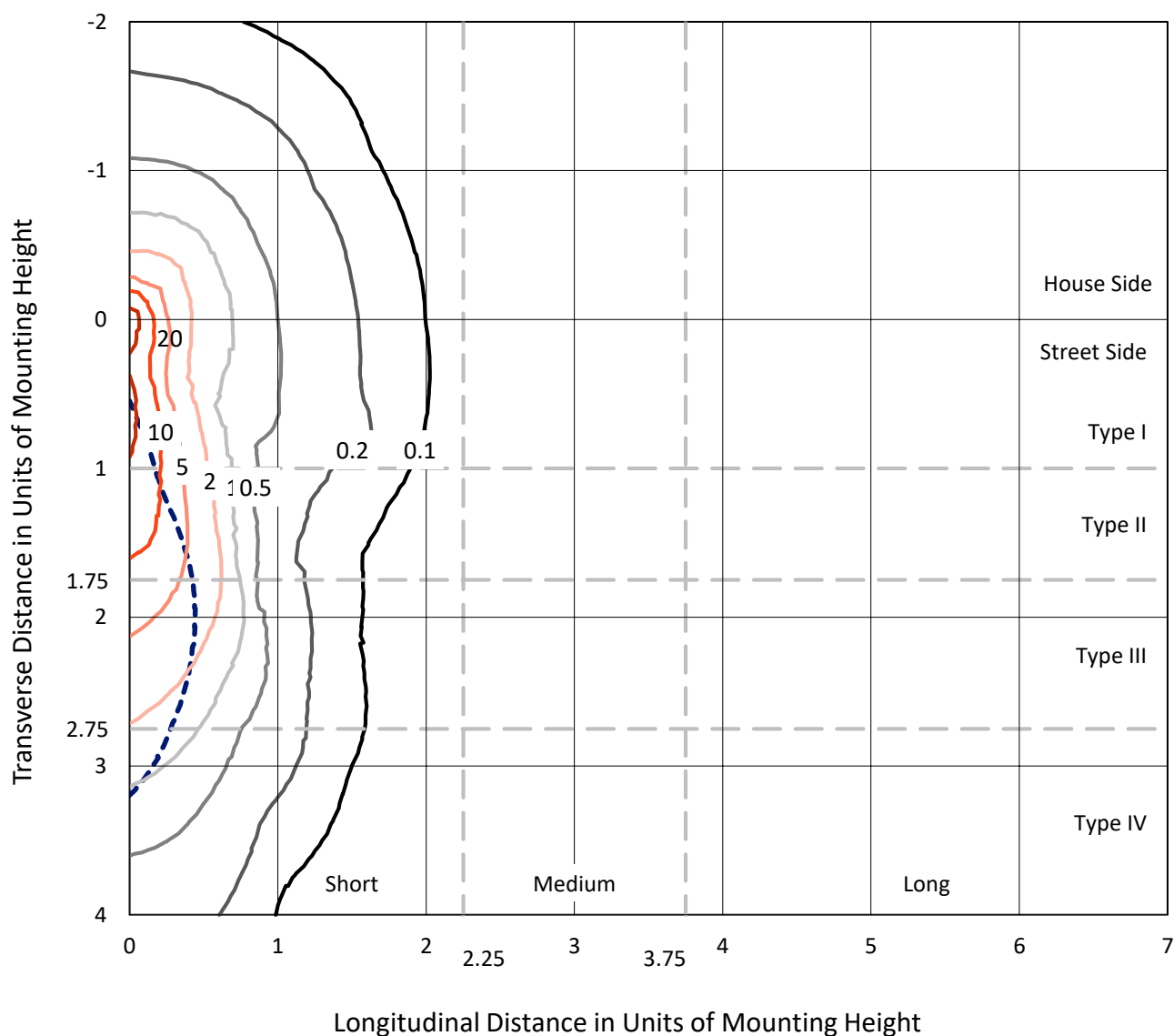


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

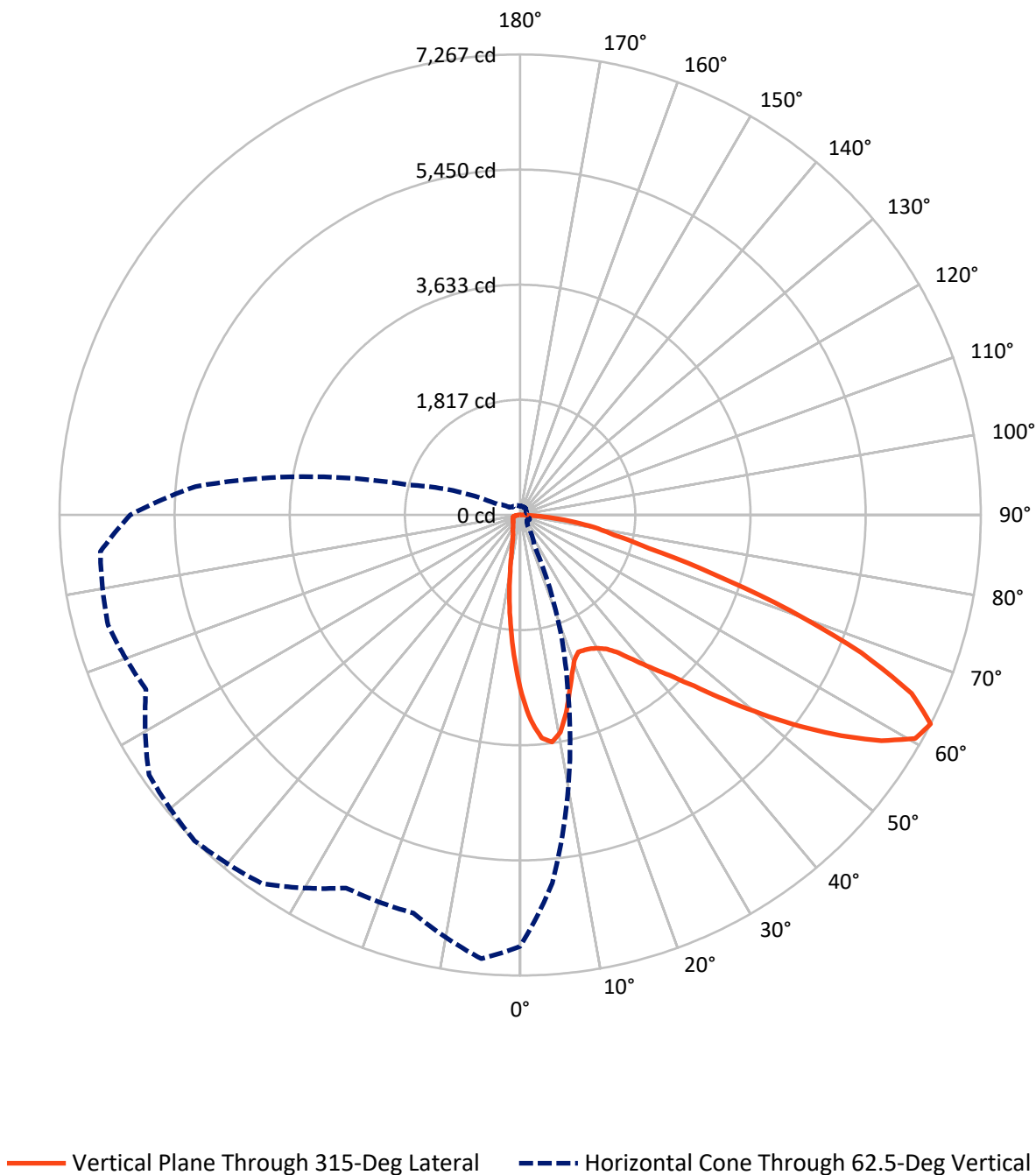


Based on 10 foot mounting height. Maximum calculated value = 28.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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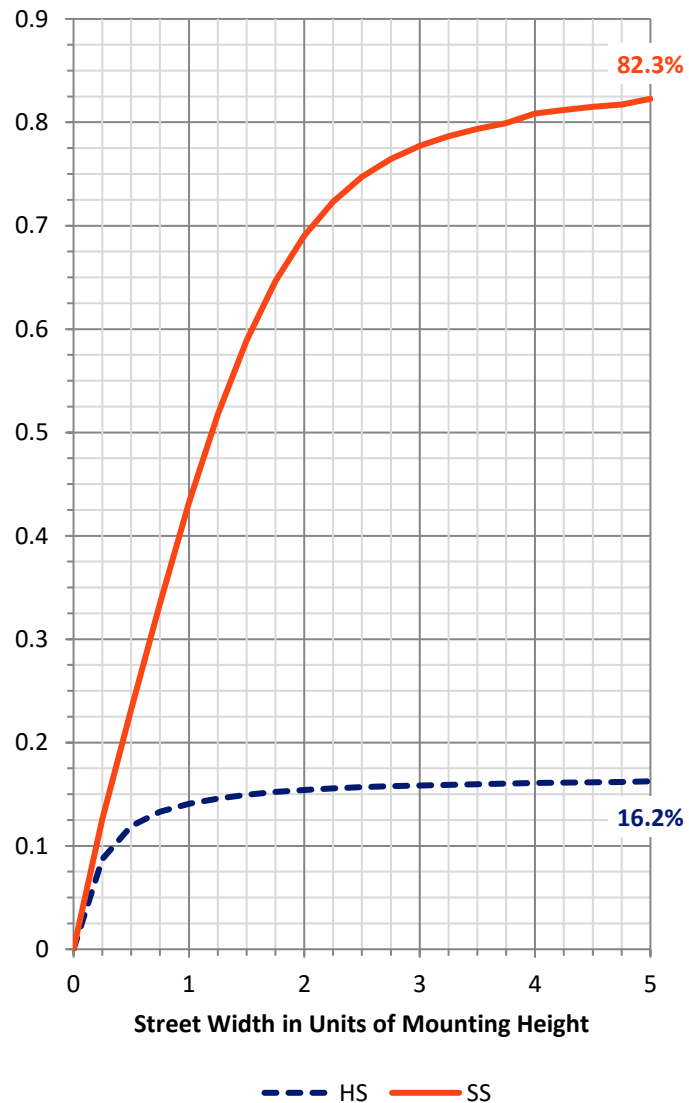
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.1	0.0	1384.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6979.7	0.0	6979.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	8363.8	0.0	8363.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	2.5
10°-20°	377.2	4.5
20°-30°	550.0	6.6
30°-40°	847.0	10.1
40°-50°	1246.6	14.9
50°-60°	1828.5	21.9
60°-70°	2044.0	24.4
70°-80°	1000.7	12.0
80°-90°	264.2	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°	8363.8	100.0
0°-180°	8363.8	100.0

Coefficient of Utilization



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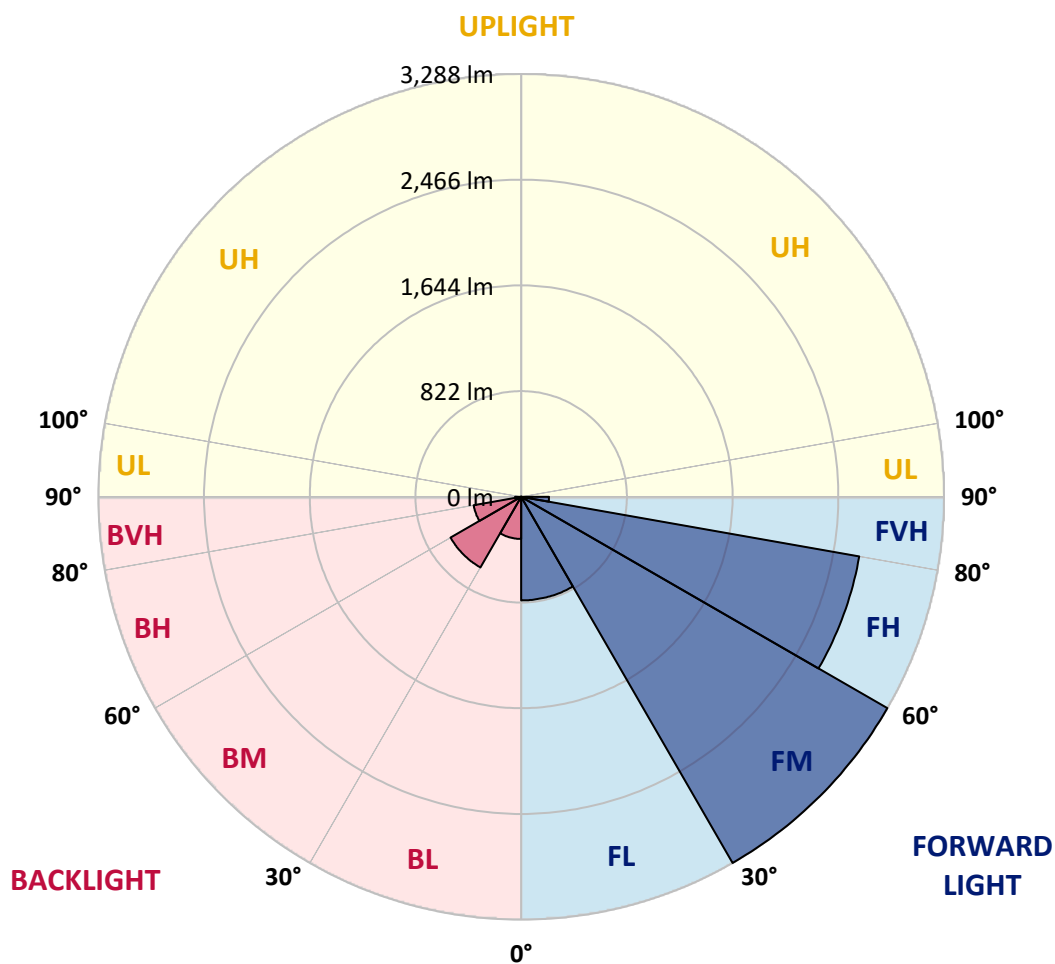
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.4	9.6			
FM	(30°-60°)	3287.9	39.3			
FH	(60°-80°)	2669.4	31.9			G2/5000
FVH	(80°-90°)	217.0	2.6			G2/225
BL	(0°-30°)	327.5	3.9	B1/500		
BM	(30°-60°)	634.2	7.6	B1/1000		
BH	(60°-80°)	375.2	4.5	B1/500		G1/500
BVH	(80°-90°)	47.2	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2936.2	2876.4	2777.1	2673.6	2610.5	2537.0	2479.5	2429.0	2327.8	2308.0	2326.0
5°	2760.9	2640.9	2453.8	2265.3	2139.8	2005.0	1900.2	1816.1	1687.8	1665.3	1692.4
7.5°	2479.9	2336.5	2089.1	1848.7	1671.2	1503.0	1389.9	1299.7	1199.5	1156.3	1159.1
10°	2237.7	2075.8	1783.4	1521.9	1376.5	1263.0	1167.8	1075.4	973.8	907.1	888.8
12.5°	2102.0	1915.9	1578.8	1345.3	1210.6	1091.1	988.5	889.7	781.1	713.1	693.8
15°	2078.6	1876.3	1502.1	1232.2	1063.4	912.2	791.2	680.9	569.2	514.1	502.5
17.5°	2180.3	1947.1	1477.1	1131.5	925.1	738.4	589.9	466.6	375.7	348.0	345.7
20°	2375.2	2083.2	1474.0	1036.8	788.6	569.7	411.1	321.3	281.4	273.5	274.0
22.5°	2648.8	2294.2	1513.6	965.6	662.9	424.8	308.9	269.0	253.4	246.0	246.0
25°	3002.8	2584.8	1604.6	913.5	554.1	339.4	272.6	248.8	234.1	229.0	229.9
27.5°	3345.7	2867.6	1710.4	872.7	482.7	308.0	258.4	236.8	223.9	218.8	221.1
30°	3613.3	3118.6	1798.6	817.0	446.5	299.3	263.5	241.4	223.0	215.1	215.7
32.5°	3834.9	3338.4	1872.6	777.1	414.2	256.5	227.2	217.4	215.1	206.0	201.4
35°	4118.2	3577.9	1922.3	777.9	399.2	229.0	202.3	185.3	172.8	162.2	162.2
37.5°	4450.1	3852.9	1975.2	788.6	393.6	212.8	193.6	176.6	165.1	154.9	153.1
40°	4778.4	4122.3	2023.5	798.5	390.4	203.2	186.7	171.0	160.5	150.3	147.6
42.5°	5057.5	4343.9	2066.6	803.7	379.3	202.3	181.6	167.3	157.3	146.2	143.4
45°	5263.9	4529.7	2113.1	811.5	368.3	206.0	181.6	166.9	154.5	143.9	141.2
47.5°	5448.2	4747.6	2190.7	811.5	355.0	199.1	187.6	167.3	154.0	143.0	140.7
50°	5695.1	5046.4	2337.9	792.6	336.1	191.7	197.6	165.5	149.9	141.2	138.4
52.5°	6035.4	5429.4	2571.5	760.0	307.1	177.4	196.3	164.6	145.8	136.6	133.3
55°	6437.7	5839.6	2826.2	721.8	263.9	167.3	189.4	162.2	141.2	131.0	127.9
57.5°	6751.6	6121.8	3005.5	662.9	226.1	161.8	167.8	159.9	135.6	125.1	122.3
60°	6876.8	6110.8	3054.7	584.3	207.8	157.3	146.6	179.3	131.0	120.5	117.2
62.5°	6809.1	5828.6	2916.7	529.2	203.7	151.3	137.4	166.0	127.4	117.2	112.6
65°	6497.0	5328.2	2551.3	514.5	215.7	145.4	131.5	130.1	122.3	112.6	108.0
67.5°	5817.0	4580.7	2042.7	515.8	230.7	139.3	125.5	119.1	115.4	107.6	103.5
70°	4737.9	3621.6	1522.7	519.5	238.6	132.4	119.1	112.2	108.0	100.2	97.5
72.5°	3483.6	2791.2	1106.2	495.6	240.1	124.5	110.4	104.4	100.2	92.0	89.7
75°	2383.5	2135.2	767.3	410.6	209.2	113.5	100.7	95.2	92.5	82.3	81.0
77.5°	1741.1	1602.8	491.0	304.9	161.3	99.8	88.7	84.5	82.7	71.7	69.9
80°	1397.2	1268.1	307.1	208.6	118.1	83.7	74.6	72.2	70.4	59.3	57.9
82.5°	969.2	849.2	197.2	135.6	88.7	64.8	58.9	57.9	55.1	45.1	43.7
85°	511.3	461.2	125.1	92.5	64.4	44.6	41.0	41.0	39.6	29.9	29.0
87.5°	65.3	106.2	63.5	48.3	35.4	19.7	19.7	19.3	20.6	17.1	14.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2283.6	2305.7	2284.6	2285.9	2309.4	2379.3	2411.1	2437.2	2465.3	2483.7	2491.9
5°	1655.2	1706.6	1724.1	1760.9	1815.2	1904.4	1939.8	1965.5	1982.5	1992.7	1996.8
7.5°	1131.9	1163.2	1198.1	1257.5	1375.7	1428.0	1451.5	1445.5	1426.2	1419.3	1412.4
10°	853.4	841.0	834.5	867.1	962.8	1015.7	1032.2	1016.1	1005.5	1007.8	1019.3
12.5°	661.1	639.5	613.4	609.6	672.6	720.0	730.6	731.5	750.8	767.8	793.1
15°	481.9	479.5	466.6	458.9	494.7	533.3	537.9	546.2	563.7	576.2	598.2
17.5°	339.8	352.2	362.3	367.3	394.5	422.1	417.1	412.9	409.6	409.6	420.2
20°	274.0	282.3	295.2	309.9	337.5	356.7	344.3	327.8	315.9	312.2	313.6
22.5°	246.9	253.4	260.7	273.5	298.4	311.7	298.4	286.5	274.5	270.3	269.0
25°	233.0	241.4	248.2	258.0	276.3	285.5	272.6	263.9	256.5	251.6	247.8
27.5°	225.3	232.6	234.5	239.1	254.7	263.0	256.5	252.8	248.2	243.6	239.1
30°	217.0	215.7	212.4	212.8	225.3	233.6	233.0	234.1	233.6	232.1	231.3
32.5°	198.2	195.3	192.7	195.3	206.9	214.2	214.7	216.6	216.6	216.2	219.7
35°	165.1	170.1	173.2	181.6	195.3	201.8	199.1	194.5	186.2	181.2	180.8
37.5°	152.6	153.5	159.1	170.6	185.7	191.7	187.6	177.0	171.5	170.6	172.0
40°	146.6	147.6	150.8	161.3	176.6	182.6	178.8	171.0	166.0	165.5	167.8
42.5°	142.5	143.4	145.4	152.6	165.1	172.4	172.8	167.3	161.3	161.8	164.1
45°	140.2	140.7	140.2	143.9	155.3	164.1	167.8	164.1	159.1	159.9	162.8
47.5°	139.8	138.4	136.6	137.4	149.4	158.2	162.8	161.3	159.1	159.9	162.2
50°	137.8	134.7	132.4	131.9	143.9	153.1	157.3	157.3	158.2	159.9	162.2
52.5°	132.4	128.7	128.7	127.4	140.2	148.9	151.8	152.2	153.5	156.8	159.9
55°	125.5	124.1	125.5	123.3	137.4	145.8	147.2	148.0	148.9	151.8	156.3
57.5°	119.5	117.7	121.0	119.9	135.2	142.5	142.5	144.3	144.3	148.0	151.8
60°	116.4	112.6	114.0	114.9	131.9	139.8	138.9	140.7	141.6	144.9	147.6
62.5°	112.2	108.9	108.9	111.2	128.3	135.6	135.2	136.6	140.2	141.2	143.9
65°	107.1	105.8	104.4	107.1	124.5	131.0	131.5	133.3	136.6	137.4	139.8
67.5°	102.0	102.4	99.8	102.4	121.4	126.4	126.4	130.1	131.5	133.3	135.6
70°	96.5	97.0	94.7	97.9	119.1	121.4	121.0	125.9	126.8	128.3	130.6
72.5°	89.7	89.7	88.7	93.3	115.4	116.4	115.4	119.5	119.9	121.4	122.3
75°	82.3	82.3	81.4	87.9	113.1	110.8	108.0	111.2	112.2	113.1	113.1
77.5°	72.6	73.5	73.5	81.4	105.3	108.5	99.3	101.2	102.4	103.0	101.6
80°	60.6	63.1	63.9	74.0	88.3	100.2	88.7	90.1	90.5	90.5	88.7
82.5°	46.4	50.6	52.9	63.9	67.6	84.1	77.2	78.6	77.2	74.6	73.5
85°	32.2	37.7	40.4	48.7	51.1	64.8	64.4	64.4	61.6	57.9	57.5
87.5°	17.5	20.6	22.5	29.0	35.0	43.7	47.3	46.0	43.7	41.4	41.8
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°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	2535.2	2597.7	2697.5	2773.8	2850.6	2924.6	3004.6	3065.7	3117.7	3137.9	3199.5
5°	2038.7	2116.8	2211.1	2381.2	2501.6	2634.5	2788.1	2991.3	3069.4	3177.5	3354.5
7.5°	1441.3	1512.1	1663.9	1801.3	1971.9	2159.9	2367.3	2647.8	2750.4	2923.7	3211.9
10°	1076.3	1158.5	1280.4	1396.4	1546.7	1738.9	1977.0	2290.6	2415.1	2603.2	2935.1
12.5°	867.1	964.1	1093.3	1202.3	1318.6	1454.2	1685.6	2029.4	2196.3	2360.9	2696.5
15°	666.2	767.8	887.8	1026.2	1154.5	1300.7	1543.0	1919.0	2111.2	2282.8	2569.2
17.5°	461.2	548.1	699.3	843.7	1007.8	1195.0	1503.4	1942.5	2172.0	2369.7	2591.3
20°	326.9	376.5	500.7	668.0	872.7	1107.6	1496.1	2065.8	2364.2	2589.9	2732.9
22.5°	274.9	293.4	365.5	519.1	755.4	1042.4	1521.9	2238.6	2623.5	2911.8	2958.6
25°	250.5	261.5	299.3	407.3	651.0	995.0	1608.8	2496.1	2944.3	3233.5	3225.4
27.5°	237.2	248.8	273.5	343.9	572.4	965.6	1695.6	2801.4	3311.2	3582.9	3480.0
30°	233.0	248.8	274.9	324.2	516.4	919.1	1766.9	3069.4	3593.5	3818.8	3595.8
32.5°	229.9	232.1	244.0	279.4	463.0	864.8	1815.2	3309.9	3869.9	4043.2	3762.8
35°	185.7	197.2	216.6	250.5	431.7	832.2	1815.2	3517.3	4142.0	4269.9	3921.9
37.5°	178.8	189.0	206.0	234.9	414.2	816.0	1778.8	3717.2	4420.2	4526.9	4052.9
40°	175.2	183.4	199.5	223.0	406.9	797.7	1726.0	3893.8	4691.9	4784.4	4175.2
42.5°	172.4	179.7	194.9	215.7	397.2	777.5	1683.2	4035.4	4927.8	5004.1	4291.9
45°	171.0	178.8	195.3	219.3	377.9	750.8	1668.9	4188.5	5121.8	5187.5	4418.3
47.5°	171.0	180.3	197.6	227.2	355.0	723.2	1713.5	4390.4	5305.3	5337.5	4567.4
50°	169.7	179.7	204.1	219.3	321.3	688.3	1818.4	4644.6	5503.9	5507.5	4755.8
52.5°	166.9	178.8	219.7	214.7	282.8	642.3	1960.0	4971.1	5797.8	5819.8	5051.0
55°	163.7	177.4	215.7	204.1	251.1	587.6	2075.8	5367.8	6210.6	6271.7	5485.1
57.5°	159.5	175.6	208.6	189.4	230.3	517.3	2117.7	5658.4	6498.8	6652.4	5974.2
60°	155.9	174.3	188.5	180.8	217.4	457.9	2036.8	5600.9	6479.1	6810.1	6407.8
62.5°	152.2	175.6	172.0	175.2	211.5	419.8	1825.2	5140.6	6151.3	6647.4	6729.2
65°	148.0	163.3	162.2	170.6	210.1	404.6	1513.1	4450.5	5517.7	6132.8	6805.0
67.5°	142.5	150.8	155.3	164.6	214.7	391.2	1221.2	3671.2	4637.2	5361.8	6409.7
70°	136.6	143.4	148.5	157.3	212.0	385.2	1015.7	2895.2	3679.6	4394.5	5629.4
72.5°	128.7	134.7	139.3	147.6	209.2	382.1	857.9	2331.5	2747.1	3264.3	4577.0
75°	119.5	125.1	128.3	136.6	200.5	349.8	674.4	1972.9	2055.6	2270.9	3645.6
77.5°	108.9	113.1	115.9	125.1	177.4	291.0	487.9	1521.9	1596.3	1648.7	2795.0
80°	96.5	100.7	102.0	110.8	147.2	227.6	318.2	1124.2	1193.9	1206.0	1825.2
82.5°	82.3	86.5	86.5	94.7	120.5	163.7	208.6	770.1	783.9	824.4	1290.2
85°	66.2	69.4	69.4	73.5	93.3	122.3	143.4	386.7	382.5	436.8	1117.7
87.5°	47.3	49.6	52.0	52.9	66.6	81.0	86.5	117.7	77.7	89.1	717.8
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°	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8	2825.8
2.5°	3246.0	3272.2	3245.5	3226.2	3143.0	3074.4	2983.0	2936.2
5°	3489.2	3555.9	3533.3	3452.4	3278.7	3083.2	2861.2	2760.9
7.5°	3459.8	3614.8	3618.3	3467.2	3211.0	2923.2	2622.5	2479.9
10°	3230.8	3429.0	3485.5	3338.9	3067.1	2745.2	2400.4	2237.7
12.5°	2975.1	3169.2	3212.4	3161.9	2934.7	2611.6	2261.5	2102.0
15°	2766.0	2852.9	2904.3	2948.5	2821.2	2558.2	2253.8	2078.6
17.5°	2638.6	2629.0	2643.6	2720.4	2742.1	2619.3	2373.3	2180.3
20°	2592.6	2445.0	2441.4	2547.2	2704.8	2765.1	2606.9	2375.2
22.5°	2618.0	2378.8	2348.5	2474.0	2724.6	2975.1	2913.1	2648.8
25°	2705.3	2384.4	2360.0	2481.4	2796.3	3199.1	3243.7	3002.8
27.5°	2842.7	2419.3	2387.1	2511.8	2891.4	3387.1	3569.2	3345.7
30°	2973.3	2479.9	2440.0	2571.5	2978.4	3461.6	3768.7	3613.3
32.5°	3131.9	2593.6	2523.3	2681.3	3085.9	3580.2	3946.7	3834.9
35°	3287.4	2755.4	2668.0	2851.0	3206.0	3727.8	4149.8	4118.2
37.5°	3457.9	2966.9	2894.8	3070.3	3370.1	3867.1	4409.1	4450.1
40°	3640.0	3247.4	3161.9	3390.4	3624.7	4041.8	4680.0	4778.4
42.5°	3823.4	3558.6	3456.5	3688.3	3904.8	4214.2	4911.8	5057.5
45°	4033.6	3896.5	3848.2	4098.9	4173.8	4378.3	5082.7	5263.9
47.5°	4278.1	4280.0	4357.7	4457.9	4445.0	4564.1	5254.8	5448.2
50°	4563.6	4758.6	4930.1	4996.8	4724.6	4763.7	5493.3	5695.1
52.5°	4906.7	5331.0	5543.5	5499.8	5025.7	5007.4	5871.3	6035.4
55°	5335.5	5937.0	6148.0	6116.8	5371.9	5339.3	6342.1	6437.7
57.5°	5832.2	6524.1	6718.2	6577.4	5787.6	5703.5	6731.5	6751.6
60°	6268.5	6989.5	7159.5	7003.6	6206.9	6090.9	6974.7	6876.8
62.5°	6511.2	7147.0	7266.7	7098.8	6494.3	6503.8	7028.0	6809.1
65°	6402.7	6748.5	6787.0	6773.3	6420.2	6743.5	6836.4	6497.0
67.5°	5808.8	5740.7	5805.5	5895.2	5785.8	6428.0	6305.3	5817.0
70°	4762.3	4388.5	4517.7	4578.0	4627.5	5531.5	5472.6	4737.9
72.5°	3588.9	3074.4	3176.5	3164.1	3394.0	4436.8	4256.0	3483.6
75°	2543.0	2084.5	2097.4	2092.5	2368.3	3471.2	3081.8	2383.5
77.5°	1779.3	1510.3	1517.3	1545.7	1592.1	2618.0	2201.8	1741.1
80°	1223.4	1146.2	1184.4	1186.7	1103.4	1758.6	1626.7	1397.2
82.5°	911.2	796.8	787.5	800.9	864.8	1424.8	1250.2	969.2
85°	746.2	471.7	379.3	475.4	766.5	1411.1	830.4	511.3
87.5°	420.2	223.9	101.2	187.6	305.7	934.2	240.1	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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