

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: P193860

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193860
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 7057 lumens
Efficiency: N/A
Efficacy: 83.0 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

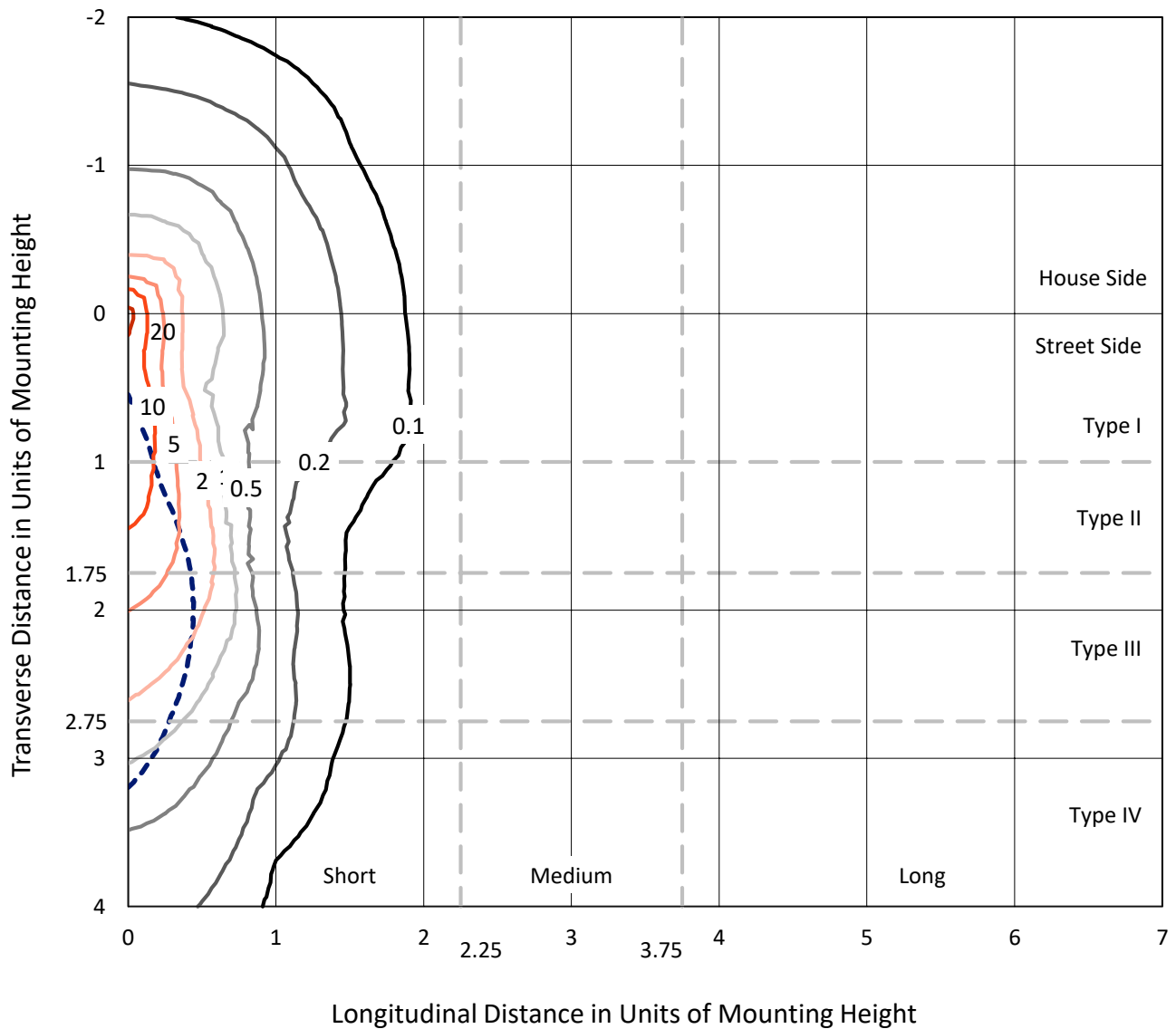


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

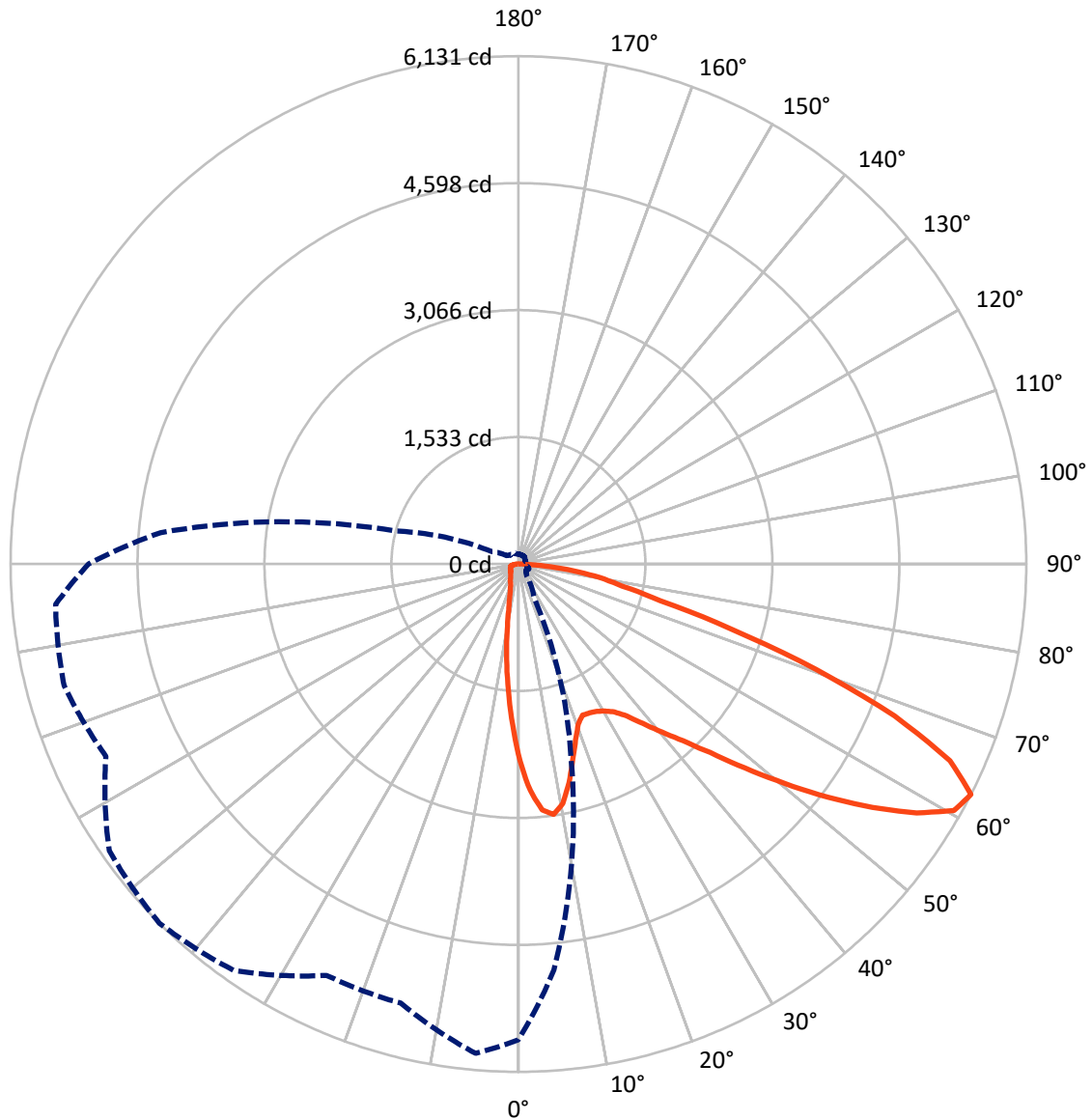


Based on 10 foot mounting height. Maximum calculated value = 23.8 fc
 Type IV - Short - Non-Cutoff

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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	1167.8	0.0	1167.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5889.2	0.0	5889.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	7057.0	0.0	7057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	2.5
10°-20°	318.3	4.5
20°-30°	464.0	6.6
30°-40°	714.7	10.1
40°-50°	1051.8	14.9
50°-60°	1542.8	21.9
60°-70°	1724.6	24.4
70°-80°	844.3	12.0
80°-90°	222.9	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°	7057.0	100.0
0°-180°	7057.0	100.0



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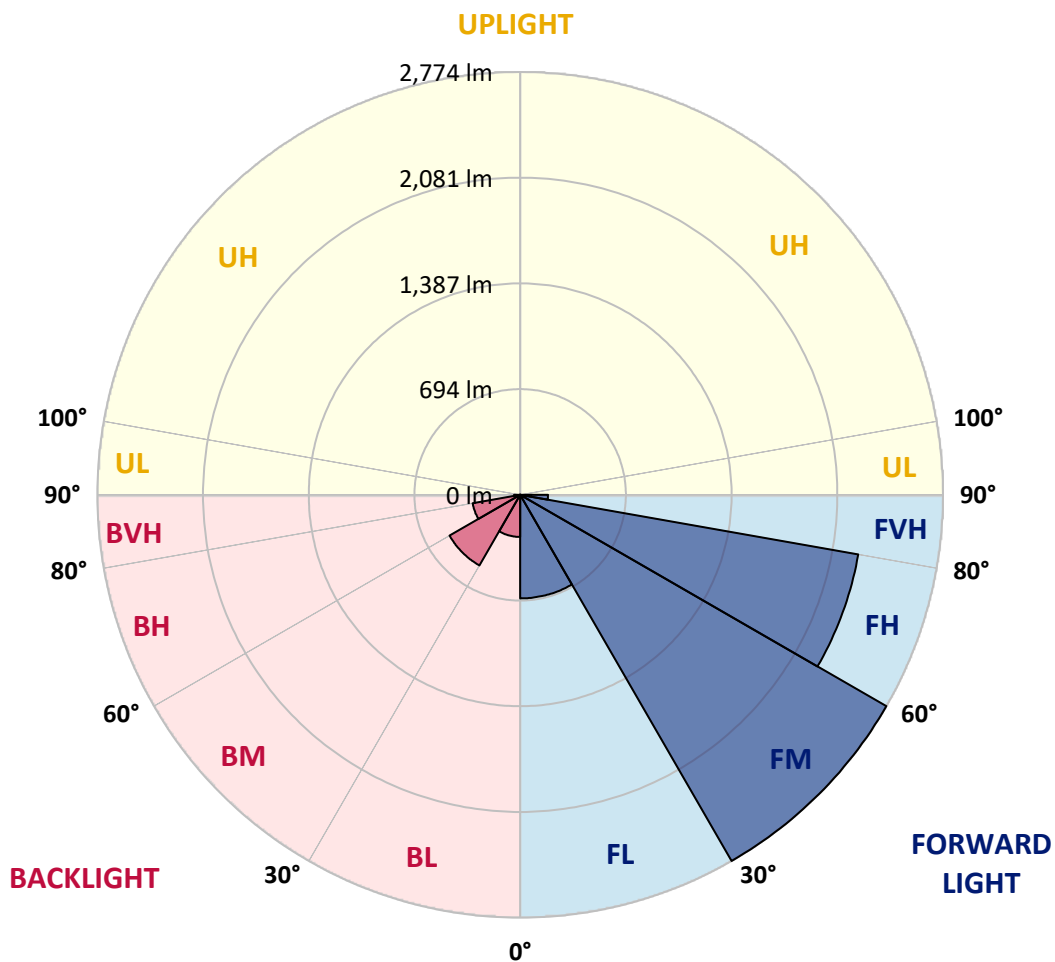
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.6	9.6			
FM (30°-60°)	2774.2	39.3			
FH (60°-80°)	2252.4	31.9			G2/5000
FVH (80°-90°)	183.1	2.6			G2/225
BL (0°-30°)	276.3	3.9	B1/500		
BM (30°-60°)	535.1	7.6	B1/1000		
BH (60°-80°)	316.6	4.5	B1/500		G1/500
BVH (80°-90°)	39.9	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°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2477.3	2426.9	2343.1	2255.8	2202.7	2140.6	2092.1	2049.4	1964.1	1947.4	1962.6
5°	2329.5	2228.3	2070.4	1911.3	1805.4	1691.8	1603.3	1532.3	1424.1	1405.1	1428.0
7.5°	2092.5	1971.5	1762.8	1559.9	1410.1	1268.2	1172.7	1096.7	1012.1	975.7	978.0
10°	1888.1	1751.5	1504.8	1284.1	1161.5	1065.7	985.3	907.4	821.6	765.4	749.9
12.5°	1773.6	1616.5	1332.2	1135.1	1021.4	920.6	834.1	750.6	659.1	601.7	585.4
15°	1753.8	1583.2	1267.4	1039.7	897.3	769.7	667.6	574.5	480.3	433.7	424.0
17.5°	1839.6	1642.9	1246.4	954.7	780.5	623.0	497.7	393.8	316.9	293.7	291.7
20°	2004.1	1757.7	1243.7	874.8	665.3	480.6	346.8	271.2	237.4	230.8	231.2
22.5°	2234.9	1935.8	1277.1	814.7	559.4	358.4	260.7	226.9	213.8	207.5	207.5
25°	2533.6	2181.0	1353.9	770.8	467.5	286.3	230.0	209.9	197.5	193.2	194.0
27.5°	2823.0	2419.5	1443.1	736.3	407.3	259.9	218.0	199.8	188.9	184.7	186.6
30°	3048.8	2631.3	1517.6	689.4	376.7	252.5	222.3	203.7	188.1	181.6	181.9
32.5°	3235.7	2816.8	1580.1	655.6	349.5	216.5	191.6	183.5	181.6	173.8	169.9
35°	3474.7	3018.9	1621.9	656.4	336.7	193.2	170.7	156.3	145.9	136.9	136.9
37.5°	3754.8	3250.9	1666.6	665.3	332.1	179.6	163.3	149.0	139.3	130.7	129.2
40°	4031.8	3478.2	1707.3	673.8	329.4	171.5	157.5	144.3	135.4	126.9	124.5
42.5°	4267.3	3665.2	1743.8	678.1	320.0	170.7	153.2	141.2	132.7	123.4	121.0
45°	4441.4	3821.9	1782.9	684.7	310.7	173.8	153.2	140.8	130.3	121.4	119.1
47.5°	4597.0	4005.8	1848.5	684.7	299.5	168.0	158.3	141.2	130.0	120.6	118.7
50°	4805.3	4257.9	1972.6	668.8	283.6	161.8	166.8	139.7	126.5	119.1	116.8
52.5°	5092.4	4581.1	2169.7	641.3	259.1	149.7	165.6	138.9	123.0	115.2	112.5
55°	5431.8	4927.1	2384.6	609.1	222.7	141.2	159.8	136.9	119.1	110.6	107.8
57.5°	5696.8	5165.3	2535.9	559.4	190.9	136.6	141.6	135.0	114.4	105.5	103.2
60°	5802.3	5156.0	2577.4	493.1	175.3	132.7	123.8	151.3	110.6	101.6	98.9
62.5°	5745.3	4917.8	2461.0	446.5	171.9	127.6	116.0	140.0	107.5	98.9	95.0
65°	5481.9	4495.8	2152.6	434.1	181.9	122.6	110.9	109.8	103.2	95.0	91.2
67.5°	4908.1	3865.0	1723.6	435.3	194.7	117.5	105.9	100.5	97.4	90.8	87.3
70°	3997.6	3055.7	1284.8	438.4	201.3	111.7	100.5	94.7	91.2	84.6	82.2
72.5°	2939.4	2355.1	933.4	418.2	202.5	105.1	93.1	88.1	84.6	77.6	75.6
75°	2011.0	1801.6	647.5	346.4	176.5	95.8	85.0	80.3	78.0	69.4	68.3
77.5°	1469.1	1352.3	414.3	257.2	136.2	84.2	74.9	71.4	69.8	60.5	59.0
80°	1178.9	1069.9	259.1	176.1	99.7	70.6	62.8	60.9	59.4	50.0	48.9
82.5°	817.8	716.5	166.4	114.4	74.9	54.7	49.7	48.9	46.6	38.0	36.9
85°	431.4	389.1	105.5	78.0	54.3	37.6	34.5	34.5	33.4	25.2	24.4
87.5°	55.1	89.6	53.5	40.7	29.9	16.7	16.7	16.3	17.5	14.4	12.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	1926.9	1945.5	1927.6	1928.8	1948.6	2007.6	2034.3	2056.4	2080.1	2095.6	2102.6
5°	1396.6	1440.0	1454.7	1485.8	1531.6	1606.8	1636.7	1658.4	1672.8	1681.3	1684.8
7.5°	955.1	981.5	1011.0	1061.0	1160.7	1204.9	1224.7	1219.7	1203.4	1197.5	1191.7
10°	720.0	709.5	704.1	731.6	812.3	856.9	870.9	857.3	848.4	850.3	860.0
12.5°	557.8	539.6	517.5	514.4	567.5	607.5	616.4	617.2	633.5	647.8	669.2
15°	406.6	404.6	393.8	387.2	417.4	450.0	453.9	460.9	475.6	486.1	504.7
17.5°	286.7	297.2	305.7	310.0	332.8	356.1	351.9	348.4	345.6	345.6	354.6
20°	231.2	238.2	249.1	261.5	284.7	301.0	290.6	276.6	266.5	263.4	264.6
22.5°	208.3	213.8	220.0	230.8	251.8	263.0	251.8	241.7	231.6	228.1	226.9
25°	196.7	203.7	209.5	217.6	233.1	240.9	230.0	222.7	216.5	212.2	209.1
27.5°	190.1	196.3	197.8	201.7	214.9	221.9	216.5	213.4	209.5	205.6	201.7
30°	183.1	181.9	179.2	179.6	190.1	197.1	196.7	197.5	197.1	195.9	195.1
32.5°	167.2	164.9	162.5	164.9	174.6	180.8	181.2	182.7	182.7	182.3	185.4
35°	139.3	143.5	146.3	153.2	164.9	170.3	168.0	164.1	157.1	152.8	152.5
37.5°	128.8	129.6	134.2	143.9	156.7	161.8	158.3	149.4	144.7	143.9	145.1
40°	123.8	124.5	127.2	136.2	149.0	154.0	150.9	144.3	140.0	139.7	141.6
42.5°	120.3	121.0	122.6	128.8	139.3	145.5	145.9	141.2	136.2	136.6	138.5
45°	118.3	118.7	118.3	121.4	131.1	138.5	141.6	138.5	134.2	135.0	137.3
47.5°	117.9	116.8	115.2	116.0	126.1	133.4	137.3	136.2	134.2	135.0	136.9
50°	116.4	113.7	111.7	111.3	121.4	129.2	132.7	132.7	133.4	135.0	136.9
52.5°	111.7	108.6	108.6	107.5	118.3	125.7	128.0	128.4	129.6	132.3	135.0
55°	105.9	104.7	105.9	104.0	116.0	123.0	124.1	124.9	125.7	128.0	131.9
57.5°	100.9	99.3	102.0	101.3	114.1	120.3	120.3	121.8	121.8	124.9	128.0
60°	98.1	95.0	96.2	97.0	111.3	117.9	117.2	118.7	119.5	122.2	124.5
62.5°	94.7	91.9	91.9	93.9	108.2	114.4	114.1	115.2	118.3	119.1	121.4
65°	90.4	89.2	88.1	90.4	105.1	110.6	110.9	112.5	115.2	116.0	117.9
67.5°	86.1	86.5	84.2	86.5	102.4	106.7	106.7	109.8	110.9	112.5	114.4
70°	81.5	81.9	79.9	82.6	100.5	102.4	102.0	106.3	107.1	108.2	110.2
72.5°	75.6	75.6	74.9	78.8	97.4	98.1	97.4	100.9	101.3	102.4	103.2
75°	69.4	69.4	68.7	74.1	95.4	93.5	91.2	93.9	94.7	95.4	95.4
77.5°	61.3	62.1	62.1	68.7	88.8	91.6	83.8	85.3	86.5	86.9	85.7
80°	51.2	53.1	53.9	62.5	74.5	84.6	74.9	76.0	76.4	76.4	74.9
82.5°	39.2	42.7	44.6	53.9	57.0	71.0	65.2	66.3	65.2	62.8	62.1
85°	27.2	31.8	34.1	41.1	43.1	54.7	54.3	54.3	52.0	48.9	48.5
87.5°	14.7	17.5	19.0	24.4	29.5	36.9	40.0	38.8	36.9	34.9	35.3
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°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2139.1	2191.8	2276.0	2340.4	2405.2	2467.6	2535.1	2586.7	2630.6	2647.6	2699.6
5°	1720.1	1786.0	1865.6	2009.1	2110.7	2222.9	2352.4	2523.9	2589.8	2681.0	2830.4
7.5°	1216.2	1275.9	1403.9	1519.9	1663.8	1822.5	1997.5	2234.1	2320.6	2466.9	2710.1
10°	908.2	977.6	1080.4	1178.2	1305.0	1467.2	1668.1	1932.7	2037.8	2196.5	2476.6
12.5°	731.6	813.5	922.5	1014.4	1112.6	1227.0	1422.2	1712.3	1853.2	1992.0	2275.2
15°	562.1	647.8	749.1	865.9	974.1	1097.5	1301.9	1619.2	1781.4	1926.1	2167.8
17.5°	389.1	462.4	590.0	711.9	850.3	1008.2	1268.5	1639.0	1832.6	1999.4	2186.4
20°	275.8	317.7	422.5	563.7	736.3	934.5	1262.3	1743.0	1994.8	2185.2	2305.9
22.5°	232.0	247.5	308.4	438.0	637.4	879.4	1284.1	1888.8	2213.5	2456.8	2496.3
25°	211.4	220.7	252.5	343.7	549.3	839.5	1357.4	2106.1	2484.3	2728.3	2721.3
27.5°	200.2	209.9	230.8	290.2	483.0	814.7	1430.7	2363.7	2793.9	3023.2	2936.3
30°	196.7	209.9	232.0	273.5	435.6	775.5	1490.8	2589.8	3032.1	3222.2	3034.0
32.5°	194.0	195.9	206.0	235.9	390.6	729.7	1531.6	2792.7	3265.2	3411.5	3174.8
35°	156.7	166.4	182.7	211.4	364.3	702.2	1531.6	2967.7	3494.9	3602.7	3309.1
37.5°	150.9	159.4	173.8	198.2	349.5	688.6	1500.9	3136.4	3729.6	3819.6	3419.6
40°	147.8	154.8	168.4	188.1	343.3	673.1	1456.3	3285.4	3958.9	4036.8	3522.8
42.5°	145.5	151.7	164.5	181.9	335.2	656.0	1420.2	3404.9	4157.9	4222.3	3621.4
45°	144.3	150.9	164.9	185.0	318.9	633.5	1408.2	3534.1	4321.6	4377.0	3728.0
47.5°	144.3	152.1	166.8	191.6	299.5	610.2	1445.8	3704.4	4476.4	4503.5	3853.7
50°	143.1	151.7	172.2	185.0	271.2	580.7	1534.3	3918.9	4643.9	4647.0	4012.8
52.5°	140.8	150.9	185.4	181.2	238.6	541.9	1653.8	4194.3	4891.8	4910.5	4261.8
55°	138.1	149.7	181.9	172.2	211.8	495.8	1751.5	4529.1	5240.2	5291.8	4628.0
57.5°	134.6	148.2	176.1	159.8	194.4	436.4	1786.8	4774.3	5483.4	5613.0	5040.8
60°	131.5	147.0	159.1	152.5	183.5	386.4	1718.5	4725.8	5466.7	5746.1	5406.6
62.5°	128.4	148.2	145.1	147.8	178.4	354.2	1540.1	4337.5	5190.2	5608.7	5677.8
65°	124.9	137.7	136.9	143.9	177.3	341.4	1276.7	3755.2	4655.6	5174.6	5741.8
67.5°	120.3	127.2	131.1	138.9	181.2	330.1	1030.3	3097.6	3912.7	4524.1	5408.2
70°	115.2	121.0	125.3	132.7	178.8	325.1	856.9	2442.8	3104.6	3707.9	4749.8
72.5°	108.6	113.7	117.5	124.5	176.5	322.4	723.9	1967.2	2317.9	2754.3	3861.9
75°	100.9	105.5	108.2	115.2	169.1	295.2	569.1	1664.6	1734.4	1916.0	3075.9
77.5°	91.9	95.4	97.8	105.5	149.7	245.6	411.6	1284.1	1346.9	1391.1	2358.2
80°	81.5	85.0	86.1	93.5	124.1	192.0	268.4	948.5	1007.5	1017.5	1540.1
82.5°	69.4	72.9	72.9	79.9	101.6	138.1	176.1	649.8	661.4	695.6	1088.5
85°	55.9	58.6	58.6	62.1	78.8	103.2	121.0	326.3	322.8	368.5	943.1
87.5°	40.0	41.9	43.8	44.6	56.3	68.3	72.9	99.3	65.6	75.3	605.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2738.8	2760.9	2738.4	2722.1	2651.9	2594.1	2516.9	2477.3
5°	2944.0	3000.3	2981.3	2913.0	2766.3	2601.5	2414.1	2329.5
7.5°	2919.2	3049.9	3053.0	2925.4	2709.3	2466.5	2212.8	2092.5
10°	2726.0	2893.2	2940.9	2817.2	2587.9	2316.3	2025.4	1888.1
12.5°	2510.3	2674.0	2710.5	2667.8	2476.2	2203.5	1908.2	1773.6
15°	2333.8	2407.1	2450.6	2487.8	2380.4	2158.5	1901.6	1753.8
17.5°	2226.3	2218.2	2230.6	2295.4	2313.6	2210.1	2002.5	1839.6
20°	2187.6	2063.0	2059.9	2149.1	2282.2	2333.0	2199.6	2004.1
22.5°	2208.9	2007.2	1981.6	2087.5	2298.9	2510.3	2457.9	2234.9
25°	2282.6	2011.8	1991.3	2093.7	2359.4	2699.2	2736.9	2533.6
27.5°	2398.6	2041.3	2014.1	2119.3	2439.7	2857.9	3011.5	2823.0
30°	2508.8	2092.5	2058.8	2169.7	2513.0	2920.7	3179.9	3048.8
32.5°	2642.6	2188.3	2129.0	2262.4	2603.8	3020.8	3330.0	3235.7
35°	2773.7	2324.9	2251.2	2405.6	2705.1	3145.4	3501.5	3474.7
37.5°	2917.6	2503.3	2442.4	2590.6	2843.5	3262.9	3720.3	3754.8
40°	3071.3	2740.0	2667.8	2860.6	3058.5	3410.3	3948.8	4031.8
42.5°	3226.0	3002.6	2916.5	3112.0	3294.7	3555.8	4144.3	4267.3
45°	3403.3	3287.7	3247.0	3458.4	3521.7	3694.3	4288.6	4441.4
47.5°	3609.7	3611.3	3676.8	3761.4	3750.5	3851.0	4433.7	4597.0
50°	3850.6	4015.1	4159.8	4216.1	3986.4	4019.4	4635.0	4805.3
52.5°	4140.0	4498.1	4677.3	4640.5	4240.5	4225.0	4953.9	5092.4
55°	4502.0	5009.4	5187.4	5161.1	4532.6	4505.1	5351.1	5431.8
57.5°	4920.9	5504.8	5668.5	5549.8	4883.3	4812.3	5679.7	5696.8
60°	5289.1	5897.4	6040.9	5909.4	5237.1	5139.3	5884.9	5802.3
62.5°	5493.9	6030.4	6131.3	5989.7	5479.6	5487.7	5929.9	5745.3
65°	5402.4	5694.1	5726.7	5715.0	5417.1	5689.8	5768.2	5481.9
67.5°	4901.1	4843.7	4898.4	4974.1	4881.7	5423.7	5320.1	4908.1
70°	4018.2	3702.8	3811.8	3862.6	3904.5	4667.2	4617.6	3997.6
72.5°	3028.2	2594.1	2680.2	2669.8	2863.7	3743.6	3591.1	2939.4
75°	2145.7	1758.9	1769.7	1765.5	1998.2	2928.9	2600.3	2011.0
77.5°	1501.3	1274.4	1280.2	1304.2	1343.4	2208.9	1857.8	1469.1
80°	1032.3	967.1	999.3	1001.3	931.0	1483.8	1372.5	1178.9
82.5°	768.9	672.3	664.5	675.8	729.7	1202.2	1054.8	817.8
85°	629.6	398.0	320.0	401.1	646.7	1190.6	700.6	431.4
87.5°	354.6	188.9	85.3	158.3	258.0	788.3	202.5	55.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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