

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: P193010

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193010
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-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6819.9 lumens
Efficiency: N/A
Efficacy: 103.3 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): 66
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



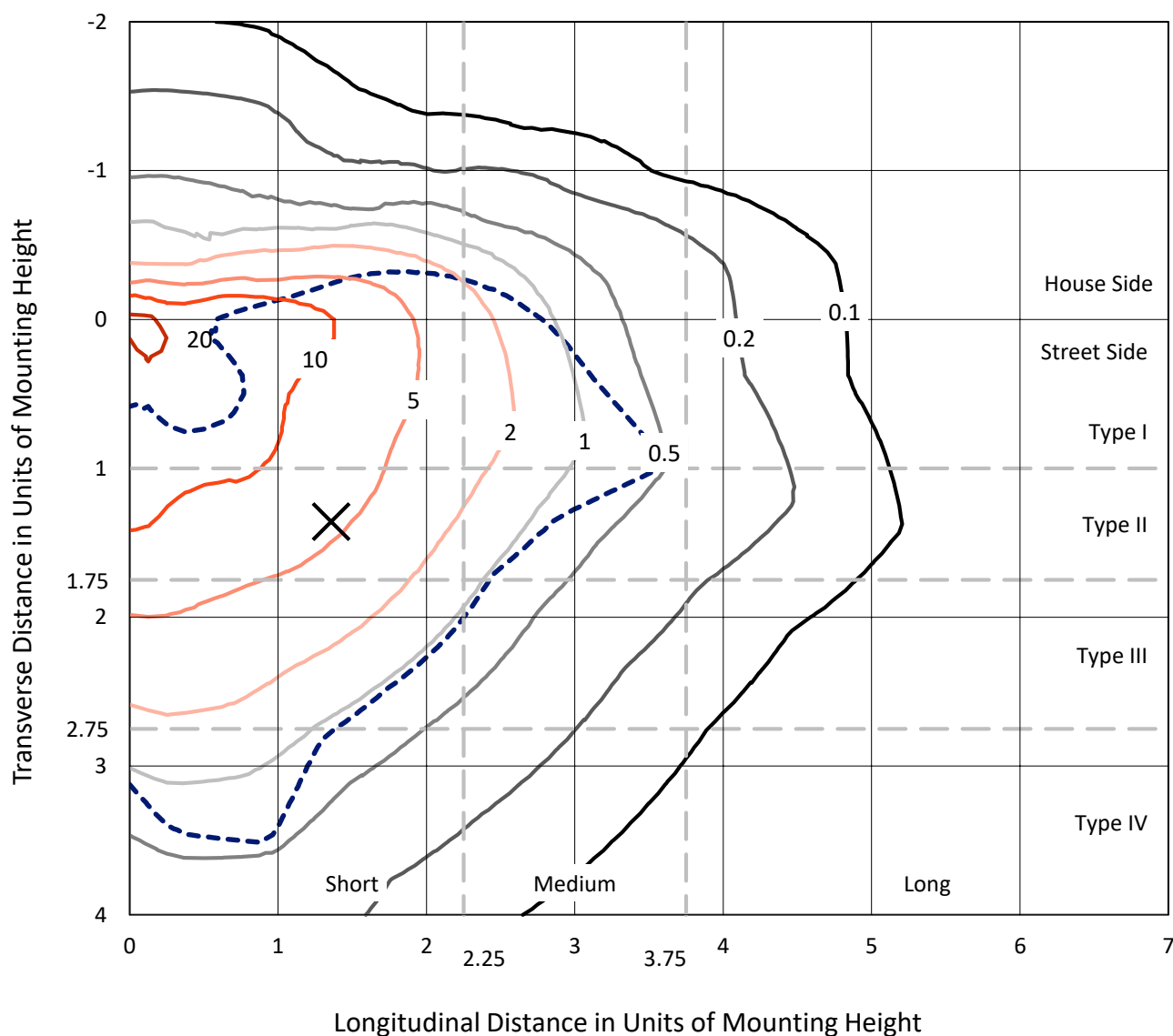
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

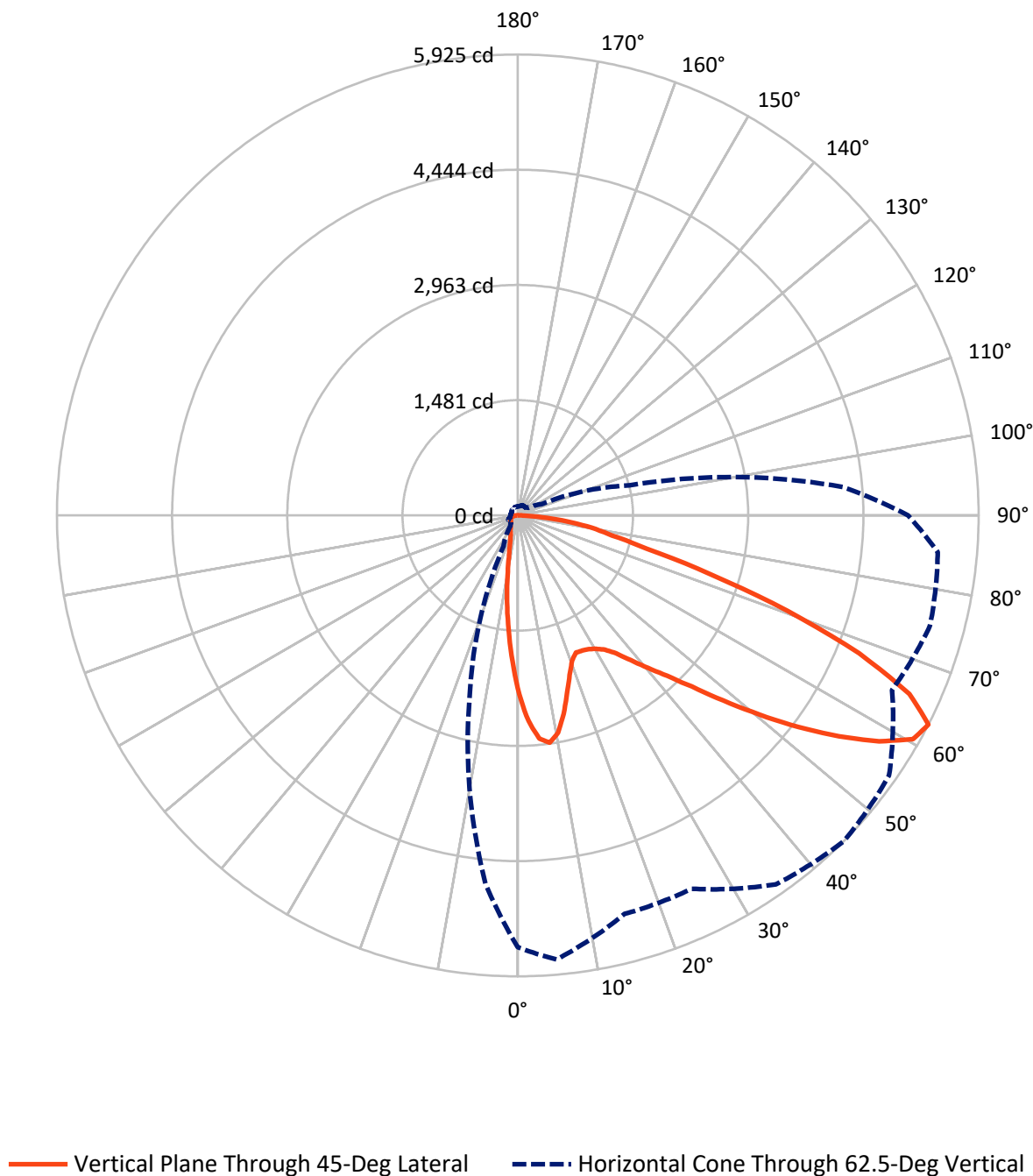


Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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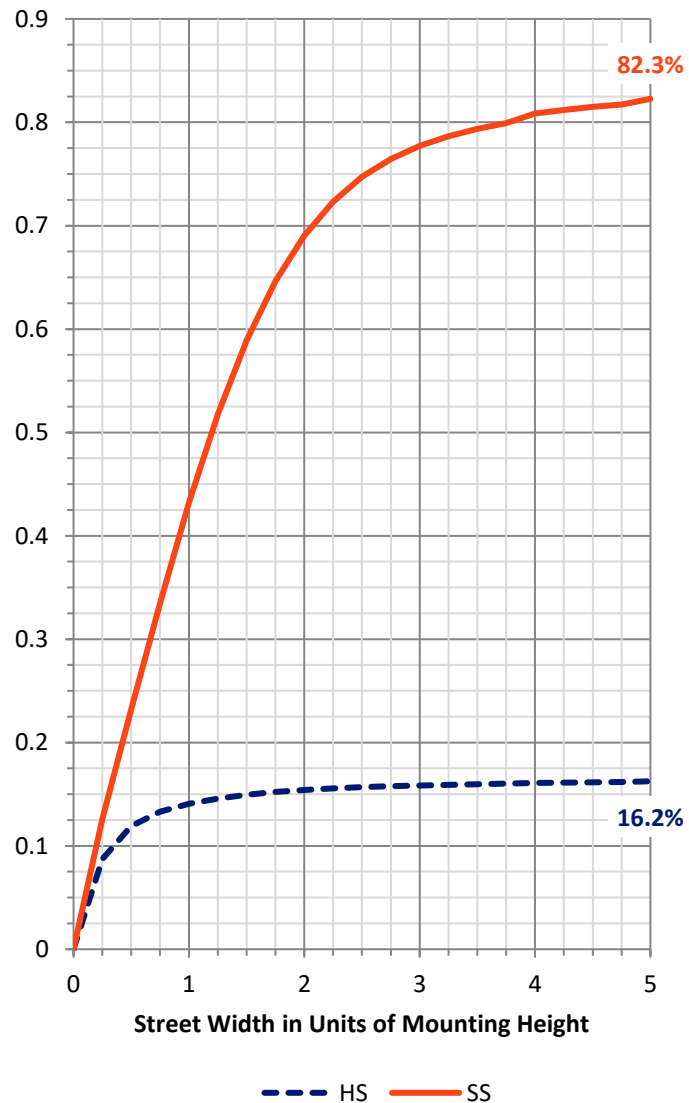
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.6	0.0	1128.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5691.3	0.0	5691.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	6819.9	0.0	6819.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	2.5
10°-20°	307.6	4.5
20°-30°	448.4	6.6
30°-40°	690.7	10.1
40°-50°	1016.5	14.9
50°-60°	1491.0	21.9
60°-70°	1666.7	24.4
70°-80°	816.0	12.0
80°-90°	215.4	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°	6819.9	100.0
0°-180°	6819.9	100.0

Coefficient of Utilization



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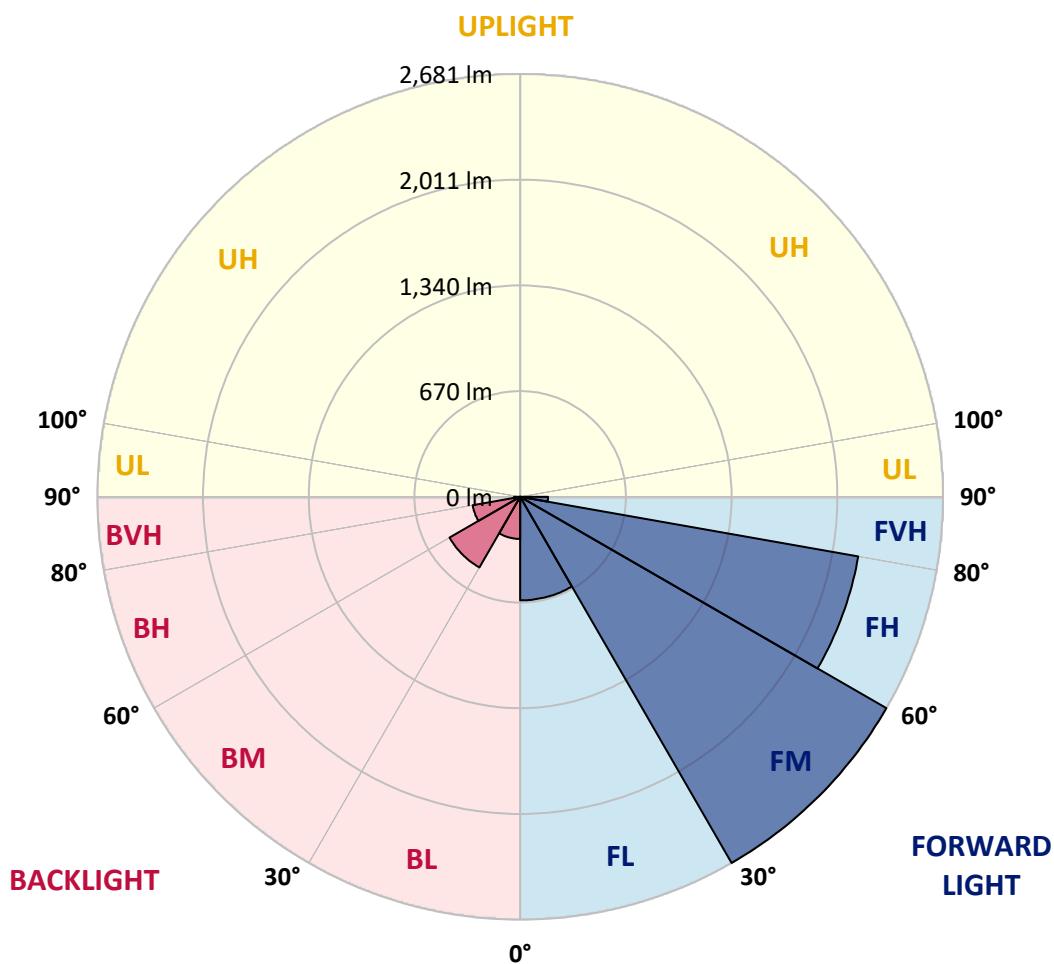
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.7	9.6			
FM	(30°-60°)	2681.0	39.3			
FH	(60°-80°)	2176.7	31.9			G2/5000
FVH	(80°-90°)	176.9	2.6			G2/225
BL	(0°-30°)	267.0	3.9	B1/500		
BM	(30°-60°)	517.1	7.6	B1/1000		
BH	(60°-80°)	306.0	4.5	B1/500		G1/500
BVH	(80°-90°)	38.5	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	2394.1	2432.3	2507.0	2562.7	2630.8	2646.5	2668.2	2646.8	2608.9	2558.8	2542.3
5°	2251.3	2333.0	2514.0	2673.5	2815.2	2881.1	2899.5	2845.1	2735.3	2591.0	2502.8
7.5°	2022.2	2138.4	2383.6	2618.3	2827.2	2950.4	2947.5	2821.2	2619.1	2384.0	2242.6
10°	1824.6	1957.4	2238.5	2501.0	2722.5	2842.2	2796.1	2634.5	2393.4	2122.7	1969.4
12.5°	1714.1	1844.2	2129.5	2393.0	2578.2	2619.5	2584.2	2426.0	2198.9	1925.1	1790.9
15°	1694.9	1837.7	2086.0	2300.5	2404.2	2368.3	2326.2	2255.4	2094.9	1861.3	1721.6
17.5°	1777.7	1935.2	2135.8	2235.9	2218.3	2155.6	2143.6	2151.6	2113.0	1932.2	1771.1
20°	1936.7	2125.7	2254.7	2205.5	2076.9	1990.7	1993.8	2114.0	2228.5	2111.9	1927.8
22.5°	2159.8	2375.4	2426.0	2221.7	2017.4	1915.0	1939.8	2134.7	2412.5	2374.2	2139.2
25°	2448.5	2644.9	2608.6	2280.1	2023.4	1924.4	1944.3	2206.0	2630.0	2636.7	2400.9
27.5°	2728.2	2910.3	2761.8	2357.9	2048.1	1946.5	1972.7	2318.1	2837.7	2921.6	2700.1
30°	2946.4	3073.0	2822.6	2428.7	2096.8	1989.6	2022.2	2424.5	2932.1	3113.9	2930.3
32.5°	3127.1	3218.1	2919.4	2516.3	2186.4	2057.5	2114.8	2553.8	3068.2	3296.9	3155.5
35°	3358.0	3383.9	3039.7	2614.2	2324.8	2175.6	2246.8	2680.5	3197.9	3481.8	3377.5
37.5°	3628.7	3595.2	3153.3	2748.1	2503.5	2360.4	2419.2	2819.7	3304.8	3691.4	3604.4
40°	3896.4	3816.1	3295.8	2955.7	2764.5	2578.2	2647.9	2968.1	3404.5	3901.2	3825.9
42.5°	4123.9	4005.1	3436.3	3184.1	3007.5	2818.6	2901.7	3117.7	3499.7	4080.4	4018.2
45°	4292.2	4144.5	3570.1	3403.3	3342.2	3137.9	3177.3	3289.0	3602.9	4230.0	4176.4
47.5°	4442.6	4284.7	3721.7	3624.5	3635.0	3553.3	3490.0	3488.4	3724.3	4352.3	4326.0
50°	4643.9	4479.3	3884.3	3852.5	4074.4	4020.0	3880.3	3721.3	3877.9	4491.0	4488.0
52.5°	4921.4	4787.5	4083.0	4098.1	4484.5	4520.2	4347.0	4001.0	4118.6	4745.5	4727.5
55°	5249.4	5171.5	4353.8	4380.3	4987.6	5013.2	4841.2	4350.7	4472.6	5114.1	5064.1
57.5°	5505.5	5488.9	4650.6	4719.2	5363.3	5478.0	5319.9	4755.6	4871.5	5424.5	5299.3
60°	5607.4	5687.3	4966.7	5061.2	5710.9	5837.9	5699.3	5111.3	5225.0	5553.1	5283.1
62.5°	5552.3	5730.7	5303.3	5295.5	5788.4	5925.3	5827.9	5309.4	5487.1	5420.4	5015.9
65°	5297.8	5574.4	5498.7	5235.1	5523.0	5534.3	5502.9	5220.9	5548.9	5000.8	4499.2
67.5°	4743.3	5141.4	5241.5	4717.9	4807.0	4733.8	4681.0	4736.5	5226.5	4372.1	3781.3
70°	3863.4	4462.4	4510.4	3773.4	3733.0	3683.7	3578.5	3883.3	4590.3	3583.2	3000.4
72.5°	2840.6	3470.5	3617.8	2767.5	2580.0	2590.2	2507.0	2926.5	3732.2	2661.8	2240.1
75°	1943.5	2513.0	2830.5	1931.1	1706.2	1710.4	1699.8	2073.6	2972.6	1851.6	1676.1
77.5°	1419.8	1795.4	2134.7	1298.3	1260.5	1237.2	1231.6	1450.9	2279.0	1344.4	1301.8
80°	1139.3	1326.4	1434.0	899.7	967.6	965.8	934.6	997.6	1488.3	983.4	973.6
82.5°	790.3	1019.4	1161.9	705.2	653.1	642.2	649.6	743.1	1051.9	672.2	639.1
85°	417.0	677.1	1150.6	625.0	387.7	309.3	384.7	608.5	911.4	356.1	311.9
87.5°	53.2	195.7	761.7	249.3	153.0	82.5	182.6	342.6	585.2	72.7	63.4
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°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	2499.9	2450.0	2384.8	2324.4	2261.7	2199.6	2118.2	2067.1	2032.0	2025.2	2010.3
5°	2439.1	2273.3	2148.1	2039.9	1941.6	1802.9	1726.1	1662.3	1628.2	1624.8	1616.6
7.5°	2159.1	1930.4	1761.3	1608.0	1468.9	1356.8	1233.1	1175.3	1151.7	1157.3	1162.9
10°	1867.8	1612.1	1417.8	1261.2	1138.6	1044.1	944.8	877.7	831.1	821.7	819.9
12.5°	1654.8	1374.4	1185.8	1075.2	980.4	891.5	786.1	707.0	646.7	626.0	612.2
15°	1564.8	1258.1	1060.6	941.4	836.8	724.0	626.0	543.2	487.8	469.7	459.7
17.5°	1583.9	1225.9	974.4	821.7	687.9	570.3	446.9	376.1	342.6	334.0	334.0
20°	1684.4	1219.9	903.1	711.6	544.7	408.3	307.0	266.6	255.6	254.6	257.6
22.5°	1825.4	1240.9	849.9	616.0	423.3	298.1	239.2	224.2	219.3	220.4	223.8
25°	2035.4	1311.7	811.2	530.9	332.1	244.0	213.3	204.4	202.0	205.1	209.2
27.5°	2284.3	1382.6	787.3	466.7	280.5	223.1	202.7	193.5	194.9	198.8	202.4
30°	2502.8	1440.8	749.4	420.9	264.3	224.2	202.7	190.1	188.6	189.3	190.4
32.5°	2698.9	1480.1	705.2	377.5	228.0	199.1	189.3	187.5	179.1	176.2	176.6
35°	2868.0	1480.1	678.6	352.1	204.4	176.6	160.8	151.5	147.4	147.7	151.9
37.5°	3031.1	1450.5	665.5	337.8	191.5	167.9	154.0	145.9	140.2	139.1	139.9
40°	3175.1	1407.4	650.4	331.8	181.8	162.7	149.5	142.8	136.8	134.9	135.4
42.5°	3290.6	1372.6	633.9	324.0	175.8	159.0	146.6	140.6	133.9	131.9	131.5
45°	3415.3	1361.0	612.2	308.2	178.8	159.3	145.9	139.5	132.8	130.4	129.7
47.5°	3580.0	1397.2	589.7	289.4	185.2	161.1	147.0	139.5	132.3	130.4	129.7
50°	3787.3	1482.7	561.3	262.0	178.8	166.5	146.6	138.3	132.3	130.4	128.9
52.5°	4053.4	1598.3	523.8	230.5	175.1	179.1	145.9	136.1	130.4	127.9	125.2
55°	4377.0	1692.7	479.1	204.7	166.5	175.8	144.7	133.6	127.5	123.7	121.5
57.5°	4613.9	1726.9	421.7	187.8	154.5	170.2	143.2	130.1	123.7	120.7	117.7
60°	4567.0	1660.8	373.4	177.3	147.4	153.7	142.0	127.1	120.3	118.1	115.5
62.5°	4191.7	1488.3	342.3	172.4	142.8	140.2	143.2	124.1	117.4	115.0	114.4
65°	3629.0	1233.7	330.0	171.3	139.1	132.3	133.1	120.7	113.9	112.1	111.3
67.5°	2993.6	995.8	319.0	175.1	134.2	126.7	122.9	116.3	110.6	108.7	107.2
70°	2360.8	828.1	314.1	172.8	128.3	121.1	117.0	111.3	106.4	104.6	103.5
72.5°	1901.1	699.6	311.5	170.6	120.3	113.6	109.8	105.0	99.8	99.0	97.9
75°	1608.8	550.0	285.2	163.5	111.3	104.6	101.9	97.5	92.3	92.3	91.4
77.5°	1240.9	397.8	237.3	144.7	101.9	94.5	92.3	88.8	82.8	84.0	83.6
80°	916.6	259.4	185.5	119.9	90.3	83.2	82.1	78.7	72.3	73.9	73.9
82.5°	627.9	170.2	133.6	98.3	77.2	70.5	70.5	67.0	60.0	60.7	63.0
85°	315.3	117.0	99.8	76.2	60.0	56.6	56.6	54.0	46.9	47.2	50.3
87.5°	95.9	70.5	66.0	54.4	43.1	42.4	40.5	38.6	34.1	33.8	35.6
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°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	1987.3	1966.0	1940.1	1883.1	1864.0	1862.9	1880.2	1862.1	1896.6	1882.0	1898.2
5°	1602.8	1581.7	1552.8	1480.1	1435.8	1405.8	1391.6	1349.7	1380.1	1357.9	1376.2
7.5°	1178.7	1183.6	1164.4	1121.6	1025.4	977.0	948.5	923.0	945.1	942.9	978.1
10°	828.5	841.7	828.1	785.0	707.0	680.4	685.7	695.9	724.7	739.6	794.1
12.5°	596.4	595.7	587.0	548.5	497.1	500.1	521.5	539.0	565.8	581.5	637.0
15°	445.3	438.6	434.9	403.3	374.1	380.6	391.0	392.9	409.7	419.1	464.2
17.5°	336.6	340.1	344.1	321.7	299.6	295.4	287.2	277.1	281.9	283.8	306.3
20°	267.3	280.8	290.9	275.3	252.7	240.7	230.2	223.4	223.4	223.1	229.5
22.5°	233.6	243.3	254.1	243.3	223.1	212.6	206.6	201.4	200.6	200.6	206.6
25°	215.2	222.4	232.8	225.3	210.4	202.4	196.7	190.1	187.5	186.8	190.8
27.5°	206.2	209.2	214.4	207.7	194.9	191.2	189.7	183.7	180.3	178.4	182.6
30°	190.8	190.1	190.4	183.7	173.6	173.1	175.8	177.0	175.8	175.5	181.8
32.5°	176.6	175.1	174.7	168.7	159.3	157.2	159.3	161.6	164.2	167.9	175.5
35°	158.5	162.4	164.6	159.3	148.0	141.4	138.8	134.6	132.3	132.3	141.0
37.5°	144.3	153.0	156.3	151.5	139.1	129.7	125.2	124.4	124.9	126.3	134.6
40°	139.5	145.9	148.8	144.0	131.5	122.9	120.3	119.6	120.3	122.6	130.9
42.5°	136.5	141.0	140.6	134.6	124.4	118.4	117.0	116.3	117.0	119.2	128.3
45°	133.9	136.8	133.9	126.7	117.4	114.4	114.7	114.4	115.0	117.4	125.9
47.5°	131.5	132.8	128.9	121.9	112.1	111.3	112.9	113.9	114.7	116.6	125.5
50°	128.3	128.3	124.9	117.4	107.6	107.9	109.8	112.4	112.9	115.0	122.3
52.5°	124.1	123.7	121.5	114.4	103.8	105.0	105.0	107.9	108.7	111.3	118.9
55°	120.7	119.9	118.9	112.1	100.5	102.3	101.2	102.3	104.3	106.8	115.0
57.5°	117.7	116.3	116.3	110.3	97.9	98.6	95.9	97.5	99.8	101.9	110.6
60°	114.7	113.2	113.9	107.6	93.8	93.0	91.9	94.8	95.6	98.3	106.8
62.5°	111.3	110.3	110.6	104.6	90.6	88.8	88.8	91.4	91.9	95.6	103.8
65°	108.7	107.2	106.8	101.6	87.3	85.1	86.2	87.3	88.1	91.9	99.8
67.5°	106.1	103.1	103.1	99.0	83.6	81.4	83.6	83.2	84.3	87.7	94.1
70°	102.7	98.6	99.0	97.1	79.9	77.2	79.1	78.7	79.4	81.7	88.1
72.5°	97.5	94.1	94.8	94.1	76.2	72.3	73.1	73.1	73.1	75.0	81.7
75°	90.6	88.1	90.3	92.3	71.6	66.3	67.0	67.0	66.0	67.0	75.4
77.5°	82.5	81.0	88.5	85.9	66.3	60.0	60.0	59.2	57.1	58.5	67.5
80°	73.5	72.3	81.7	72.0	60.3	52.1	51.4	49.5	47.2	48.4	57.4
82.5°	64.1	63.0	68.7	55.0	52.1	43.1	41.2	37.9	35.6	36.7	45.1
85°	52.5	52.5	52.9	41.6	39.8	33.0	30.7	26.2	23.6	24.4	32.2
87.5°	37.4	38.6	35.6	28.5	23.6	18.3	16.8	14.2	12.0	13.8	16.8
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°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	1980.7	2021.9	2068.8	2128.7	2180.0	2264.4	2345.4	2394.1
5°	1480.9	1549.6	1634.9	1744.8	1847.1	2000.9	2153.4	2251.3
7.5°	1059.9	1133.3	1225.6	1362.8	1507.4	1703.6	1905.3	2022.2
10°	877.0	952.3	1029.9	1122.4	1240.9	1454.2	1692.7	1824.6
12.5°	725.5	806.0	889.7	987.1	1097.0	1287.4	1562.2	1714.1
15°	555.2	645.1	743.8	867.2	1004.7	1224.8	1529.9	1694.9
17.5°	380.6	481.0	602.1	754.3	922.5	1204.6	1587.7	1777.7
20°	262.0	335.2	464.5	643.0	845.4	1202.0	1698.7	1936.7
22.5°	219.3	252.0	346.5	540.7	787.3	1234.2	1870.7	2159.8
25°	202.7	222.4	276.7	451.8	744.9	1308.4	2107.7	2448.5
27.5°	193.1	210.7	251.2	393.7	711.6	1394.5	2338.2	2728.2
30°	196.7	214.8	244.0	364.1	666.2	1466.6	2543.0	2946.4
32.5°	177.3	185.2	209.2	337.8	633.6	1527.0	2722.2	3127.1
35°	151.1	165.0	186.8	325.4	634.4	1567.5	2917.4	3358.0
37.5°	144.0	157.9	173.6	320.9	643.0	1610.6	3141.6	3628.7
40°	139.5	152.2	165.7	318.3	651.1	1650.0	3361.4	3896.4
42.5°	136.5	148.0	165.0	309.3	655.3	1685.3	3542.0	4123.9
45°	136.1	148.0	167.9	300.3	661.7	1723.0	3693.5	4292.2
47.5°	136.5	153.0	162.4	289.4	661.7	1786.4	3871.3	4442.6
50°	134.9	161.1	156.3	274.0	646.4	1906.3	4114.9	4643.9
52.5°	134.2	160.1	144.7	250.4	619.7	2096.8	4427.1	4921.4
55°	132.3	154.5	136.5	215.2	588.6	2304.5	4761.6	5249.4
57.5°	130.4	136.8	131.9	184.4	540.7	2450.6	4991.8	5505.5
60°	146.2	119.6	128.3	169.5	476.5	2490.9	4982.9	5607.4
62.5°	135.4	112.1	123.4	166.1	431.5	2378.3	4752.7	5552.3
65°	106.1	107.2	118.4	175.8	419.5	2080.3	4344.7	5297.8
67.5°	97.1	102.3	113.6	188.3	420.6	1665.6	3735.1	4743.3
70°	91.4	97.1	107.9	194.6	423.6	1241.7	2953.1	3863.4
72.5°	85.1	90.0	101.6	195.7	404.2	902.1	2276.0	2840.6
75°	77.6	82.1	92.7	170.6	334.8	625.7	1741.0	1943.5
77.5°	69.0	72.3	81.4	131.5	248.6	400.4	1307.0	1419.8
80°	58.9	60.7	68.2	96.3	170.2	250.4	1034.0	1139.3
82.5°	47.2	48.0	52.9	72.3	110.6	160.8	692.4	790.3
85°	33.4	33.4	36.4	52.5	75.4	101.9	376.1	417.0
87.5°	15.8	16.2	16.2	28.9	39.4	51.8	86.7	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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