

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: P192089

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192089
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-01-LED-E1-SLL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

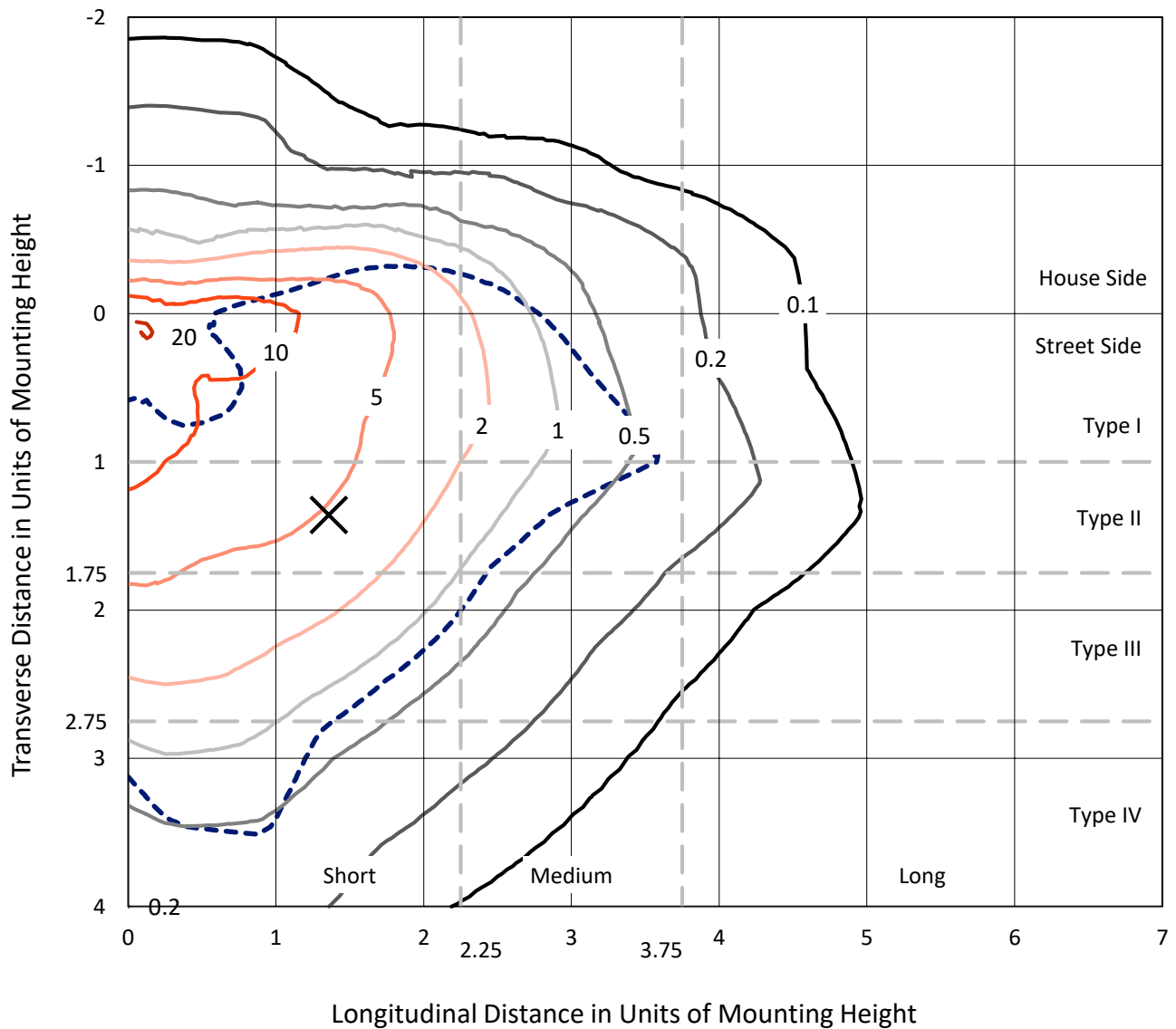


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Iso-Footcandle Lines of Horizontal Illumination

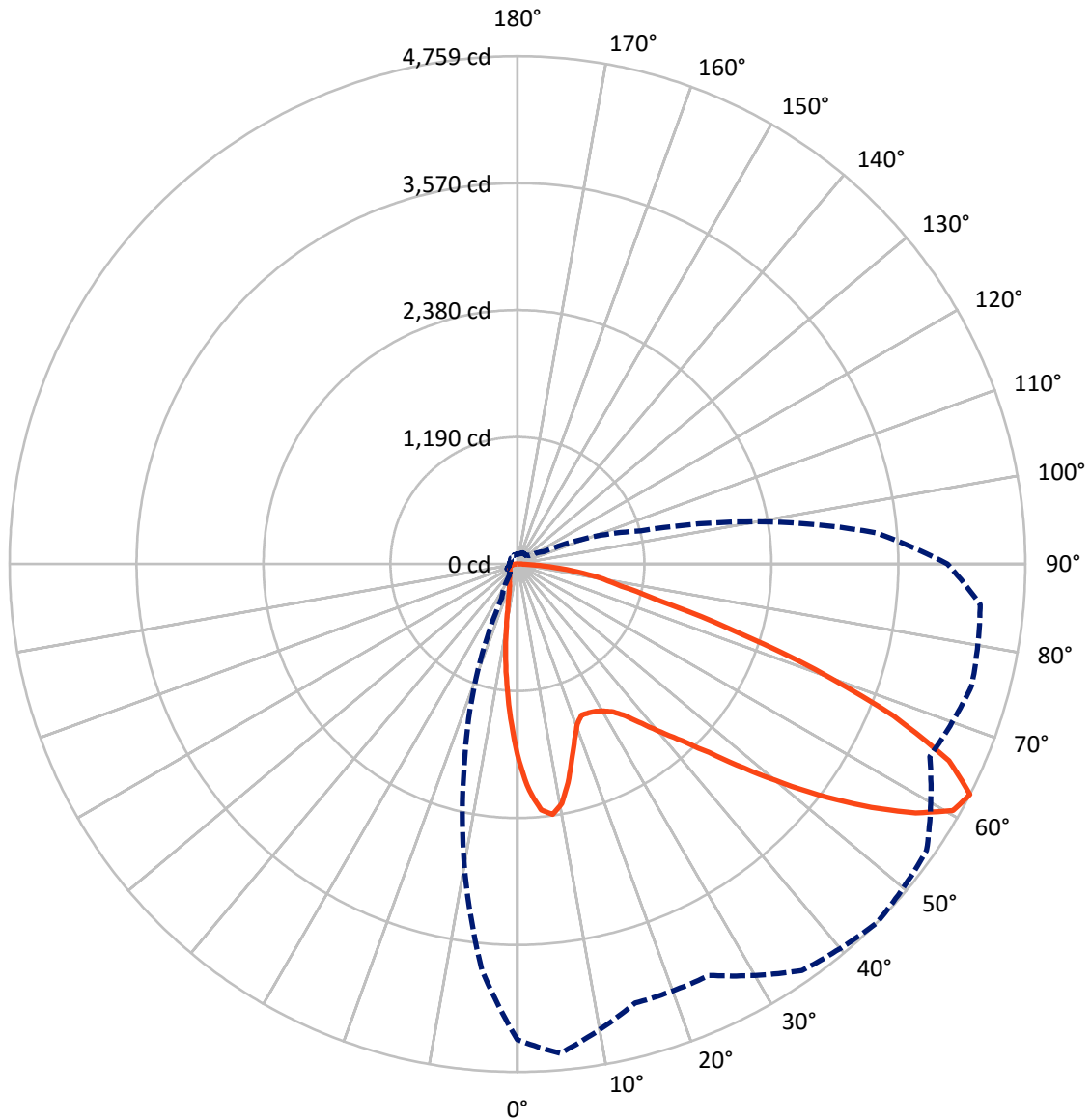
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.5	0.0	906.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4571.5	0.0	4571.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	5478.0	0.0	5478.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	2.5
10°-20°	247.1	4.5
20°-30°	360.2	6.6
30°-40°	554.8	10.1
40°-50°	816.5	14.9
50°-60°	1197.6	21.9
60°-70°	1338.7	24.4
70°-80°	655.4	12.0
80°-90°	173.0	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°	5478.0	100.0
0°-180°	5478.0	100.0



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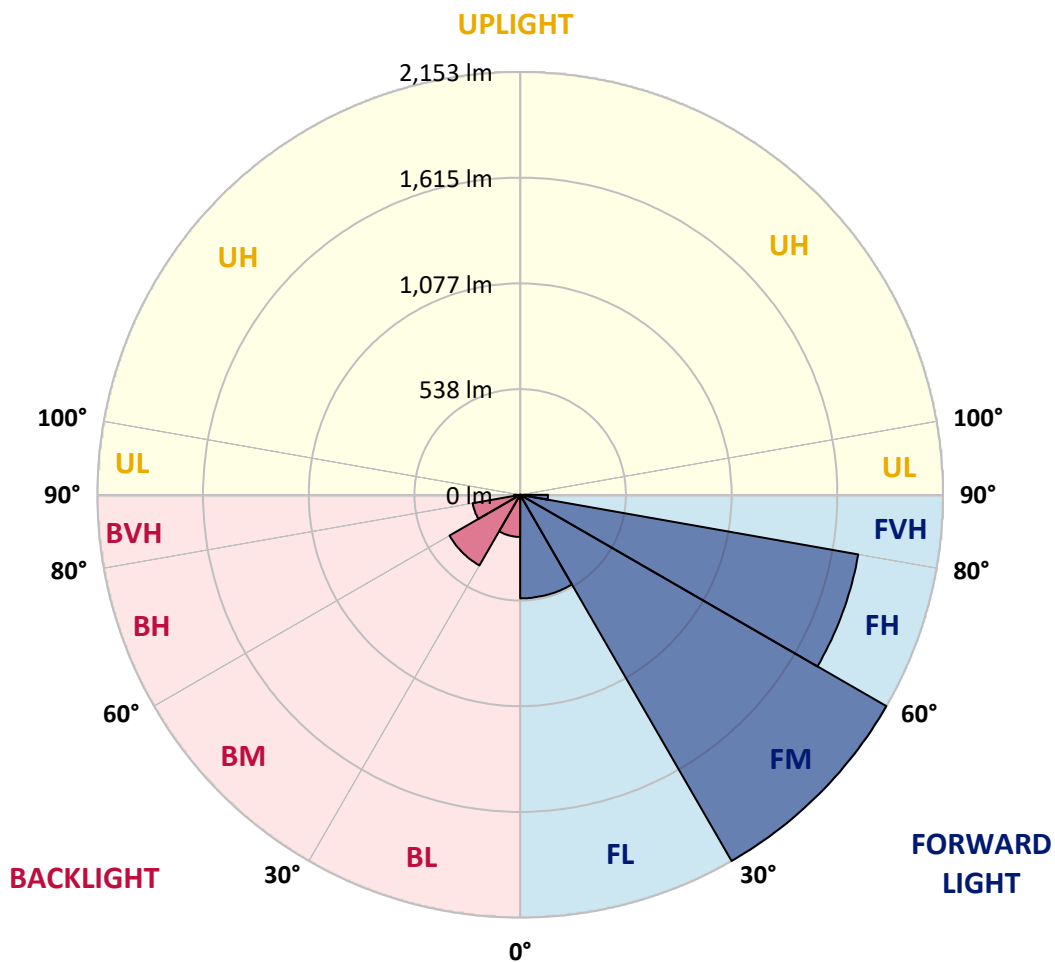
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.5	9.6			
FM	(30°-60°)	2153.5	39.3			
FH	(60°-80°)	1748.4	31.9			G1/1800
FVH	(80°-90°)	142.1	2.6			G2/225
BL	(0°-30°)	214.5	3.9	B1/500		
BM	(30°-60°)	415.4	7.6	B1/1000		
BH	(60°-80°)	245.8	4.5	B1/500		G1/500
BVH	(80°-90°)	30.9	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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1923.0	1953.8	2013.7	2058.5	2113.1	2125.7	2143.2	2126.0	2095.6	2055.2	2042.0
5°	1808.3	1874.0	2019.4	2147.4	2261.2	2314.2	2329.0	2285.3	2197.1	2081.1	2010.4
7.5°	1624.3	1717.7	1914.6	2103.1	2270.8	2369.9	2367.5	2266.0	2103.7	1914.9	1801.4
10°	1465.6	1572.2	1798.1	2008.9	2186.8	2282.9	2245.8	2116.1	1922.4	1705.0	1581.9
12.5°	1376.8	1481.3	1710.4	1922.1	2070.9	2104.0	2075.7	1948.6	1766.1	1546.3	1438.5
15°	1361.4	1476.2	1675.5	1847.8	1931.2	1902.3	1868.5	1811.6	1682.7	1495.1	1382.8
17.5°	1428.0	1554.4	1715.6	1796.0	1781.8	1731.5	1721.9	1728.2	1697.2	1552.0	1422.6
20°	1555.7	1707.4	1811.0	1771.6	1668.3	1599.0	1601.4	1698.1	1789.9	1696.3	1548.4
22.5°	1734.8	1908.0	1948.6	1784.5	1620.4	1538.2	1558.1	1714.7	1937.8	1907.1	1718.3
25°	1966.7	2124.5	2095.3	1831.5	1625.2	1545.7	1561.7	1771.9	2112.4	2117.9	1928.5
27.5°	2191.3	2337.7	2218.4	1893.8	1645.1	1563.5	1584.6	1861.9	2279.3	2346.7	2168.8
30°	2366.6	2468.4	2267.2	1950.7	1684.2	1598.1	1624.3	1947.4	2355.2	2501.2	2353.7
32.5°	2511.8	2584.9	2344.9	2021.2	1756.2	1652.6	1698.7	2051.3	2464.5	2648.2	2534.6
35°	2697.2	2718.0	2441.6	2099.8	1867.3	1747.5	1804.7	2153.1	2568.7	2796.6	2712.9
37.5°	2914.7	2887.9	2532.8	2207.3	2011.0	1895.9	1943.2	2264.8	2654.5	2965.0	2895.1
40°	3129.7	3065.2	2647.3	2374.1	2220.6	2070.9	2126.9	2384.1	2734.6	3133.6	3073.1
42.5°	3312.5	3217.0	2760.2	2557.5	2415.7	2263.9	2330.8	2504.2	2811.1	3277.5	3227.5
45°	3447.7	3329.0	2867.7	2733.7	2684.6	2520.5	2552.1	2641.8	2893.9	3397.7	3354.6
47.5°	3568.4	3441.6	2989.3	2911.4	2919.8	2854.1	2803.2	2802.0	2991.5	3495.9	3474.8
50°	3730.1	3597.9	3120.0	3094.4	3272.7	3229.0	3116.7	2989.0	3114.9	3607.3	3604.9
52.5°	3953.0	3845.5	3279.6	3291.7	3602.2	3630.8	3491.6	3213.7	3308.2	3811.7	3797.3
55°	4216.5	4153.8	3497.1	3518.4	4006.3	4026.8	3888.5	3494.6	3592.5	4107.8	4067.7
57.5°	4422.1	4408.9	3735.6	3790.7	4308.0	4400.2	4273.1	3819.9	3912.9	4357.1	4256.5
60°	4504.0	4568.2	3989.4	4065.3	4587.2	4689.2	4577.8	4105.6	4196.9	4460.4	4243.6
62.5°	4459.8	4603.1	4259.8	4253.5	4649.5	4759.4	4681.1	4264.6	4407.4	4353.8	4028.9
65°	4255.3	4477.5	4416.7	4205.0	4436.3	4445.3	4420.0	4193.6	4457.1	4016.8	3613.9
67.5°	3809.9	4129.7	4210.1	3789.5	3861.1	3802.4	3759.9	3804.5	4198.1	3511.8	3037.2
70°	3103.2	3584.4	3622.9	3030.9	2998.4	2958.9	2874.3	3119.1	3687.1	2878.2	2410.0
72.5°	2281.7	2787.6	2905.9	2223.0	2072.4	2080.5	2013.7	2350.6	2997.8	2138.0	1799.3
75°	1561.1	2018.5	2273.6	1551.1	1370.5	1373.8	1365.3	1665.6	2387.7	1487.3	1346.4
77.5°	1140.4	1442.1	1714.7	1042.8	1012.4	993.7	989.2	1165.4	1830.6	1079.9	1045.5
80°	915.1	1065.4	1151.8	722.7	777.2	775.7	750.7	801.3	1195.5	789.9	782.0
82.5°	634.8	818.8	933.2	566.4	524.6	515.8	521.9	596.8	845.0	539.9	513.4
85°	334.9	543.8	924.2	502.0	311.4	248.4	309.0	488.7	732.1	286.1	250.5
87.5°	42.8	157.2	611.9	200.3	122.9	66.2	146.7	275.2	470.1	58.4	50.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	2008.0	1967.9	1915.5	1867.0	1816.7	1766.7	1701.4	1660.4	1632.1	1626.7	1614.7
5°	1959.2	1826.1	1725.5	1638.5	1559.6	1448.1	1386.4	1335.2	1307.8	1305.1	1298.5
7.5°	1734.2	1550.5	1414.7	1291.6	1179.8	1089.8	990.4	944.1	925.1	929.6	934.1
10°	1500.2	1294.9	1138.9	1013.0	914.5	838.7	758.9	705.0	667.6	660.1	658.6
12.5°	1329.2	1104.0	952.5	863.6	787.5	716.1	631.5	567.9	519.5	502.9	491.8
15°	1256.9	1010.6	851.9	756.1	672.1	581.5	502.9	436.3	391.8	377.3	369.2
17.5°	1272.3	984.7	782.6	660.1	552.6	458.0	359.0	302.0	275.2	268.3	268.3
20°	1353.0	979.9	725.4	571.6	437.5	327.9	246.6	214.1	205.4	204.5	206.9
22.5°	1466.2	996.8	682.7	494.8	340.0	239.4	192.1	180.1	176.2	177.1	179.8
25°	1634.9	1053.7	651.7	426.4	266.8	196.0	171.3	164.1	162.3	164.7	168.0
27.5°	1834.8	1110.6	632.4	374.9	225.2	179.2	162.9	155.4	156.6	159.6	162.6
30°	2010.4	1157.3	602.0	338.2	212.3	180.1	162.9	152.7	151.5	152.1	153.0
32.5°	2167.9	1188.9	566.4	303.2	183.1	159.9	152.1	150.6	143.9	141.5	141.8
35°	2303.7	1188.9	545.1	282.8	164.1	141.8	129.2	121.7	118.3	118.6	122.0
37.5°	2434.7	1165.1	534.5	271.3	153.9	134.9	123.8	117.1	112.6	111.7	112.3
40°	2550.3	1130.5	522.5	266.5	146.0	130.7	120.2	114.7	109.9	108.4	108.7
42.5°	2643.0	1102.4	509.2	260.2	141.2	127.7	117.7	112.9	107.5	106.0	105.7
45°	2743.3	1093.1	491.8	247.5	143.6	128.0	117.1	112.0	106.6	104.8	104.2
47.5°	2875.5	1122.3	473.7	232.5	148.8	129.5	118.0	112.0	106.3	104.8	104.2
50°	3042.0	1191.0	450.8	210.5	143.6	133.7	117.7	111.1	106.3	104.8	103.6
52.5°	3255.9	1283.7	420.7	185.2	140.6	143.9	117.1	109.3	104.8	102.7	100.6
55°	3515.7	1359.6	384.8	164.4	133.7	141.2	116.2	107.2	102.4	99.4	97.6
57.5°	3706.0	1387.0	338.8	150.9	124.1	136.7	115.0	104.5	99.4	97.0	94.6
60°	3668.4	1334.0	299.9	142.4	118.3	123.5	114.1	102.1	96.7	94.9	92.7
62.5°	3367.0	1195.5	274.9	138.5	114.7	112.6	115.0	99.7	94.3	92.4	91.8
65°	2915.0	991.0	265.0	137.6	111.7	106.3	106.9	97.0	91.5	90.0	89.4
67.5°	2404.5	799.8	256.3	140.6	107.8	101.8	98.8	93.4	88.8	87.3	86.1
70°	1896.2	665.2	252.3	138.8	103.0	97.3	94.0	89.4	85.5	84.0	83.1
72.5°	1527.0	561.9	250.2	137.0	96.7	91.2	88.2	84.3	80.1	79.5	78.6
75°	1292.2	441.8	229.2	131.3	89.4	84.0	81.9	78.3	74.1	74.1	73.5
77.5°	996.8	319.5	190.6	116.2	81.9	75.9	74.1	71.4	66.6	67.5	67.2
80°	736.3	208.4	149.1	96.4	72.6	66.9	65.9	63.2	58.1	59.3	59.3
82.5°	504.4	136.7	107.2	78.9	62.0	56.6	56.6	53.9	48.2	48.8	50.6
85°	253.3	94.0	80.1	61.1	48.2	45.5	45.5	43.4	37.6	37.9	40.4
87.5°	77.1	56.6	53.0	43.7	34.6	34.0	32.5	31.0	27.4	27.1	28.6
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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1596.3	1579.1	1558.4	1512.6	1497.2	1496.3	1510.2	1495.7	1523.4	1511.7	1524.6
5°	1287.3	1270.5	1247.3	1188.9	1153.3	1129.2	1117.8	1084.1	1108.5	1090.7	1105.5
7.5°	946.8	950.7	935.3	901.0	823.6	784.8	761.9	741.4	759.2	757.3	785.7
10°	665.5	676.0	665.2	630.6	567.9	546.6	550.8	558.9	582.1	594.1	637.8
12.5°	479.1	478.5	471.6	440.6	399.3	401.7	418.9	433.0	454.4	467.1	511.6
15°	357.7	352.3	349.3	324.0	300.5	305.7	314.1	315.6	329.1	336.7	372.8
17.5°	270.4	273.1	276.4	258.4	240.6	237.3	230.7	222.5	226.5	228.0	246.0
20°	214.7	225.5	233.7	221.0	203.0	193.3	184.9	179.5	179.5	179.2	184.3
22.5°	187.6	195.4	204.2	195.4	179.2	170.7	165.9	161.7	161.1	161.1	165.9
25°	172.9	178.6	187.0	181.0	168.9	162.6	158.1	152.7	150.6	150.0	153.3
27.5°	165.6	168.0	172.2	166.8	156.6	153.6	152.4	147.6	144.8	143.3	146.7
30°	153.3	152.7	153.0	147.6	139.4	139.1	141.2	142.1	141.2	140.9	146.0
32.5°	141.8	140.6	140.3	135.5	128.0	126.2	128.0	129.8	131.9	134.9	140.9
35°	127.4	130.4	132.2	128.0	118.9	113.5	111.4	108.1	106.3	106.3	113.2
37.5°	115.9	122.9	125.6	121.7	111.7	104.2	100.6	100.0	100.3	101.5	108.1
40°	112.0	117.1	119.5	115.6	105.7	98.8	96.7	96.1	96.7	98.5	105.1
42.5°	109.6	113.2	112.9	108.1	100.0	95.2	94.0	93.4	94.0	95.8	103.0
45°	107.5	109.9	107.5	101.8	94.3	91.8	92.1	91.8	92.4	94.3	101.2
47.5°	105.7	106.6	103.6	97.9	90.0	89.4	90.6	91.5	92.1	93.7	100.9
50°	103.0	103.0	100.3	94.3	86.4	86.7	88.2	90.3	90.6	92.4	98.2
52.5°	99.7	99.4	97.6	91.8	83.4	84.3	84.3	86.7	87.3	89.4	95.5
55°	97.0	96.4	95.5	90.0	80.7	82.2	81.3	82.2	83.7	85.8	92.4
57.5°	94.6	93.4	93.4	88.5	78.6	79.2	77.1	78.3	80.1	81.9	88.8
60°	92.1	90.9	91.5	86.4	75.3	74.7	73.8	76.2	76.8	78.9	85.8
62.5°	89.4	88.5	88.8	84.0	72.9	71.4	71.4	73.5	73.8	76.8	83.4
65°	87.3	86.1	85.8	81.6	70.2	68.4	69.3	70.2	70.8	73.8	80.1
67.5°	85.2	82.8	82.8	79.5	67.2	65.3	67.2	66.9	67.8	70.5	75.6
70°	82.5	79.2	79.5	78.0	64.1	62.0	63.5	63.2	63.8	65.6	70.8
72.5°	78.3	75.6	76.2	75.6	61.1	58.1	58.7	58.7	58.7	60.2	65.6
75°	72.9	70.8	72.6	74.1	57.5	53.3	53.9	53.9	53.0	53.9	60.5
77.5°	66.2	65.0	71.1	69.0	53.3	48.2	48.2	47.6	45.8	47.0	54.2
80°	59.0	58.1	65.6	57.8	48.5	41.9	41.3	39.7	37.9	38.8	46.1
82.5°	51.5	50.6	55.1	44.3	41.9	34.6	33.1	30.4	28.6	29.5	36.1
85°	42.2	42.2	42.5	33.4	31.9	26.5	24.7	21.1	19.0	19.6	25.9
87.5°	30.1	31.0	28.6	22.9	19.0	14.8	13.6	11.4	9.6	11.1	13.6
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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1590.9	1624.0	1661.7	1709.8	1751.1	1818.8	1883.9	1923.0
5°	1189.5	1244.6	1313.2	1401.5	1483.7	1607.1	1729.7	1808.3
7.5°	851.3	910.3	984.4	1094.6	1210.9	1368.3	1530.4	1624.3
10°	704.4	764.9	827.2	901.6	996.8	1168.1	1359.6	1465.6
12.5°	582.7	647.4	714.6	792.9	881.1	1034.1	1254.8	1376.8
15°	446.0	518.2	597.4	696.5	807.0	983.8	1228.9	1361.4
17.5°	305.7	386.4	483.6	605.9	741.1	967.5	1275.3	1428.0
20°	210.5	269.2	373.1	516.4	679.1	965.4	1364.4	1555.7
22.5°	176.2	202.4	278.2	434.2	632.4	991.3	1502.7	1734.8
25°	162.9	178.6	222.2	362.9	598.4	1051.0	1693.0	1966.7
27.5°	155.1	169.2	201.8	316.2	571.6	1120.2	1878.2	2191.3
30°	158.1	172.5	196.0	292.4	535.1	1178.0	2042.6	2366.6
32.5°	142.4	148.8	168.0	271.3	508.9	1226.5	2186.5	2511.8
35°	121.4	132.5	150.0	261.4	509.5	1259.0	2343.4	2697.2
37.5°	115.6	126.8	139.4	257.8	516.4	1293.7	2523.5	2914.7
40°	112.0	122.3	133.1	255.7	523.1	1325.3	2700.0	3129.7
42.5°	109.6	118.9	132.5	248.4	526.4	1353.6	2845.1	3312.5
45°	109.3	118.9	134.9	241.2	531.5	1384.0	2966.8	3447.7
47.5°	109.6	122.9	130.4	232.5	531.5	1434.9	3109.5	3568.4
50°	108.4	129.5	125.6	220.1	519.2	1531.3	3305.2	3730.1
52.5°	107.8	128.6	116.2	201.2	497.8	1684.2	3556.1	3953.0
55°	106.3	124.1	109.6	172.9	472.8	1851.1	3824.7	4216.5
57.5°	104.8	109.9	106.0	148.2	434.2	1968.5	4009.6	4422.1
60°	117.4	96.1	103.0	136.1	382.7	2000.7	4002.4	4504.0
62.5°	108.7	90.0	99.1	133.4	346.6	1910.4	3817.5	4459.8
65°	85.2	86.1	95.2	141.2	337.0	1671.0	3489.8	4255.3
67.5°	78.0	82.2	91.2	151.2	337.9	1337.9	3000.2	3809.9
70°	73.5	78.0	86.7	156.3	340.3	997.4	2372.0	3103.2
72.5°	68.4	72.3	81.6	157.2	324.6	724.5	1828.2	2281.7
75°	62.3	65.9	74.4	137.0	268.9	502.6	1398.5	1561.1
77.5°	55.4	58.1	65.3	105.7	199.7	321.6	1049.7	1140.4
80°	47.3	48.8	54.8	77.4	136.7	201.2	830.5	915.1
82.5°	37.9	38.5	42.5	58.1	88.8	129.2	556.2	634.8
85°	26.8	26.8	29.2	42.2	60.5	81.9	302.0	334.9
87.5°	12.6	12.9	12.9	23.2	31.6	41.6	69.6	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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