

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: P192129

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192129
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-SLR-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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

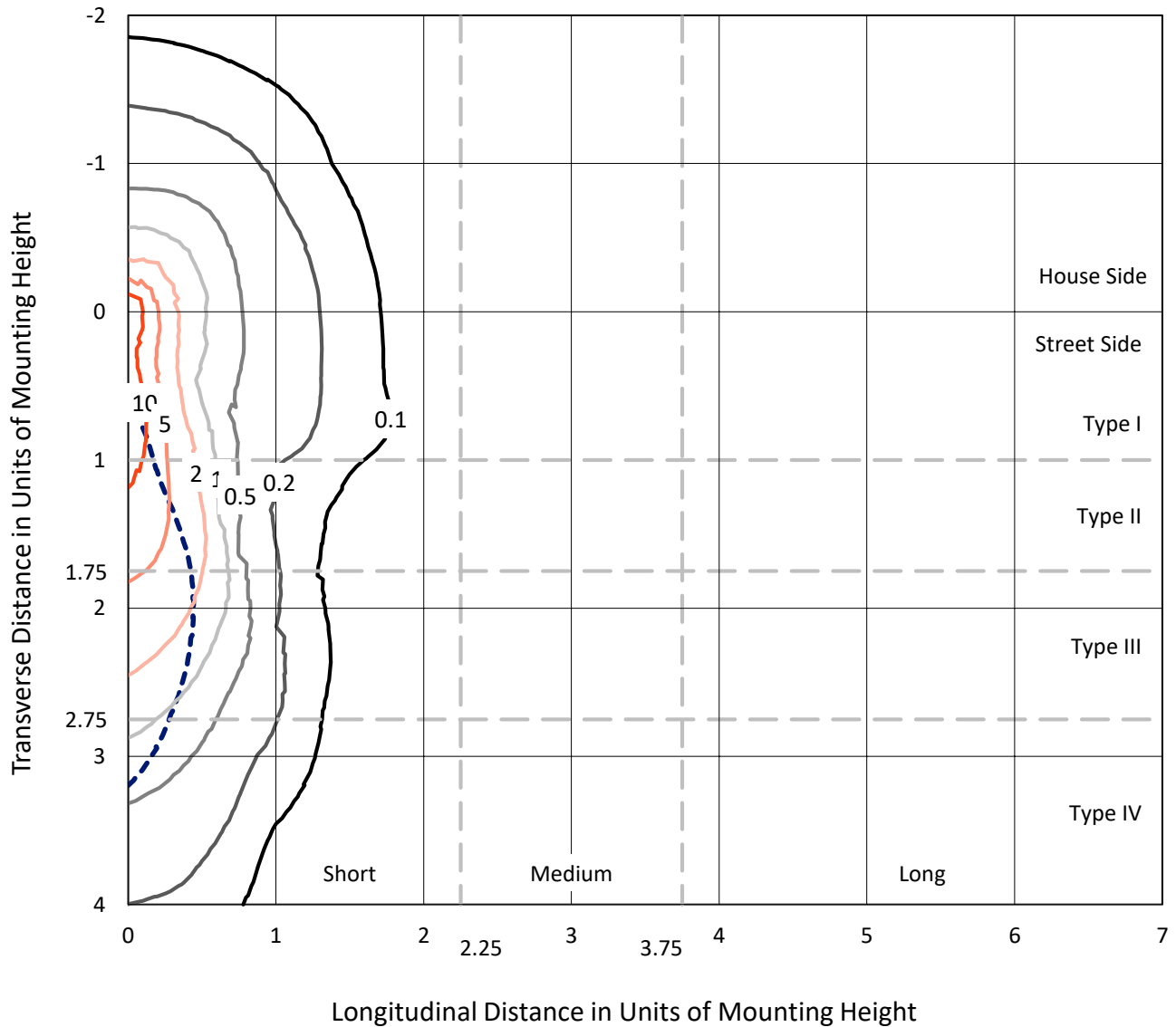
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

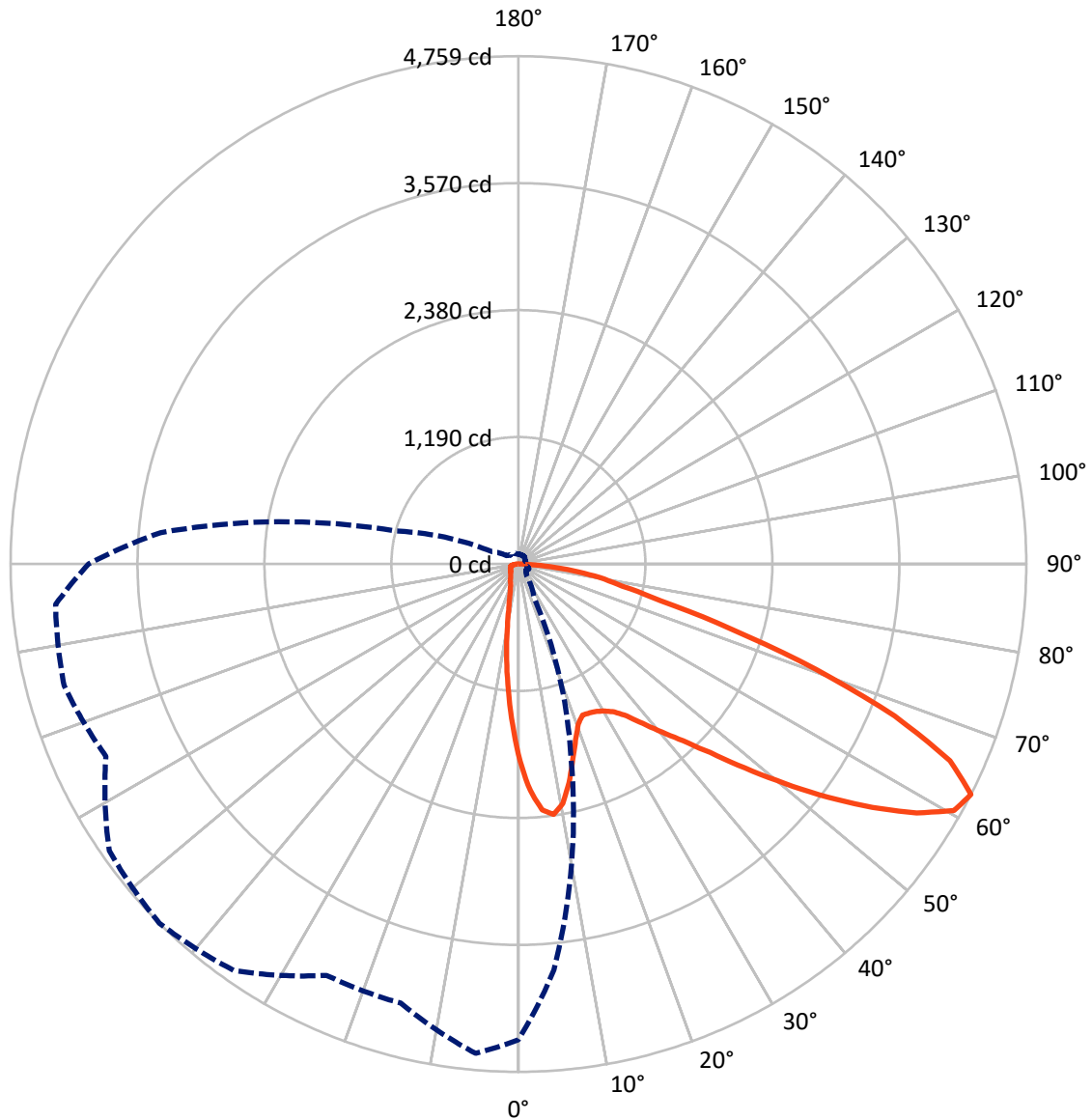
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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	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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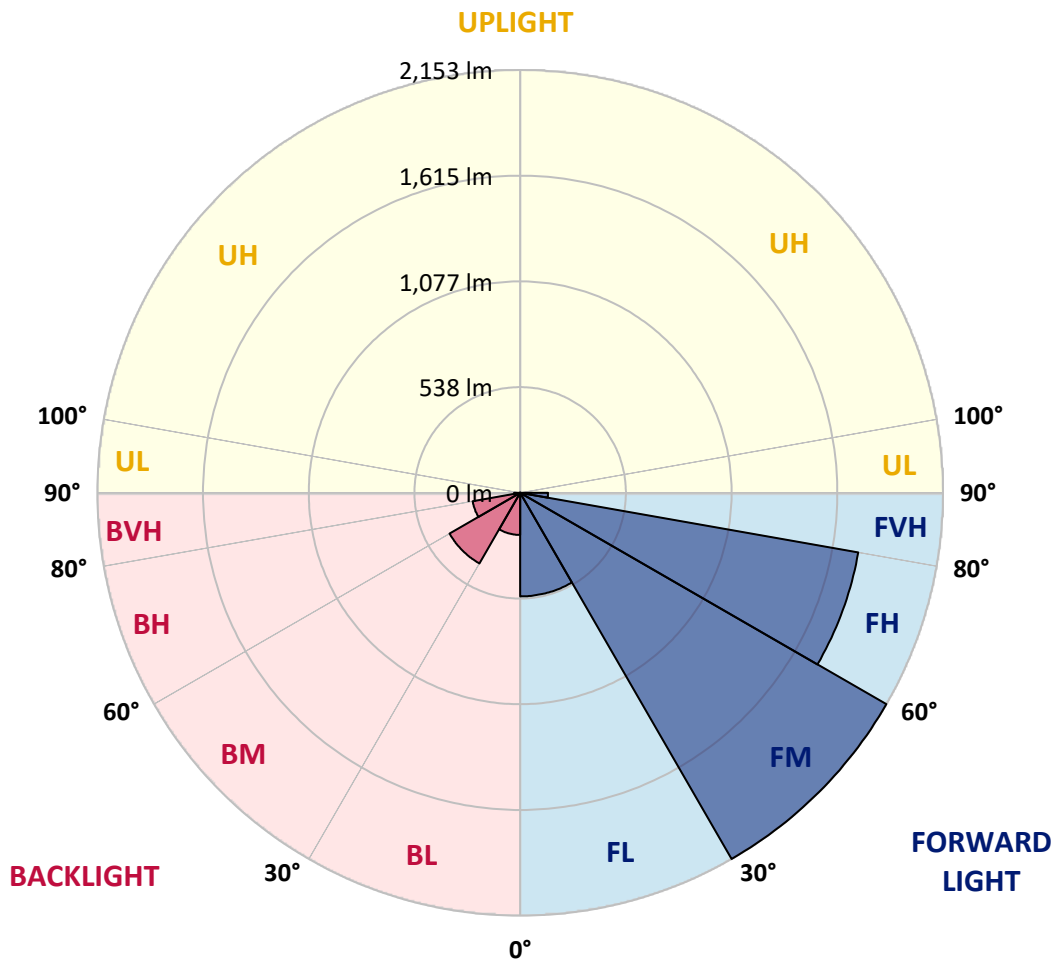
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7050

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	1883.9	1818.8	1751.1	1709.8	1661.7	1624.0	1590.9	1524.6	1511.7	1523.4
5°	1808.3	1729.7	1607.1	1483.7	1401.5	1313.2	1244.6	1189.5	1105.5	1090.7	1108.5
7.5°	1624.3	1530.4	1368.3	1210.9	1094.6	984.4	910.3	851.3	785.7	757.3	759.2
10°	1465.6	1359.6	1168.1	996.8	901.6	827.2	764.9	704.4	637.8	594.1	582.1
12.5°	1376.8	1254.8	1034.1	881.1	792.9	714.6	647.4	582.7	511.6	467.1	454.4
15°	1361.4	1228.9	983.8	807.0	696.5	597.4	518.2	446.0	372.8	336.7	329.1
17.5°	1428.0	1275.3	967.5	741.1	605.9	483.6	386.4	305.7	246.0	228.0	226.5
20°	1555.7	1364.4	965.4	679.1	516.4	373.1	269.2	210.5	184.3	179.2	179.5
22.5°	1734.8	1502.7	991.3	632.4	434.2	278.2	202.4	176.2	165.9	161.1	161.1
25°	1966.7	1693.0	1051.0	598.4	362.9	222.2	178.6	162.9	153.3	150.0	150.6
27.5°	2191.3	1878.2	1120.2	571.6	316.2	201.8	169.2	155.1	146.7	143.3	144.8
30°	2366.6	2042.6	1178.0	535.1	292.4	196.0	172.5	158.1	146.0	140.9	141.2
32.5°	2511.8	2186.5	1226.5	508.9	271.3	168.0	148.8	142.4	140.9	134.9	131.9
35°	2697.2	2343.4	1259.0	509.5	261.4	150.0	132.5	121.4	113.2	106.3	106.3
37.5°	2914.7	2523.5	1293.7	516.4	257.8	139.4	126.8	115.6	108.1	101.5	100.3
40°	3129.7	2700.0	1325.3	523.1	255.7	133.1	122.3	112.0	105.1	98.5	96.7
42.5°	3312.5	2845.1	1353.6	526.4	248.4	132.5	118.9	109.6	103.0	95.8	94.0
45°	3447.7	2966.8	1384.0	531.5	241.2	134.9	118.9	109.3	101.2	94.3	92.4
47.5°	3568.4	3109.5	1434.9	531.5	232.5	130.4	122.9	109.6	100.9	93.7	92.1
50°	3730.1	3305.2	1531.3	519.2	220.1	125.6	129.5	108.4	98.2	92.4	90.6
52.5°	3953.0	3556.1	1684.2	497.8	201.2	116.2	128.6	107.8	95.5	89.4	87.3
55°	4216.5	3824.7	1851.1	472.8	172.9	109.6	124.1	106.3	92.4	85.8	83.7
57.5°	4422.1	4009.6	1968.5	434.2	148.2	106.0	109.9	104.8	88.8	81.9	80.1
60°	4504.0	4002.4	2000.7	382.7	136.1	103.0	96.1	117.4	85.8	78.9	76.8
62.5°	4459.8	3817.5	1910.4	346.6	133.4	99.1	90.0	108.7	83.4	76.8	73.8
65°	4255.3	3489.8	1671.0	337.0	141.2	95.2	86.1	85.2	80.1	73.8	70.8
67.5°	3809.9	3000.2	1337.9	337.9	151.2	91.2	82.2	78.0	75.6	70.5	67.8
70°	3103.2	2372.0	997.4	340.3	156.3	86.7	78.0	73.5	70.8	65.6	63.8
72.5°	2281.7	1828.2	724.5	324.6	157.2	81.6	72.3	68.4	65.6	60.2	58.7
75°	1561.1	1398.5	502.6	268.9	137.0	74.4	65.9	62.3	60.5	53.9	53.0
77.5°	1140.4	1049.7	321.6	199.7	105.7	65.3	58.1	55.4	54.2	47.0	45.8
80°	915.1	830.5	201.2	136.7	77.4	54.8	48.8	47.3	46.1	38.8	37.9
82.5°	634.8	556.2	129.2	88.8	58.1	42.5	38.5	37.9	36.1	29.5	28.6
85°	334.9	302.0	81.9	60.5	42.2	29.2	26.8	26.8	25.9	19.6	19.0
87.5°	42.8	69.6	41.6	31.6	23.2	12.9	12.9	12.6	13.6	11.1	9.6
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):

	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°	1495.7	1510.2	1496.3	1497.2	1512.6	1558.4	1579.1	1596.3	1614.7	1626.7	1632.1
5°	1084.1	1117.8	1129.2	1153.3	1188.9	1247.3	1270.5	1287.3	1298.5	1305.1	1307.8
7.5°	741.4	761.9	784.8	823.6	901.0	935.3	950.7	946.8	934.1	929.6	925.1
10°	558.9	550.8	546.6	567.9	630.6	665.2	676.0	665.5	658.6	660.1	667.6
12.5°	433.0	418.9	401.7	399.3	440.6	471.6	478.5	479.1	491.8	502.9	519.5
15°	315.6	314.1	305.7	300.5	324.0	349.3	352.3	357.7	369.2	377.3	391.8
17.5°	222.5	230.7	237.3	240.6	258.4	276.4	273.1	270.4	268.3	268.3	275.2
20°	179.5	184.9	193.3	203.0	221.0	233.7	225.5	214.7	206.9	204.5	205.4
22.5°	161.7	165.9	170.7	179.2	195.4	204.2	195.4	187.6	179.8	177.1	176.2
25°	152.7	158.1	162.6	168.9	181.0	187.0	178.6	172.9	168.0	164.7	162.3
27.5°	147.6	152.4	153.6	156.6	166.8	172.2	168.0	165.6	162.6	159.6	156.6
30°	142.1	141.2	139.1	139.4	147.6	153.0	152.7	153.3	153.0	152.1	151.5
32.5°	129.8	128.0	126.2	128.0	135.5	140.3	140.6	141.8	141.8	141.5	143.9
35°	108.1	111.4	113.5	118.9	128.0	132.2	130.4	127.4	122.0	118.6	118.3
37.5°	100.0	100.6	104.2	111.7	121.7	125.6	122.9	115.9	112.3	111.7	112.6
40°	96.1	96.7	98.8	105.7	115.6	119.5	117.1	112.0	108.7	108.4	109.9
42.5°	93.4	94.0	95.2	100.0	108.1	112.9	113.2	109.6	105.7	106.0	107.5
45°	91.8	92.1	91.8	94.3	101.8	107.5	109.9	107.5	104.2	104.8	106.6
47.5°	91.5	90.6	89.4	90.0	97.9	103.6	106.6	105.7	104.2	104.8	106.3
50°	90.3	88.2	86.7	86.4	94.3	100.3	103.0	103.0	103.6	104.8	106.3
52.5°	86.7	84.3	84.3	83.4	91.8	97.6	99.4	99.7	100.6	102.7	104.8
55°	82.2	81.3	82.2	80.7	90.0	95.5	96.4	97.0	97.6	99.4	102.4
57.5°	78.3	77.1	79.2	78.6	88.5	93.4	93.4	94.6	94.6	97.0	99.4
60°	76.2	73.8	74.7	75.3	86.4	91.5	90.9	92.1	92.7	94.9	96.7
62.5°	73.5	71.4	71.4	72.9	84.0	88.8	88.5	89.4	91.8	92.4	94.3
65°	70.2	69.3	68.4	70.2	81.6	85.8	86.1	87.3	89.4	90.0	91.5
67.5°	66.9	67.2	65.3	67.2	79.5	82.8	82.8	85.2	86.1	87.3	88.8
70°	63.2	63.5	62.0	64.1	78.0	79.5	79.2	82.5	83.1	84.0	85.5
72.5°	58.7	58.7	58.1	61.1	75.6	76.2	75.6	78.3	78.6	79.5	80.1
75°	53.9	53.9	53.3	57.5	74.1	72.6	70.8	72.9	73.5	74.1	74.1
77.5°	47.6	48.2	48.2	53.3	69.0	71.1	65.0	66.2	67.2	67.5	66.6
80°	39.7	41.3	41.9	48.5	57.8	65.6	58.1	59.0	59.3	59.3	58.1
82.5°	30.4	33.1	34.6	41.9	44.3	55.1	50.6	51.5	50.6	48.8	48.2
85°	21.1	24.7	26.5	31.9	33.4	42.5	42.2	42.2	40.4	37.9	37.6
87.5°	11.4	13.6	14.8	19.0	22.9	28.6	31.0	30.1	28.6	27.1	27.4
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):

	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°	1660.4	1701.4	1766.7	1816.7	1867.0	1915.5	1967.9	2008.0	2042.0	2055.2	2095.6
5°	1335.2	1386.4	1448.1	1559.6	1638.5	1725.5	1826.1	1959.2	2010.4	2081.1	2197.1
7.5°	944.1	990.4	1089.8	1179.8	1291.6	1414.7	1550.5	1734.2	1801.4	1914.9	2103.7
10°	705.0	758.9	838.7	914.5	1013.0	1138.9	1294.9	1500.2	1581.9	1705.0	1922.4
12.5°	567.9	631.5	716.1	787.5	863.6	952.5	1104.0	1329.2	1438.5	1546.3	1766.1
15°	436.3	502.9	581.5	672.1	756.1	851.9	1010.6	1256.9	1382.8	1495.1	1682.7
17.5°	302.0	359.0	458.0	552.6	660.1	782.6	984.7	1272.3	1422.6	1552.0	1697.2
20°	214.1	246.6	327.9	437.5	571.6	725.4	979.9	1353.0	1548.4	1696.3	1789.9
22.5°	180.1	192.1	239.4	340.0	494.8	682.7	996.8	1466.2	1718.3	1907.1	1937.8
25°	164.1	171.3	196.0	266.8	426.4	651.7	1053.7	1634.9	1928.5	2117.9	2112.4
27.5°	155.4	162.9	179.2	225.2	374.9	632.4	1110.6	1834.8	2168.8	2346.7	2279.3
30°	152.7	162.9	180.1	212.3	338.2	602.0	1157.3	2010.4	2353.7	2501.2	2355.2
32.5°	150.6	152.1	159.9	183.1	303.2	566.4	1188.9	2167.9	2534.6	2648.2	2464.5
35°	121.7	129.2	141.8	164.1	282.8	545.1	1188.9	2303.7	2712.9	2796.6	2568.7
37.5°	117.1	123.8	134.9	153.9	271.3	534.5	1165.1	2434.7	2895.1	2965.0	2654.5
40°	114.7	120.2	130.7	146.0	266.5	522.5	1130.5	2550.3	3073.1	3133.6	2734.6
42.5°	112.9	117.7	127.7	141.2	260.2	509.2	1102.4	2643.0	3227.5	3277.5	2811.1
45°	112.0	117.1	128.0	143.6	247.5	491.8	1093.1	2743.3	3354.6	3397.7	2893.9
47.5°	112.0	118.0	129.5	148.8	232.5	473.7	1122.3	2875.5	3474.8	3495.9	2991.5
50°	111.1	117.7	133.7	143.6	210.5	450.8	1191.0	3042.0	3604.9	3607.3	3114.9
52.5°	109.3	117.1	143.9	140.6	185.2	420.7	1283.7	3255.9	3797.3	3811.7	3308.2
55°	107.2	116.2	141.2	133.7	164.4	384.8	1359.6	3515.7	4067.7	4107.8	3592.5
57.5°	104.5	115.0	136.7	124.1	150.9	338.8	1387.0	3706.0	4256.5	4357.1	3912.9
60°	102.1	114.1	123.5	118.3	142.4	299.9	1334.0	3668.4	4243.6	4460.4	4196.9
62.5°	99.7	115.0	112.6	114.7	138.5	274.9	1195.5	3367.0	4028.9	4353.8	4407.4
65°	97.0	106.9	106.3	111.7	137.6	265.0	991.0	2915.0	3613.9	4016.8	4457.1
67.5°	93.4	98.8	101.8	107.8	140.6	256.3	799.8	2404.5	3037.2	3511.8	4198.1
70°	89.4	94.0	97.3	103.0	138.8	252.3	665.2	1896.2	2410.0	2878.2	3687.1
72.5°	84.3	88.2	91.2	96.7	137.0	250.2	561.9	1527.0	1799.3	2138.0	2997.8
75°	78.3	81.9	84.0	89.4	131.3	229.2	441.8	1292.2	1346.4	1487.3	2387.7
77.5°	71.4	74.1	75.9	81.9	116.2	190.6	319.5	996.8	1045.5	1079.9	1830.6
80°	63.2	65.9	66.9	72.6	96.4	149.1	208.4	736.3	782.0	789.9	1195.5
82.5°	53.9	56.6	56.6	62.0	78.9	107.2	136.7	504.4	513.4	539.9	845.0
85°	43.4	45.5	45.5	48.2	61.1	80.1	94.0	253.3	250.5	286.1	732.1
87.5°	31.0	32.5	34.0	34.6	43.7	53.0	56.6	77.1	50.9	58.4	470.1
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°	2126.0	2143.2	2125.7	2113.1	2058.5	2013.7	1953.8	1923.0
5°	2285.3	2329.0	2314.2	2261.2	2147.4	2019.4	1874.0	1808.3
7.5°	2266.0	2367.5	2369.9	2270.8	2103.1	1914.6	1717.7	1624.3
10°	2116.1	2245.8	2282.9	2186.8	2008.9	1798.1	1572.2	1465.6
12.5°	1948.6	2075.7	2104.0	2070.9	1922.1	1710.4	1481.3	1376.8
15°	1811.6	1868.5	1902.3	1931.2	1847.8	1675.5	1476.2	1361.4
17.5°	1728.2	1721.9	1731.5	1781.8	1796.0	1715.6	1554.4	1428.0
20°	1698.1	1601.4	1599.0	1668.3	1771.6	1811.0	1707.4	1555.7
22.5°	1714.7	1558.1	1538.2	1620.4	1784.5	1948.6	1908.0	1734.8
25°	1771.9	1561.7	1545.7	1625.2	1831.5	2095.3	2124.5	1966.7
27.5°	1861.9	1584.6	1563.5	1645.1	1893.8	2218.4	2337.7	2191.3
30°	1947.4	1624.3	1598.1	1684.2	1950.7	2267.2	2468.4	2366.6
32.5°	2051.3	1698.7	1652.6	1756.2	2021.2	2344.9	2584.9	2511.8
35°	2153.1	1804.7	1747.5	1867.3	2099.8	2441.6	2718.0	2697.2
37.5°	2264.8	1943.2	1895.9	2011.0	2207.3	2532.8	2887.9	2914.7
40°	2384.1	2126.9	2070.9	2220.6	2374.1	2647.3	3065.2	3129.7
42.5°	2504.2	2330.8	2263.9	2415.7	2557.5	2760.2	3217.0	3312.5
45°	2641.8	2552.1	2520.5	2684.6	2733.7	2867.7	3329.0	3447.7
47.5°	2802.0	2803.2	2854.1	2919.8	2911.4	2989.3	3441.6	3568.4
50°	2989.0	3116.7	3229.0	3272.7	3094.4	3120.0	3597.9	3730.1
52.5°	3213.7	3491.6	3630.8	3602.2	3291.7	3279.6	3845.5	3953.0
55°	3494.6	3888.5	4026.8	4006.3	3518.4	3497.1	4153.8	4216.5
57.5°	3819.9	4273.1	4400.2	4308.0	3790.7	3735.6	4408.9	4422.1
60°	4105.6	4577.8	4689.2	4587.2	4065.3	3989.4	4568.2	4504.0
62.5°	4264.6	4681.1	4759.4	4649.5	4253.5	4259.8	4603.1	4459.8
65°	4193.6	4420.0	4445.3	4436.3	4205.0	4416.7	4477.5	4255.3
67.5°	3804.5	3759.9	3802.4	3861.1	3789.5	4210.1	4129.7	3809.9
70°	3119.1	2874.3	2958.9	2998.4	3030.9	3622.9	3584.4	3103.2
72.5°	2350.6	2013.7	2080.5	2072.4	2223.0	2905.9	2787.6	2281.7
75°	1665.6	1365.3	1373.8	1370.5	1551.1	2273.6	2018.5	1561.1
77.5°	1165.4	989.2	993.7	1012.4	1042.8	1714.7	1442.1	1140.4
80°	801.3	750.7	775.7	777.2	722.7	1151.8	1065.4	915.1
82.5°	596.8	521.9	515.8	524.6	566.4	933.2	818.8	634.8
85°	488.7	309.0	248.4	311.4	502.0	924.2	543.8	334.9
87.5°	275.2	146.7	66.2	122.9	200.3	611.9	157.2	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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