

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: P193079

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193079
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 5811.5 lumens
Efficiency: N/A
Efficacy: 86.7 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): 67
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

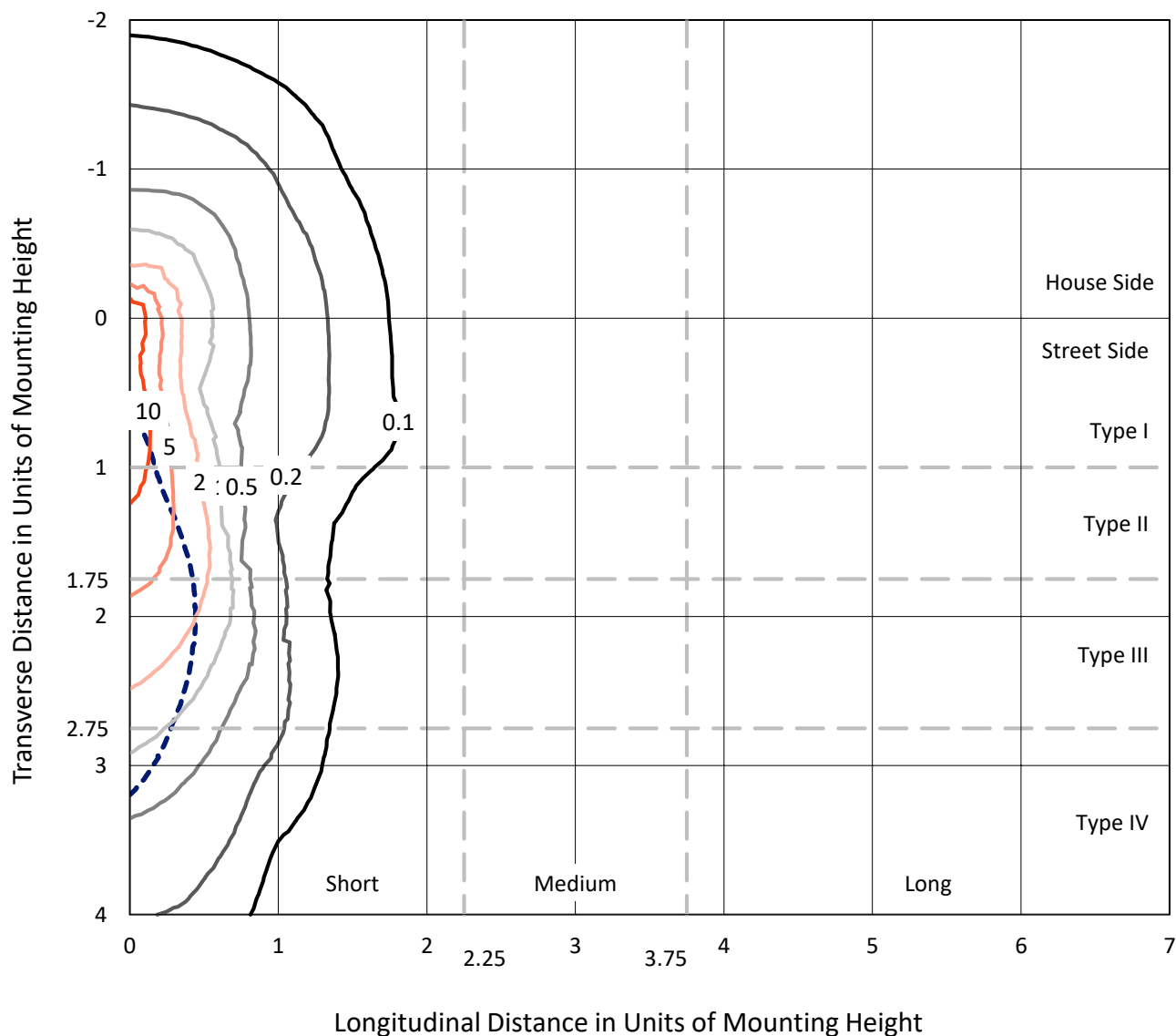


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

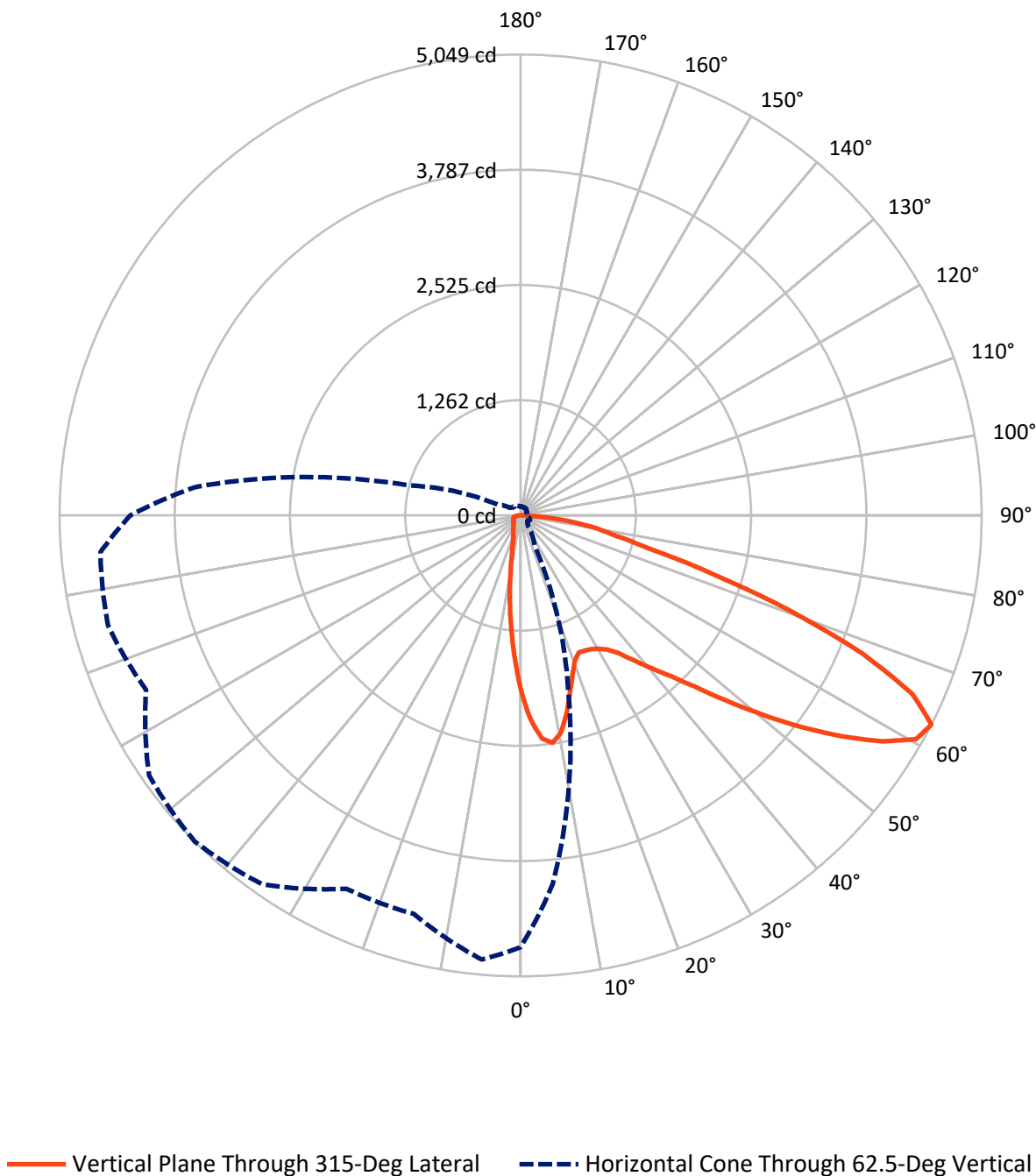


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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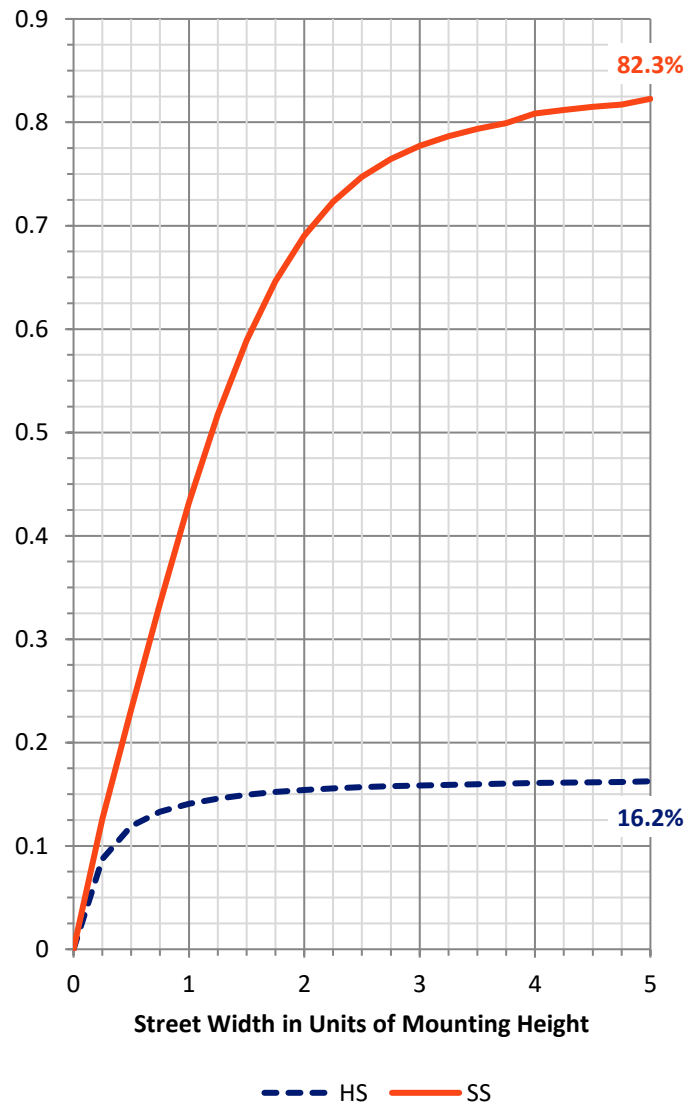
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.7	0.0	961.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4849.8	0.0	4849.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	5811.5	0.0	5811.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	2.5
10°-20°	262.1	4.5
20°-30°	382.1	6.6
30°-40°	588.5	10.1
40°-50°	866.2	14.9
50°-60°	1270.5	21.9
60°-70°	1420.2	24.4
70°-80°	695.3	12.0
80°-90°	183.6	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°	5811.5	100.0
0°-180°	5811.5	100.0

Coefficient of Utilization



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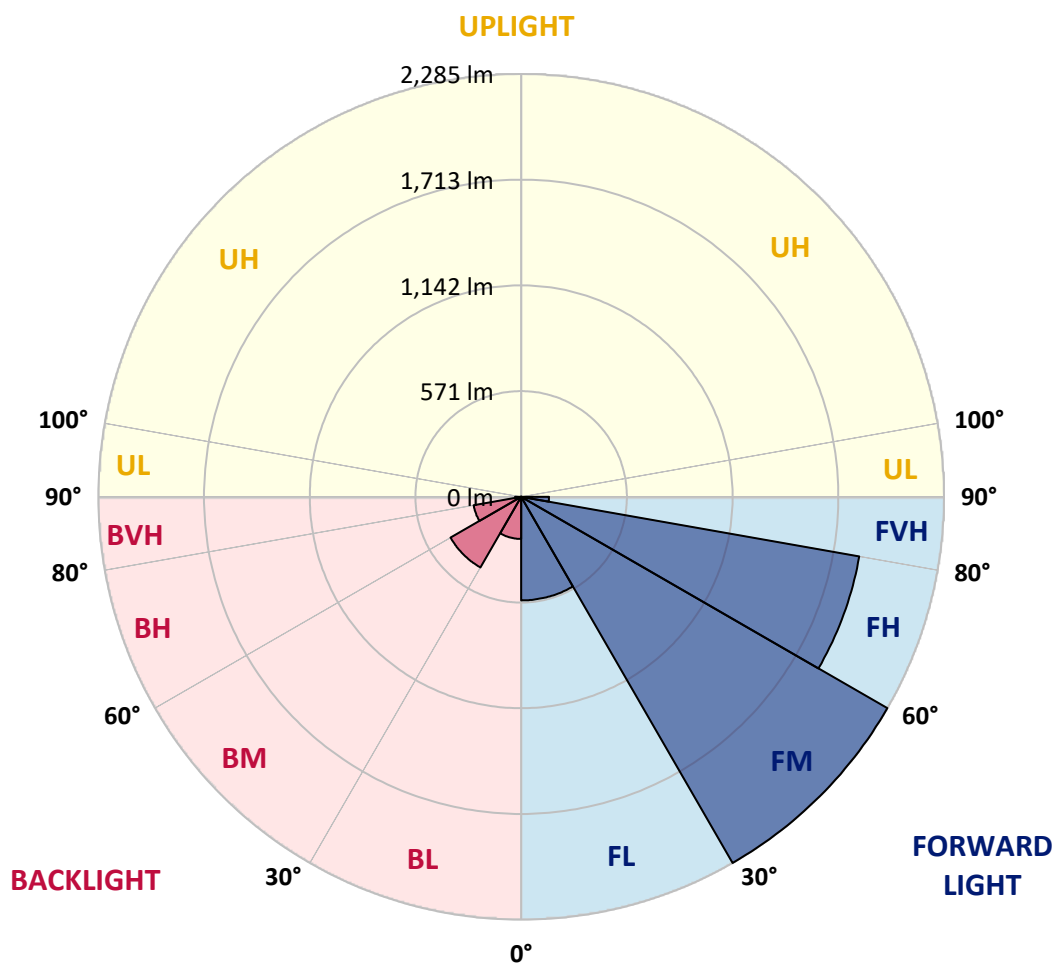
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.6	9.6			
FM	(30°-60°)	2284.5	39.3			
FH	(60°-80°)	1854.8	31.9			G2/5000
FVH	(80°-90°)	150.8	2.6			G2/225
BL	(0°-30°)	227.5	3.9	B1/500		
BM	(30°-60°)	440.7	7.6	B1/1000		
BH	(60°-80°)	260.7	4.5	B1/500		G1/500
BVH	(80°-90°)	32.8	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°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	2040.1	1998.6	1929.6	1857.7	1813.9	1762.8	1722.9	1687.7	1617.5	1603.7	1616.2
5°	1918.4	1835.0	1705.0	1574.0	1486.8	1393.2	1320.4	1262.0	1172.8	1157.0	1175.9
7.5°	1723.2	1623.5	1451.6	1284.6	1161.2	1044.3	965.8	903.1	833.5	803.5	805.4
10°	1554.9	1442.4	1239.2	1057.4	956.4	877.6	811.5	747.3	676.7	630.3	617.6
12.5°	1460.6	1331.3	1097.1	934.7	841.2	758.0	686.8	618.2	542.8	495.5	482.1
15°	1444.3	1303.8	1043.7	856.1	738.9	633.8	549.8	473.1	395.5	357.2	349.2
17.5°	1514.9	1352.9	1026.5	786.2	642.8	513.1	409.8	324.3	261.0	241.8	240.3
20°	1650.4	1447.4	1024.2	720.3	547.9	395.8	285.6	223.3	195.5	190.1	190.4
22.5°	1840.5	1594.1	1051.7	670.9	460.6	295.2	214.7	186.9	176.0	170.9	170.9
25°	2086.5	1796.0	1115.0	634.8	384.9	235.8	189.4	172.8	162.6	159.1	159.7
27.5°	2324.7	1992.6	1188.4	606.4	335.4	214.0	179.5	164.6	155.5	152.1	153.6
30°	2510.7	2166.9	1249.7	567.7	310.2	207.9	183.0	167.7	154.9	149.4	149.8
32.5°	2664.7	2319.7	1301.2	539.8	287.8	178.3	157.8	151.1	149.4	143.1	140.0
35°	2861.5	2486.0	1335.7	540.5	277.3	159.1	140.6	128.7	120.0	112.7	112.7
37.5°	3092.1	2677.1	1372.4	547.9	273.4	147.9	134.5	122.7	114.7	107.6	106.4
40°	3320.2	2864.3	1405.9	554.9	271.2	141.2	129.7	118.9	111.5	104.5	102.6
42.5°	3514.1	3018.3	1436.0	558.5	263.6	140.6	126.2	116.3	109.3	101.6	99.7
45°	3657.6	3147.4	1468.2	563.9	255.8	143.1	126.2	116.0	107.3	100.0	98.2
47.5°	3785.8	3298.7	1522.3	563.9	246.6	138.3	130.3	116.3	107.1	99.3	97.8
50°	3957.3	3506.4	1624.4	550.7	233.5	133.2	137.3	115.0	104.2	98.2	96.1
52.5°	4193.6	3772.6	1786.8	528.0	213.4	123.4	136.5	114.4	101.3	94.8	92.7
55°	4473.2	4057.6	1963.7	501.6	183.3	116.3	131.6	112.7	98.2	91.0	88.8
57.5°	4691.4	4253.7	2088.4	460.6	157.3	112.4	116.6	111.2	94.3	86.9	85.0
60°	4778.2	4246.1	2122.6	406.0	144.4	109.3	101.9	124.5	91.0	83.7	81.5
62.5°	4731.3	4049.9	2026.6	367.6	141.5	105.1	95.5	115.4	88.5	81.5	78.2
65°	4514.4	3702.2	1772.7	357.5	149.8	100.9	91.3	90.3	85.0	78.2	75.1
67.5°	4041.9	3182.8	1419.4	358.5	160.4	96.8	87.2	82.7	80.2	74.8	71.9
70°	3292.1	2516.5	1058.0	361.0	165.8	92.0	82.7	77.9	75.1	69.6	67.7
72.5°	2420.6	1939.5	768.6	344.3	166.7	86.6	76.7	72.5	69.6	63.9	62.3
75°	1656.2	1483.6	533.1	285.2	145.4	78.8	69.9	66.1	64.3	57.2	56.3
77.5°	1209.8	1113.7	341.2	211.9	112.1	69.3	61.6	58.8	57.5	49.8	48.5
80°	970.9	881.0	213.4	145.0	82.1	58.1	51.8	50.1	48.8	41.2	40.2
82.5°	673.5	590.0	137.0	94.3	61.6	45.1	40.9	40.2	38.4	31.3	30.4
85°	355.2	320.4	86.9	64.3	44.7	31.0	28.4	28.4	27.5	20.8	20.1
87.5°	45.4	73.8	44.1	33.6	24.6	13.7	13.7	13.4	14.4	11.8	10.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	1586.8	1602.1	1587.4	1588.4	1604.7	1653.2	1675.3	1693.5	1712.9	1725.7	1731.5
5°	1150.1	1185.9	1198.0	1223.6	1261.3	1323.2	1347.8	1365.7	1377.5	1384.6	1387.5
7.5°	786.5	808.3	832.5	873.7	955.8	992.3	1008.6	1004.4	991.0	986.2	981.3
10°	592.9	584.3	579.8	602.6	669.0	705.7	717.2	706.1	698.7	700.3	708.2
12.5°	459.4	444.3	426.2	423.6	467.4	500.3	507.6	508.3	521.7	533.5	551.1
15°	334.8	333.2	324.3	318.8	343.7	370.6	373.7	379.5	391.7	400.3	415.6
17.5°	236.1	244.7	251.8	255.2	274.1	293.3	289.7	287.0	284.6	284.6	291.9
20°	190.4	196.1	205.1	215.3	234.5	247.9	239.3	227.8	219.5	216.9	217.9
22.5°	171.5	176.0	181.2	190.1	207.4	216.6	207.4	199.1	190.7	187.8	186.9
25°	161.9	167.7	172.5	179.1	192.0	198.5	189.4	183.3	178.3	174.7	172.2
27.5°	156.6	161.7	162.9	166.1	177.0	182.7	178.3	175.7	172.5	169.4	166.1
30°	150.8	149.8	147.6	147.9	156.6	162.2	161.9	162.6	162.2	161.3	160.7
32.5°	137.6	135.8	133.9	135.8	143.7	148.9	149.1	150.4	150.4	150.1	152.8
35°	114.7	118.2	120.4	126.2	135.8	140.3	138.3	135.2	129.4	125.8	125.5
37.5°	106.1	106.7	110.6	118.5	129.0	133.2	130.3	123.0	119.2	118.5	119.5
40°	101.9	102.6	104.8	112.1	122.7	126.8	124.2	118.9	115.4	115.0	116.6
42.5°	99.0	99.7	100.9	106.1	114.7	119.7	120.0	116.3	112.1	112.4	114.0
45°	97.5	97.8	97.5	100.0	107.9	114.0	116.6	114.0	110.6	111.2	113.1
47.5°	97.1	96.1	94.8	95.5	103.8	110.0	113.1	112.1	110.6	111.2	112.7
50°	95.8	93.6	92.0	91.7	100.0	106.4	109.3	109.3	110.0	111.2	112.7
52.5°	92.0	89.5	89.5	88.5	97.5	103.5	105.4	105.8	106.7	108.9	111.2
55°	87.2	86.2	87.2	85.7	95.5	101.3	102.2	102.9	103.5	105.4	108.6
57.5°	83.0	81.8	84.0	83.4	94.0	99.0	99.0	100.3	100.3	102.9	105.4
60°	80.9	78.2	79.2	79.9	91.7	97.1	96.4	97.8	98.5	100.6	102.6
62.5°	77.9	75.7	75.7	77.3	89.1	94.3	94.0	94.8	97.5	98.2	100.0
65°	74.4	73.5	72.5	74.4	86.6	91.0	91.3	92.7	94.8	95.5	97.1
67.5°	70.9	71.2	69.3	71.2	84.3	87.9	87.9	90.3	91.3	92.7	94.3
70°	67.0	67.4	65.8	68.1	82.7	84.3	84.0	87.5	88.2	89.1	90.6
72.5°	62.3	62.3	61.6	64.9	80.2	80.9	80.2	83.0	83.4	84.3	85.0
75°	57.2	57.2	56.6	60.9	78.5	77.0	75.1	77.3	77.9	78.5	78.5
77.5°	50.5	51.2	51.2	56.6	73.2	75.4	69.1	70.3	71.2	71.6	70.6
80°	42.2	43.8	44.4	51.5	61.3	69.6	61.6	62.6	63.0	63.0	61.6
82.5°	32.2	35.2	36.7	44.4	47.0	58.5	53.6	54.6	53.6	51.8	51.2
85°	22.4	26.2	28.1	33.9	35.5	45.1	44.7	44.7	42.8	40.2	39.9
87.5°	12.1	14.4	15.7	20.1	24.2	30.4	32.9	31.9	30.4	28.7	29.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	1761.6	1805.0	1874.4	1927.4	1980.7	2032.1	2087.7	2130.2	2166.3	2180.4	2223.2
5°	1416.5	1470.8	1536.3	1654.5	1738.2	1830.5	1937.2	2078.4	2132.7	2207.8	2330.8
7.5°	1001.6	1050.7	1156.2	1251.7	1370.2	1500.9	1644.9	1839.8	1911.1	2031.4	2231.8
10°	747.9	805.0	889.7	970.2	1074.7	1208.2	1373.7	1591.6	1678.1	1808.8	2039.5
12.5°	602.6	669.9	759.7	835.4	916.2	1010.4	1171.1	1410.1	1526.2	1640.4	1873.7
15°	462.9	533.5	616.9	713.0	802.2	903.8	1072.2	1333.4	1467.1	1586.1	1785.2
17.5°	320.4	380.8	485.8	586.1	700.3	830.3	1044.6	1349.8	1509.2	1646.5	1800.5
20°	227.2	261.6	347.9	464.2	606.4	769.6	1039.5	1435.3	1642.7	1799.5	1898.9
22.5°	191.1	203.8	254.0	360.7	524.9	724.3	1057.4	1555.6	1822.9	2023.2	2055.7
25°	174.2	181.8	207.9	283.1	452.4	691.3	1117.8	1734.4	2045.9	2246.8	2241.0
27.5°	164.9	172.8	190.1	239.0	397.7	670.9	1178.2	1946.5	2300.8	2489.6	2418.0
30°	161.9	172.8	191.1	225.2	358.8	638.6	1227.7	2132.7	2496.9	2653.5	2498.5
32.5°	159.7	161.3	169.7	194.3	321.7	600.9	1261.3	2299.8	2689.0	2809.4	2614.5
35°	129.0	137.0	150.4	174.2	300.0	578.2	1261.3	2443.9	2878.1	2966.8	2725.0
37.5°	124.2	131.3	143.1	163.3	287.8	567.0	1236.0	2582.9	3071.4	3145.5	2816.0
40°	121.8	127.5	138.6	154.9	282.8	554.3	1199.2	2705.6	3260.2	3324.3	2901.1
42.5°	119.7	124.9	135.5	149.8	276.0	540.2	1169.5	2803.9	3424.0	3477.0	2982.2
45°	118.9	124.2	135.8	152.4	262.6	521.7	1159.7	2910.3	3558.9	3604.6	3070.0
47.5°	118.9	125.2	137.3	157.8	246.6	502.5	1190.6	3050.6	3686.3	3708.7	3173.6
50°	117.9	124.9	141.8	152.4	223.3	478.2	1263.5	3227.2	3824.3	3827.0	3304.5
52.5°	116.0	124.2	152.8	149.1	196.4	446.4	1361.9	3454.0	4028.5	4043.8	3509.6
55°	113.7	123.4	149.8	141.8	174.4	408.3	1442.4	3729.8	4315.3	4357.8	3811.2
57.5°	110.9	122.1	145.0	131.6	160.1	359.4	1471.5	3931.7	4515.6	4622.3	4151.1
60°	108.2	121.1	131.0	125.5	151.1	318.2	1415.2	3891.7	4501.9	4731.9	4452.5
62.5°	105.8	122.1	119.5	121.8	147.0	291.7	1268.3	3571.9	4274.1	4618.8	4675.8
65°	102.9	113.4	112.7	118.5	146.0	281.2	1051.4	3092.5	3833.9	4261.3	4728.4
67.5°	99.0	104.8	107.9	114.4	149.1	271.8	848.5	2550.9	3222.2	3725.6	4453.6
70°	94.8	99.7	103.1	109.3	147.3	267.6	705.7	2011.7	2556.6	3053.5	3911.6
72.5°	89.5	93.6	96.8	102.6	145.4	265.5	596.1	1620.0	1908.8	2268.2	3180.3
75°	83.0	86.9	89.1	94.8	139.3	243.1	468.6	1370.8	1428.3	1577.8	2533.0
77.5°	75.7	78.5	80.6	86.9	123.4	202.2	338.9	1057.4	1109.2	1145.6	1942.1
80°	67.0	69.9	70.9	77.0	102.2	158.1	221.0	781.1	829.6	837.9	1268.3
82.5°	57.2	60.1	60.1	65.8	83.7	113.7	145.0	535.2	544.6	572.8	896.5
85°	46.0	48.3	48.3	51.2	64.9	85.0	99.7	268.7	265.8	303.5	776.7
87.5°	32.9	34.5	36.0	36.7	46.3	56.3	60.1	81.8	54.0	62.0	498.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	2255.4	2273.6	2255.1	2241.7	2183.9	2136.2	2072.6	2040.1
5°	2424.5	2470.8	2455.0	2398.9	2278.2	2142.3	1988.1	1918.4
7.5°	2404.0	2511.7	2514.2	2409.0	2231.2	2031.1	1822.2	1723.2
10°	2244.8	2382.6	2421.8	2320.0	2131.2	1907.5	1668.0	1554.9
12.5°	2067.3	2202.1	2232.0	2196.9	2039.1	1814.6	1571.4	1460.6
15°	1921.9	1982.3	2018.0	2048.7	1960.2	1777.5	1566.0	1444.3
17.5°	1833.4	1826.7	1836.9	1890.3	1905.3	1820.0	1649.0	1514.9
20°	1801.4	1698.9	1696.4	1769.9	1879.4	1921.3	1811.4	1650.4
22.5°	1819.0	1652.9	1631.8	1719.0	1893.1	2067.3	2024.1	1840.5
25°	1879.7	1656.7	1639.9	1724.1	1942.9	2222.9	2253.8	2086.5
27.5°	1975.3	1681.1	1658.7	1745.2	2009.2	2353.6	2479.9	2324.7
30°	2066.0	1723.2	1695.3	1786.8	2069.5	2405.3	2618.6	2510.7
32.5°	2176.2	1802.1	1753.3	1863.1	2144.2	2487.8	2742.3	2664.7
35°	2284.2	1914.5	1853.9	1981.0	2227.7	2590.2	2883.5	2861.5
37.5°	2402.7	2061.5	2011.4	2133.4	2341.7	2687.0	3063.6	3092.1
40°	2529.3	2256.4	2196.9	2355.7	2518.7	2808.4	3251.9	3320.2
42.5°	2656.6	2472.6	2401.7	2562.7	2713.2	2928.2	3412.8	3514.1
45°	2802.7	2707.5	2673.9	2848.1	2900.1	3042.4	3531.7	3657.6
47.5°	2972.6	2973.9	3027.9	3097.5	3088.6	3171.4	3651.2	3785.8
50°	3171.0	3306.5	3425.6	3471.9	3282.8	3310.0	3817.0	3957.3
52.5°	3409.3	3704.2	3851.8	3821.5	3492.0	3479.3	4079.6	4193.6
55°	3707.3	4125.3	4271.9	4250.1	3732.7	3710.0	4406.8	4473.2
57.5°	4052.4	4533.2	4668.0	4570.4	4021.4	3963.0	4677.3	4691.4
60°	4355.6	4856.6	4974.7	4866.4	4312.8	4232.2	4846.3	4778.2
62.5°	4524.3	4966.1	5049.2	4932.5	4512.4	4519.2	4883.4	4731.3
65°	4448.9	4689.1	4715.9	4706.4	4461.0	4685.6	4750.1	4514.4
67.5°	4036.1	3988.8	4033.9	4096.2	4020.2	4466.4	4381.2	4041.9
70°	3309.0	3049.3	3139.0	3181.0	3215.4	3843.5	3802.6	3292.1
72.5°	2493.8	2136.2	2207.1	2198.6	2358.3	3082.9	2957.3	2420.6
75°	1766.9	1448.4	1457.4	1453.9	1645.6	2412.0	2141.4	1656.2
77.5°	1236.4	1049.4	1054.3	1074.0	1106.4	1819.0	1529.9	1209.8
80°	850.1	796.4	822.9	824.6	766.7	1221.9	1130.3	970.9
82.5°	633.1	553.6	547.3	556.4	600.9	990.0	868.6	673.5
85°	518.6	327.8	263.6	330.3	532.5	980.5	577.0	355.2
87.5°	291.9	155.5	70.3	130.3	212.4	649.1	166.7	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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