

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: P193050

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193050
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA 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: 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



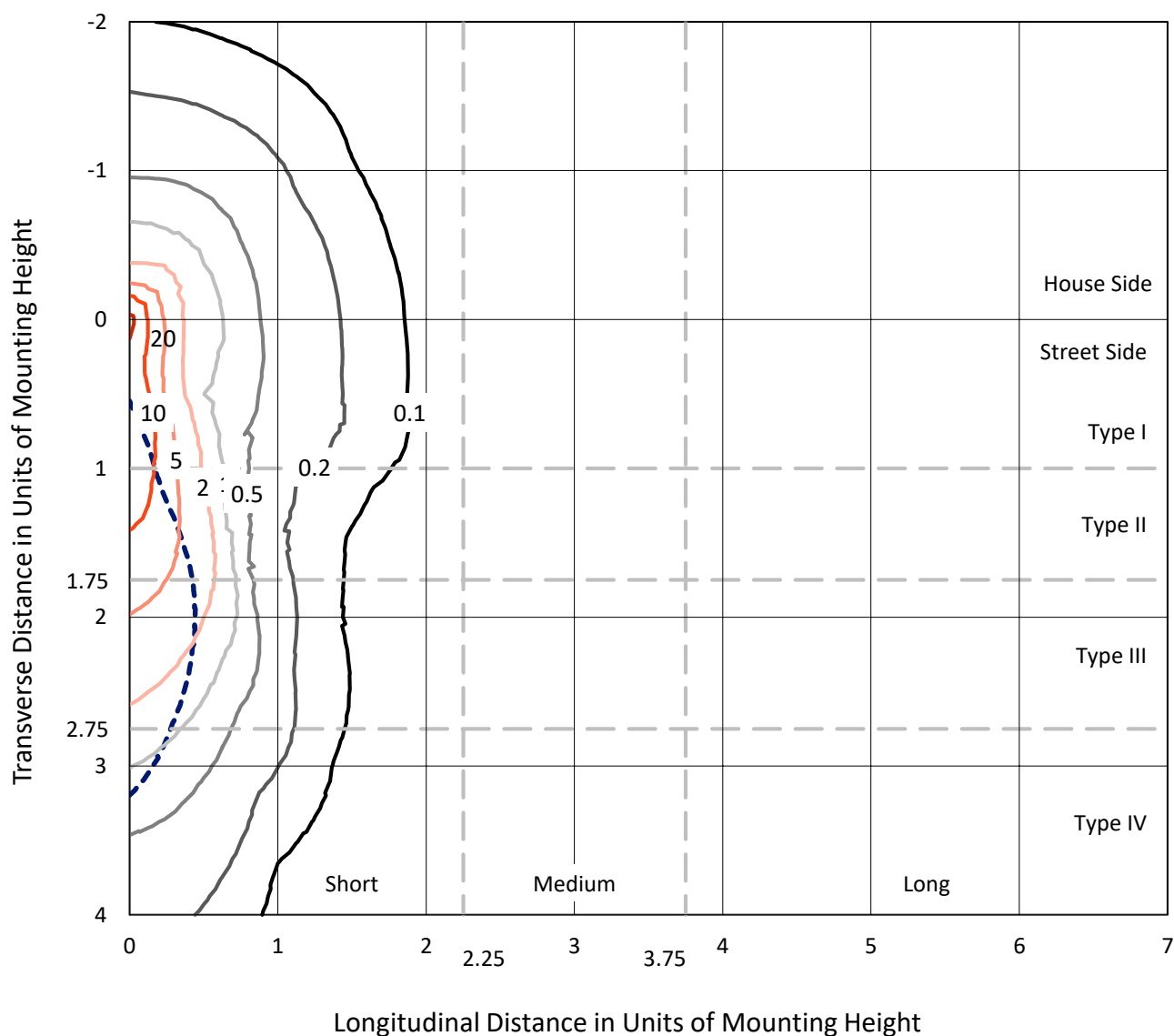
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

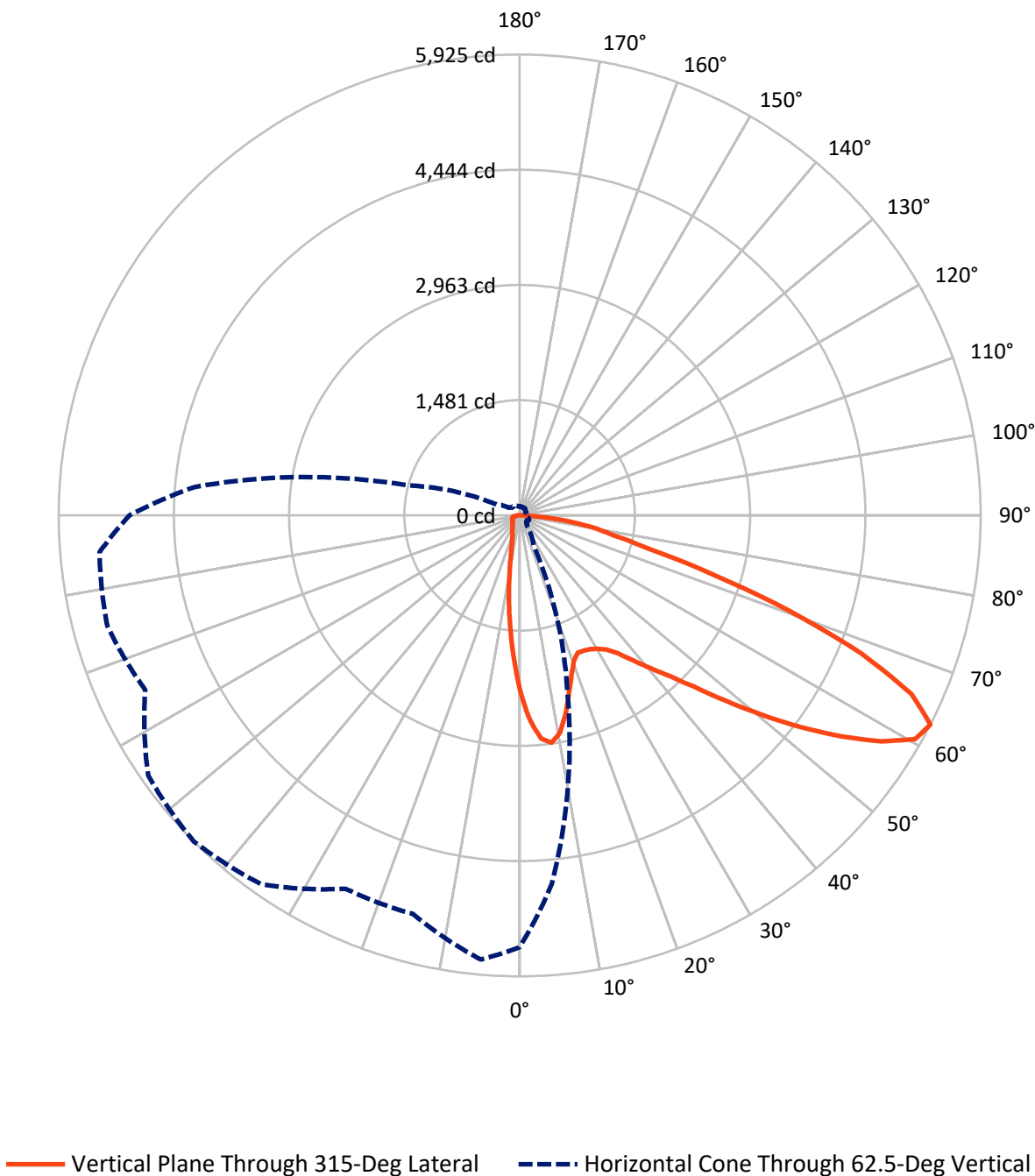


Based on 10 foot mounting height. Maximum calculated value = 23 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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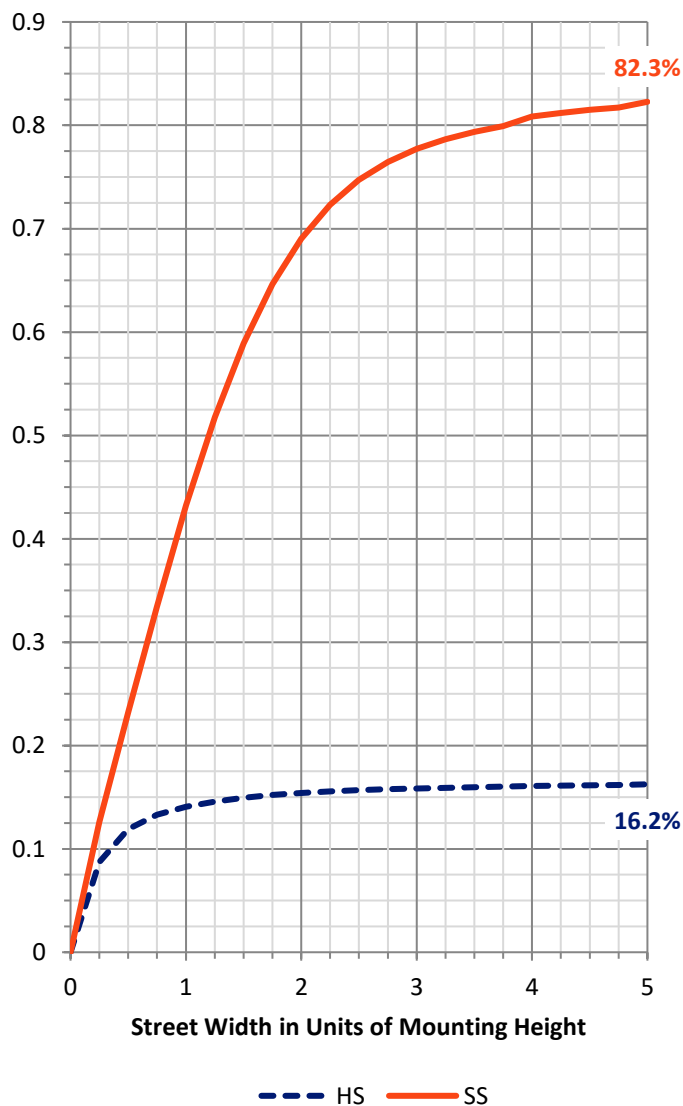
FLUX DISTRIBUTION:

		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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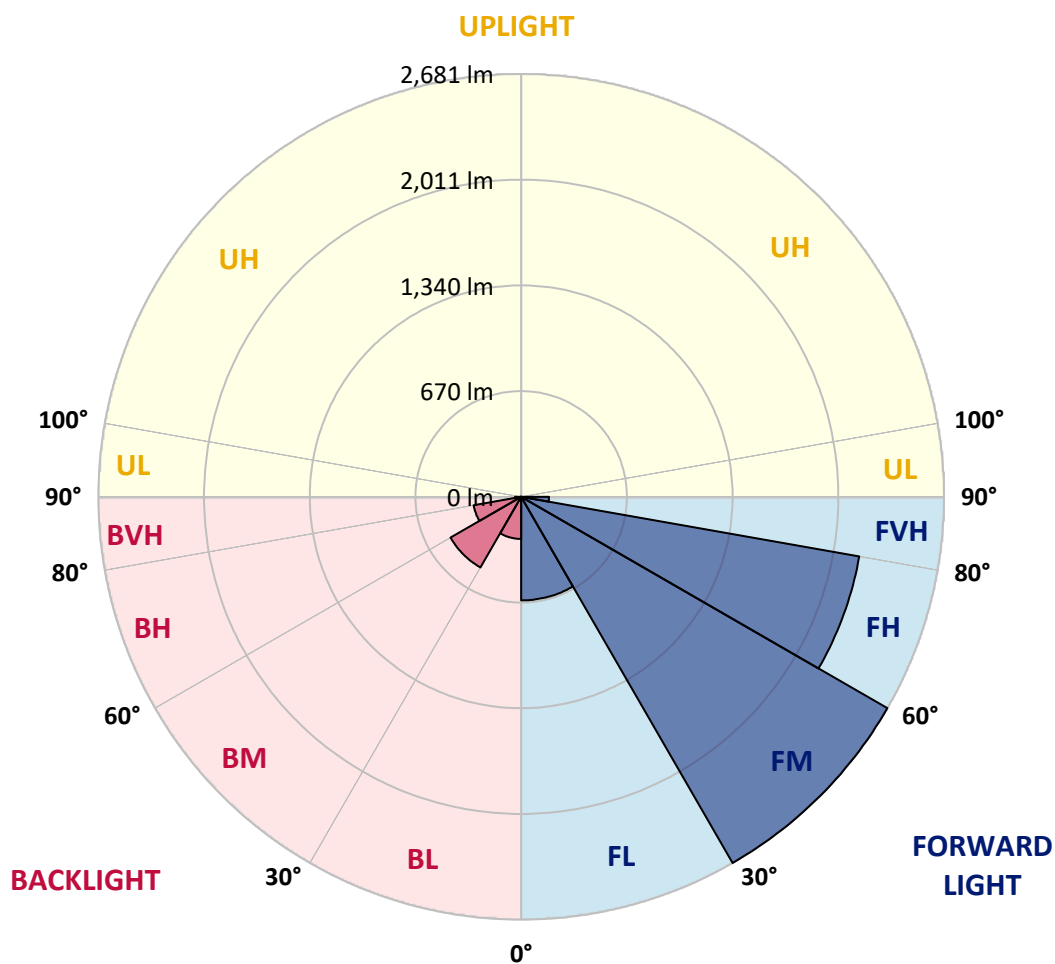
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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

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