

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: P950551

Luminaire Tested: **GALN-SB5A-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14286 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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: 24 FT



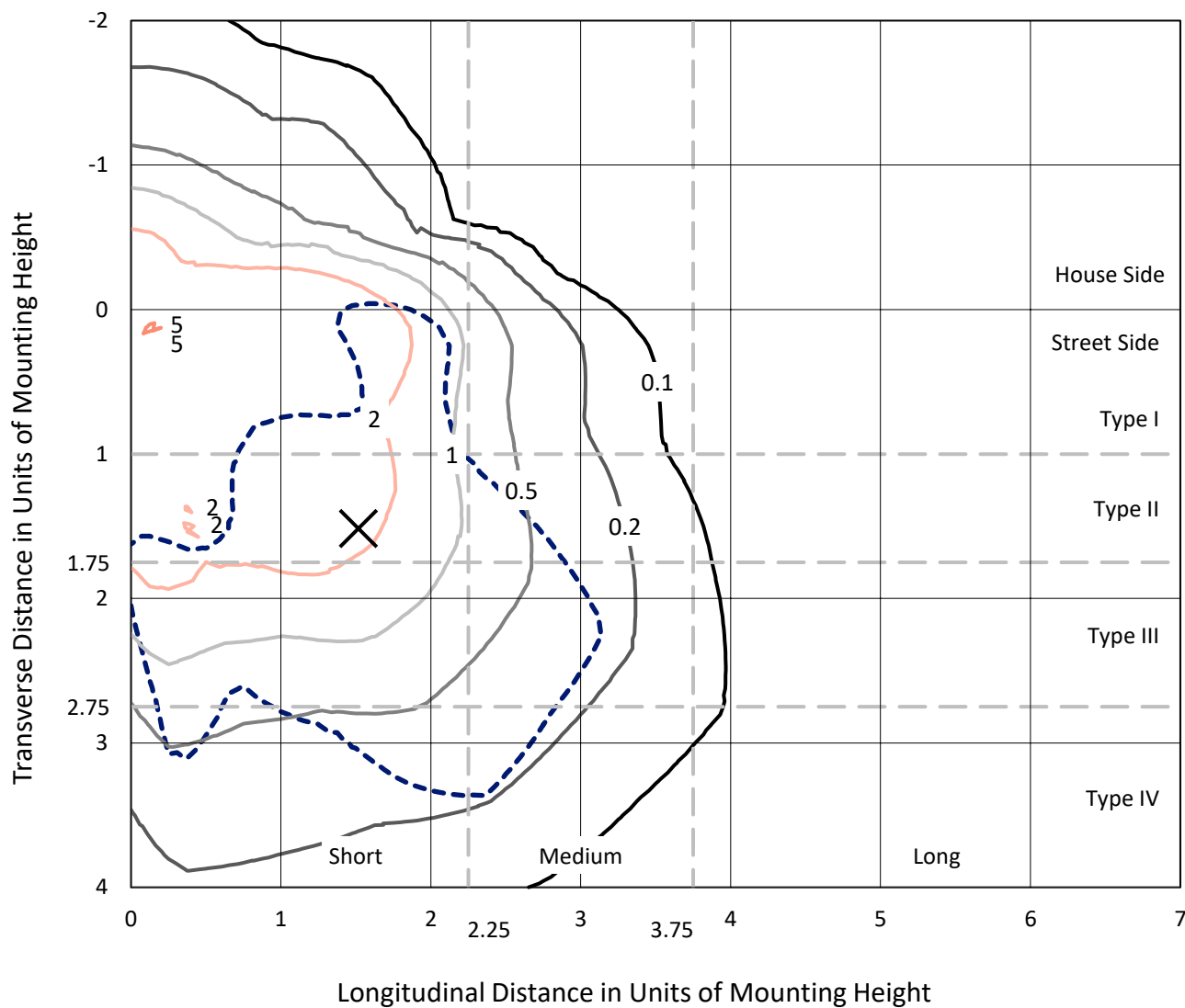
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

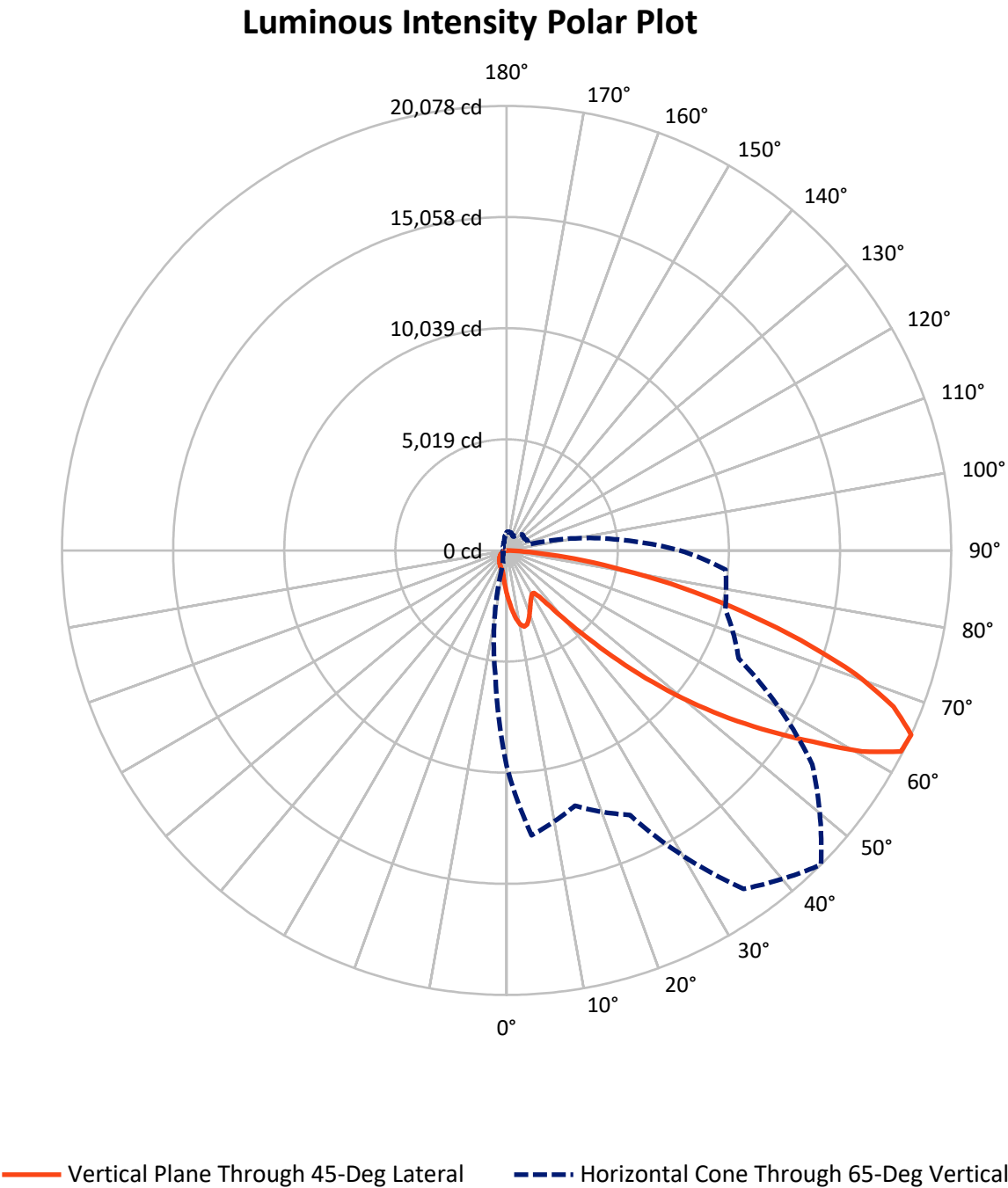
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type IV - Short - N/A

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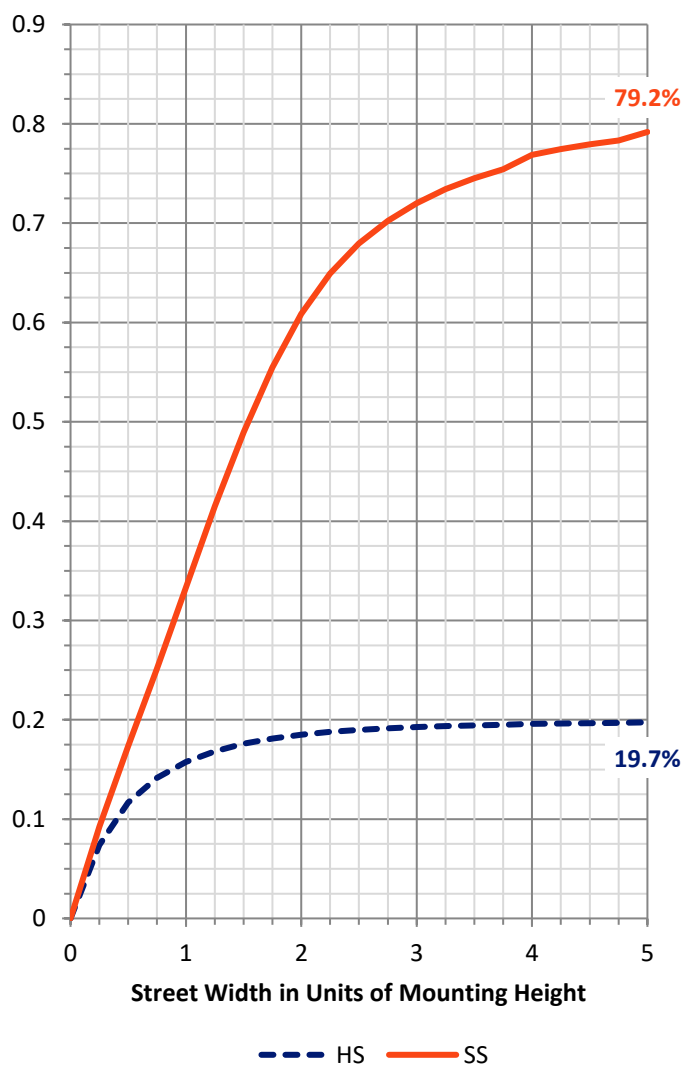
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2839.6	0.0	2839.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	11446.4	0.0	11446.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	14286.0	0.0	14286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.4
10°-20°	583.8	4.1
20°-30°	860.1	6.0
30°-40°	1105.0	7.7
40°-50°	1787.1	12.5
50°-60°	3133.8	21.9
60°-70°	3921.3	27.4
70°-80°	2291.4	16.0
80°-90°	408.8	2.9
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°	14286.0	100.0
0°-180°	14286.0	100.0

Coefficient of Utilization



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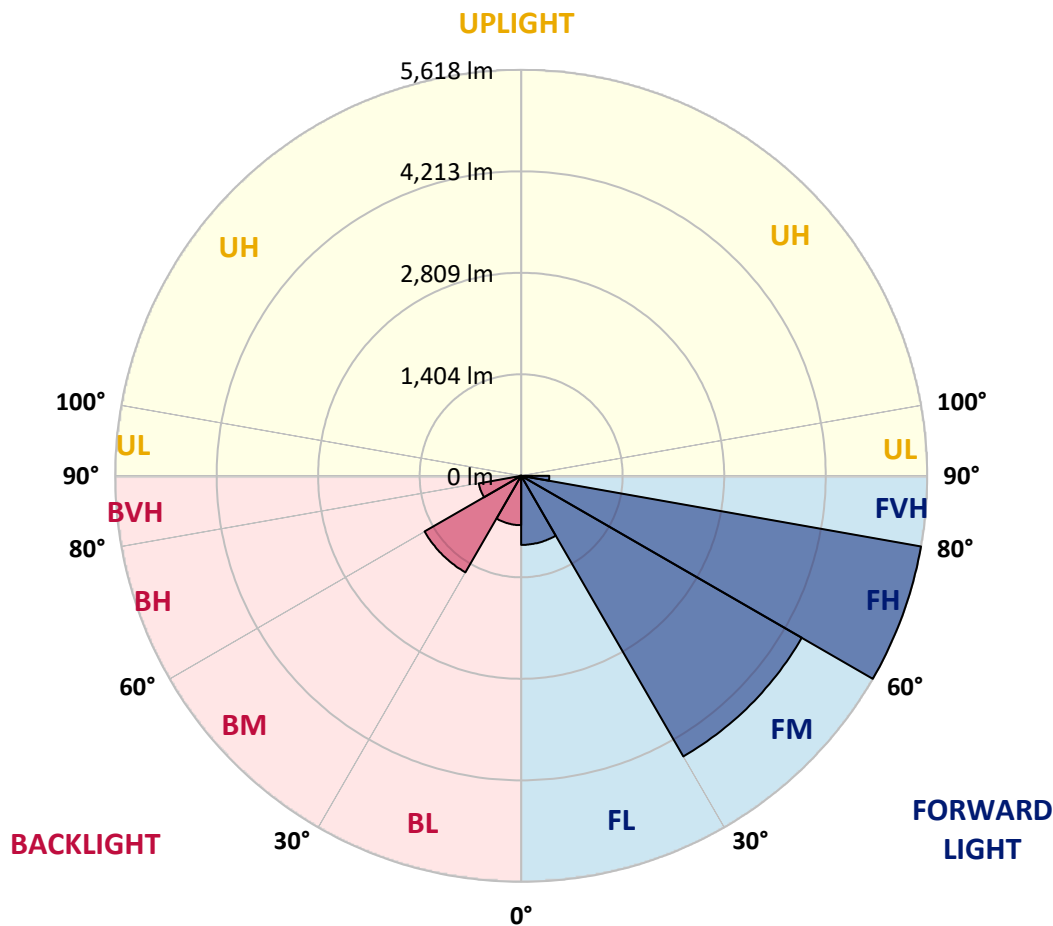
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.9	6.7			
FM	(30°-60°)	4483.1	31.4			
FH	(60°-80°)	5617.7	39.3			G3/7500
FVH	(80°-90°)	389.7	2.7			G3/500
BL	(0°-30°)	682.8	4.8	B2/1000		
BM	(30°-60°)	1542.7	10.8	B2/2500		
BH	(60°-80°)	595.0	4.2	B2/1000		G2/1000
BVH	(80°-90°)	19.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	2216.3	2233.1	2270.4	2290.1	2320.6	2322.6	2322.6	2296.0	2295.1	2240.9	2235.0
5°	2477.1	2516.5	2605.1	2696.6	2716.3	2721.2	2711.4	2658.2	2618.8	2513.5	2490.9
7.5°	2736.0	2811.7	2946.6	3068.6	3108.0	3108.0	3084.3	2997.7	2917.0	2764.5	2707.4
10°	2950.5	3046.0	3229.0	3365.8	3411.1	3401.2	3353.0	3243.8	3132.6	2947.5	2872.8
12.5°	3092.2	3199.5	3400.3	3510.5	3556.7	3531.2	3476.0	3369.8	3252.6	3057.8	2973.1
15°	3163.1	3275.3	3449.5	3507.5	3494.7	3468.2	3461.3	3410.1	3321.5	3139.5	3046.9
17.5°	3193.6	3297.9	3419.0	3382.5	3274.3	3253.6	3322.5	3387.5	3365.8	3210.3	3123.7
20°	3222.1	3309.7	3346.1	3184.7	2995.8	2977.1	3108.9	3294.0	3388.4	3276.3	3196.5
22.5°	3261.5	3315.6	3240.8	2976.1	2772.4	2729.1	2874.7	3153.2	3395.3	3359.9	3280.2
25°	3315.6	3330.4	3124.7	2778.3	2573.6	2530.3	2666.1	2996.8	3383.5	3450.5	3382.5
27.5°	3380.6	3350.1	3013.5	2612.9	2415.1	2374.8	2510.6	2846.2	3350.1	3541.0	3492.8
30°	3465.2	3375.7	2903.3	2485.0	2301.9	2272.4	2403.3	2716.3	3308.7	3656.1	3629.6
32.5°	3550.8	3386.5	2800.9	2410.2	2276.4	2287.2	2394.5	2646.4	3263.5	3766.4	3779.2
35°	3643.3	3420.9	2750.7	2484.0	2489.9	2584.4	2628.7	2711.4	3256.6	3916.0	3966.1
37.5°	3769.3	3497.7	2810.7	2851.1	3055.8	3251.7	3215.2	3029.2	3336.3	4139.4	4232.9
40°	3950.4	3632.5	3072.5	3476.0	3896.3	4214.2	4075.4	3606.9	3580.4	4461.2	4600.9
42.5°	4214.2	3847.1	3537.1	4239.7	4952.3	5475.8	5103.8	4351.9	4007.5	4920.8	5098.9
45°	4603.9	4194.5	4099.0	5045.8	6254.3	7079.0	6305.5	5146.2	4605.9	5616.6	5756.3
47.5°	5144.2	4705.3	4625.5	5895.1	7836.8	8903.7	7638.0	5882.3	5286.9	6565.3	6597.8
50°	5861.6	5393.2	5124.5	6824.1	9571.9	10763.7	8969.6	6592.9	6067.3	7724.6	7687.2
52.5°	6808.4	6352.7	5706.1	7708.9	11356.2	12584.4	10307.1	7216.8	7035.7	9070.0	8993.2
55°	8099.6	7796.5	6501.3	8553.3	13139.5	14415.9	11592.4	7805.3	8315.1	10668.3	10203.7
57.5°	9701.8	9918.3	7647.9	9532.5	14742.7	16303.5	12883.6	8628.1	9976.4	12455.5	10906.4
60°	10735.2	12739.9	9843.5	10980.2	16564.3	18438.2	14653.1	10192.9	11722.3	13096.2	10772.6
62.5°	10485.2	13637.5	12473.2	12828.5	18239.4	19990.2	16387.2	11764.6	12051.0	12152.4	9741.2
65°	9718.5	12913.1	11936.8	13187.7	18663.5	20077.8	16850.7	11561.9	10222.4	9921.3	7829.9
67.5°	8663.5	12053.9	10662.3	12235.0	17896.9	18853.5	15987.6	10227.4	7899.8	7445.1	5680.5
70°	7524.9	11103.2	9825.8	11166.2	16435.4	16719.8	14520.2	8995.2	5810.5	5028.1	3645.3
72.5°	6444.3	10113.2	9253.0	10070.9	14485.8	13897.3	12610.0	7905.7	4230.9	3626.6	2591.3
75°	5339.0	8652.7	8437.2	8769.8	11922.1	10946.8	10477.3	6545.6	3320.5	2623.8	1788.2
77.5°	4119.7	6761.2	7257.2	7022.9	8391.9	8131.1	8121.3	4918.8	2425.9	1750.8	1121.0
80°	2819.6	4712.1	5669.7	4954.2	5446.3	5313.5	6116.5	3299.9	1759.7	1054.0	624.0
82.5°	1657.3	2868.8	3946.5	2398.4	3011.5	3091.2	3642.4	1605.2	1035.3	243.1	135.8
85°	672.2	1132.8	1543.2	938.9	1452.6	1225.3	1382.7	450.7	288.4	5.9	0.0
87.5°	169.3	362.2	253.9	105.3	168.3	154.5	122.0	55.1	11.8	0.0	0.0
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°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	2196.6	2174.0	2117.9	2061.8	2016.5	1955.5	1915.2	1866.9	1820.7	1779.4	1771.5
5°	2428.9	2354.1	2251.7	2158.3	2062.8	1970.3	1878.8	1782.3	1693.7	1639.6	1605.2
7.5°	2617.9	2486.0	2350.2	2231.1	2115.9	2007.7	1886.6	1769.5	1630.7	1556.9	1490.0
10°	2758.6	2585.4	2407.2	2270.4	2154.3	2049.0	1946.7	1828.6	1661.3	1568.7	1468.4
12.5°	2851.1	2645.4	2436.8	2280.3	2150.4	2068.7	2023.4	1977.2	1810.8	1702.6	1556.9
15°	2915.1	2687.7	2457.4	2257.7	2098.2	2038.2	2083.5	2136.6	2030.3	1905.3	1715.4
17.5°	2984.9	2742.8	2466.3	2196.6	1996.9	1971.3	2088.4	2211.4	2206.5	2082.5	1896.5
20°	3058.8	2791.1	2460.4	2098.2	1873.8	1896.5	2046.1	2188.8	2248.8	2181.9	2016.5
22.5°	3134.5	2837.3	2437.8	1970.3	1758.7	1829.5	1979.1	2104.1	2175.0	2154.3	2028.3
25°	3230.0	2902.3	2404.3	1832.5	1663.2	1761.6	1901.4	2002.8	2052.0	2051.0	1964.4
27.5°	3344.2	2988.9	2386.6	1721.3	1595.3	1684.9	1808.9	1899.4	1933.9	1933.9	1865.0
30°	3477.0	3091.2	2366.9	1648.5	1556.0	1605.2	1701.6	1790.2	1824.6	1824.6	1766.6
32.5°	3624.6	3189.7	2319.7	1604.2	1526.4	1527.4	1588.4	1669.1	1710.5	1716.4	1675.0
35°	3801.8	3295.0	2216.3	1568.7	1492.0	1451.6	1481.2	1548.1	1597.3	1610.1	1584.5
37.5°	4034.1	3423.9	2068.7	1516.6	1438.8	1371.9	1378.8	1430.0	1484.1	1503.8	1487.1
40°	4346.0	3575.4	1915.2	1441.8	1364.0	1284.3	1281.4	1318.8	1371.9	1393.6	1384.7
42.5°	4758.4	3757.5	1768.5	1369.9	1273.5	1191.8	1186.9	1216.4	1262.7	1285.3	1281.4
45°	5285.9	3980.9	1642.6	1313.8	1184.9	1104.2	1102.3	1126.9	1167.2	1190.8	1185.9
47.5°	6019.1	4204.3	1556.9	1284.3	1115.0	1032.4	1036.3	1058.0	1094.4	1111.1	1104.2
50°	6974.7	4272.2	1513.6	1284.3	1077.7	968.4	988.1	1005.8	1033.4	1043.2	1034.3
52.5°	7891.9	4047.8	1474.3	1292.2	1082.6	914.3	956.6	969.4	993.0	997.0	984.2
55°	8341.7	3480.0	1420.1	1294.2	1113.1	868.0	931.0	954.6	963.5	962.5	940.9
57.5°	8187.2	2813.7	1328.6	1286.3	1133.7	838.5	899.5	944.8	950.7	941.8	901.5
60°	7644.9	2071.6	1258.7	1228.2	1125.9	829.6	851.3	923.1	932.0	920.2	854.2
62.5°	6735.6	1437.9	1204.6	1100.3	1091.4	826.7	775.5	875.9	897.6	880.8	784.4
65°	5302.6	1015.6	1037.3	964.5	1016.6	810.9	696.8	818.8	848.3	822.8	686.9
67.5°	3588.2	733.2	840.5	873.9	895.6	775.5	639.7	753.9	793.2	759.8	573.8
70°	1937.8	514.7	555.1	736.1	760.8	714.5	588.5	687.9	733.2	696.8	467.5
72.5°	1144.6	370.0	388.7	591.5	633.8	628.9	531.4	611.2	666.3	623.0	379.9
75°	630.8	250.0	277.5	429.1	514.7	485.2	456.6	517.7	573.8	531.4	293.3
77.5°	282.5	149.6	192.9	281.5	404.5	332.6	353.3	403.5	455.7	411.4	195.8
80°	109.2	83.7	127.9	153.5	294.3	184.0	227.3	297.2	334.6	299.2	119.1
82.5°	13.8	37.4	55.1	60.0	171.2	97.4	131.9	187.0	184.0	159.4	60.0
85°	0.0	6.9	7.9	3.9	73.8	35.4	43.3	61.0	57.1	43.3	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	1723.3	1687.8	1670.1	1655.4	1669.1	1677.0	1677.0	1710.5	1730.1	1738.0	1793.1
5°	1518.6	1452.6	1408.3	1381.8	1390.6	1400.5	1411.3	1453.6	1482.1	1500.8	1586.5
7.5°	1357.2	1256.8	1194.8	1162.3	1167.2	1174.1	1183.0	1224.3	1252.8	1277.4	1372.9
10°	1277.4	1135.7	1054.0	1014.7	1007.8	1003.8	1000.9	1025.5	1047.1	1066.8	1161.3
12.5°	1281.4	1083.6	984.2	935.9	915.3	891.6	872.9	876.9	890.7	915.3	975.3
15°	1331.6	1066.8	947.7	887.7	853.3	825.7	803.1	798.2	803.1	807.0	844.4
17.5°	1399.5	1064.9	916.2	841.5	806.0	783.4	762.7	755.8	756.8	761.7	771.6
20°	1453.6	1059.0	880.8	797.2	765.7	746.0	725.3	718.4	720.4	721.4	732.2
22.5°	1482.1	1050.1	841.5	752.9	726.3	706.6	687.9	686.9	686.9	692.8	700.7
25°	1482.1	1031.4	806.0	710.6	686.9	669.2	646.6	650.5	652.5	660.4	672.2
27.5°	1446.7	996.0	777.5	674.1	649.5	631.8	611.2	616.1	619.0	627.9	642.7
30°	1401.4	953.6	745.0	639.7	611.2	598.4	580.7	582.6	586.6	596.4	613.1
32.5°	1353.2	903.5	718.4	605.3	576.7	566.9	547.2	550.1	554.1	564.9	583.6
35°	1300.1	844.4	686.9	573.8	545.2	537.3	514.7	516.7	522.6	534.4	553.1
37.5°	1244.0	796.2	655.4	543.3	513.7	505.9	482.2	484.2	491.1	504.9	522.6
40°	1188.9	748.9	622.0	510.8	481.3	474.4	448.8	450.7	458.6	473.4	492.1
42.5°	1128.8	712.5	578.7	477.3	445.8	438.9	415.3	418.3	427.1	441.9	460.6
45°	1057.0	688.9	530.5	445.8	410.4	403.5	381.9	387.8	397.6	412.4	432.0
47.5°	983.2	679.1	490.1	412.4	374.0	368.1	350.4	360.2	371.0	382.8	404.5
50°	912.3	666.3	448.8	380.9	342.5	336.6	324.8	337.6	348.4	359.2	379.9
52.5°	831.6	638.7	411.4	353.3	315.9	313.9	308.0	319.9	329.7	339.5	357.2
55°	748.0	594.4	378.9	328.7	293.3	295.2	292.3	302.1	310.0	318.9	334.6
57.5°	675.1	538.3	353.3	302.1	273.6	279.5	275.6	280.5	285.4	296.2	309.0
60°	601.3	471.4	324.8	270.6	253.9	260.8	250.0	249.0	251.0	253.9	277.5
62.5°	501.9	401.5	289.3	243.1	232.3	235.2	214.5	198.8	198.8	201.8	237.2
65°	403.5	336.6	250.0	211.6	202.7	200.8	171.2	149.6	147.6	156.5	187.0
67.5°	331.7	279.5	210.6	176.2	170.3	172.2	150.6	128.9	127.0	136.8	159.4
70°	274.6	225.4	168.3	135.8	141.7	150.6	128.9	108.3	105.3	114.2	135.8
72.5°	218.5	176.2	128.9	100.4	117.1	127.9	105.3	85.6	83.7	91.5	112.2
75°	160.4	126.0	87.6	72.8	90.5	100.4	76.8	61.0	58.1	65.0	85.6
77.5°	99.4	70.9	55.1	43.3	62.0	66.9	40.4	35.4	34.4	39.4	54.1
80°	46.3	30.5	26.6	14.8	22.6	26.6	16.7	18.7	19.7	23.6	33.5
82.5°	12.8	4.9	1.0	0.0	0.0	7.9	3.9	7.9	9.8	14.8	21.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	8.9	15.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2	1978.2
2.5°	1834.5	1873.8	1936.8	2001.8	2065.7	2130.7	2193.7	2216.3
5°	1664.2	1754.8	1879.7	2013.6	2151.4	2291.1	2419.1	2477.1
7.5°	1474.3	1604.2	1792.1	2001.8	2221.2	2440.7	2642.5	2736.0
10°	1271.5	1435.9	1650.4	1933.9	2248.8	2551.9	2829.4	2950.5
12.5°	1078.6	1250.9	1488.0	1827.6	2227.1	2615.9	2949.5	3092.2
15°	917.2	1069.8	1325.7	1701.6	2157.3	2619.8	3006.6	3163.1
17.5°	796.2	895.6	1160.3	1561.9	2065.7	2583.4	3026.3	3193.6
20°	736.1	763.7	945.8	1382.7	1980.1	2549.0	3046.0	3222.1
22.5°	700.7	707.6	773.5	1151.5	1877.8	2538.1	3080.4	3261.5
25°	672.2	674.1	691.9	912.3	1721.3	2531.2	3133.6	3315.6
27.5°	643.6	643.6	653.5	735.2	1508.7	2501.7	3202.4	3380.6
30°	615.1	615.1	622.0	650.5	1259.7	2443.7	3285.1	3465.2
32.5°	585.6	585.6	591.5	612.1	1005.8	2370.8	3360.9	3550.8
35°	556.0	554.1	562.0	583.6	800.1	2278.3	3436.7	3643.3
37.5°	524.6	523.6	531.4	556.0	690.9	2171.0	3493.8	3769.3
40°	491.1	491.1	500.0	526.5	659.4	2036.2	3584.3	3950.4
42.5°	460.6	458.6	468.5	500.9	635.8	1907.3	3746.7	4214.2
45°	431.1	427.1	436.0	476.3	594.4	1862.0	4049.8	4603.9
47.5°	403.5	393.7	401.5	446.8	557.0	2031.3	4545.8	5144.2
50°	380.9	362.2	369.1	417.3	528.5	2398.4	5189.5	5861.6
52.5°	357.2	332.6	336.6	380.9	502.9	2747.8	5887.2	6808.4
55°	332.6	305.1	307.1	344.5	466.5	2799.9	6568.3	8099.6
57.5°	305.1	279.5	279.5	311.0	439.9	2426.9	7091.8	9701.8
60°	274.6	257.8	252.9	284.4	463.5	1712.4	7152.8	10735.2
62.5°	241.1	232.3	225.4	258.8	481.3	1014.7	6661.8	10485.2
65°	202.7	200.8	195.8	284.4	405.5	599.4	5718.9	9718.5
67.5°	170.3	167.3	167.3	298.2	308.0	376.9	4468.1	8663.5
70°	146.6	135.8	135.8	225.4	187.0	260.8	3119.8	7524.9
72.5°	123.0	111.2	103.3	180.1	139.8	190.9	1949.6	6444.3
75°	98.4	89.6	79.7	119.1	104.3	144.7	1132.8	5339.0
77.5°	70.9	66.9	56.1	87.6	75.8	104.3	674.1	4119.7
80°	36.4	37.4	35.4	50.2	51.2	70.9	383.8	2819.6
82.5°	21.7	16.7	18.7	24.6	29.5	40.4	144.7	1657.3
85°	13.8	8.9	8.9	11.8	14.8	15.7	44.3	672.2
87.5°	6.9	3.0	3.9	5.9	4.9	3.9	2.0	169.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)