

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: P947338

Luminaire Tested: **GALN-SB2D-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947338
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-SB2D-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA 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: 12830 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 147.6
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



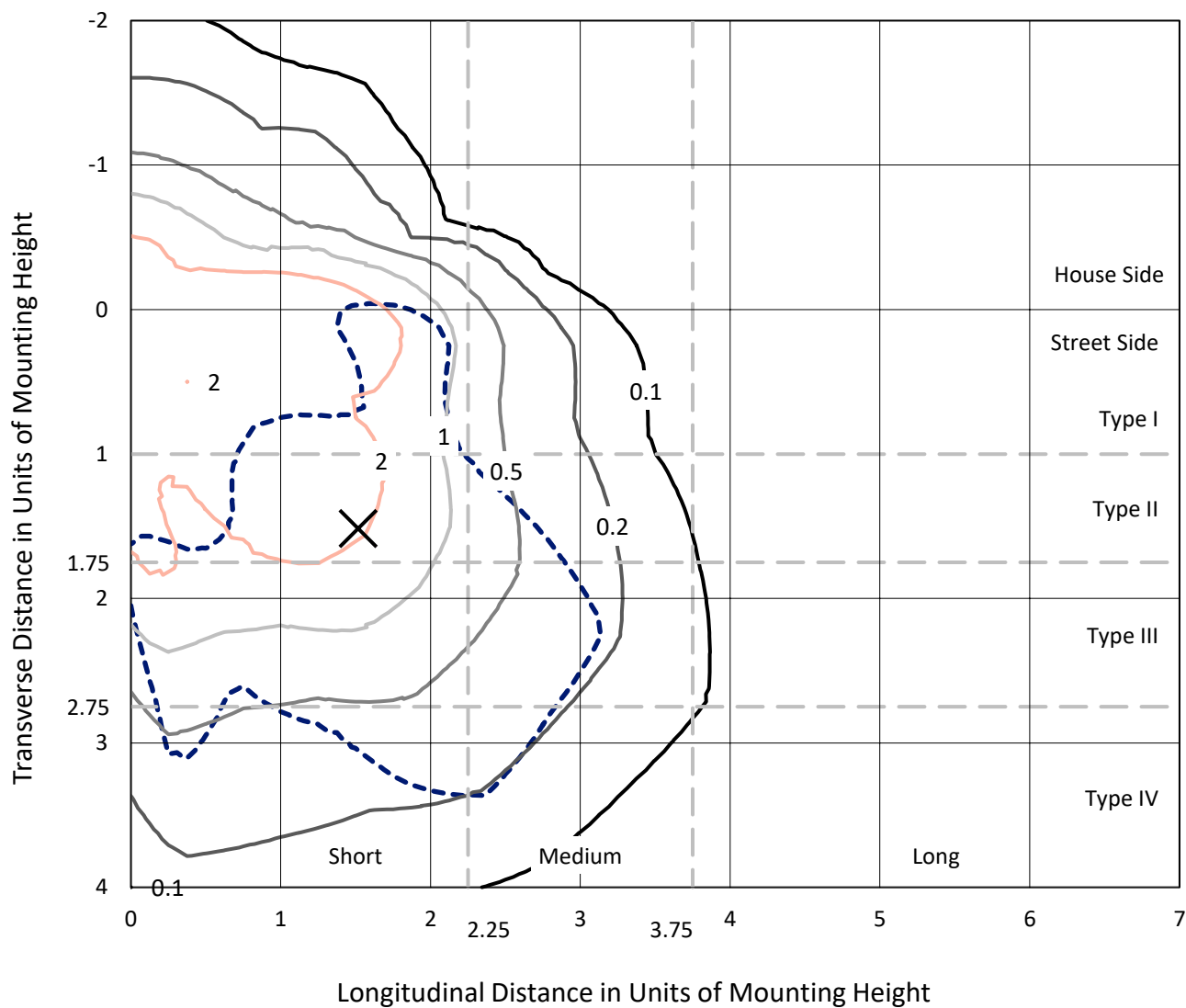
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

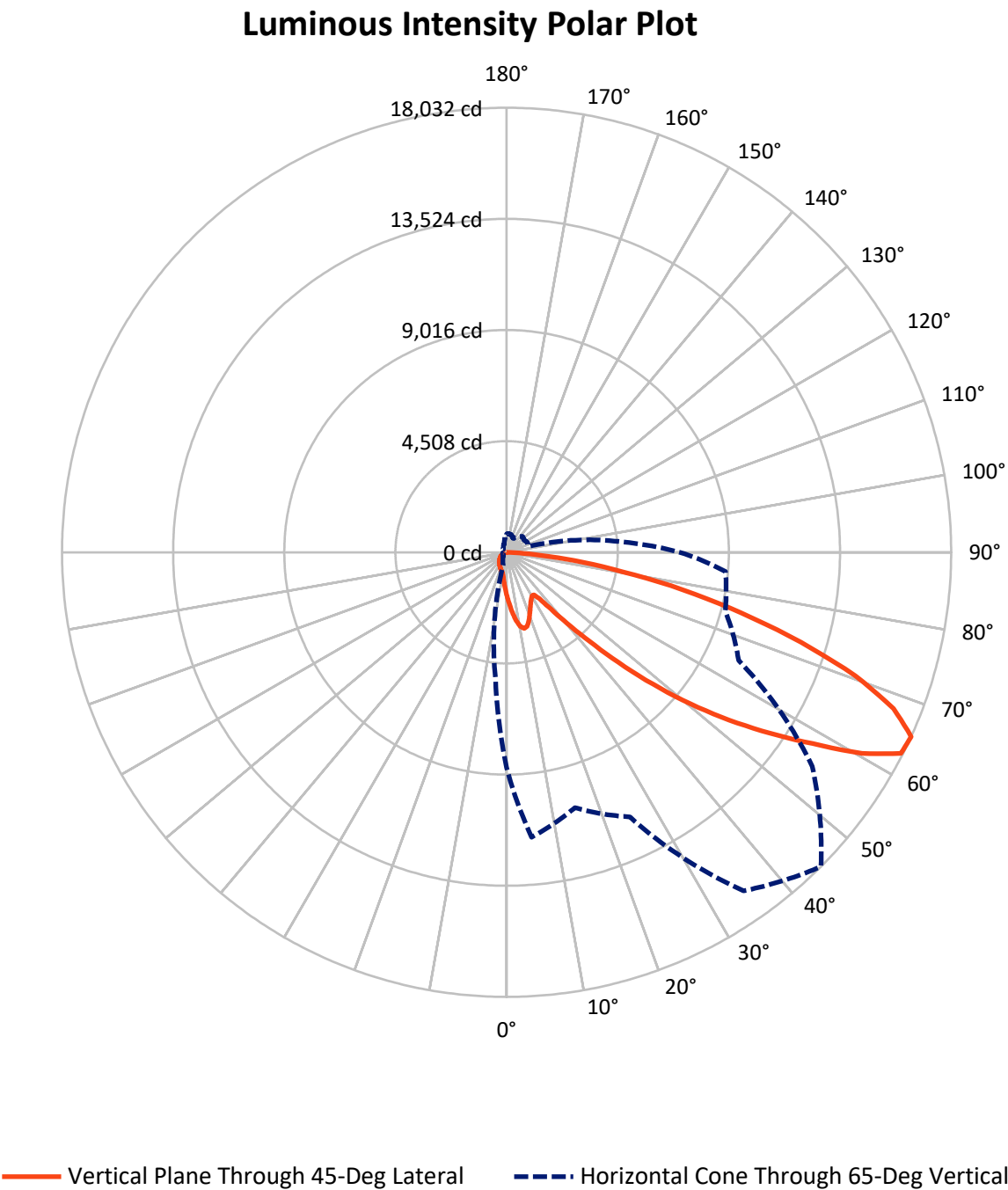
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type IV - Short - N/A

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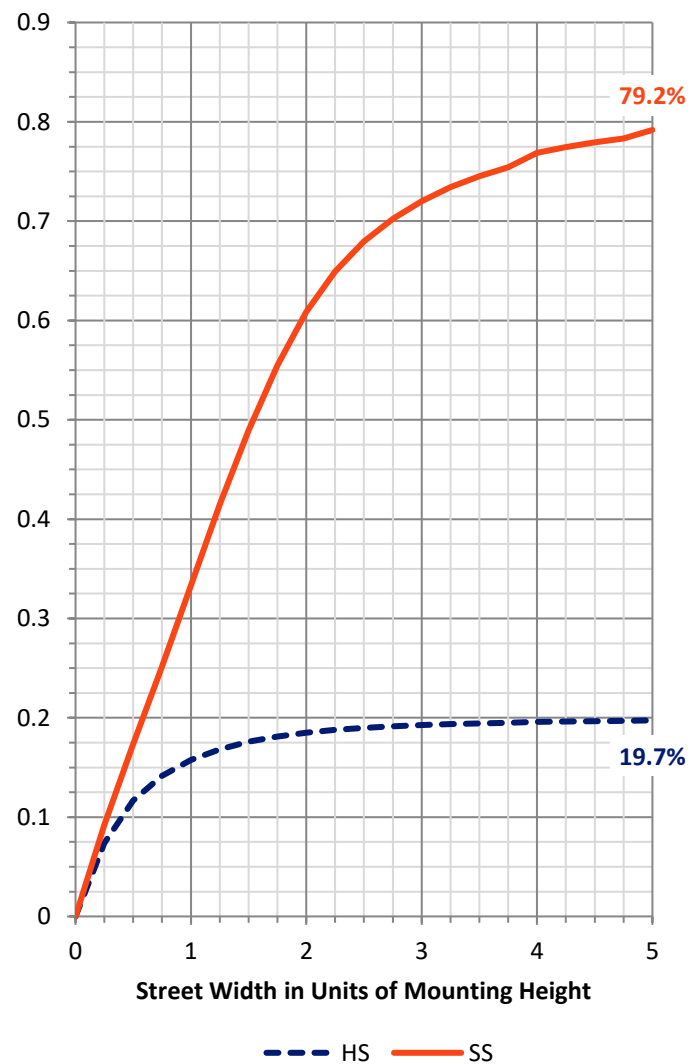
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.2	0.0	2550.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	10279.8	0.0	10279.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	12830.0	0.0	12830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.4
10°-20°	524.3	4.1
20°-30°	772.4	6.0
30°-40°	992.4	7.7
40°-50°	1604.9	12.5
50°-60°	2814.4	21.9
60°-70°	3521.6	27.4
70°-80°	2057.9	16.0
80°-90°	367.2	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°	12830.0	100.0
0°-180°	12830.0	100.0

Coefficient of Utilization



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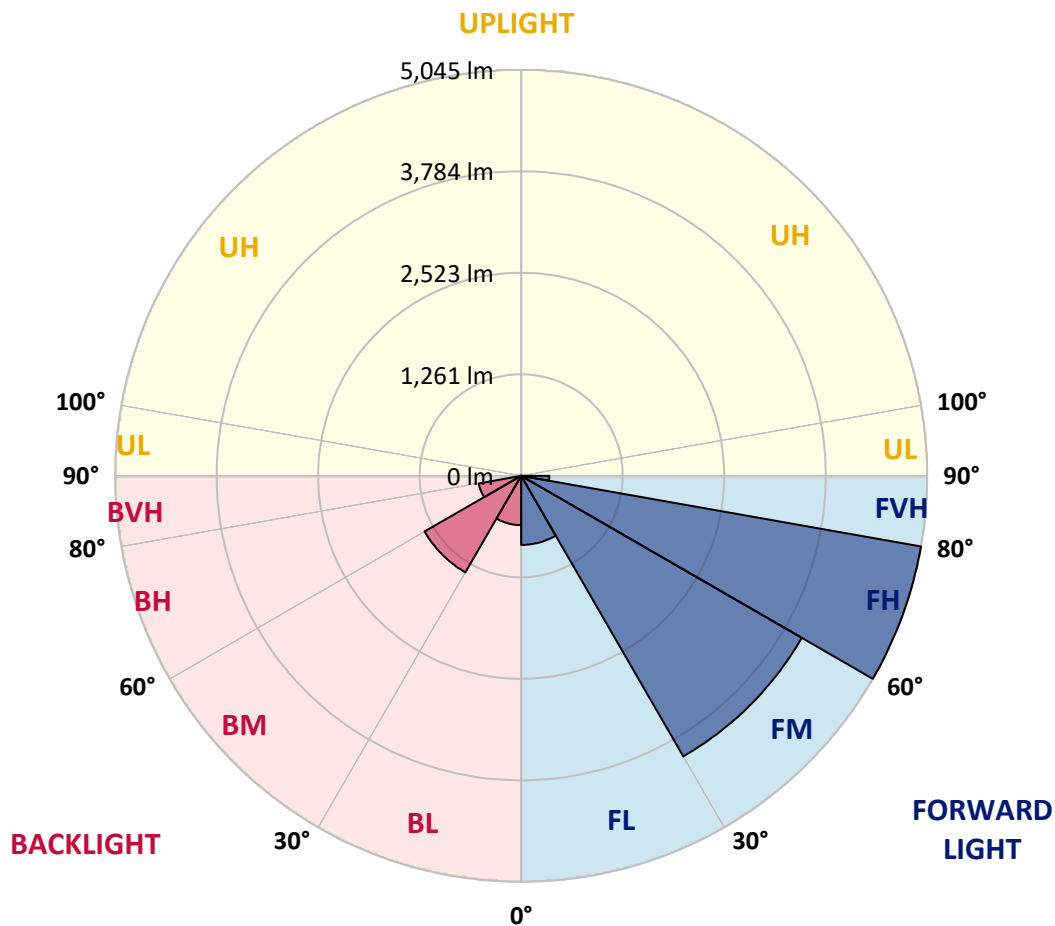
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.5	6.7			
FM	(30°-60°)	4026.2	31.4			
FH	(60°-80°)	5045.2	39.3			G3/7500
FVH	(80°-90°)	349.9	2.7			G3/500
BL	(0°-30°)	613.2	4.8	B2/1000		
BM	(30°-60°)	1385.5	10.8	B2/2500		
BH	(60°-80°)	534.3	4.2	B2/1000		G2/1000
BVH	(80°-90°)	17.2	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°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5
2.5°	1990.4	2005.5	2039.0	2056.7	2084.1	2085.9	2085.9	2062.0	2061.1	2012.5	2007.2
5°	2224.7	2260.0	2339.6	2421.8	2439.4	2443.9	2435.0	2387.3	2351.9	2257.4	2237.0
7.5°	2457.1	2525.2	2646.3	2755.9	2791.2	2791.2	2770.0	2692.2	2619.7	2482.7	2431.5
10°	2649.8	2735.5	2899.9	3022.8	3063.4	3054.6	3011.3	2913.2	2813.3	2647.1	2580.0
12.5°	2777.1	2873.4	3053.7	3152.7	3194.2	3171.3	3121.8	3026.3	2921.1	2746.1	2670.1
15°	2840.7	2941.5	3097.9	3150.1	3138.6	3114.7	3108.5	3062.6	2983.0	2819.5	2736.4
17.5°	2868.1	2961.8	3070.5	3037.8	2940.6	2922.0	2983.9	3042.2	3022.8	2883.1	2805.3
20°	2893.7	2972.4	3005.1	2860.1	2690.4	2673.7	2792.1	2958.3	3043.1	2942.3	2870.8
22.5°	2929.1	2977.7	2910.5	2672.8	2489.8	2450.9	2581.7	2831.9	3049.3	3017.5	2945.9
25°	2977.7	2991.0	2806.2	2495.1	2311.3	2272.4	2394.4	2691.3	3038.7	3098.8	3037.8
27.5°	3036.0	3008.6	2706.4	2346.6	2169.0	2132.7	2254.7	2556.1	3008.6	3180.1	3136.8
30°	3112.0	3031.6	2607.4	2231.7	2067.3	2040.8	2158.4	2439.4	2971.5	3283.5	3259.6
32.5°	3188.9	3041.3	2515.4	2164.6	2044.4	2054.1	2150.4	2376.7	2930.9	3382.5	3394.0
35°	3272.0	3072.3	2470.4	2230.8	2236.1	2321.0	2360.8	2435.0	2924.7	3516.9	3561.9
37.5°	3385.2	3141.2	2524.3	2560.5	2744.4	2920.3	2887.5	2720.5	2996.3	3717.5	3801.5
40°	3547.8	3262.3	2759.4	3121.8	3499.2	3784.7	3660.0	3239.3	3215.5	4006.5	4132.0
42.5°	3784.7	3455.0	3176.6	3807.6	4447.5	4917.8	4583.7	3908.4	3599.0	4419.3	4579.2
45°	4134.7	3767.0	3681.2	4531.5	5616.9	6357.6	5662.8	4621.7	4136.4	5044.1	5169.7
47.5°	4619.9	4225.7	4154.1	5294.3	7038.1	7996.2	6859.6	5282.8	4748.1	5896.2	5925.4
50°	5264.2	4843.5	4602.2	6128.6	8596.4	9666.7	8055.4	5920.9	5449.0	6937.4	6903.8
52.5°	6114.5	5705.3	5124.6	6923.2	10198.8	11301.8	9256.6	6481.3	6318.7	8145.6	8076.6
55°	7274.1	7001.9	5838.7	7681.6	11800.3	12946.7	10410.9	7009.8	7467.7	9581.0	9163.8
57.5°	8713.0	8907.5	6868.4	8561.0	13240.1	14641.9	11570.5	7748.7	8959.6	11186.0	9794.9
60°	9641.1	11441.5	8840.3	9861.1	14876.1	16559.0	13159.7	9154.1	10527.6	11761.4	9674.7
62.5°	9416.6	12247.6	11202.0	11521.0	16380.4	17952.8	14717.0	10565.6	10822.8	10913.8	8748.4
65°	8728.0	11597.0	10720.3	11843.6	16761.4	18031.5	15133.3	10383.5	9180.6	8910.1	7031.9
67.5°	7780.6	10825.4	9575.7	10988.1	16072.9	16932.0	14358.2	9185.0	7094.7	6686.3	5101.6
70°	6757.9	9971.6	8824.4	10028.2	14760.3	15015.8	13040.4	8078.4	5218.3	4515.6	3273.8
72.5°	5787.5	9082.5	8310.0	9044.5	13009.4	12480.9	11324.8	7100.0	3799.7	3257.0	2327.2
75°	4794.9	7770.8	7577.3	7876.0	10707.0	9831.1	9409.5	5878.5	2982.1	2356.4	1606.0
77.5°	3699.8	6072.1	6517.5	6307.2	7536.6	7302.4	7293.6	4417.5	2178.7	1572.4	1006.7
80°	2532.2	4231.9	5091.9	4449.3	4891.2	4771.9	5493.1	2963.6	1580.3	946.6	560.4
82.5°	1488.4	2576.4	3544.3	2153.9	2704.6	2776.2	3271.1	1441.6	929.8	218.3	122.0
85°	603.7	1017.3	1385.9	843.2	1304.6	1100.4	1241.8	404.8	259.0	5.3	0.0
87.5°	152.0	325.3	228.0	94.6	151.1	138.8	109.6	49.5	10.6	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°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5
2.5°	1972.8	1952.4	1902.1	1851.7	1811.0	1756.2	1720.0	1676.7	1635.1	1598.0	1590.9
5°	2181.3	2114.2	2022.3	1938.3	1852.6	1769.5	1687.3	1600.7	1521.1	1472.5	1441.6
7.5°	2351.0	2232.6	2110.6	2003.7	1900.3	1803.1	1694.3	1589.2	1464.5	1398.3	1338.2
10°	2477.4	2321.9	2161.9	2039.0	1934.8	1840.2	1748.3	1642.2	1491.9	1408.9	1318.7
12.5°	2560.5	2375.8	2188.4	2047.9	1931.2	1857.9	1817.2	1775.7	1626.3	1529.1	1398.3
15°	2618.0	2413.8	2207.0	2027.6	1884.4	1830.5	1871.1	1918.8	1823.4	1711.1	1540.6
17.5°	2680.7	2463.3	2214.9	1972.8	1793.3	1770.4	1875.5	1986.0	1981.6	1870.2	1703.2
20°	2747.0	2506.6	2209.6	1884.4	1682.9	1703.2	1837.5	1965.7	2019.6	1959.5	1811.0
22.5°	2815.1	2548.1	2189.3	1769.5	1579.4	1643.1	1777.4	1889.7	1953.3	1934.8	1821.6
25°	2900.8	2606.5	2159.3	1645.7	1493.7	1582.1	1707.6	1798.6	1842.8	1841.9	1764.2
27.5°	3003.3	2684.3	2143.3	1545.9	1432.7	1513.2	1624.5	1705.8	1736.8	1736.8	1674.9
30°	3122.7	2776.2	2125.7	1480.5	1397.4	1441.6	1528.2	1607.7	1638.7	1638.7	1586.5
32.5°	3255.2	2864.6	2083.2	1440.7	1370.9	1371.7	1426.5	1499.0	1536.1	1541.4	1504.3
35°	3414.3	2959.1	1990.4	1408.9	1339.9	1303.7	1330.2	1390.3	1434.5	1446.0	1423.0
37.5°	3622.9	3074.9	1857.9	1362.0	1292.2	1232.1	1238.3	1284.2	1332.9	1350.5	1335.5
40°	3903.1	3211.0	1720.0	1294.8	1225.0	1153.4	1150.8	1184.4	1232.1	1251.5	1243.6
42.5°	4273.4	3374.6	1588.3	1230.3	1143.7	1070.3	1065.9	1092.4	1134.0	1154.3	1150.8
45°	4747.2	3575.2	1475.2	1179.9	1064.2	991.7	989.9	1012.0	1048.2	1069.5	1065.0
47.5°	5405.6	3775.8	1398.3	1153.4	1001.4	927.2	930.7	950.1	982.8	997.9	991.7
50°	6263.9	3836.8	1359.4	1153.4	967.8	869.7	887.4	903.3	928.0	936.9	928.9
52.5°	7087.6	3635.3	1324.0	1160.5	972.2	821.1	859.1	870.6	891.8	895.3	883.9
55°	7491.5	3125.3	1275.4	1162.3	999.6	779.6	836.1	857.3	865.3	864.4	845.0
57.5°	7352.8	2526.9	1193.2	1155.2	1018.2	753.0	807.8	848.5	853.8	845.8	809.6
60°	6865.8	1860.5	1130.4	1103.0	1011.1	745.1	764.5	829.1	837.0	826.4	767.2
62.5°	6049.1	1291.3	1081.8	988.1	980.2	742.4	696.5	786.6	806.1	791.0	704.4
65°	4762.2	912.1	931.6	866.2	913.0	728.3	625.8	735.4	761.9	738.9	616.9
67.5°	3222.5	658.5	754.8	784.9	804.3	696.5	574.5	677.0	712.4	682.3	515.3
70°	1740.3	462.3	498.5	661.1	683.2	641.7	528.5	617.8	658.5	625.8	419.8
72.5°	1027.9	332.3	349.1	531.2	569.2	564.8	477.3	548.9	598.4	559.5	341.2
75°	566.5	224.5	249.2	385.4	462.3	435.7	410.1	464.9	515.3	477.3	263.4
77.5°	253.7	134.3	173.2	252.8	363.3	298.7	317.3	362.4	409.2	369.5	175.9
80°	98.1	75.1	114.9	137.9	264.3	165.3	204.2	266.9	300.5	268.7	106.9
82.5°	12.4	33.6	49.5	53.9	153.8	87.5	118.4	167.9	165.3	143.2	53.9
85°	0.0	6.2	7.1	3.5	66.3	31.8	38.9	54.8	51.3	38.9	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5
2.5°	1547.6	1515.8	1499.9	1486.6	1499.0	1506.1	1506.1	1536.1	1553.8	1560.9	1610.4
5°	1363.8	1304.6	1264.8	1240.9	1248.9	1257.7	1267.4	1305.5	1331.1	1347.9	1424.8
7.5°	1218.8	1128.7	1073.0	1043.8	1048.2	1054.4	1062.4	1099.5	1125.1	1147.2	1233.0
10°	1147.2	1020.0	946.6	911.3	905.1	901.5	898.9	921.0	940.4	958.1	1042.9
12.5°	1150.8	973.1	883.9	840.5	822.0	800.8	784.0	787.5	799.9	822.0	875.9
15°	1195.9	958.1	851.2	797.2	766.3	741.6	721.2	716.8	721.2	724.8	758.3
17.5°	1256.8	956.3	822.9	755.7	723.9	703.5	685.0	678.8	679.7	684.1	692.9
20°	1305.5	951.0	791.0	715.9	687.6	670.0	651.4	645.2	647.0	647.9	657.6
22.5°	1331.1	943.1	755.7	676.1	652.3	634.6	617.8	616.9	616.9	622.2	629.3
25°	1331.1	926.3	723.9	638.1	616.9	601.0	580.7	584.2	586.0	593.1	603.7
27.5°	1299.3	894.5	698.2	605.4	583.3	567.4	548.9	553.3	555.9	563.9	577.2
30°	1258.6	856.5	669.1	574.5	548.9	537.4	521.5	523.2	526.8	535.6	550.6
32.5°	1215.3	811.4	645.2	543.6	517.9	509.1	491.4	494.1	497.6	507.3	524.1
35°	1167.6	758.3	616.9	515.3	489.7	482.6	462.3	464.0	469.3	479.9	496.7
37.5°	1117.2	715.0	588.6	487.9	461.4	454.3	433.1	434.9	441.0	453.4	469.3
40°	1067.7	672.6	558.6	458.7	432.2	426.0	403.0	404.8	411.9	425.1	441.9
42.5°	1013.8	639.9	519.7	428.7	400.4	394.2	373.0	375.6	383.6	396.8	413.6
45°	949.3	618.7	476.4	400.4	368.6	362.4	342.9	348.2	357.1	370.3	388.0
47.5°	883.0	609.9	440.2	370.3	335.9	330.6	314.7	323.5	333.2	343.8	363.3
50°	819.3	598.4	403.0	342.1	307.6	302.3	291.7	303.2	312.9	322.6	341.2
52.5°	746.9	573.6	369.5	317.3	283.7	281.9	276.6	287.3	296.1	304.9	320.8
55°	671.7	533.8	340.3	295.2	263.4	265.2	262.5	271.3	278.4	286.4	300.5
57.5°	606.3	483.5	317.3	271.3	245.7	251.0	247.5	251.9	256.3	266.0	277.5
60°	540.0	423.4	291.7	243.1	228.0	234.2	224.5	223.6	225.4	228.0	249.2
62.5°	450.8	360.6	259.9	218.3	208.6	211.2	192.7	178.5	178.5	181.2	213.0
65°	362.4	302.3	224.5	190.0	182.1	180.3	153.8	134.3	132.6	140.5	167.9
67.5°	297.9	251.0	189.1	158.2	152.9	154.7	135.2	115.8	114.0	122.9	143.2
70°	246.6	202.4	151.1	122.0	127.3	135.2	115.8	97.2	94.6	102.5	122.0
72.5°	196.2	158.2	115.8	90.2	105.2	114.9	94.6	76.9	75.1	82.2	100.8
75°	144.1	113.1	78.7	65.4	81.3	90.2	68.9	54.8	52.1	58.3	76.9
77.5°	89.3	63.6	49.5	38.9	55.7	60.1	36.2	31.8	30.9	35.4	48.6
80°	41.5	27.4	23.9	13.3	20.3	23.9	15.0	16.8	17.7	21.2	30.1
82.5°	11.5	4.4	0.9	0.0	0.0	7.1	3.5	7.1	8.8	13.3	19.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.4	8.0	14.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.1
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°	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5	1776.5
2.5°	1647.5	1682.9	1739.4	1797.8	1855.2	1913.5	1970.1	1990.4
5°	1494.6	1575.9	1688.2	1808.4	1932.1	2057.6	2172.5	2224.7
7.5°	1324.0	1440.7	1609.5	1797.8	1994.9	2192.0	2373.1	2457.1
10°	1141.9	1289.5	1482.2	1736.8	2019.6	2291.8	2541.1	2649.8
12.5°	968.7	1123.4	1336.4	1641.3	2000.2	2349.3	2648.9	2777.1
15°	823.8	960.7	1190.5	1528.2	1937.4	2352.8	2700.2	2840.7
17.5°	715.0	804.3	1042.1	1402.7	1855.2	2320.1	2717.8	2868.1
20°	661.1	685.9	849.4	1241.8	1778.3	2289.2	2735.5	2893.7
22.5°	629.3	635.5	694.7	1034.1	1686.4	2279.5	2766.5	2929.1
25°	603.7	605.4	621.3	819.3	1545.9	2273.3	2814.2	2977.7
27.5°	578.0	578.0	586.9	660.2	1354.9	2246.8	2876.1	3036.0
30°	552.4	552.4	558.6	584.2	1131.3	2194.6	2950.3	3112.0
32.5°	525.9	525.9	531.2	549.8	903.3	2129.2	3018.4	3188.9
35°	499.4	497.6	504.7	524.1	718.6	2046.1	3086.4	3272.0
37.5°	471.1	470.2	477.3	499.4	620.5	1949.8	3137.7	3385.2
40°	441.0	441.0	449.0	472.9	592.2	1828.7	3219.0	3547.8
42.5°	413.6	411.9	420.7	449.9	571.0	1712.9	3364.8	3784.7
45°	387.1	383.6	391.5	427.8	533.8	1672.2	3637.1	4134.7
47.5°	362.4	353.5	360.6	401.3	500.3	1824.3	4082.5	4619.9
50°	342.1	325.3	331.4	374.8	474.6	2153.9	4660.6	5264.2
52.5°	320.8	298.7	302.3	342.1	451.6	2467.7	5287.2	6114.5
55°	298.7	274.0	275.8	309.3	418.9	2514.6	5898.8	7274.1
57.5°	274.0	251.0	251.0	279.3	395.1	2179.6	6369.0	8713.0
60°	246.6	231.6	227.2	255.4	416.3	1537.9	6423.8	9641.1
62.5°	216.5	208.6	202.4	232.5	432.2	911.3	5982.8	9416.6
65°	182.1	180.3	175.9	255.4	364.1	538.3	5136.1	8728.0
67.5°	152.9	150.3	150.3	267.8	276.6	338.5	4012.7	7780.6
70°	131.7	122.0	122.0	202.4	167.9	234.2	2801.8	6757.9
72.5°	110.5	99.9	92.8	161.7	125.5	171.5	1750.9	5787.5
75°	88.4	80.4	71.6	106.9	93.7	129.9	1017.3	4794.9
77.5°	63.6	60.1	50.4	78.7	68.1	93.7	605.4	3699.8
80°	32.7	33.6	31.8	45.1	46.0	63.6	344.7	2532.2
82.5°	19.4	15.0	16.8	22.1	26.5	36.2	129.9	1488.4
85°	12.4	8.0	8.0	10.6	13.3	14.1	39.8	603.7
87.5°	6.2	2.7	3.5	5.3	4.4	3.5	1.8	152.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)