

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: P949123

Luminaire Tested: **GALN-SB4A-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949123
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-SB4A-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 11334 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 114
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



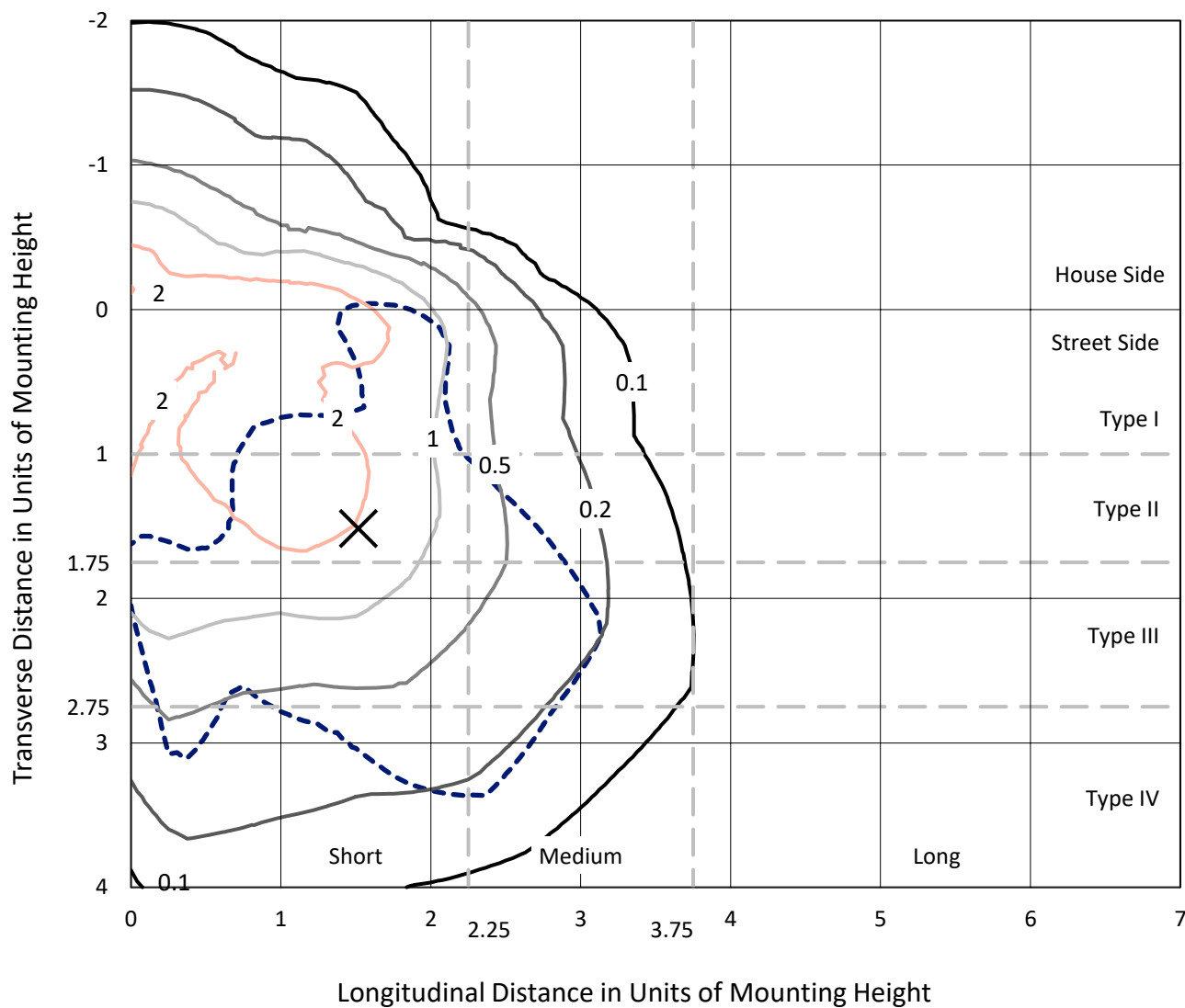
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

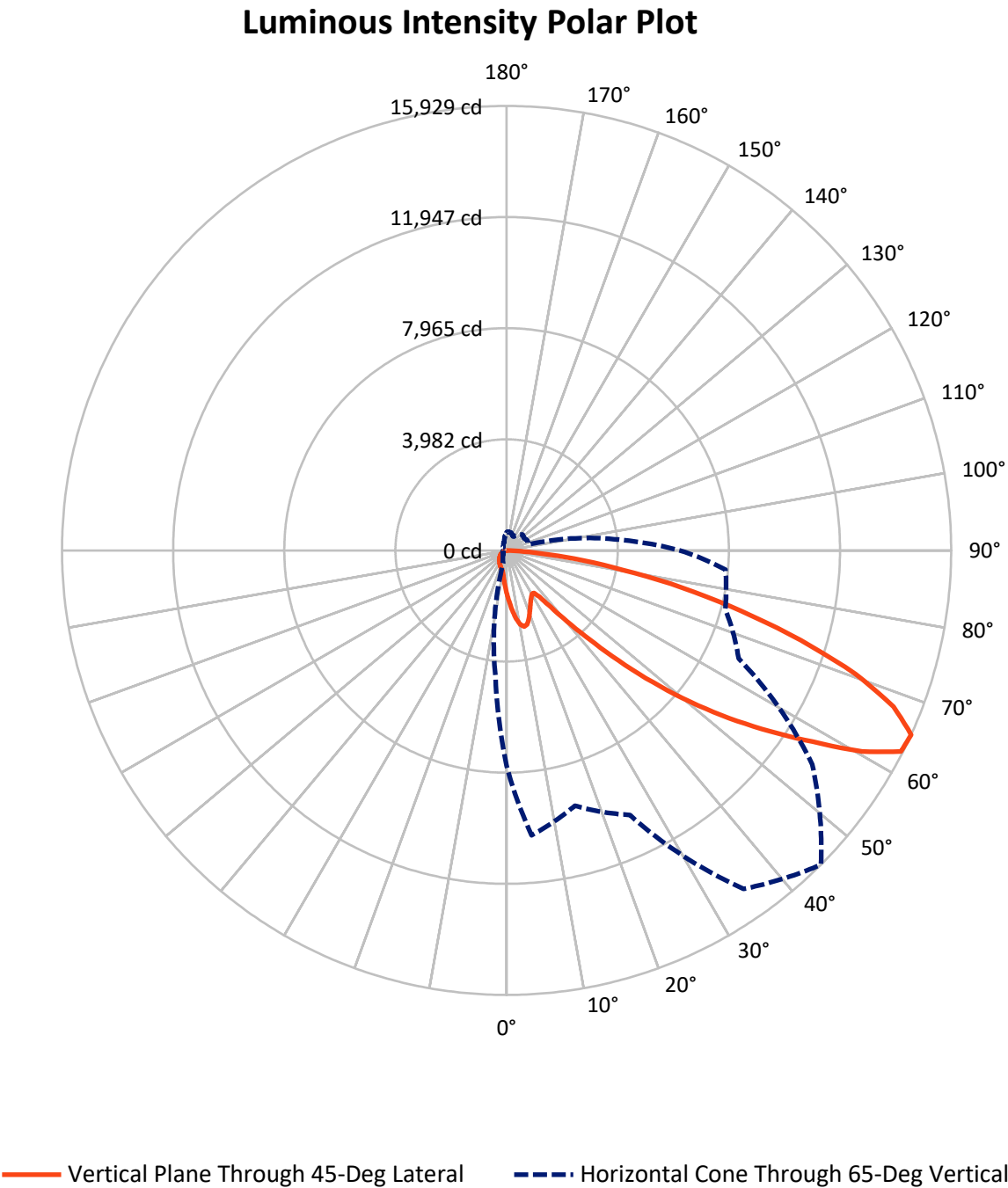
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type IV - Short - N/A

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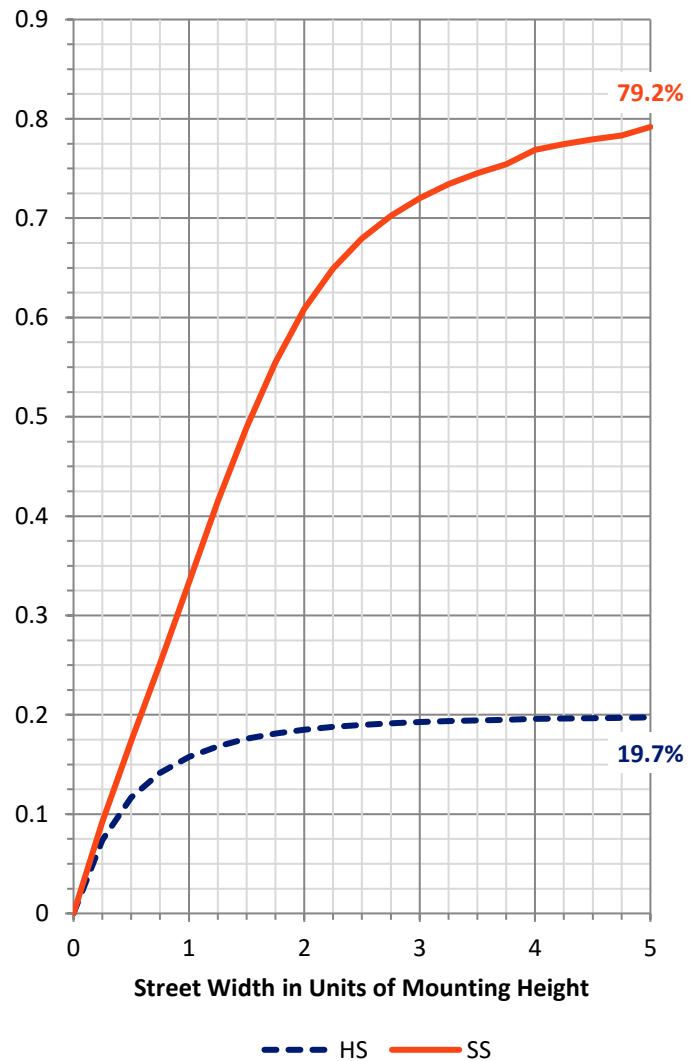
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2252.9	0.0	2252.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9081.1	0.0	9081.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	11334.0	0.0	11334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.4
10°-20°	463.2	4.1
20°-30°	682.4	6.0
30°-40°	876.6	7.7
40°-50°	1417.8	12.5
50°-60°	2486.3	21.9
60°-70°	3111.0	27.4
70°-80°	1817.9	16.0
80°-90°	324.3	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°	11334.0	100.0
0°-180°	11334.0	100.0

Coefficient of Utilization



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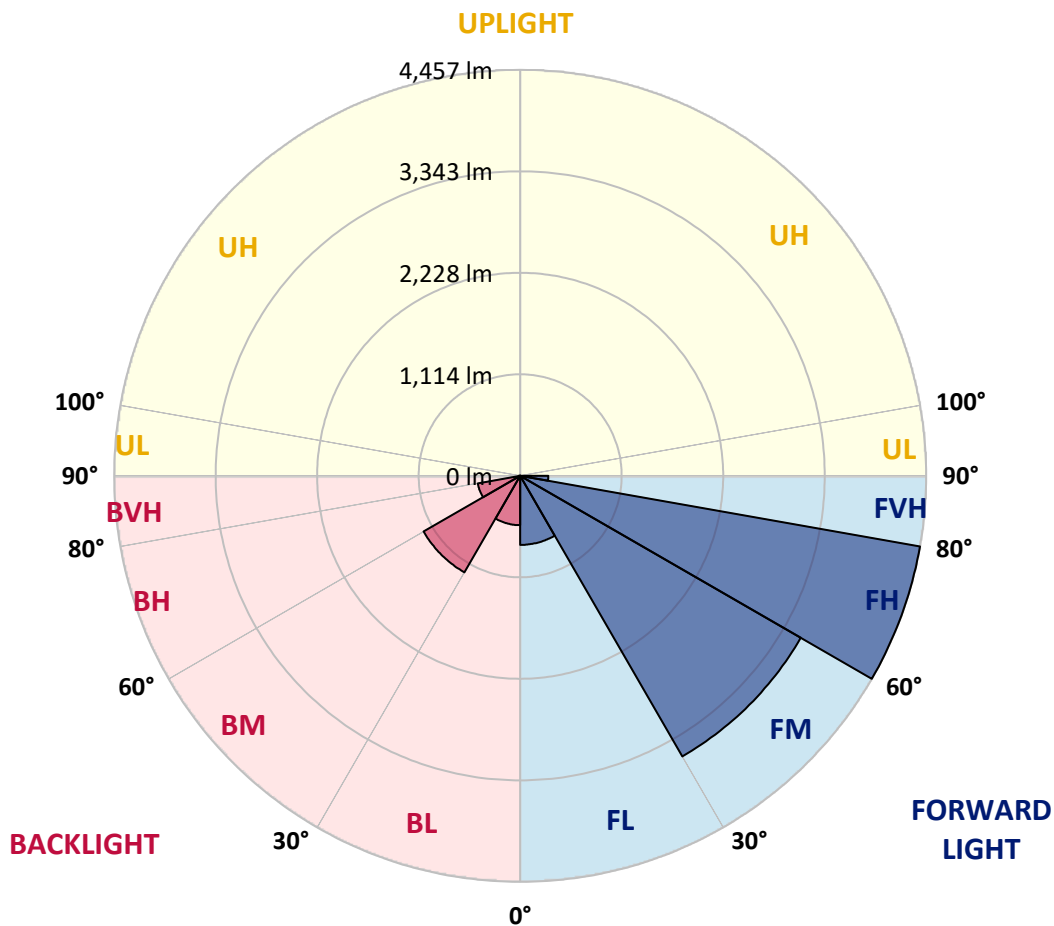
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.4	6.7			
FM	(30°-60°)	3556.7	31.4			
FH	(60°-80°)	4456.9	39.3			G2/5000
FVH	(80°-90°)	309.1	2.7			G3/500
BL	(0°-30°)	541.7	4.8	B2/1000		
BM	(30°-60°)	1224.0	10.8	B2/2500		
BH	(60°-80°)	472.0	4.2	B1/500		G1/500
BVH	(80°-90°)	15.2	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°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1758.3	1771.6	1801.3	1816.9	1841.1	1842.7	1842.7	1821.6	1820.8	1777.9	1773.2
5°	1965.3	1996.5	2066.8	2139.4	2155.0	2158.9	2151.1	2108.9	2077.7	1994.1	1976.2
7.5°	2170.6	2230.7	2337.7	2434.5	2465.7	2465.7	2447.0	2378.3	2314.3	2193.3	2148.0
10°	2340.8	2416.6	2561.8	2670.3	2706.2	2698.4	2660.2	2573.5	2485.3	2338.5	2279.1
12.5°	2453.3	2538.4	2697.6	2785.1	2821.8	2801.5	2757.8	2673.4	2580.5	2425.9	2358.8
15°	2509.5	2598.5	2736.7	2782.8	2772.6	2751.5	2746.1	2705.5	2635.2	2490.7	2417.3
17.5°	2533.7	2616.4	2712.5	2683.6	2597.7	2581.3	2636.0	2687.5	2670.3	2547.0	2478.2
20°	2556.3	2625.8	2654.7	2526.7	2376.7	2361.9	2466.5	2613.3	2688.3	2599.3	2536.0
22.5°	2587.6	2630.5	2571.2	2361.1	2199.5	2165.1	2280.7	2501.7	2693.7	2665.6	2602.4
25°	2630.5	2642.2	2479.0	2204.2	2041.8	2007.4	2115.2	2377.5	2684.4	2737.5	2683.6
27.5°	2682.0	2657.8	2390.8	2073.0	1916.1	1884.1	1991.8	2258.1	2657.8	2809.3	2771.0
30°	2749.2	2678.1	2303.3	1971.5	1826.3	1802.9	1906.7	2155.0	2625.0	2900.7	2879.6
32.5°	2817.1	2686.7	2222.1	1912.2	1806.0	1814.6	1899.7	2099.6	2589.1	2988.1	2998.2
35°	2890.5	2714.0	2182.3	1970.7	1975.4	2050.4	2085.5	2151.1	2583.6	3106.8	3146.6
37.5°	2990.4	2774.9	2229.9	2262.0	2424.4	2579.7	2550.9	2403.3	2646.9	3284.0	3358.2
40°	3134.1	2881.9	2437.6	2757.8	3091.2	3343.4	3233.3	2861.6	2840.5	3539.3	3650.2
42.5°	3343.4	3052.1	2806.2	3363.7	3929.0	4344.3	4049.2	3452.7	3179.4	3904.0	4045.3
45°	3652.6	3327.7	3252.0	4003.1	4961.9	5616.3	5002.5	4082.8	3654.1	4456.0	4566.9
47.5°	4081.2	3733.0	3669.7	4677.0	6217.5	7063.8	6059.7	4666.8	4194.4	5208.7	5234.4
50°	4650.4	4278.8	4065.6	5414.0	7594.0	8539.5	7116.2	5230.5	4813.6	6128.5	6098.8
52.5°	5401.5	5040.0	4527.0	6116.0	9009.6	9984.0	8177.3	5725.6	5581.9	7195.8	7134.9
55°	6425.9	6185.5	5157.9	6785.9	10424.4	11437.1	9197.0	6192.5	6596.9	8463.8	8095.3
57.5°	7697.1	7868.8	6067.6	7562.8	11696.3	12934.6	10221.4	6845.2	7914.9	9881.7	8652.8
60°	8516.9	10107.4	7809.5	8711.3	13141.5	14628.2	11625.2	8086.7	9300.0	10390.0	8546.6
62.5°	8318.6	10819.5	9895.8	10177.7	14470.5	15859.5	13001.0	9333.6	9560.8	9641.2	7728.3
65°	7710.3	10244.8	9470.3	10462.6	14807.0	15929.0	13368.8	9172.8	8110.1	7871.2	6212.0
67.5°	6873.3	9563.2	8459.1	9706.8	14198.7	14957.7	12684.0	8114.0	6267.4	5906.7	4506.7
70°	5970.0	8808.9	7795.4	8858.9	13039.3	13264.9	11519.8	7136.5	4609.8	3989.1	2892.1
72.5°	5112.6	8023.4	7341.0	7989.9	11492.5	11025.6	10004.3	6272.1	3356.6	2877.2	2055.8
75°	4235.8	6864.7	6693.7	6957.7	9458.5	8684.8	8312.3	5193.1	2634.4	2081.6	1418.7
77.5°	3268.4	5364.1	5757.6	5571.7	6657.8	6450.9	6443.1	3902.4	1924.7	1389.0	889.3
80°	2237.0	3738.4	4498.2	3930.5	4320.9	4215.5	4852.6	2618.0	1396.1	836.2	495.0
82.5°	1314.9	2276.0	3131.0	1902.8	2389.2	2452.5	2889.7	1273.5	821.4	192.9	107.7
85°	533.3	898.7	1224.3	744.9	1152.5	972.1	1097.0	357.6	228.8	4.7	0.0
87.5°	134.3	287.3	201.4	83.5	133.5	122.6	96.8	43.7	9.4	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°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1742.7	1724.8	1680.3	1635.8	1599.8	1551.4	1519.4	1481.2	1444.5	1411.7	1405.4
5°	1927.0	1867.7	1786.5	1712.3	1636.5	1563.1	1490.5	1414.0	1343.7	1300.8	1273.5
7.5°	2076.9	1972.3	1864.5	1770.1	1678.7	1592.8	1496.8	1403.9	1293.8	1235.2	1182.1
10°	2188.6	2051.1	1909.8	1801.3	1709.2	1625.6	1544.4	1450.7	1318.0	1244.6	1164.9
12.5°	2262.0	2098.8	1933.2	1809.1	1706.0	1641.2	1605.3	1568.6	1436.7	1350.8	1235.2
15°	2312.7	2132.3	1949.6	1791.1	1664.7	1617.0	1652.9	1695.1	1610.8	1511.6	1360.9
17.5°	2368.1	2176.1	1956.7	1742.7	1584.2	1563.9	1656.8	1754.4	1750.5	1652.2	1504.6
20°	2426.7	2214.3	1952.0	1664.7	1486.6	1504.6	1623.3	1736.5	1784.1	1731.0	1599.8
22.5°	2486.8	2251.0	1934.0	1563.1	1395.3	1451.5	1570.2	1669.3	1725.6	1709.2	1609.2
25°	2562.6	2302.6	1907.5	1453.8	1319.5	1397.6	1508.5	1588.9	1628.0	1627.2	1558.5
27.5°	2653.1	2371.3	1893.4	1365.6	1265.7	1336.7	1435.1	1506.9	1534.3	1534.3	1479.6
30°	2758.5	2452.5	1877.8	1307.8	1234.4	1273.5	1350.0	1420.3	1447.6	1447.6	1401.5
32.5°	2875.7	2530.6	1840.3	1272.7	1211.0	1211.8	1260.2	1324.2	1357.0	1361.7	1328.9
35°	3016.2	2614.1	1758.3	1244.6	1183.7	1151.7	1175.1	1228.2	1267.2	1277.4	1257.1
37.5°	3200.5	2716.4	1641.2	1203.2	1141.5	1088.4	1093.9	1134.5	1177.4	1193.1	1179.8
40°	3448.0	2836.6	1519.4	1143.9	1082.2	1018.9	1016.6	1046.3	1088.4	1105.6	1098.6
42.5°	3775.1	2981.1	1403.1	1086.9	1010.3	945.5	941.6	965.1	1001.8	1019.7	1016.6
45°	4193.6	3158.3	1303.1	1042.4	940.1	876.1	874.5	894.0	926.0	944.8	940.9
47.5°	4775.3	3335.6	1235.2	1018.9	884.6	819.1	822.2	839.4	868.2	881.5	876.1
50°	5533.5	3389.4	1200.9	1018.9	855.0	768.3	783.9	798.0	819.8	827.6	820.6
52.5°	6261.2	3211.4	1169.6	1025.2	858.9	725.4	758.9	769.1	787.8	790.9	780.8
55°	6618.0	2760.9	1126.7	1026.7	883.1	688.7	738.6	757.4	764.4	763.6	746.4
57.5°	6495.4	2232.3	1054.1	1020.5	899.5	665.2	713.6	749.6	754.2	747.2	715.2
60°	6065.2	1643.6	998.6	974.4	893.2	658.2	675.4	732.4	739.4	730.0	677.7
62.5°	5343.8	1140.7	955.7	872.9	865.9	655.9	615.3	694.9	712.1	698.8	622.3
65°	4206.9	805.8	823.0	765.2	806.6	643.4	552.8	649.6	673.0	652.7	545.0
67.5°	2846.8	581.7	666.8	693.3	710.5	615.3	507.5	598.1	629.3	602.8	455.2
70°	1537.4	408.4	440.4	584.0	603.6	566.9	466.9	545.8	581.7	552.8	370.9
72.5°	908.1	293.6	308.4	469.3	502.8	498.9	421.6	484.9	528.6	494.2	301.4
75°	500.5	198.3	220.2	340.4	408.4	384.9	362.3	410.7	455.2	421.6	232.7
77.5°	224.1	118.7	153.0	223.3	320.9	263.9	280.3	320.1	361.5	326.4	155.4
80°	86.7	66.4	101.5	121.8	233.5	146.0	180.4	235.8	265.5	237.4	94.5
82.5°	10.9	29.7	43.7	47.6	135.9	77.3	104.6	148.4	146.0	126.5	47.6
85°	0.0	5.5	6.2	3.1	58.6	28.1	34.4	48.4	45.3	34.4	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1367.2	1339.1	1325.0	1313.3	1324.2	1330.5	1330.5	1357.0	1372.6	1378.9	1422.6
5°	1204.8	1152.5	1117.3	1096.2	1103.3	1111.1	1119.7	1153.2	1175.9	1190.7	1258.6
7.5°	1076.7	997.1	947.9	922.1	926.0	931.5	938.5	971.3	994.0	1013.5	1089.2
10°	1013.5	901.0	836.2	805.0	799.5	796.4	794.1	813.6	830.8	846.4	921.3
12.5°	1016.6	859.7	780.8	742.5	726.1	707.4	692.6	695.7	706.6	726.1	773.8
15°	1056.4	846.4	751.9	704.3	676.9	655.1	637.1	633.2	637.1	640.3	669.9
17.5°	1110.3	844.8	726.9	667.6	639.5	621.5	605.1	599.6	600.4	604.3	612.1
20°	1153.2	840.1	698.8	632.4	607.5	591.8	575.4	570.0	571.5	572.3	580.9
22.5°	1175.9	833.1	667.6	597.3	576.2	560.6	545.8	545.0	545.0	549.7	555.9
25°	1175.9	818.3	639.5	563.7	545.0	530.9	513.0	516.1	517.7	523.9	533.3
27.5°	1147.8	790.2	616.8	534.8	515.3	501.3	484.9	488.8	491.1	498.1	509.9
30°	1111.9	756.6	591.1	507.5	484.9	474.7	460.7	462.2	465.4	473.2	486.4
32.5°	1073.6	716.8	570.0	480.2	457.5	449.7	434.1	436.5	439.6	448.2	463.0
35°	1031.4	669.9	545.0	455.2	432.6	426.3	408.4	409.9	414.6	424.0	438.8
37.5°	986.9	631.7	520.0	431.0	407.6	401.3	382.6	384.2	389.6	400.5	414.6
40°	943.2	594.2	493.5	405.2	381.8	376.3	356.0	357.6	363.9	375.6	390.4
42.5°	895.6	565.3	459.1	378.7	353.7	348.2	329.5	331.8	338.9	350.6	365.4
45°	838.6	546.6	420.8	353.7	325.6	320.1	302.9	307.6	315.4	327.2	342.8
47.5°	780.0	538.7	388.8	327.2	296.7	292.0	278.0	285.8	294.4	303.7	320.9
50°	723.8	528.6	356.0	302.2	271.7	267.0	257.7	267.8	276.4	285.0	301.4
52.5°	659.8	506.7	326.4	280.3	250.6	249.1	244.4	253.8	261.6	269.4	283.4
55°	593.4	471.6	300.6	260.8	232.7	234.2	231.9	239.7	246.0	253.0	265.5
57.5°	535.6	427.1	280.3	239.7	217.1	221.7	218.6	222.5	226.4	235.0	245.2
60°	477.1	374.0	257.7	214.7	201.4	206.9	198.3	197.5	199.1	201.4	220.2
62.5°	398.2	318.6	229.6	192.9	184.3	186.6	170.2	157.7	157.7	160.1	188.2
65°	320.1	267.0	198.3	167.9	160.8	159.3	135.9	118.7	117.1	124.1	148.4
67.5°	263.1	221.7	167.1	139.8	135.1	136.6	119.5	102.3	100.7	108.5	126.5
70°	217.8	178.8	133.5	107.7	112.4	119.5	102.3	85.9	83.5	90.6	107.7
72.5°	173.3	139.8	102.3	79.6	92.9	101.5	83.5	67.9	66.4	72.6	89.0
75°	127.3	99.9	69.5	57.8	71.8	79.6	60.9	48.4	46.1	51.5	67.9
77.5°	78.9	56.2	43.7	34.4	49.2	53.1	32.0	28.1	27.3	31.2	42.9
80°	36.7	24.2	21.1	11.7	18.0	21.1	13.3	14.8	15.6	18.7	26.5
82.5°	10.2	3.9	0.8	0.0	0.0	6.2	3.1	6.2	7.8	11.7	17.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9	7.0	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
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°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1455.4	1486.6	1536.6	1588.1	1638.9	1690.4	1740.4	1758.3
5°	1320.3	1392.2	1491.3	1597.5	1706.8	1817.7	1919.2	1965.3
7.5°	1169.6	1272.7	1421.8	1588.1	1762.3	1936.4	2096.4	2170.6
10°	1008.8	1139.2	1309.4	1534.3	1784.1	2024.6	2244.8	2340.8
12.5°	855.8	992.4	1180.6	1449.9	1766.9	2075.4	2340.0	2453.3
15°	727.7	848.7	1051.7	1350.0	1711.5	2078.5	2385.3	2509.5
17.5°	631.7	710.5	920.6	1239.1	1638.9	2049.6	2400.9	2533.7
20°	584.0	605.9	750.3	1097.0	1571.0	2022.3	2416.6	2556.3
22.5°	555.9	561.4	613.7	913.5	1489.8	2013.7	2443.9	2587.6
25°	533.3	534.8	548.9	723.8	1365.6	2008.2	2486.0	2630.5
27.5°	510.6	510.6	518.4	583.3	1197.0	1984.8	2540.7	2682.0
30°	488.0	488.0	493.5	516.1	999.4	1938.7	2606.3	2749.2
32.5°	464.6	464.6	469.3	485.7	798.0	1880.9	2666.4	2817.1
35°	441.1	439.6	445.8	463.0	634.8	1807.5	2726.5	2890.5
37.5°	416.2	415.4	421.6	441.1	548.1	1722.4	2771.8	2990.4
40°	389.6	389.6	396.6	417.7	523.1	1615.5	2843.7	3134.1
42.5°	365.4	363.9	371.7	397.4	504.4	1513.2	2972.5	3343.4
45°	342.0	338.9	345.9	377.9	471.6	1477.3	3213.0	3652.6
47.5°	320.1	312.3	318.6	354.5	441.9	1611.6	3606.5	4081.2
50°	302.2	287.3	292.8	331.1	419.3	1902.8	4117.1	4650.4
52.5°	283.4	263.9	267.0	302.2	399.0	2180.0	4670.7	5401.5
55°	263.9	242.0	243.6	273.3	370.1	2221.4	5211.0	6425.9
57.5°	242.0	221.7	221.7	246.7	349.0	1925.4	5626.4	7697.1
60°	217.8	204.6	200.7	225.6	367.8	1358.6	5674.8	8516.9
62.5°	191.3	184.3	178.8	205.3	381.8	805.0	5285.2	8318.6
65°	160.8	159.3	155.4	225.6	321.7	475.5	4537.2	7710.3
67.5°	135.1	132.7	132.7	236.6	244.4	299.0	3544.8	6873.3
70°	116.3	107.7	107.7	178.8	148.4	206.9	2475.1	5970.0
72.5°	97.6	88.2	82.0	142.9	110.9	151.5	1546.8	5112.6
75°	78.1	71.1	63.2	94.5	82.8	114.8	898.7	4235.8
77.5°	56.2	53.1	44.5	69.5	60.1	82.8	534.8	3268.4
80°	28.9	29.7	28.1	39.8	40.6	56.2	304.5	2237.0
82.5°	17.2	13.3	14.8	19.5	23.4	32.0	114.8	1314.9
85°	10.9	7.0	7.0	9.4	11.7	12.5	35.1	533.3
87.5°	5.5	2.3	3.1	4.7	3.9	3.1	1.6	134.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)