

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: P949860

Luminaire Tested: **GALN-SB4C-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949860
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-SB4C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21247 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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

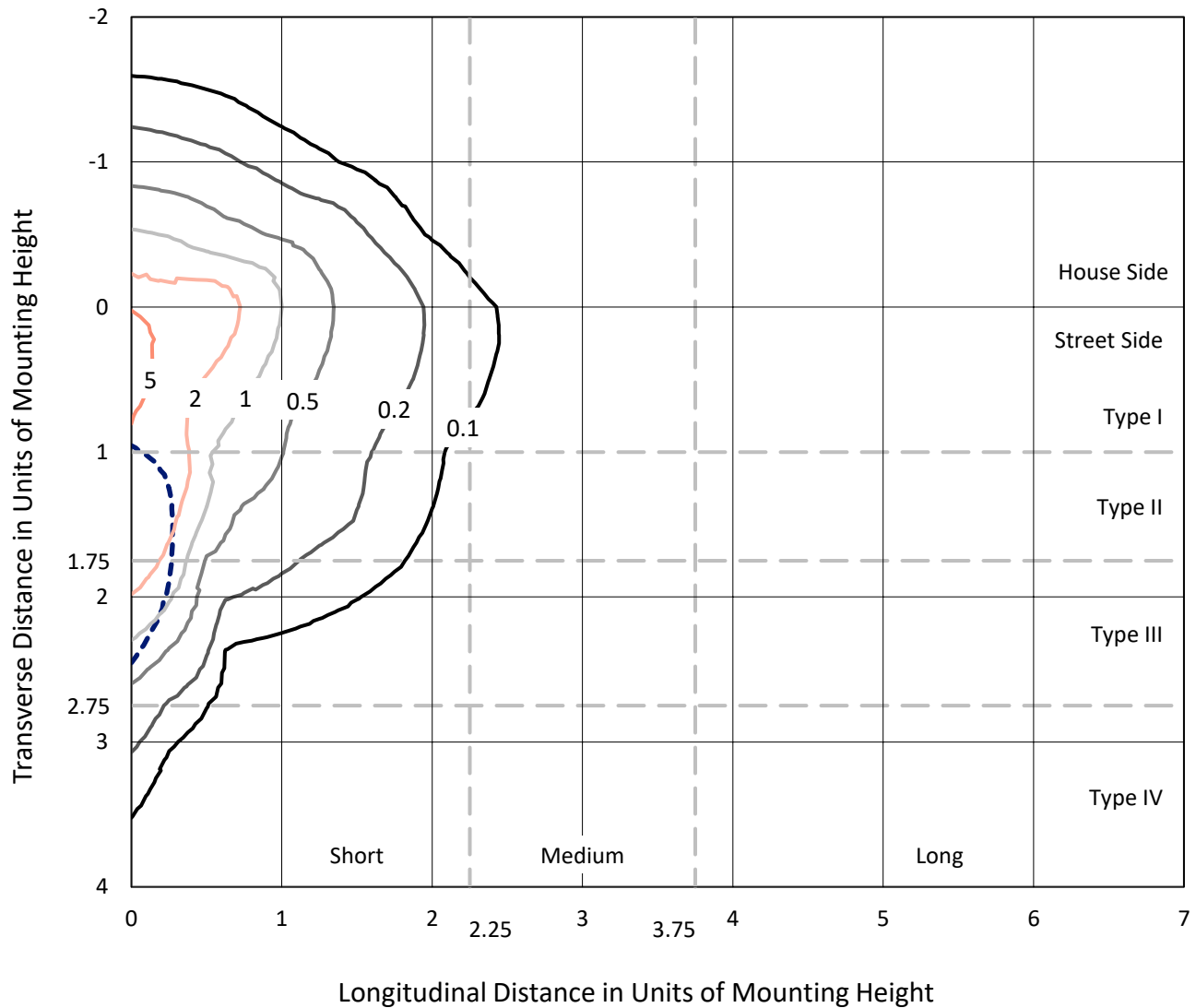


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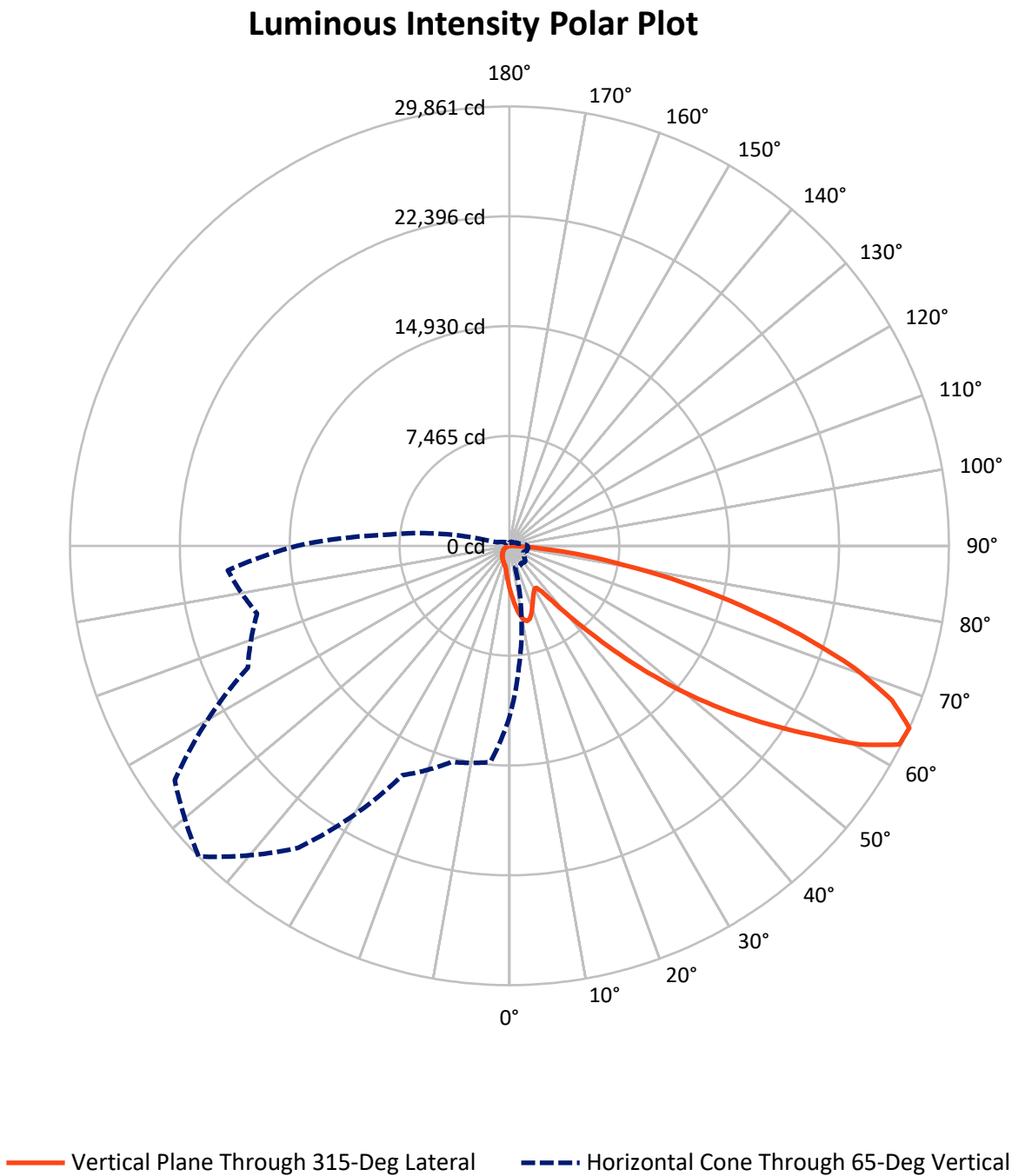
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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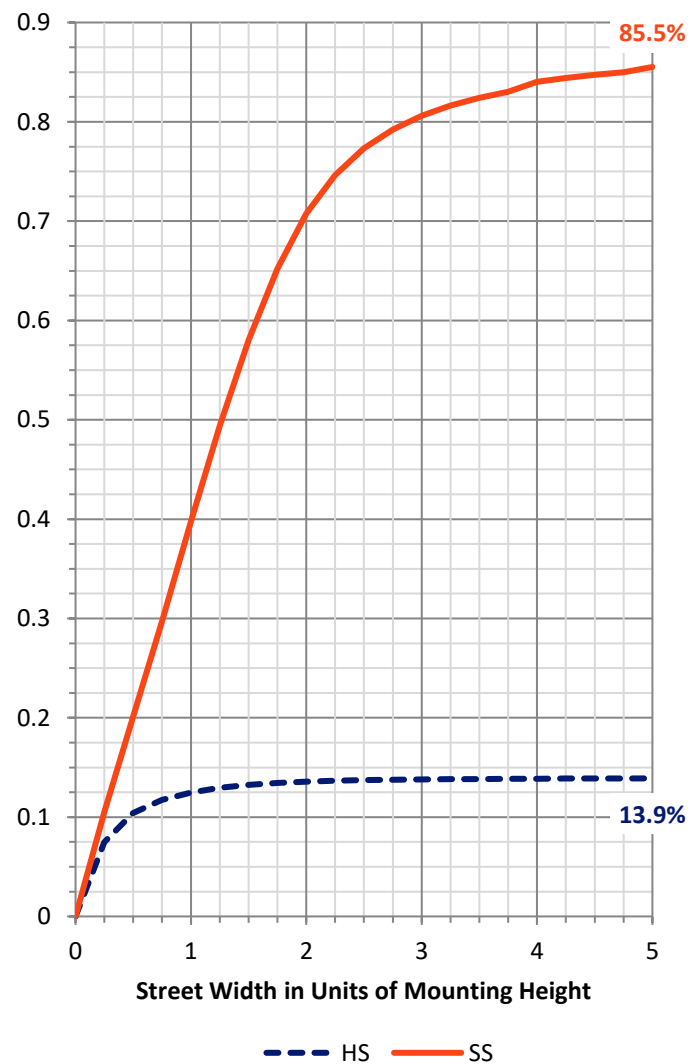
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2975.5	0.0	2975.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18271.5	0.0	18271.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	21247.0	0.0	21247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	1.4
10°-20°	868.3	4.1
20°-30°	1279.2	6.0
30°-40°	1643.4	7.7
40°-50°	2657.9	12.5
50°-60°	4660.8	21.9
60°-70°	5831.9	27.4
70°-80°	3407.9	16.0
80°-90°	608.0	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°	21247.0	100.0
0°-180°	21247.0	100.0

Coefficient of Utilization



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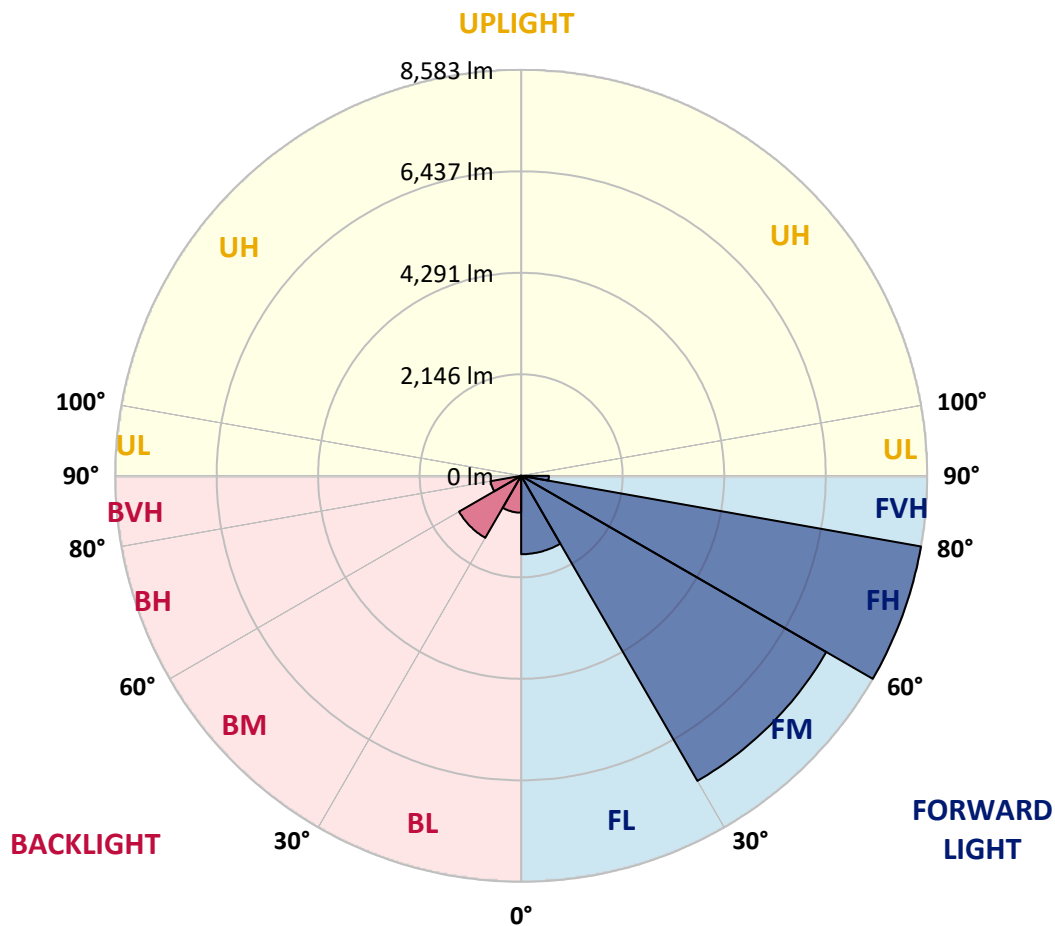
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.2	7.8			
FM	(30°-60°)	7446.8	35.0			
FH	(60°-80°)	8582.8	40.4			G4/12000
FVH	(80°-90°)	584.7	2.8			G4/750
BL	(0°-30°)	779.9	3.7	B2/1000		
BM	(30°-60°)	1515.2	7.1	B2/2500		
BH	(60°-80°)	657.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	23.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0
2.5°	3324.1	3267.0	3233.3	3149.9	3066.4	2999.1	2908.4	2848.4	2776.6	2707.8	2646.4
5°	3704.6	3612.4	3501.2	3348.9	3209.9	3067.9	2930.3	2794.2	2650.8	2519.0	2438.5
7.5°	4026.6	3893.4	3697.3	3495.3	3318.2	3146.9	2985.9	2805.9	2631.7	2425.3	2315.6
10°	4272.5	4102.7	3845.1	3580.2	3376.7	3204.0	3047.4	2895.2	2719.5	2470.7	2333.1
12.5°	4421.8	4240.3	3934.4	3624.1	3391.4	3198.2	3076.7	3009.4	2940.6	2693.2	2532.2
15°	4531.6	4335.5	3997.4	3654.8	3357.7	3120.6	3031.3	3098.6	3177.7	3019.6	2833.7
17.5°	4645.8	4439.4	4079.3	3668.0	3267.0	2969.8	2931.8	3106.0	3288.9	3281.6	3097.2
20°	4754.1	4549.2	4151.0	3659.2	3120.6	2786.9	2820.5	3043.0	3255.3	3344.5	3245.0
22.5°	4878.5	4661.9	4219.8	3625.6	2930.3	2615.6	2721.0	2943.5	3129.4	3234.8	3204.0
25°	5030.7	4803.9	4316.4	3575.8	2725.4	2473.6	2620.0	2827.9	2978.6	3051.8	3050.3
27.5°	5194.7	4973.6	4445.2	3549.5	2560.0	2372.7	2505.8	2690.3	2824.9	2876.2	2876.2
30°	5398.1	5171.2	4597.5	3520.2	2451.7	2314.1	2387.3	2530.7	2662.5	2713.7	2713.7
32.5°	5620.6	5390.8	4743.8	3449.9	2385.8	2270.2	2271.7	2362.4	2482.4	2543.9	2552.7
35°	5898.7	5654.3	4900.5	3296.2	2333.1	2219.0	2159.0	2202.9	2302.4	2375.6	2394.6
37.5°	6295.4	5999.7	5092.2	3076.7	2255.6	2139.9	2040.4	2050.6	2126.8	2207.3	2236.5
40°	6842.8	6463.7	5317.6	2848.4	2144.3	2028.7	1910.1	1905.7	1961.4	2040.4	2072.6
42.5°	7583.4	7077.0	5588.4	2630.3	2037.5	1894.0	1772.5	1765.2	1809.1	1877.9	1911.6
45°	8561.2	7861.5	5920.7	2442.9	1954.0	1762.3	1642.3	1639.3	1675.9	1735.9	1771.1
47.5°	9812.6	8952.0	6252.9	2315.6	1910.1	1658.4	1535.4	1541.3	1573.5	1627.6	1652.5
50°	11432.9	10373.2	6353.9	2251.2	1910.1	1602.7	1440.3	1469.6	1495.9	1536.9	1551.5
52.5°	13375.3	11737.4	6020.2	2192.6	1921.8	1610.1	1359.8	1422.7	1441.7	1476.9	1482.7
55°	15175.6	12406.3	5175.6	2112.1	1924.8	1655.4	1291.0	1384.7	1419.8	1433.0	1431.5
57.5°	16220.7	12176.5	4184.7	1976.0	1913.1	1686.2	1247.1	1337.8	1405.1	1413.9	1400.8
60°	16021.6	11370.0	3081.1	1872.1	1826.7	1674.5	1233.9	1266.1	1372.9	1386.1	1368.6
62.5°	14487.7	10017.5	2138.5	1791.6	1636.4	1623.2	1229.5	1153.4	1302.7	1334.9	1310.0
65°	11645.2	7886.4	1510.5	1542.7	1434.4	1512.0	1206.1	1036.3	1217.8	1261.7	1223.7
67.5°	8448.5	5336.6	1090.5	1250.0	1299.8	1332.0	1153.4	951.4	1121.2	1179.7	1130.0
70°	5421.5	2882.0	765.5	825.5	1094.8	1131.4	1062.6	875.3	1023.1	1090.5	1036.3
72.5°	3853.9	1702.3	550.3	578.2	879.7	942.6	935.3	790.4	909.0	990.9	926.5
75°	2659.5	938.2	371.8	412.8	638.2	765.5	721.6	679.2	769.9	853.3	790.4
77.5°	1667.2	420.1	222.5	286.9	418.6	601.6	494.7	525.5	600.1	677.7	611.8
80°	928.0	162.5	124.4	190.3	228.3	437.6	273.7	338.1	442.0	497.7	445.0
82.5°	202.0	20.5	55.6	82.0	89.3	254.7	144.9	196.1	278.1	273.7	237.1
85°	0.0	0.0	10.2	11.7	5.9	109.8	52.7	64.4	90.7	84.9	64.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	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°	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0
2.5°	2634.7	2562.9	2510.2	2483.9	2461.9	2482.4	2494.1	2494.1	2543.9	2573.2	2584.9
5°	2387.3	2258.5	2160.4	2094.5	2055.0	2068.2	2082.8	2098.9	2161.9	2204.3	2232.1
7.5°	2216.0	2018.4	1869.1	1776.9	1728.6	1735.9	1746.2	1759.4	1820.8	1863.3	1899.9
10°	2183.8	1899.9	1689.1	1567.6	1509.1	1498.8	1493.0	1488.6	1525.2	1557.4	1586.6
12.5°	2315.6	1905.7	1611.5	1463.7	1392.0	1361.2	1326.1	1298.3	1304.2	1324.6	1361.2
15°	2551.2	1980.4	1586.6	1409.5	1320.3	1269.0	1228.0	1194.4	1187.1	1194.4	1200.2
17.5°	2820.5	2081.4	1583.7	1362.7	1251.5	1198.8	1165.1	1134.4	1124.1	1125.6	1132.9
20°	2999.1	2161.9	1574.9	1310.0	1185.6	1138.8	1109.5	1078.7	1068.5	1071.4	1072.9
22.5°	3016.7	2204.3	1561.8	1251.5	1119.7	1080.2	1050.9	1023.1	1021.7	1021.7	1030.4
25°	2921.5	2204.3	1534.0	1198.8	1056.8	1021.7	995.3	961.6	967.5	970.4	982.1
27.5°	2773.7	2151.6	1481.3	1156.3	1002.6	966.0	939.7	909.0	916.3	920.7	933.8
30°	2627.3	2084.3	1418.3	1108.0	951.4	909.0	889.9	863.6	866.5	872.4	887.0
32.5°	2491.2	2012.6	1343.7	1068.5	900.2	857.7	843.1	813.8	818.2	824.1	840.2
35°	2356.6	1933.5	1255.9	1021.7	853.3	810.9	799.2	765.5	768.4	777.2	794.8
37.5°	2211.6	1850.1	1184.1	974.8	808.0	764.0	752.3	717.2	720.1	730.4	750.9
40°	2059.4	1768.1	1113.9	925.1	759.7	715.7	705.5	667.4	670.4	682.1	704.0
42.5°	1905.7	1678.9	1059.7	860.7	709.9	663.1	652.8	617.7	622.1	635.2	657.2
45°	1763.8	1572.0	1024.6	788.9	663.1	610.4	600.1	567.9	576.7	591.3	613.3
47.5°	1642.3	1462.2	1010.0	728.9	613.3	556.2	547.4	521.1	535.7	551.8	569.4
50°	1538.3	1356.8	990.9	667.4	566.5	509.4	500.6	483.0	502.0	518.1	534.2
52.5°	1463.7	1236.8	949.9	611.8	525.5	469.8	466.9	458.1	475.7	490.3	505.0
55°	1399.3	1112.4	884.1	563.5	488.9	436.2	439.1	434.7	449.4	461.1	474.2
57.5°	1340.7	1004.1	800.6	525.5	449.4	406.9	415.7	409.8	417.2	424.5	440.6
60°	1270.5	894.3	701.1	483.0	402.5	377.6	387.9	371.8	370.3	373.2	377.6
62.5°	1166.6	746.5	597.2	430.3	361.5	345.4	349.8	319.1	295.7	295.7	300.1
65°	1021.7	600.1	500.6	371.8	314.7	301.5	298.6	254.7	222.5	219.6	232.7
67.5°	853.3	493.3	415.7	313.2	262.0	253.2	256.1	223.9	191.7	188.8	203.5
70°	695.3	408.4	335.2	250.3	202.0	210.8	223.9	191.7	161.0	156.6	169.8
72.5°	565.0	324.9	262.0	191.7	149.3	174.2	190.3	156.6	127.3	124.4	136.1
75°	436.2	238.6	187.4	130.3	108.3	134.7	149.3	114.2	90.7	86.4	96.6
77.5°	291.3	147.8	105.4	82.0	64.4	92.2	99.5	60.0	52.7	51.2	58.5
80°	177.1	68.8	45.4	39.5	22.0	33.7	39.5	24.9	27.8	29.3	35.1
82.5°	89.3	19.0	7.3	1.5	0.0	0.0	11.7	5.9	11.7	14.6	22.0
85°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.3	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0
2.5°	2666.9	2728.3	2786.9	2880.6	2977.2	3072.3	3168.9	3262.6	3296.2	3321.1	3376.7
5°	2359.5	2475.1	2609.8	2795.7	2994.7	3199.6	3407.5	3597.8	3684.1	3742.7	3874.4
7.5°	2041.9	2192.6	2385.8	2665.4	2977.2	3303.6	3630.0	3930.0	4069.1	4181.8	4382.3
10°	1727.2	1891.1	2135.5	2454.6	2876.2	3344.5	3795.4	4208.1	4388.2	4530.1	4802.4
12.5°	1450.5	1604.2	1860.4	2213.1	2718.1	3312.3	3890.5	4386.7	4598.9	4758.5	5057.1
15°	1255.9	1364.2	1591.0	1971.6	2530.7	3208.4	3896.4	4471.6	4704.3	4871.2	5130.3
17.5°	1147.5	1184.1	1332.0	1725.7	2322.9	3072.3	3842.2	4500.9	4749.7	4904.8	5084.9
20°	1089.0	1094.8	1135.8	1406.6	2056.5	2945.0	3791.0	4530.1	4792.1	4922.4	4976.6
22.5°	1042.2	1042.2	1052.4	1150.5	1712.5	2792.7	3774.9	4581.4	4850.7	4931.2	4820.0
25°	999.7	999.7	1002.6	1029.0	1356.8	2560.0	3764.6	4660.4	4931.2	4953.1	4647.2
27.5°	955.8	957.3	957.3	971.9	1093.4	2243.8	3720.7	4762.9	5027.8	4982.4	4481.8
30°	911.9	914.8	914.8	925.1	967.5	1873.5	3634.4	4885.8	5153.7	5020.5	4317.9
32.5°	868.0	870.9	870.9	879.7	910.4	1495.9	3526.0	4998.5	5281.0	5036.6	4165.7
35°	822.6	827.0	824.1	835.8	868.0	1190.0	3388.5	5111.2	5418.6	5087.8	4091.0
37.5°	777.2	780.2	778.7	790.4	827.0	1027.5	3228.9	5196.1	5606.0	5202.0	4180.3
40°	731.8	730.4	730.4	743.6	783.1	980.7	3028.4	5330.8	5875.3	5402.5	4569.7
42.5°	685.0	685.0	682.1	696.7	745.0	945.5	2836.6	5572.3	6267.5	5721.6	5260.5
45°	642.6	641.1	635.2	648.4	708.4	884.1	2769.3	6023.1	6847.2	6238.3	6096.3
47.5°	601.6	600.1	585.5	597.2	664.5	828.5	3021.1	6760.8	7650.7	6997.9	6879.4
50°	565.0	566.5	538.6	548.9	620.6	786.0	3567.0	7718.1	8717.8	8021.1	7621.5
52.5°	531.3	531.3	494.7	500.6	566.5	747.9	4086.6	8755.8	10125.9	9448.2	8486.5
55°	497.7	494.7	453.7	456.7	512.3	693.8	4164.2	9768.7	12046.2	11595.4	9669.2
57.5°	459.6	453.7	415.7	415.7	462.5	654.3	3609.5	10547.4	14429.1	14751.1	11374.4
60°	412.8	408.4	383.5	376.2	423.0	689.4	2546.8	10638.1	15966.0	18947.5	14639.9
62.5°	352.8	358.6	345.4	335.2	385.0	715.7	1509.1	9907.8	15594.2	20282.4	18550.9
65°	278.1	301.5	298.6	291.3	423.0	603.0	891.4	8505.5	14454.0	19205.2	17753.2
67.5°	237.1	253.2	248.8	248.8	443.5	458.1	560.6	6645.2	12884.9	17927.4	15857.7
70°	202.0	218.1	202.0	202.0	335.2	278.1	387.9	4639.9	11191.4	16513.4	14613.5
72.5°	166.9	183.0	165.4	153.7	267.9	207.8	284.0	2899.6	9584.3	15040.9	13761.7
75°	127.3	146.4	133.2	118.6	177.1	155.2	215.2	1684.7	7940.6	12868.8	12548.3
77.5°	80.5	105.4	99.5	83.4	130.3	112.7	155.2	1002.6	6127.0	10055.6	10793.3
80°	49.8	54.2	55.6	52.7	74.6	76.1	105.4	570.8	4193.5	7008.2	8432.4
82.5°	32.2	32.2	24.9	27.8	36.6	43.9	60.0	215.2	2464.9	4266.7	5869.4
85°	23.4	20.5	13.2	13.2	17.6	22.0	23.4	65.9	999.7	1684.7	2295.1
87.5°	11.7	10.2	4.4	5.9	8.8	7.3	5.9	2.9	251.8	538.6	377.6
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°	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0	2942.0
2.5°	3406.0	3451.4	3454.3	3454.3	3414.8	3413.3	3332.8	3324.1
5°	4010.5	4039.8	4047.1	4032.5	3953.4	3894.9	3738.3	3704.6
7.5°	4563.8	4622.4	4622.4	4587.2	4458.4	4338.4	4111.5	4026.6
10°	5005.8	5073.2	5058.5	4986.8	4824.3	4658.9	4383.8	4272.5
12.5°	5221.0	5289.8	5251.7	5169.8	5011.7	4837.5	4547.7	4421.8
15°	5216.6	5197.6	5158.1	5147.8	5071.7	4940.0	4669.2	4531.6
17.5°	5030.7	4869.7	4839.0	4941.4	5038.0	5005.8	4774.6	4645.8
20°	4736.5	4455.5	4427.7	4623.8	4899.0	5039.5	4872.6	4754.1
22.5°	4426.2	4123.2	4058.8	4275.5	4689.7	5049.8	4997.1	4878.5
25°	4132.0	3827.6	3763.2	3965.2	4457.0	5032.2	5131.7	5030.7
27.5°	3886.1	3591.9	3531.9	3733.9	4233.0	4982.4	5266.4	5194.7
30°	3695.8	3423.6	3379.7	3574.3	4039.8	4920.9	5437.6	5398.1
32.5°	3584.6	3385.5	3401.6	3561.2	3935.9	4853.6	5601.6	5620.6
35°	3694.4	3703.2	3843.7	3909.5	4032.5	4843.4	5824.0	5898.7
37.5°	4240.3	4544.8	4836.1	4781.9	4505.3	4961.9	6156.3	6295.4
40°	5169.8	5794.8	6267.5	6061.2	5364.4	5324.9	6634.9	6842.8
42.5°	6305.6	7365.3	8144.0	7590.7	6472.5	5960.2	7318.5	7583.4
45°	7504.4	9301.8	10528.4	9377.9	7653.7	6850.1	8353.3	8561.2
47.5°	8767.5	11655.4	13242.1	11359.7	8748.5	7863.0	9764.3	9812.6
50°	10149.3	14235.9	16008.4	13340.1	9805.3	9023.7	11488.6	11432.9
52.5°	11465.1	16889.6	18716.3	15329.3	10733.3	10464.0	13489.4	13375.3
55°	12721.0	19541.8	21440.2	17240.9	11608.6	12366.8	15866.5	15175.6
57.5°	14177.4	21926.2	24247.6	19161.2	12832.2	14837.5	18524.5	16220.7
60°	16330.5	24635.5	27422.4	21793.0	15159.5	17434.1	19477.4	16021.6
62.5°	19079.3	27126.7	29730.6	24372.0	17497.0	17923.0	18073.7	14487.7
65°	19613.5	27757.5	29860.9	25061.4	17195.5	15203.4	14755.5	11645.2
67.5°	18196.7	26617.3	28040.0	23777.7	15210.7	11749.1	11072.9	8448.5
70°	16607.1	24443.7	24866.7	21595.4	13378.2	8641.7	7478.0	5421.5
72.5°	14978.0	21544.1	20668.9	18754.3	11757.9	6292.4	5393.7	3853.9
75°	13043.0	17731.2	16280.7	15582.5	9735.0	4938.5	3902.2	2659.5
77.5°	10444.9	12480.9	12093.1	12078.4	7315.6	3608.0	2603.9	1667.2
80°	7368.2	8100.1	7902.5	9096.9	4907.8	2617.1	1567.6	928.0
82.5°	3567.0	4478.9	4597.5	5417.1	2387.3	1539.8	361.5	202.0
85°	1396.4	2160.4	1822.3	2056.5	670.4	428.9	8.8	0.0
87.5°	156.6	250.3	229.8	181.5	82.0	17.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)