

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: P955929

Luminaire Tested: **GALN-SB8D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955929
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-SB8D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA 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: 58249 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

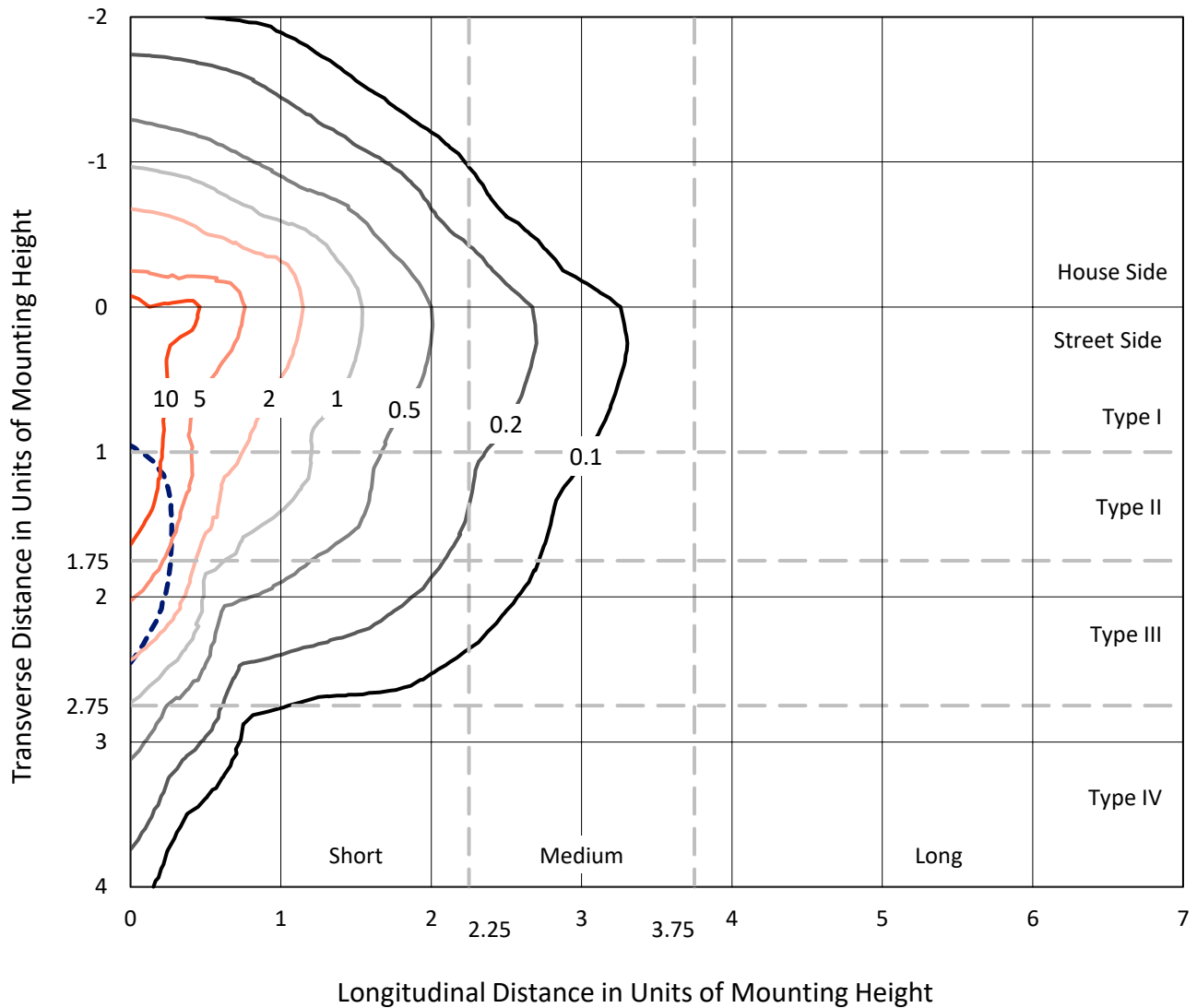
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

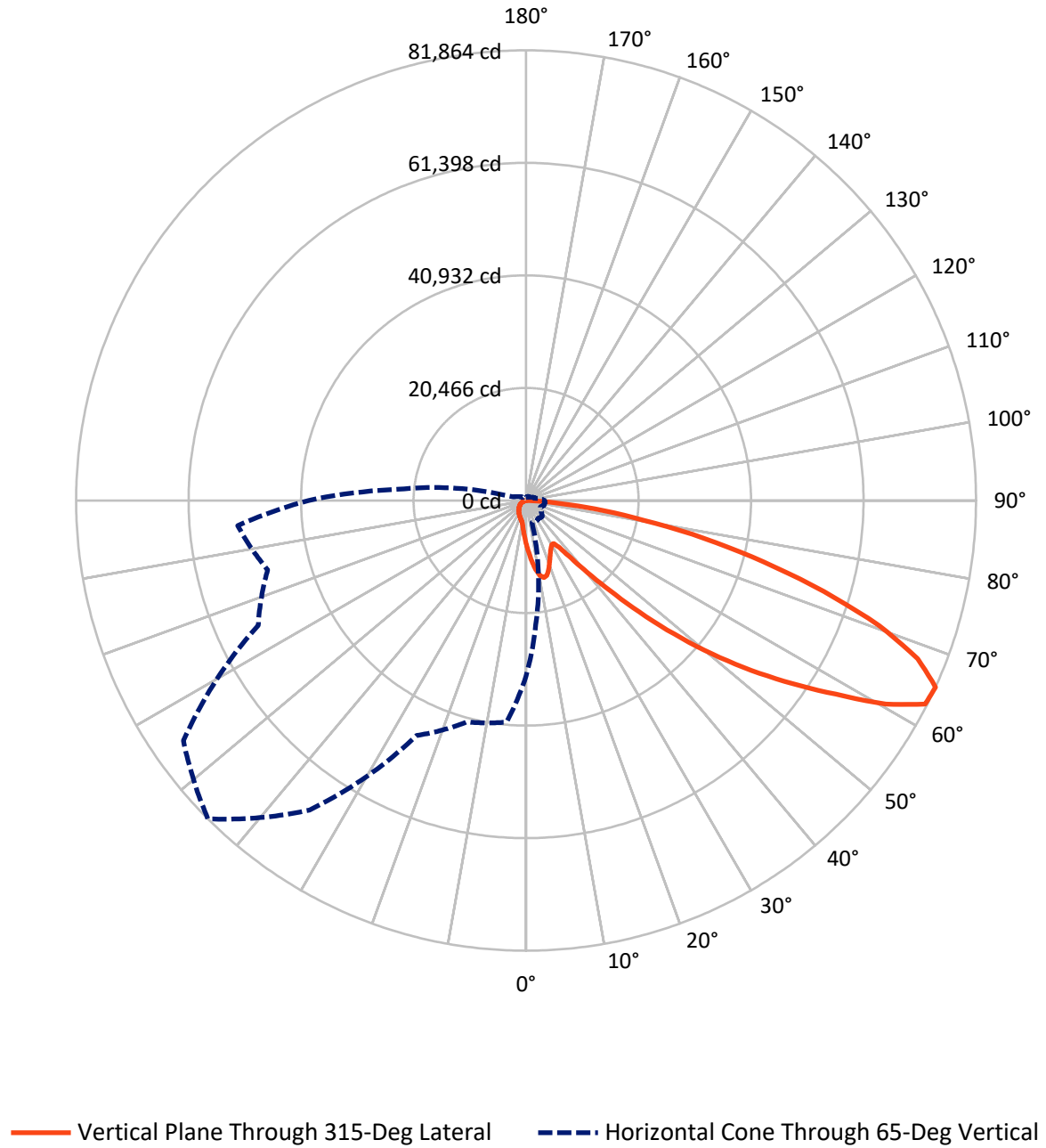
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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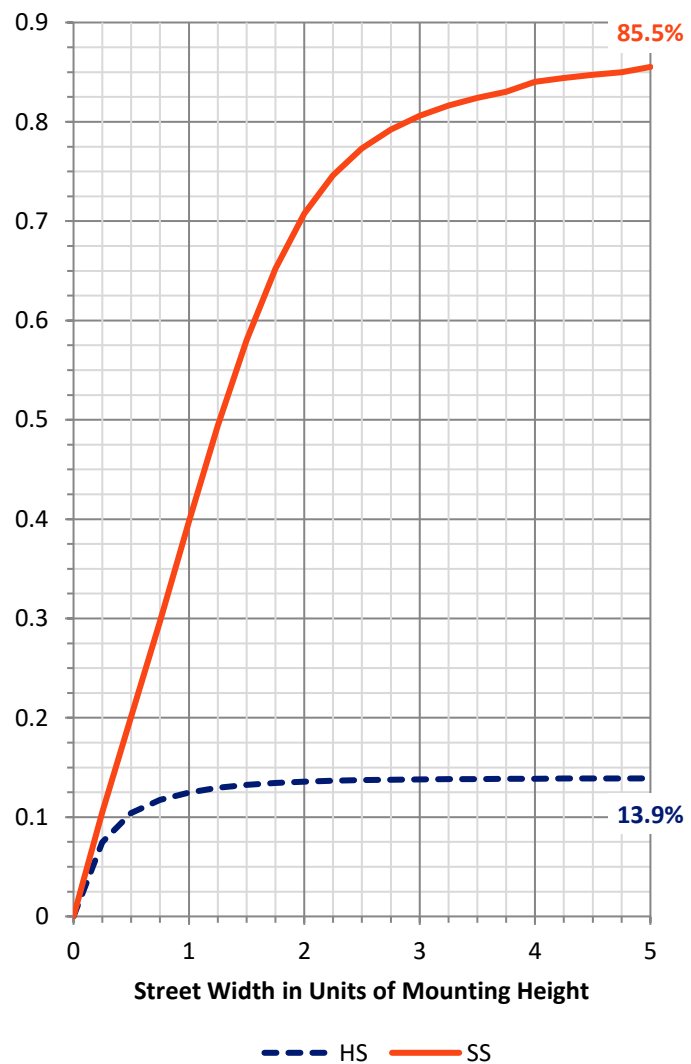
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8157.3	0.0	8157.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	50091.7	0.0	50091.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	58249.0	0.0	58249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.1	1.4
10°-20°	2380.4	4.1
20°-30°	3506.9	6.0
30°-40°	4505.4	7.7
40°-50°	7286.5	12.5
50°-60°	12777.6	21.9
60°-70°	15988.3	27.4
70°-80°	9342.8	16.0
80°-90°	1666.9	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°	58249.0	100.0
0°-180°	58249.0	100.0

Coefficient of Utilization



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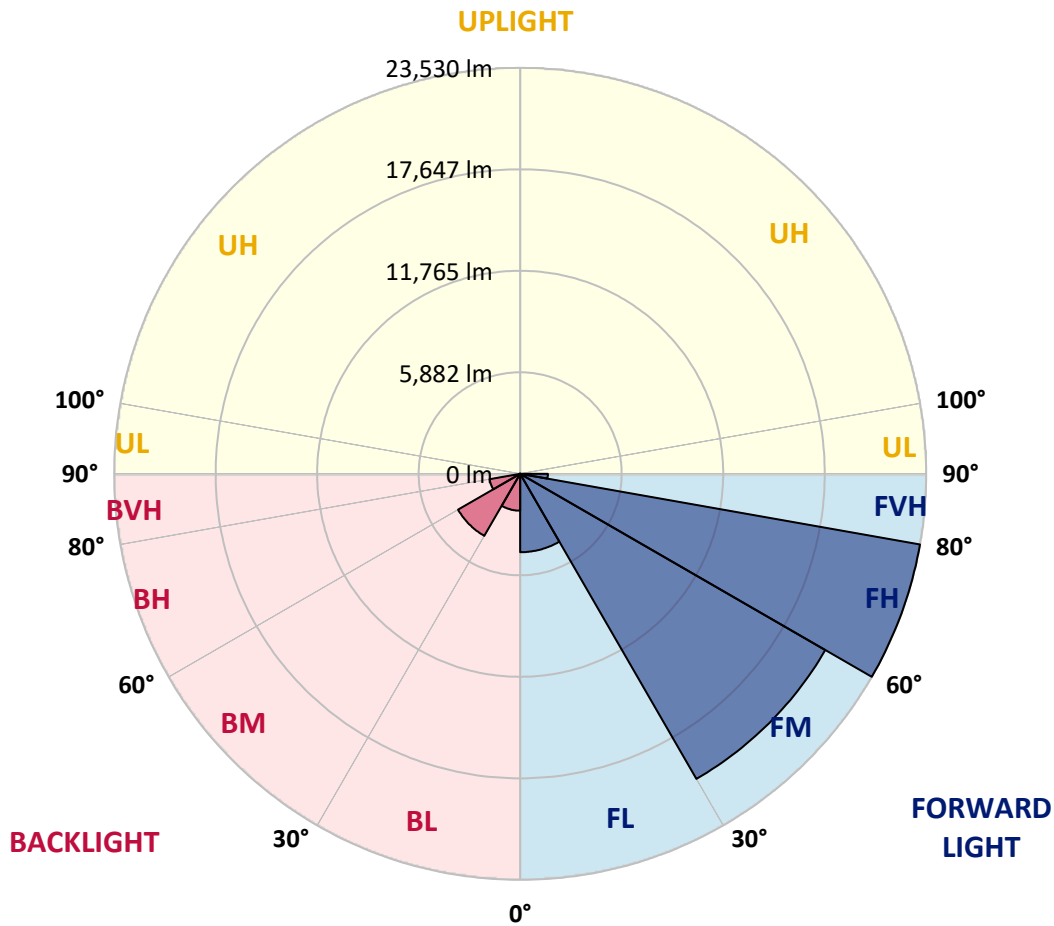
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.2	7.8			
FM (30°-60°)	20415.6	35.0			
FH (60°-80°)	23529.9	40.4			G5
FVH (80°-90°)	1602.9	2.8			G5
BL (0°-30°)	2138.2	3.7	B3/2500		
BM (30°-60°)	4153.9	7.1	B3/5000		
BH (60°-80°)	1801.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6
2.5°	9112.9	8956.5	8864.2	8635.4	8406.7	8222.1	7973.3	7808.8	7612.2	7423.6	7255.0
5°	10156.3	9903.5	9598.5	9181.2	8800.0	8410.7	8033.5	7660.3	7267.1	6905.9	6685.2
7.5°	11039.1	10673.9	10136.2	9582.4	9096.9	8627.4	8186.0	7692.4	7214.9	6649.1	6348.2
10°	11713.2	11247.7	10541.5	9815.2	9257.4	8783.9	8354.5	7937.2	7455.7	6773.5	6396.3
12.5°	12122.5	11624.9	10786.3	9935.6	9297.5	8767.9	8434.8	8250.2	8061.6	7383.5	6942.1
15°	12423.5	11885.8	10958.8	10019.8	9205.2	8555.2	8310.4	8495.0	8711.7	8278.3	7768.7
17.5°	12736.5	12170.7	11183.5	10055.9	8956.5	8141.9	8037.5	8515.1	9016.6	8996.6	8491.0
20°	13033.4	12471.6	11380.2	10031.9	8555.2	7640.3	7732.6	8342.5	8924.4	9169.1	8896.3
22.5°	13374.5	12780.6	11568.8	9939.6	8033.5	7170.8	7459.7	8069.6	8579.3	8868.2	8783.9
25°	13791.8	13169.8	11833.6	9803.1	7471.7	6781.5	7182.8	7752.6	8165.9	8366.6	8362.6
27.5°	14241.2	13635.3	12186.7	9730.9	7018.3	6504.7	6869.8	7375.4	7744.6	7885.0	7885.0
30°	14799.0	14177.0	12604.0	9650.7	6721.4	6344.2	6544.8	6938.0	7299.2	7439.6	7439.6
32.5°	15409.0	14778.9	13005.3	9458.0	6540.8	6223.8	6227.8	6476.6	6805.6	6974.2	6998.2
35°	16171.4	15501.2	13434.7	9036.7	6396.3	6083.3	5918.8	6039.2	6312.1	6512.7	6564.9
37.5°	17258.8	16448.3	13960.3	8434.8	6183.6	5866.6	5593.8	5621.9	5830.5	6051.2	6131.5
40°	18759.6	17720.3	14578.3	7808.8	5878.7	5561.7	5236.6	5224.6	5377.1	5593.8	5682.1
42.5°	20790.0	19401.6	15320.7	7210.9	5585.7	5192.5	4859.4	4839.4	4959.8	5148.4	5240.6
45°	23470.6	21552.5	16231.6	6697.3	5357.0	4831.3	4502.3	4494.3	4594.6	4759.1	4855.4
47.5°	26901.5	24542.0	17142.5	6348.2	5236.6	4546.4	4209.4	4225.4	4313.7	4462.2	4530.4
50°	31343.6	28438.3	17419.3	6171.6	5236.6	4394.0	3948.5	4028.8	4101.0	4213.4	4253.5
52.5°	36668.5	32178.2	16504.4	6011.1	5268.7	4414.0	3727.8	3900.4	3952.6	4048.9	4064.9
55°	41604.2	34012.0	14189.1	5790.4	5276.8	4538.4	3539.2	3796.1	3892.4	3928.5	3924.5
57.5°	44469.3	33382.0	11472.4	5417.2	5244.7	4622.7	3418.9	3667.7	3852.2	3876.3	3840.2
60°	43923.5	31171.0	8446.8	5132.3	5007.9	4590.6	3382.7	3471.0	3764.0	3800.1	3751.9
62.5°	39718.2	27463.2	5862.6	4911.6	4486.3	4450.1	3370.7	3162.0	3571.3	3659.6	3591.4
65°	31925.4	21620.7	4141.2	4229.4	3932.5	4145.2	3306.5	2841.0	3338.6	3459.0	3354.7
67.5°	23161.6	14630.5	2989.5	3426.9	3563.3	3651.6	3162.0	2608.3	3073.8	3234.3	3097.8
70°	14863.2	7901.1	2098.7	2263.2	3001.5	3101.9	2913.3	2399.6	2804.9	2989.5	2841.0
72.5°	10565.6	4666.8	1508.8	1585.0	2411.7	2584.2	2564.1	2166.9	2491.9	2716.6	2540.1
75°	7291.2	2572.2	1019.2	1131.6	1749.6	2098.7	1978.3	1861.9	2110.7	2339.4	2166.9
77.5°	4570.5	1151.7	609.9	786.5	1147.6	1649.2	1356.3	1440.6	1645.2	1857.9	1677.3
80°	2544.1	445.4	341.1	521.7	626.0	1199.8	750.4	926.9	1211.8	1364.3	1219.9
82.5°	553.8	56.2	152.5	224.7	244.8	698.2	397.3	537.7	762.4	750.4	650.1
85°	0.0	0.0	28.1	32.1	16.1	301.0	144.5	176.6	248.8	232.7	176.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	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°	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6
2.5°	7222.9	7026.3	6881.9	6809.6	6749.4	6805.6	6837.7	6837.7	6974.2	7054.4	7086.5
5°	6544.8	6191.7	5922.8	5742.2	5633.9	5670.0	5710.1	5754.3	5926.8	6043.2	6119.4
7.5°	6075.3	5533.6	5124.3	4871.5	4739.1	4759.1	4787.2	4823.3	4991.9	5108.2	5208.5
10°	5987.0	5208.5	4630.7	4297.7	4137.1	4109.1	4093.0	4081.0	4181.3	4269.6	4349.8
12.5°	6348.2	5224.6	4418.0	4012.7	3816.1	3731.9	3635.5	3559.3	3575.4	3631.5	3731.9
15°	6994.2	5429.2	4349.8	3864.3	3619.5	3479.1	3366.7	3274.4	3254.3	3274.4	3290.5
17.5°	7732.6	5706.1	4341.8	3735.9	3430.9	3286.4	3194.1	3109.9	3081.8	3085.8	3105.9
20°	8222.1	5926.8	4317.7	3591.4	3250.3	3121.9	3041.7	2957.4	2929.3	2937.3	2941.3
22.5°	8270.3	6043.2	4281.6	3430.9	3069.8	2961.4	2881.2	2804.9	2800.9	2800.9	2825.0
25°	8009.4	6043.2	4205.4	3286.4	2897.2	2800.9	2728.7	2636.4	2652.4	2660.5	2692.6
27.5°	7604.2	5898.7	4060.9	3170.1	2748.7	2648.4	2576.2	2491.9	2512.0	2524.0	2560.1
30°	7202.9	5714.2	3888.4	3037.6	2608.3	2491.9	2439.8	2367.5	2375.5	2391.6	2431.7
32.5°	6829.7	5517.5	3683.7	2929.3	2467.8	2351.5	2311.3	2231.1	2243.1	2259.2	2303.3
35°	6460.5	5300.8	3442.9	2800.9	2339.4	2223.1	2191.0	2098.7	2106.7	2130.8	2178.9
37.5°	6063.3	5072.1	3246.3	2672.5	2215.0	2094.7	2062.6	1966.2	1974.3	2002.4	2058.5
40°	5645.9	4847.4	3053.7	2536.1	2082.6	1962.2	1934.1	1829.8	1837.8	1869.9	1930.1
42.5°	5224.6	4602.6	2905.2	2359.5	1946.2	1817.8	1789.7	1693.4	1705.4	1741.5	1801.7
45°	4835.4	4309.7	2808.9	2162.9	1817.8	1673.3	1645.2	1556.9	1581.0	1621.2	1681.3
47.5°	4502.3	4008.7	2768.8	1998.3	1681.3	1524.8	1500.8	1428.5	1468.7	1512.8	1561.0
50°	4217.4	3719.8	2716.6	1829.8	1552.9	1396.4	1372.4	1324.2	1376.4	1420.5	1464.7
52.5°	4012.7	3390.8	2604.3	1677.3	1440.6	1288.1	1280.1	1256.0	1304.1	1344.3	1384.4
55°	3836.2	3049.7	2423.7	1544.9	1340.3	1195.8	1203.8	1191.8	1231.9	1264.0	1300.1
57.5°	3675.7	2752.7	2195.0	1440.6	1231.9	1115.5	1139.6	1123.6	1143.6	1163.7	1207.8
60°	3483.1	2451.8	1922.1	1324.2	1103.5	1035.3	1063.4	1019.2	1015.2	1023.3	1035.3
62.5°	3198.2	2046.5	1637.2	1179.7	991.1	947.0	959.0	874.8	810.6	810.6	822.6
65°	2800.9	1645.2	1372.4	1019.2	862.7	826.6	818.6	698.2	609.9	601.9	638.0
67.5°	2339.4	1352.3	1139.6	858.7	718.3	694.2	702.2	614.0	525.7	517.6	557.8
70°	1906.1	1119.6	918.9	686.2	553.8	577.8	614.0	525.7	441.4	429.4	465.5
72.5°	1548.9	890.8	718.3	525.7	409.3	477.5	521.7	429.4	349.1	341.1	373.2
75°	1195.8	654.1	513.6	357.1	296.9	369.2	409.3	313.0	248.8	236.8	264.8
77.5°	798.5	405.3	288.9	224.7	176.6	252.8	272.9	164.5	144.5	140.4	160.5
80°	485.5	188.6	124.4	108.3	60.2	92.3	108.3	68.2	76.2	80.3	96.3
82.5°	244.8	52.2	20.1	4.0	0.0	0.0	32.1	16.1	32.1	40.1	60.2
85°	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	20.1	36.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
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°	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6
2.5°	7311.2	7479.8	7640.3	7897.1	8161.9	8422.8	8687.6	8944.4	9036.7	9104.9	9257.4
5°	6468.5	6785.6	7154.7	7664.3	8210.1	8771.9	9341.7	9863.3	10100.1	10260.6	10621.7
7.5°	5597.8	6011.1	6540.8	7307.2	8161.9	9056.8	9951.6	10774.2	11155.4	11464.4	12014.2
10°	4735.0	5184.5	5854.6	6729.4	7885.0	9169.1	10405.1	11536.6	12030.2	12419.5	13165.8
12.5°	3976.6	4398.0	5100.2	6067.3	7451.7	9080.8	10665.9	12026.2	12608.1	13045.4	13864.0
15°	3442.9	3739.9	4361.9	5405.2	6938.0	8795.9	10681.9	12258.9	12897.0	13354.4	14064.7
17.5°	3146.0	3246.3	3651.6	4731.0	6368.2	8422.8	10533.5	12339.2	13021.4	13446.7	13940.3
20°	2985.5	3001.5	3113.9	3856.3	5637.9	8073.6	10393.0	12419.5	13137.7	13494.9	13643.3
22.5°	2857.1	2857.1	2885.2	3154.0	4694.9	7656.3	10348.9	12559.9	13298.2	13518.9	13214.0
25°	2740.7	2740.7	2748.7	2821.0	3719.8	7018.3	10320.8	12776.6	13518.9	13579.1	12740.5
27.5°	2620.3	2624.3	2624.3	2664.5	2997.5	6151.5	10200.4	13057.5	13783.8	13659.4	12287.0
30°	2499.9	2508.0	2508.0	2536.1	2652.4	5136.3	9963.7	13394.6	14128.9	13763.7	11837.6
32.5°	2379.6	2387.6	2387.6	2411.7	2495.9	4101.0	9666.7	13703.5	14478.0	13807.9	11420.3
35°	2255.2	2267.2	2259.2	2291.3	2379.6	3262.4	9289.5	14012.5	14855.2	13948.3	11215.6
37.5°	2130.8	2138.8	2134.8	2166.9	2267.2	2816.9	8852.1	14245.3	15368.8	14261.3	11460.4
40°	2006.4	2002.4	2002.4	2038.5	2146.8	2688.5	8302.4	14614.4	16107.2	14811.1	12527.8
42.5°	1878.0	1878.0	1869.9	1910.1	2042.5	2592.2	7776.7	15276.5	17182.6	15685.8	14421.8
45°	1761.6	1757.6	1741.5	1777.6	1942.2	2423.7	7592.1	16512.5	18771.6	17102.3	16713.1
47.5°	1649.2	1645.2	1605.1	1637.2	1821.8	2271.2	8282.3	18534.9	20974.6	19184.9	18859.9
50°	1548.9	1552.9	1476.7	1504.8	1701.4	2154.8	9779.1	21159.2	23899.9	21989.9	20894.4
52.5°	1456.6	1456.6	1356.3	1372.4	1552.9	2050.5	11203.6	24004.3	27760.2	25902.3	23265.9
55°	1364.3	1356.3	1244.0	1252.0	1404.5	1902.0	11416.3	26781.1	33024.9	31789.0	26508.2
57.5°	1260.0	1244.0	1139.6	1139.6	1268.0	1793.7	9895.4	28915.9	39557.7	40440.5	31183.1
60°	1131.6	1119.6	1051.3	1031.3	1159.7	1890.0	6982.2	29164.6	43771.1	51945.0	40135.5
62.5°	967.1	983.1	947.0	918.9	1055.4	1962.2	4137.1	27162.3	42751.8	55604.6	50857.6
65°	762.4	826.6	818.6	798.5	1159.7	1653.3	2443.8	23318.1	39625.9	52651.3	48670.6
67.5°	650.1	694.2	682.2	682.2	1215.9	1256.0	1536.9	18217.9	35324.2	49148.1	43474.1
70°	553.8	597.9	553.8	553.8	918.9	762.4	1063.4	12720.4	30681.5	45271.8	40063.3
72.5°	457.5	501.6	453.4	421.3	734.3	569.8	778.5	7949.3	26275.5	41235.0	37727.9
75°	349.1	401.3	365.2	325.0	485.5	425.4	589.9	4618.7	21769.2	35280.1	34401.3
77.5°	220.7	288.9	272.9	228.7	357.1	309.0	425.4	2748.7	16797.4	27567.6	29590.0
80°	136.4	148.5	152.5	144.5	204.7	208.7	288.9	1565.0	11496.5	19213.0	23117.4
82.5°	88.3	88.3	68.2	76.2	100.3	120.4	164.5	589.9	6757.5	11697.2	16091.1
85°	64.2	56.2	36.1	36.1	48.2	60.2	64.2	180.6	2740.7	4618.7	6292.0
87.5°	32.1	28.1	12.0	16.1	24.1	20.1	16.1	8.0	690.2	1476.7	1035.3
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°	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6	8065.6
2.5°	9337.7	9462.1	9470.1	9470.1	9361.7	9357.7	9137.0	9112.9
5°	10994.9	11075.2	11095.2	11055.1	10838.4	10677.9	10248.6	10156.3
7.5°	12511.7	12672.3	12672.3	12576.0	12222.8	11893.8	11271.8	11039.1
10°	13723.6	13908.2	13868.1	13671.4	13226.0	12772.6	12018.2	11713.2
12.5°	14313.5	14502.1	14397.7	14173.0	13739.6	13262.1	12467.6	12122.5
15°	14301.4	14249.3	14140.9	14112.8	13904.2	13543.0	12800.7	12423.5
17.5°	13791.8	13350.4	13266.1	13547.0	13811.9	13723.6	13089.6	12736.5
20°	12985.3	12214.8	12138.6	12676.3	13430.7	13815.9	13358.4	13033.4
22.5°	12134.5	11303.9	11127.3	11721.2	12856.8	13844.0	13699.5	13374.5
25°	11328.0	10493.3	10316.8	10870.5	12218.8	13795.8	14068.7	13791.8
27.5°	10653.8	9847.3	9682.8	10236.5	11604.9	13659.4	14437.9	14241.2
30°	10132.2	9385.8	9265.4	9799.1	11075.2	13490.9	14907.4	14799.0
32.5°	9827.2	9281.5	9325.6	9763.0	10790.3	13306.3	15356.8	15409.0
35°	10128.2	10152.3	10537.5	10718.0	11055.1	13278.2	15966.7	16171.4
37.5°	11624.9	12459.6	13258.1	13109.6	12351.2	13603.2	16877.6	17258.8
40°	14173.0	15886.5	17182.6	16616.8	14706.7	14598.4	18189.8	18759.6
42.5°	17286.9	20192.1	22326.9	20810.1	17744.4	16339.9	20063.7	20790.0
45°	20573.4	25501.0	28863.7	25709.7	20982.7	18779.7	22900.8	23470.6
47.5°	24036.4	31953.5	36303.3	31142.9	23984.2	21556.5	26769.0	26901.5
50°	27824.4	39028.0	43887.4	36572.2	26881.4	24738.6	31496.1	31343.6
52.5°	31431.9	46303.1	51311.0	42025.5	29425.5	28687.1	36981.5	36668.5
55°	34874.8	53574.2	58778.7	47266.2	31825.1	33903.7	43498.2	41604.2
57.5°	38867.5	60111.0	66475.2	52530.9	35179.8	40677.2	50785.3	44469.3
60°	44770.2	67538.6	75178.8	59745.8	41560.0	47795.8	53397.6	43923.5
62.5°	52306.2	74368.3	81506.9	66816.3	47968.4	49136.1	49549.4	39718.2
65°	53770.8	76097.7	81864.1	68706.3	47141.8	41680.4	40452.5	31925.4
67.5°	49886.5	72971.8	76872.2	65187.1	41700.5	32210.3	30356.4	23161.6
70°	45528.6	67012.9	68172.6	59204.1	36676.5	23691.3	20501.1	14863.2
72.5°	41062.4	59063.6	56664.0	51415.3	32234.4	17250.8	14787.0	10565.6
75°	35757.6	48610.4	44633.8	42719.7	26688.8	13539.0	10698.0	7291.2
77.5°	28635.0	34216.7	33153.3	33113.2	20055.7	9891.4	7138.7	4570.5
80°	20200.2	22206.5	21664.8	24939.2	13454.7	7174.8	4297.7	2544.1
82.5°	9779.1	12279.0	12604.0	14851.2	6544.8	4221.4	991.1	553.8
85°	3828.2	5922.8	4995.9	5637.9	1837.8	1175.7	24.1	0.0
87.5°	429.4	686.2	630.0	497.6	224.7	48.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)