

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: P956664

Luminaire Tested: **GALN-SB9B-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956664
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-SB9B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA 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: 39144 lumens
Efficiency: N/A
Efficacy: 118.8 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): 329.5
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

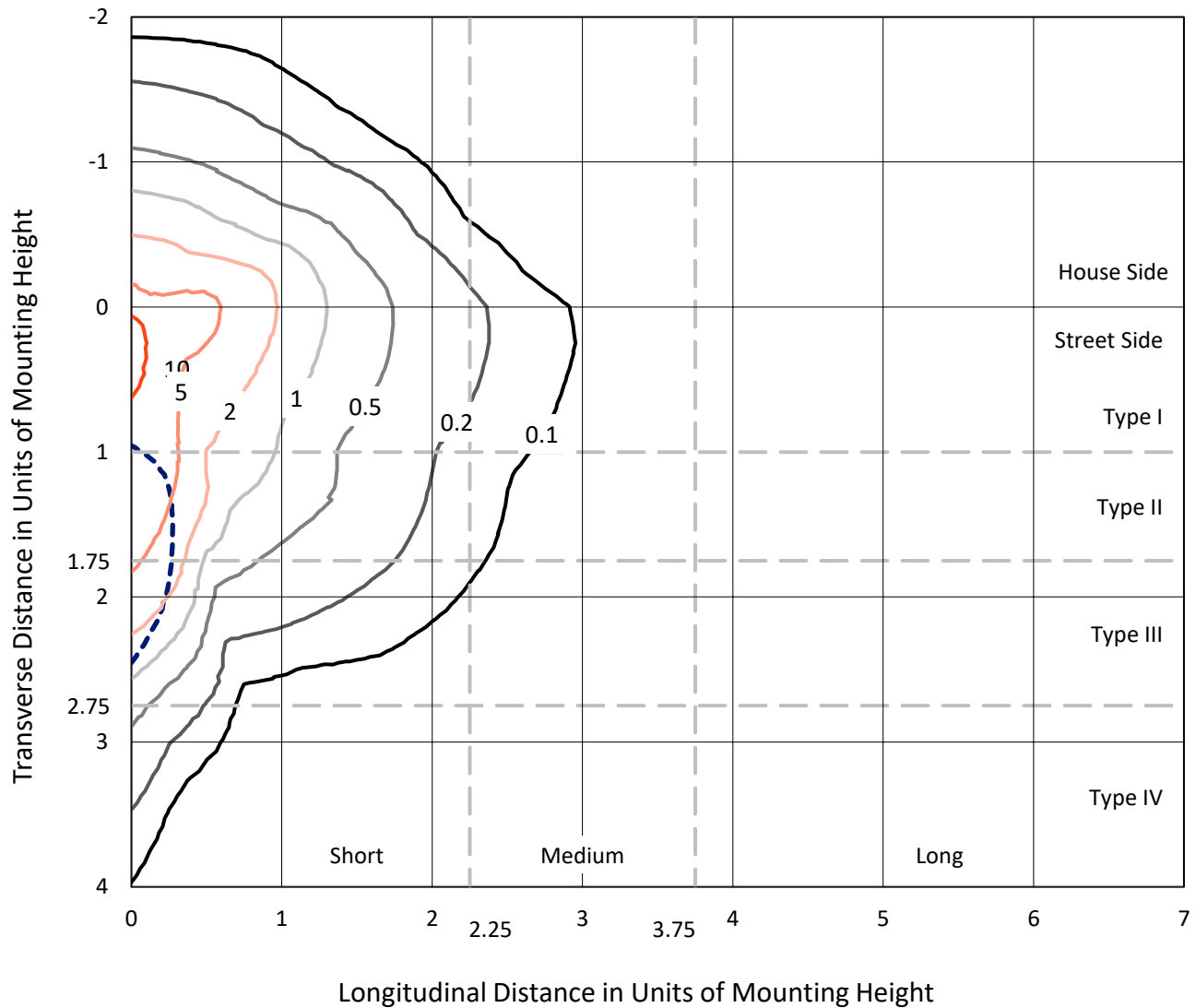


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Iso-Footcandle Lines of Horizontal Illumination

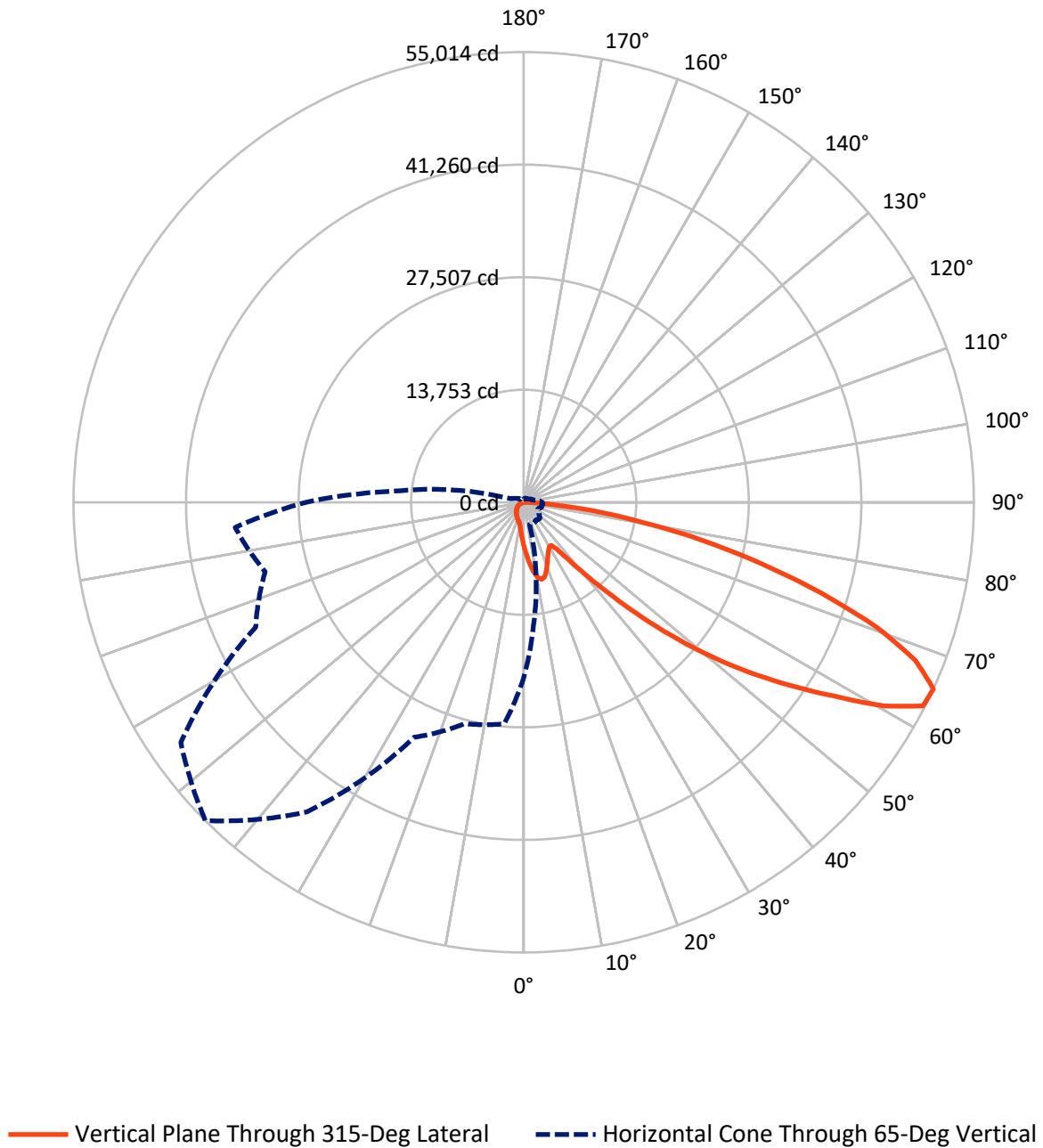
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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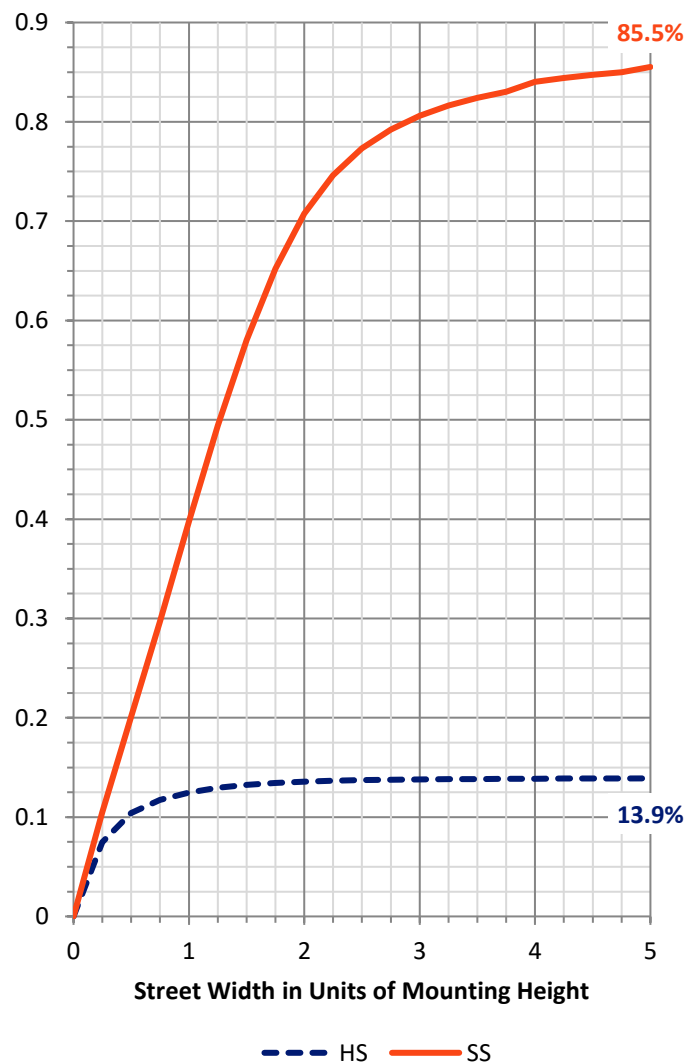
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5481.8	0.0	5481.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33662.2	0.0	33662.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	39144.0	0.0	39144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.6	1.4
10°-20°	1599.7	4.1
20°-30°	2356.7	6.0
30°-40°	3027.7	7.7
40°-50°	4896.6	12.5
50°-60°	8586.7	21.9
60°-70°	10744.3	27.4
70°-80°	6278.5	16.0
80°-90°	1120.2	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°	39144.0	100.0
0°-180°	39144.0	100.0

Coefficient of Utilization



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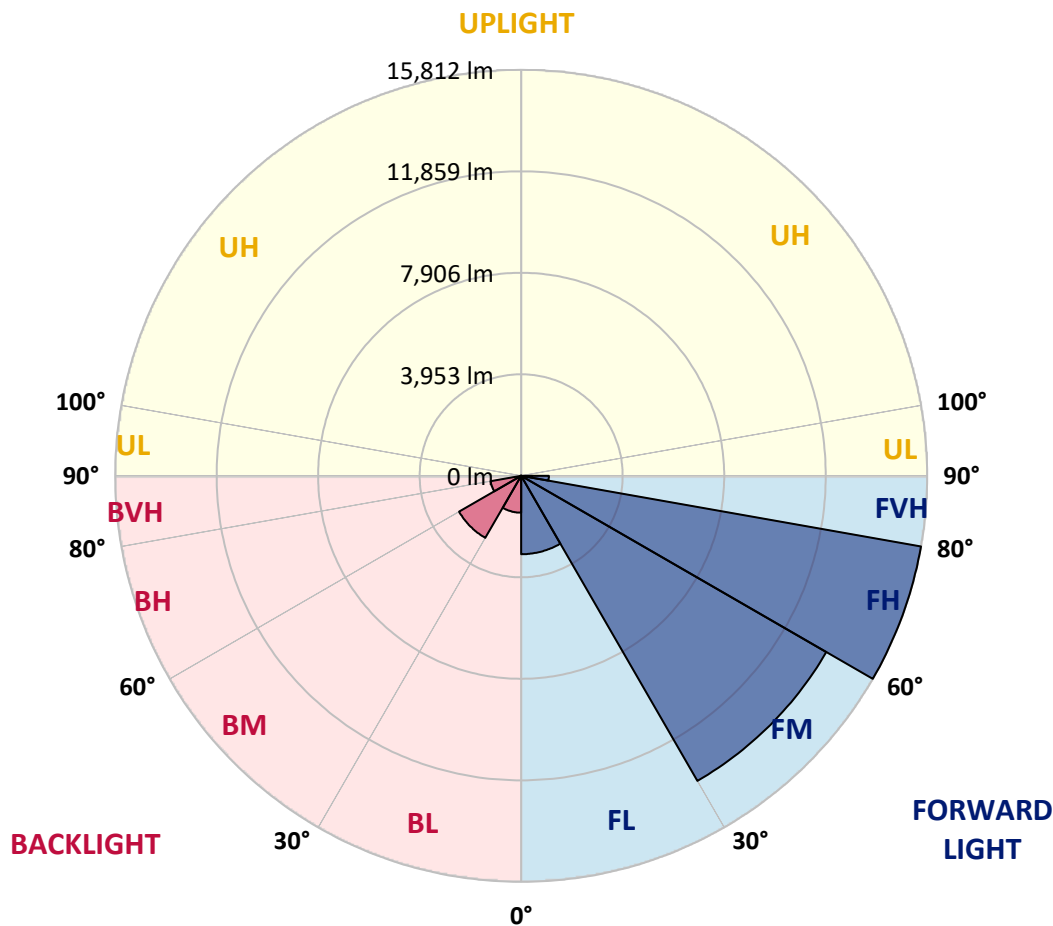
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3053.1	7.8			
FM	(30°-60°)	13719.5	35.0			
FH	(60°-80°)	15812.4	40.4			G5
FVH	(80°-90°)	1077.1	2.8			G5
BL	(0°-30°)	1436.9	3.7	B3/2500		
BM	(30°-60°)	2791.5	7.1	B3/5000		
BH	(60°-80°)	1210.4	3.1	B3/2500		G3/2500
BVH	(80°-90°)	43.0	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°	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2
2.5°	6124.0	6018.8	5956.8	5803.1	5649.4	5525.4	5358.2	5247.6	5115.5	4988.7	4875.5
5°	6825.1	6655.2	6450.3	6169.8	5913.7	5652.1	5398.6	5147.8	4883.6	4640.9	4492.6
7.5°	7418.4	7173.0	6811.6	6439.5	6113.2	5797.7	5501.1	5169.4	4848.5	4468.3	4266.0
10°	7871.4	7558.6	7084.0	6595.9	6221.1	5902.9	5614.3	5333.9	5010.3	4551.9	4298.4
12.5°	8146.5	7812.1	7248.5	6676.8	6248.1	5892.1	5668.3	5544.2	5417.5	4961.8	4665.1
15°	8348.7	7987.4	7364.4	6733.4	6186.0	5749.2	5584.7	5708.7	5854.3	5563.1	5220.6
17.5°	8559.0	8178.8	7515.5	6757.7	6018.8	5471.4	5401.3	5722.2	6059.3	6045.8	5706.0
20°	8758.6	8381.1	7647.6	6741.5	5749.2	5134.4	5196.4	5606.3	5997.3	6161.8	5978.4
22.5°	8987.8	8588.7	7774.3	6679.5	5398.6	4818.8	5013.0	5422.9	5765.4	5959.5	5902.9
25°	9268.3	8850.3	7952.3	6587.8	5021.1	4557.3	4826.9	5209.9	5487.6	5622.4	5619.7
27.5°	9570.3	9163.1	8189.6	6539.3	4716.4	4371.2	4616.6	4956.4	5204.5	5298.8	5298.8
30°	9945.1	9527.1	8470.1	6485.4	4516.8	4263.3	4398.2	4662.4	4905.1	4999.5	4999.5
32.5°	10355.0	9931.6	8739.7	6355.9	4395.5	4182.4	4185.1	4352.3	4573.5	4686.7	4702.9
35°	10867.3	10417.0	9028.3	6072.8	4298.4	4088.1	3977.5	4058.4	4241.8	4376.6	4411.7
37.5°	11598.1	11053.4	9381.5	5668.3	4155.5	3942.4	3759.1	3778.0	3918.2	4066.5	4120.4
40°	12606.7	11908.2	9796.8	5247.6	3950.5	3737.5	3519.1	3511.0	3613.5	3759.1	3818.4
42.5°	13971.2	13038.1	10295.7	4845.8	3753.7	3489.4	3265.6	3252.1	3333.0	3459.8	3521.8
45°	15772.5	14483.5	10907.8	4500.6	3600.0	3246.7	3025.6	3020.2	3087.6	3198.2	3262.9
47.5°	18078.1	16492.5	11519.9	4266.0	3519.1	3055.3	2828.7	2839.5	2898.9	2998.6	3044.5
50°	21063.2	19110.9	11706.0	4147.4	3519.1	2952.8	2653.5	2707.4	2755.9	2831.4	2858.4
52.5°	24641.6	21624.1	11091.2	4039.5	3540.7	2966.3	2505.2	2621.1	2656.2	2720.9	2731.7
55°	27958.5	22856.5	9535.2	3891.2	3546.0	3049.9	2378.4	2551.0	2615.7	2640.0	2637.3
57.5°	29883.9	22433.1	7709.6	3640.4	3524.5	3106.5	2297.5	2464.7	2588.7	2604.9	2580.7
60°	29517.1	20947.3	5676.4	3449.0	3365.4	3084.9	2273.2	2332.6	2529.4	2553.7	2521.3
62.5°	26691.1	18455.6	3939.8	3300.7	3014.8	2990.5	2265.2	2124.9	2400.0	2459.3	2413.5
65°	21454.3	14529.3	2782.9	2842.2	2642.7	2785.6	2222.0	1909.2	2243.6	2324.5	2254.4
67.5°	15564.8	9831.8	2009.0	2302.9	2394.6	2453.9	2124.9	1752.8	2065.6	2173.5	2081.8
70°	9988.3	5309.6	1410.3	1520.9	2017.1	2084.5	1957.7	1612.6	1884.9	2009.0	1909.2
72.5°	7100.2	3136.2	1013.9	1065.2	1620.7	1736.6	1723.1	1456.2	1674.6	1825.6	1707.0
75°	4899.7	1728.5	684.9	760.4	1175.7	1410.3	1329.4	1251.2	1418.4	1572.1	1456.2
77.5°	3071.4	773.9	409.9	528.5	771.2	1108.3	911.5	968.1	1105.6	1248.5	1127.2
80°	1709.7	299.3	229.2	350.6	420.7	806.3	504.3	622.9	814.4	916.8	819.8
82.5°	372.1	37.8	102.5	151.0	164.5	469.2	267.0	361.3	512.4	504.3	436.9
85°	0.0	0.0	18.9	21.6	10.8	202.2	97.1	118.7	167.2	156.4	118.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	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°	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2
2.5°	4853.9	4721.8	4624.7	4576.2	4535.7	4573.5	4595.0	4595.0	4686.7	4740.6	4762.2
5°	4398.2	4160.9	3980.2	3858.9	3786.0	3810.3	3837.3	3866.9	3982.9	4061.1	4112.3
7.5°	4082.7	3718.6	3443.6	3273.7	3184.7	3198.2	3217.1	3241.3	3354.6	3432.8	3500.2
10°	4023.3	3500.2	3111.9	2888.1	2780.2	2761.3	2750.5	2742.5	2809.9	2869.2	2923.1
12.5°	4266.0	3511.0	2969.0	2696.6	2564.5	2507.8	2443.1	2391.9	2402.7	2440.4	2507.8
15°	4700.2	3648.5	2923.1	2596.8	2432.3	2338.0	2262.5	2200.4	2187.0	2200.4	2211.2
17.5°	5196.4	3834.6	2917.7	2510.5	2305.6	2208.5	2146.5	2089.9	2071.0	2073.7	2087.2
20°	5525.4	3982.9	2901.6	2413.5	2184.3	2098.0	2044.0	1987.4	1968.5	1973.9	1976.6
22.5°	5557.7	4061.1	2877.3	2305.6	2062.9	1990.1	1936.2	1884.9	1882.2	1882.2	1898.4
25°	5382.4	4061.1	2826.1	2208.5	1947.0	1882.2	1833.7	1771.7	1782.5	1787.9	1809.4
27.5°	5110.1	3964.0	2729.0	2130.3	1847.2	1779.8	1731.2	1674.6	1688.1	1696.2	1720.4
30°	4840.4	3840.0	2613.0	2041.3	1752.8	1674.6	1639.5	1591.0	1596.4	1607.2	1634.1
32.5°	4589.6	3707.8	2475.5	1968.5	1658.4	1580.2	1553.2	1499.3	1507.4	1518.2	1547.9
35°	4341.5	3562.2	2313.7	1882.2	1572.1	1493.9	1472.4	1410.3	1415.7	1431.9	1464.3
37.5°	4074.6	3408.5	2181.6	1795.9	1488.5	1407.6	1386.1	1321.3	1326.7	1345.6	1383.4
40°	3794.1	3257.5	2052.1	1704.3	1399.5	1318.6	1299.8	1229.7	1235.0	1256.6	1297.1
42.5°	3511.0	3093.0	1952.3	1585.6	1307.9	1221.6	1202.7	1138.0	1146.1	1170.3	1210.8
45°	3249.4	2896.2	1887.6	1453.5	1221.6	1124.5	1105.6	1046.3	1062.5	1089.4	1129.9
47.5°	3025.6	2693.9	1860.7	1342.9	1129.9	1024.7	1008.5	960.0	987.0	1016.6	1049.0
50°	2834.1	2499.8	1825.6	1229.7	1043.6	938.4	922.2	889.9	924.9	954.6	984.3
52.5°	2696.6	2278.6	1750.1	1127.2	968.1	865.6	860.2	844.0	876.4	903.4	930.3
55°	2578.0	2049.4	1628.8	1038.2	900.7	803.6	809.0	800.9	827.9	849.4	873.7
57.5°	2470.1	1849.9	1475.0	968.1	827.9	749.7	765.8	755.1	768.5	782.0	811.7
60°	2340.7	1647.6	1291.7	889.9	741.6	695.7	714.6	684.9	682.2	687.6	695.7
62.5°	2149.2	1375.3	1100.2	792.8	666.1	636.4	644.5	587.9	544.7	544.7	552.8
65°	1882.2	1105.6	922.2	684.9	579.8	555.5	550.1	469.2	409.9	404.5	428.8
67.5°	1572.1	908.8	765.8	577.1	482.7	466.5	471.9	412.6	353.3	347.9	374.8
70°	1280.9	752.4	617.5	461.1	372.1	388.3	412.6	353.3	296.6	288.5	312.8
72.5°	1040.9	598.6	482.7	353.3	275.1	320.9	350.6	288.5	234.6	229.2	250.8
75°	803.6	439.5	345.2	240.0	199.5	248.1	275.1	210.3	167.2	159.1	178.0
77.5°	536.6	272.4	194.2	151.0	118.7	169.9	183.4	110.6	97.1	94.4	107.9
80°	326.3	126.7	83.6	72.8	40.4	62.0	72.8	45.8	51.2	53.9	64.7
82.5°	164.5	35.1	13.5	2.7	0.0	0.0	21.6	10.8	21.6	27.0	40.4
85°	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.5	24.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8
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°	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2
2.5°	4913.2	5026.5	5134.4	5306.9	5484.9	5660.2	5838.2	6010.7	6072.8	6118.6	6221.1
5°	4346.9	4560.0	4808.1	5150.5	5517.3	5894.8	6277.7	6628.3	6787.4	6895.2	7137.9
7.5°	3761.8	4039.5	4395.5	4910.5	5484.9	6086.3	6687.6	7240.4	7496.6	7704.2	8073.7
10°	3182.0	3484.0	3934.4	4522.2	5298.8	6161.8	6992.3	7752.8	8084.4	8346.0	8847.6
12.5°	2672.3	2955.5	3427.4	4077.3	5007.6	6102.4	7167.6	8081.7	8472.8	8766.7	9316.8
15°	2313.7	2513.2	2931.2	3632.3	4662.4	5911.0	7178.4	8238.2	8666.9	8974.3	9451.6
17.5°	2114.1	2181.6	2453.9	3179.3	4279.5	5660.2	7078.6	8292.1	8750.5	9036.3	9368.0
20°	2006.3	2017.1	2092.6	2591.4	3788.7	5425.6	6984.2	8346.0	8828.7	9068.7	9168.5
22.5°	1920.0	1920.0	1938.9	2119.5	3155.0	5145.1	6954.6	8440.4	8936.6	9084.9	8879.9
25°	1841.8	1841.8	1847.2	1895.7	2499.8	4716.4	6935.7	8586.0	9084.9	9125.3	8561.7
27.5°	1760.9	1763.6	1763.6	1790.6	2014.4	4133.9	6854.8	8774.8	9262.9	9179.3	8257.0
30°	1680.0	1685.4	1685.4	1704.3	1782.5	3451.7	6695.7	9001.3	9494.8	9249.4	7955.0
32.5°	1599.1	1604.5	1604.5	1620.7	1677.3	2755.9	6496.1	9208.9	9729.4	9279.0	7674.6
35°	1515.5	1523.6	1518.2	1539.8	1599.1	2192.3	6242.7	9416.6	9982.9	9373.4	7537.0
37.5°	1431.9	1437.3	1434.6	1456.2	1523.6	1893.0	5948.7	9573.0	10328.0	9583.8	7701.5
40°	1348.3	1345.6	1345.6	1369.9	1442.7	1806.7	5579.3	9821.1	10824.2	9953.2	8418.8
42.5°	1262.0	1262.0	1256.6	1283.6	1372.6	1742.0	5226.0	10266.0	11546.9	10541.1	9691.6
45°	1183.8	1181.1	1170.3	1194.6	1305.2	1628.8	5102.0	11096.6	12614.8	11493.0	11231.4
47.5°	1108.3	1105.6	1078.6	1100.2	1224.3	1526.3	5565.8	12455.7	14095.2	12892.5	12674.1
50°	1040.9	1043.6	992.4	1011.2	1143.4	1448.1	6571.6	14219.2	16061.0	14777.4	14041.3
52.5°	978.9	978.9	911.5	922.2	1043.6	1378.0	7528.9	16131.1	18655.2	17406.6	15635.0
55°	916.8	911.5	835.9	841.3	943.8	1278.2	7671.9	17997.2	22193.1	21362.6	17813.8
57.5°	846.7	835.9	765.8	765.8	852.1	1205.4	6649.8	19431.8	26583.2	27176.5	20955.4
60°	760.4	752.4	706.5	693.0	779.3	1270.1	4692.1	19599.0	29414.7	34907.7	26971.5
62.5°	649.9	660.7	636.4	617.5	709.2	1318.6	2780.2	18253.4	28729.7	37367.0	34176.9
65°	512.4	555.5	550.1	536.6	779.3	1111.0	1642.2	15670.0	26629.1	35382.3	32707.2
67.5°	436.9	466.5	458.4	458.4	817.1	844.0	1032.8	12242.6	23738.3	33028.1	29215.1
70°	372.1	401.8	372.1	372.1	617.5	512.4	714.6	8548.3	20618.3	30423.2	26923.0
72.5°	307.4	337.1	304.7	283.1	493.5	382.9	523.1	5342.0	17657.4	27710.4	25353.6
75°	234.6	269.7	245.4	218.4	326.3	285.8	396.4	3103.8	14629.1	23708.6	23118.1
77.5°	148.3	194.2	183.4	153.7	240.0	207.6	285.8	1847.2	11288.0	18525.7	19884.8
80°	91.7	99.8	102.5	97.1	137.5	140.2	194.2	1051.7	7725.8	12911.4	15535.2
82.5°	59.3	59.3	45.8	51.2	67.4	80.9	110.6	396.4	4541.1	7860.6	10813.4
85°	43.1	37.8	24.3	24.3	32.4	40.4	43.1	121.3	1841.8	3103.8	4228.3
87.5°	21.6	18.9	8.1	10.8	16.2	13.5	10.8	5.4	463.8	992.4	695.7
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°	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2	5420.2
2.5°	6275.0	6358.6	6364.0	6364.0	6291.2	6288.5	6140.2	6124.0
5°	7388.7	7442.7	7456.1	7429.2	7283.6	7175.7	6887.1	6825.1
7.5°	8408.0	8515.9	8515.9	8451.2	8213.9	7992.8	7574.8	7418.4
10°	9222.4	9346.5	9319.5	9187.4	8888.0	8583.3	8076.4	7871.4
12.5°	9618.8	9745.6	9675.4	9524.4	9233.2	8912.3	8378.4	8146.5
15°	9610.7	9575.7	9502.9	9484.0	9343.8	9101.1	8602.2	8348.7
17.5°	9268.3	8971.6	8915.0	9103.8	9281.7	9222.4	8796.4	8559.0
20°	8726.2	8208.5	8157.3	8518.6	9025.6	9284.4	8977.0	8758.6
22.5°	8154.6	7596.4	7477.7	7876.8	8639.9	9303.3	9206.2	8987.8
25°	7612.5	7051.6	6933.0	7305.1	8211.2	9271.0	9454.3	9268.3
27.5°	7159.5	6617.5	6506.9	6879.1	7798.6	9179.3	9702.4	9570.3
30°	6808.9	6307.4	6226.5	6585.1	7442.7	9066.0	10017.9	9945.1
32.5°	6604.0	6237.3	6266.9	6560.9	7251.2	8942.0	10319.9	10355.0
35°	6806.3	6822.4	7081.3	7202.7	7429.2	8923.1	10729.8	10867.3
37.5°	7812.1	8373.0	8909.6	8809.8	8300.2	9141.5	11342.0	11598.1
40°	9524.4	10675.9	11546.9	11166.7	9883.1	9810.3	12223.7	12606.7
42.5°	11617.0	13569.4	15004.0	13984.6	11924.4	10980.6	13483.1	13971.2
45°	13825.5	17137.0	19396.7	17277.2	14100.6	12620.1	15389.6	15772.5
47.5°	16152.7	21473.1	24396.3	20928.4	16117.7	14486.2	17989.1	18078.1
50°	18698.3	26227.3	29492.9	24576.9	18064.6	16624.6	21165.7	21063.2
52.5°	21122.6	31116.2	34481.6	28241.6	19774.3	19278.1	24852.0	24641.6
55°	23436.3	36002.5	39500.0	31763.4	21386.8	22783.7	29231.3	27958.5
57.5°	26119.4	40395.3	44672.1	35301.4	23641.2	27335.6	34128.3	29883.9
60°	30086.1	45386.7	50521.0	40149.9	27928.8	32119.4	35883.8	29517.1
62.5°	35150.3	49976.3	54773.6	44901.3	32235.3	33020.0	33297.8	26691.1
65°	36134.6	51138.6	55013.6	46171.4	31679.8	28009.7	27184.6	21454.3
67.5°	33524.3	49037.9	51659.0	43806.5	28023.2	21645.7	20399.9	15564.8
70°	30595.8	45033.4	45812.8	39785.8	24647.0	15920.8	13777.0	9988.3
72.5°	27594.4	39691.4	38078.9	34551.7	21661.9	11592.7	9937.0	7100.2
75°	24029.5	32666.8	29994.4	28708.1	17935.2	9098.4	7189.2	4899.7
77.5°	19243.0	22994.0	22279.4	22252.4	13477.7	6647.2	4797.3	3071.4
80°	13574.7	14923.1	14559.0	16759.4	9041.7	4821.5	2888.1	1709.7
82.5°	6571.6	8251.6	8470.1	9980.2	4398.2	2836.8	666.1	372.1
85°	2572.6	3980.2	3357.3	3788.7	1235.0	790.1	16.2	0.0
87.5°	288.5	461.1	423.4	334.4	151.0	32.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)