

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: P956661

Luminaire Tested: **GALN-SB9B-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50127 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
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



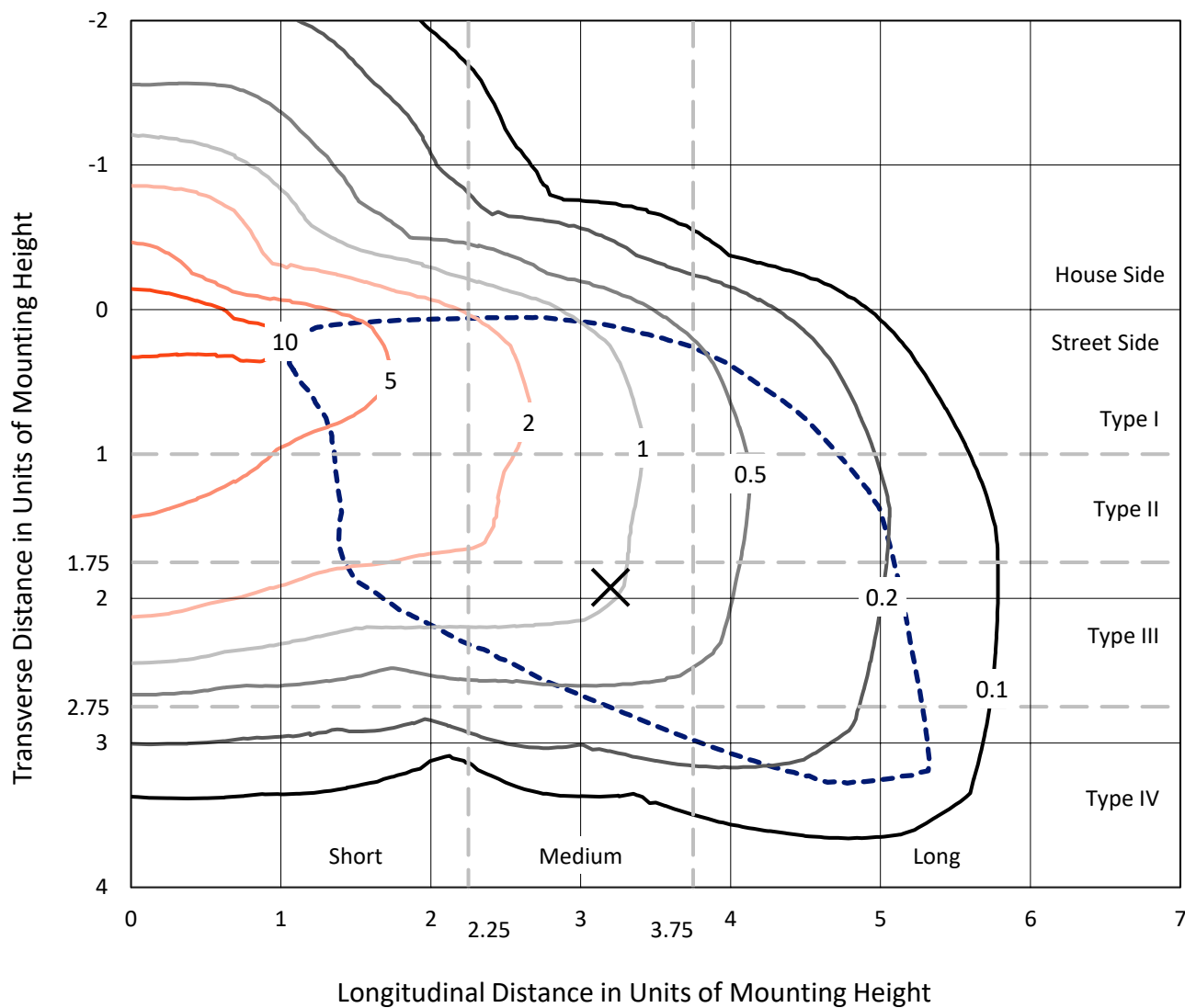
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

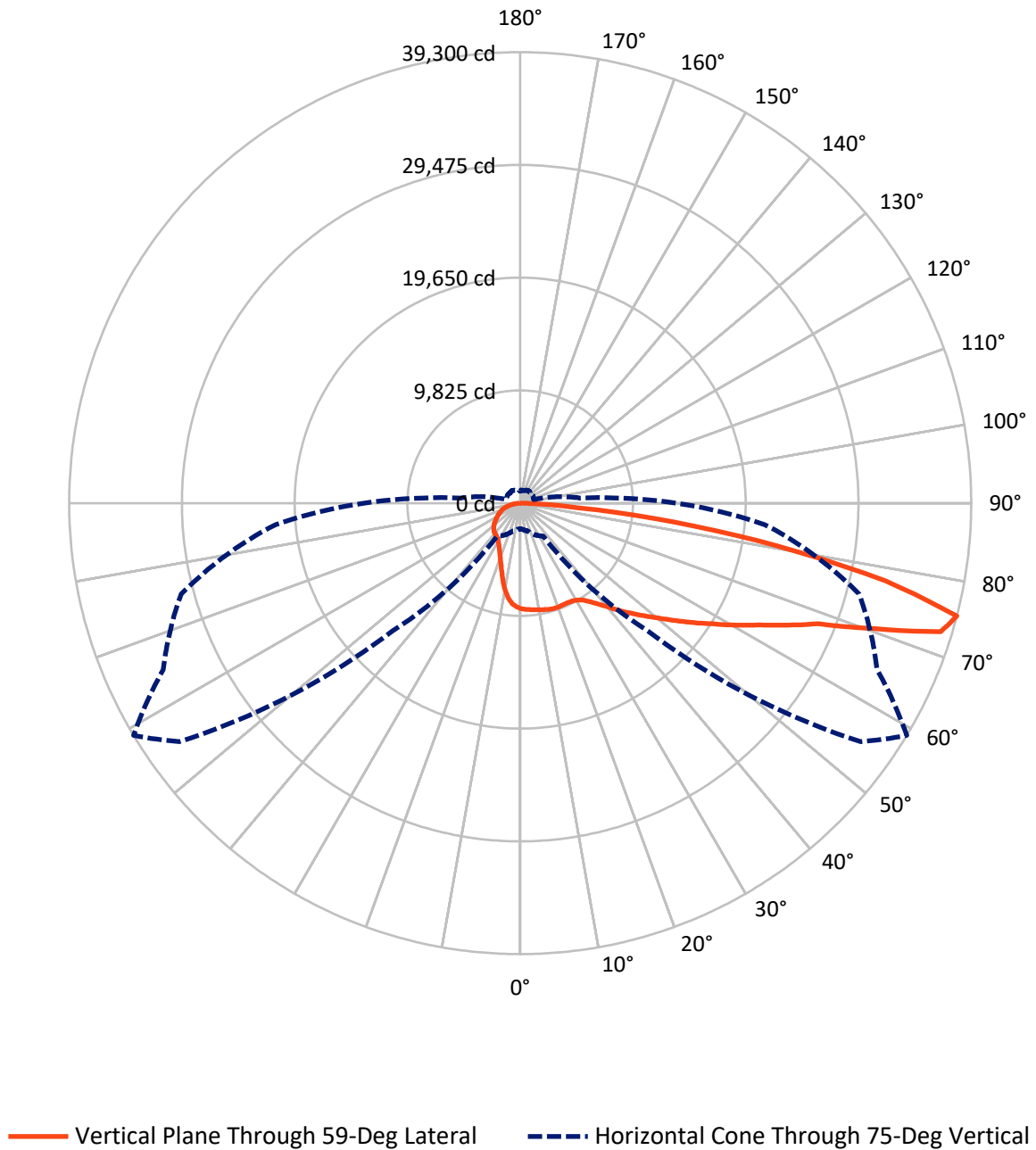
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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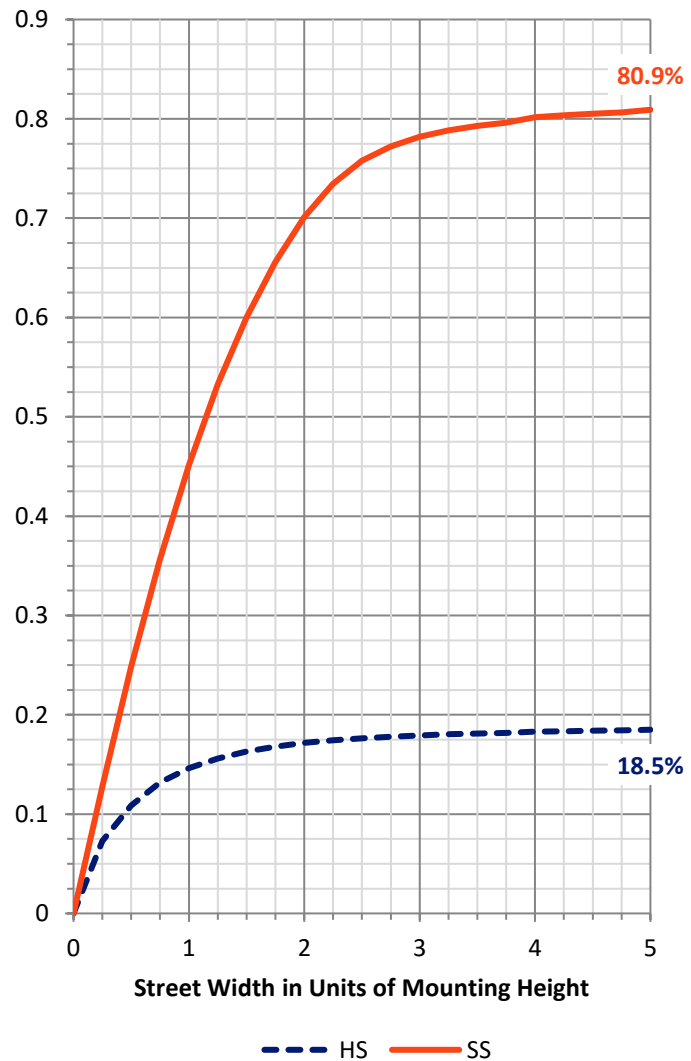
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9401.7	0.0	9401.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40725.3	0.0	40725.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	50127.0	0.0	50127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.0	1.6
10°-20°	2108.7	4.2
20°-30°	3203.0	6.4
30°-40°	4761.2	9.5
40°-50°	7080.7	14.1
50°-60°	9611.2	19.2
60°-70°	11733.7	23.4
70°-80°	9208.4	18.4
80°-90°	1595.1	3.2
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°	50127.0	100.0
0°-180°	50127.0	100.0

Coefficient of Utilization



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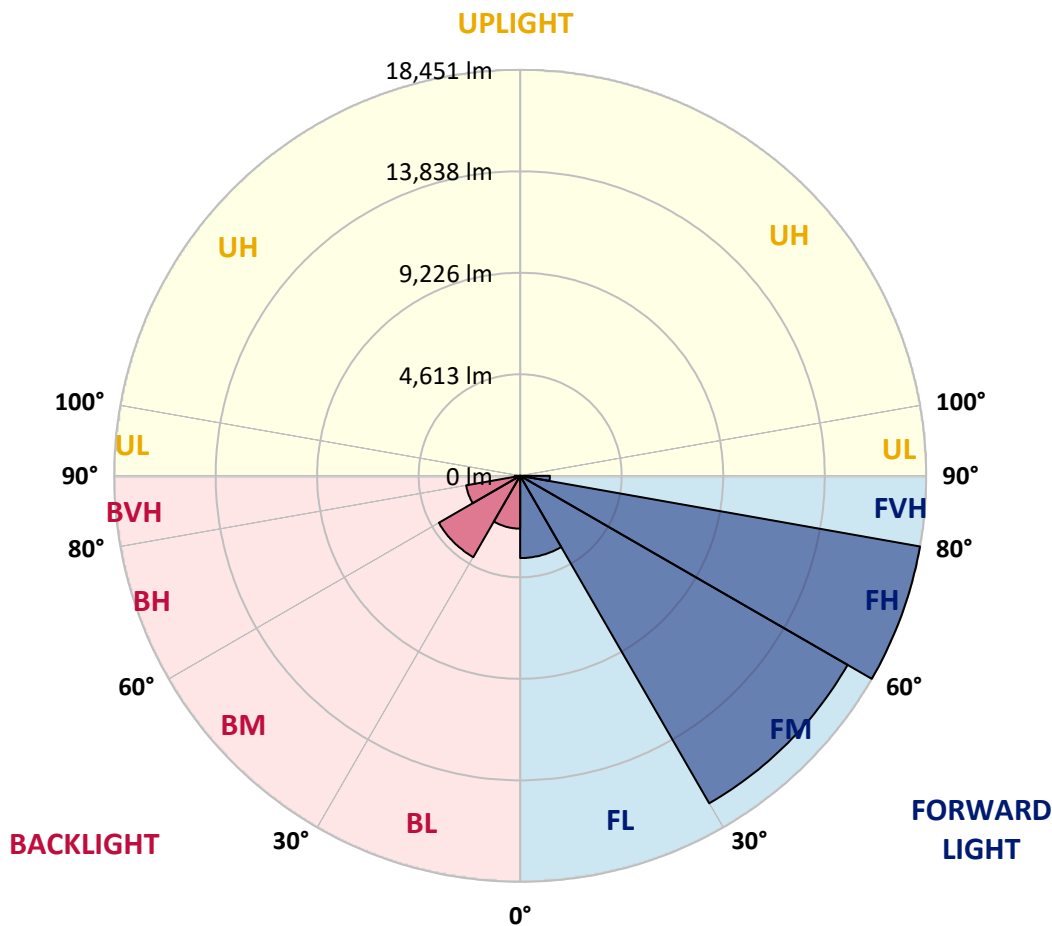
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3737.5	7.5			
FM	(30°-60°)	17185.6	34.3			
FH	(60°-80°)	18451.2	36.8			G5
FVH	(80°-90°)	1350.9	2.7			G5
BL	(0°-30°)	2399.2	4.8	B3/2500		
BM	(30°-60°)	4267.4	8.5	B3/5000		
BH	(60°-80°)	2490.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	244.2	0.5			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7
2.5°	9278.9	9246.5	9278.9	9265.4	9260.0	9249.2	9251.9	9270.8	9260.0	9273.5	9227.7
5°	9216.9	9198.0	9230.4	9222.3	9257.3	9262.7	9297.8	9319.3	9332.8	9335.5	9300.5
7.5°	9114.4	9095.5	9141.4	9179.1	9254.6	9276.2	9349.0	9384.1	9402.9	9435.3	9384.1
10°	8739.6	8731.5	8844.8	8987.7	9165.6	9276.2	9386.8	9446.1	9475.7	9562.0	9502.7
12.5°	8076.2	8087.0	8235.3	8510.4	8866.3	9222.3	9429.9	9516.2	9562.0	9669.9	9642.9
15°	7442.5	7439.8	7601.6	7895.6	8394.4	8985.0	9451.5	9599.8	9678.0	9837.1	9815.5
17.5°	7075.8	7065.0	7178.3	7402.1	7865.9	8620.9	9397.5	9645.6	9812.8	10012.4	9993.5
20°	7008.4	6986.8	7046.1	7156.7	7485.7	8221.8	9257.3	9645.6	9920.7	10179.6	10168.8
22.5°	7253.8	7218.7	7194.5	7181.0	7326.6	7892.9	9098.2	9613.3	10079.8	10419.5	10400.7
25°	7747.2	7693.3	7569.3	7447.9	7404.8	7744.6	8958.0	9605.2	10317.1	10743.1	10673.0
27.5°	8545.4	8478.0	8227.2	7936.0	7674.4	7820.1	8896.0	9653.7	10578.6	11085.6	10945.4
30°	9535.1	9462.3	9146.8	8699.1	8229.9	8100.5	8974.2	9796.6	10913.0	11541.3	11266.3
32.5°	10422.2	10341.3	10071.7	9616.0	8982.3	8585.9	9222.3	10069.0	11438.9	12175.0	11749.0
35°	11209.6	11115.3	10872.6	10451.9	9904.5	9268.1	9669.9	10551.7	12185.8	13205.1	12404.2
37.5°	11980.9	11870.3	11606.0	11161.1	10778.2	10176.9	10287.4	11171.9	13178.1	14456.3	13272.5
40°	12843.8	12684.7	12363.8	11924.2	11552.1	11242.0	11099.1	11932.3	14186.7	15853.1	14356.5
42.5°	13679.7	13528.7	13145.8	12771.0	12304.5	12215.5	12040.2	12822.2	15289.6	17387.5	15456.7
45°	14580.4	14399.7	13935.9	13461.3	13167.4	12862.6	12951.6	13712.1	16370.9	18951.5	16610.9
47.5°	15424.4	15222.1	14674.7	14146.2	13984.4	13407.3	13787.6	14690.9	17495.4	20537.1	17754.2
50°	15880.1	15680.6	15224.8	14747.5	14620.8	14078.8	14693.6	15766.8	18673.8	22117.3	18851.7
52.5°	16260.3	16044.6	15448.7	15184.4	15146.6	14809.6	15810.0	16996.5	19852.2	23514.1	19911.5
55°	16664.8	16424.8	15664.4	15427.1	15599.7	15629.3	17134.0	18390.6	21098.0	24875.9	20911.9
57.5°	17131.3	16826.6	15872.0	15632.0	16041.9	16589.3	18654.9	19836.0	22322.2	26137.9	21801.8
60°	17570.9	17263.4	16271.1	15958.3	16519.2	17703.0	20399.6	21586.0	23708.2	27262.3	22643.1
62.5°	17657.1	17403.7	16589.3	16586.6	17166.4	19002.7	22465.1	23352.3	24919.0	28373.3	23398.1
65°	16163.2	16004.1	15521.5	16562.3	18094.0	20874.2	24765.3	25612.0	26458.8	29344.1	24061.5
67.5°	12301.8	12323.3	12288.3	14297.2	17344.3	23562.6	28095.6	28030.9	28359.8	30433.5	24824.6
70°	5625.0	5751.8	6576.9	9869.4	13895.4	23872.7	33602.0	32763.3	30746.3	31843.8	25485.3
72.5°	3039.0	3136.1	3473.2	4781.0	8354.0	21224.7	37716.9	38312.9	33920.2	32793.0	24759.9
75°	2230.1	2284.0	2518.6	3039.0	3508.2	15774.9	36241.9	39299.8	34316.6	30579.1	21381.1
77.5°	1669.2	1693.4	1884.9	2408.0	1795.9	8316.2	28958.5	32547.6	29376.4	25123.9	15793.8
80°	1210.8	1237.7	1380.6	1806.7	1259.3	3041.7	19884.5	22845.3	20119.1	16014.9	7871.3
82.5°	835.9	846.7	908.7	1229.6	879.1	1181.1	11282.5	13396.6	11231.2	5619.7	2124.9
85°	504.3	517.7	544.7	717.3	498.9	560.9	4870.0	5037.2	3357.2	1342.9	660.7
87.5°	207.6	221.1	242.7	302.0	196.8	156.4	803.6	1008.5	628.3	393.7	204.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7	9200.7
2.5°	9214.2	9195.3	9144.1	9074.0	9009.2	8928.3	8893.3	8863.6	8836.7	8785.4	8761.2
5°	9270.8	9219.6	9082.1	8904.1	8701.8	8480.7	8265.0	8116.7	7989.9	7895.6	7817.4
7.5°	9357.1	9260.0	9009.2	8645.2	8181.4	7706.8	7278.0	6973.3	6744.1	6660.5	6514.9
10°	9446.1	9330.1	8893.3	8251.5	7450.6	6719.9	6150.9	5838.1	5654.7	5595.4	5503.7
12.5°	9551.3	9381.4	8712.6	7704.1	6633.6	5832.7	5336.5	5153.1	5058.8	5026.4	5034.5
15°	9705.0	9424.5	8440.3	7019.2	5854.3	5185.5	4864.6	4737.9	4689.3	4686.6	4697.4
17.5°	9820.9	9432.6	8016.9	6285.7	5255.6	4794.5	4530.2	4481.7	4514.1	4562.6	4581.5
20°	9950.3	9359.8	7461.4	5617.0	4835.0	4452.0	4341.5	4373.8	4452.0	4522.1	4546.4
22.5°	10042.0	9227.7	6790.0	5096.5	4470.9	4255.2	4249.8	4317.2	4360.4	4395.4	4414.3
25°	10122.9	9003.8	6078.1	4659.7	4171.6	4136.5	4195.9	4174.3	4144.6	4174.3	4193.2
27.5°	10182.3	8650.6	5441.7	4276.8	3961.3	4055.6	4020.6	3972.0	3969.4	3985.5	4012.5
30°	10163.4	8178.7	4918.5	3912.7	3813.0	3904.6	3821.0	3813.0	3804.9	3813.0	3842.6
32.5°	10163.4	7642.1	4516.8	3661.9	3718.6	3683.5	3675.4	3656.5	3624.2	3621.5	3656.5
35°	10220.0	7105.5	4171.6	3527.1	3640.4	3556.8	3562.2	3516.3	3448.9	3416.6	3448.9
37.5°	10336.0	6674.0	3829.1	3462.4	3502.8	3500.1	3478.6	3400.4	3281.7	3179.3	3214.3
40°	10616.4	6547.3	3594.5	3432.7	3438.1	3470.5	3413.9	3262.9	2993.2	2826.0	2847.6
42.5°	11055.9	6760.3	3543.3	3359.9	3395.0	3427.3	3316.8	2966.2	2774.8	2675.0	2675.0
45°	11614.1	7132.4	3653.9	3254.8	3292.5	3349.1	3020.2	2853.0	2766.7	2769.4	2782.9
47.5°	12320.6	7523.4	3858.8	3163.1	3144.2	3176.6	2823.3	2720.8	2602.2	2631.9	2707.4
50°	13137.7	7919.8	4052.9	3039.0	2979.7	2874.5	2696.6	2599.5	2448.5	2378.4	2397.3
52.5°	14022.2	8302.7	4131.1	2888.0	2801.7	2680.4	2610.3	2491.6	2308.3	2192.3	2189.6
55°	14860.8	8650.6	4044.9	2707.4	2623.8	2529.4	2518.6	2445.8	2248.9	2087.1	2087.1
57.5°	15653.6	8941.8	3829.1	2524.0	2443.1	2386.5	2459.3	2424.2	2176.1	1968.5	1957.7
60°	16325.0	9141.4	3516.3	2337.9	2281.3	2251.6	2362.2	2351.4	2073.7	1841.8	1833.7
62.5°	16859.0	9219.6	3171.2	2160.0	2146.5	2092.5	2227.4	2227.4	1944.2	1717.7	1709.6
65°	17276.9	9144.1	2820.6	1984.7	2011.6	1930.7	2062.9	2046.7	1806.7	1607.2	1596.4
67.5°	17646.4	8896.0	2432.3	1812.1	1874.1	1771.6	1890.3	1852.5	1655.7	1496.6	1485.8
70°	17810.8	8318.9	1990.1	1639.5	1715.0	1615.2	1717.7	1647.6	1485.8	1377.9	1356.4
72.5°	16489.5	6914.0	1566.7	1458.8	1523.6	1442.7	1531.7	1450.8	1302.4	1253.9	1213.5
75°	13642.0	5188.2	1205.4	1262.0	1310.5	1248.5	1307.8	1248.5	1113.7	1148.7	1049.0
77.5°	9907.2	3502.8	922.2	1054.4	1075.9	1043.6	1094.8	1027.4	906.0	898.0	857.5
80°	4926.6	2052.1	722.7	833.2	825.2	803.6	862.9	830.5	728.1	771.2	763.1
82.5°	1426.5	879.1	525.8	585.2	569.0	574.4	617.5	633.7	949.2	941.1	962.7
85°	447.6	345.2	315.5	326.3	310.1	318.2	364.0	722.7	668.7	391.0	423.4
87.5°	116.0	118.6	78.2	83.6	86.3	102.5	116.0	439.5	210.3	137.5	145.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)