

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: P954477

Luminaire Tested: **GALN-SB7D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954477
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-SB7D-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58428 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8
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

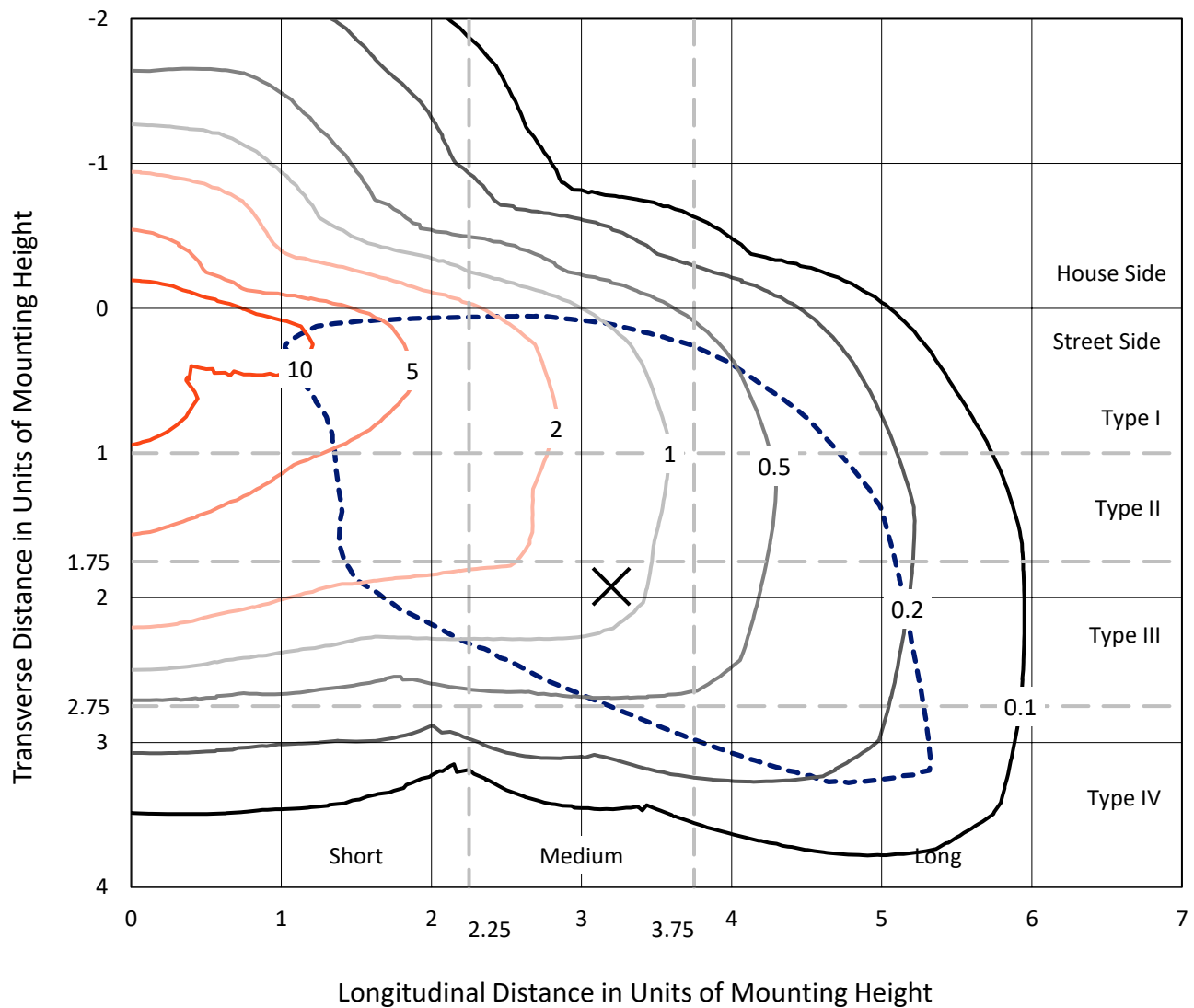


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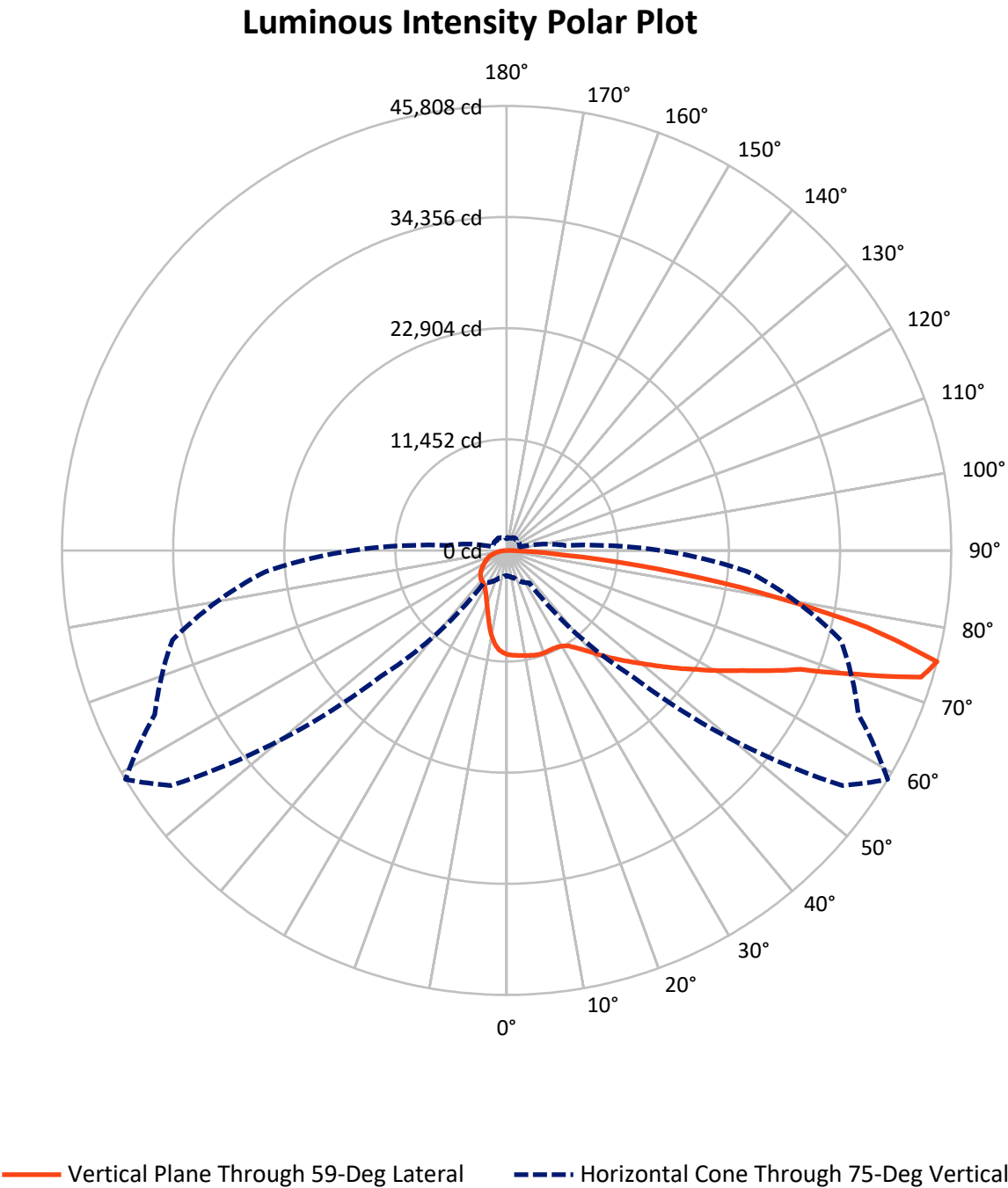
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type IV - Medium - N/A

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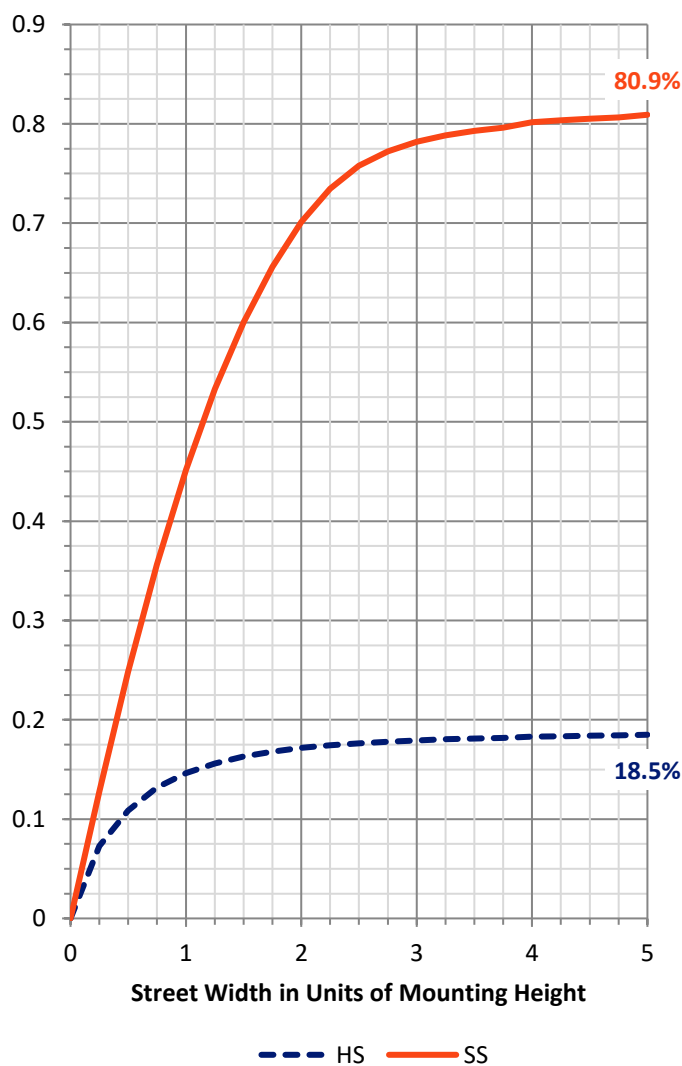
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10958.6	0.0	10958.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47469.4	0.0	47469.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	58428.0	0.0	58428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.6	1.6
10°-20°	2457.9	4.2
20°-30°	3733.4	6.4
30°-40°	5549.6	9.5
40°-50°	8253.2	14.1
50°-60°	11202.8	19.2
60°-70°	13676.8	23.4
70°-80°	10733.4	18.4
80°-90°	1859.3	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°	58428.0	100.0
0°-180°	58428.0	100.0

Coefficient of Utilization



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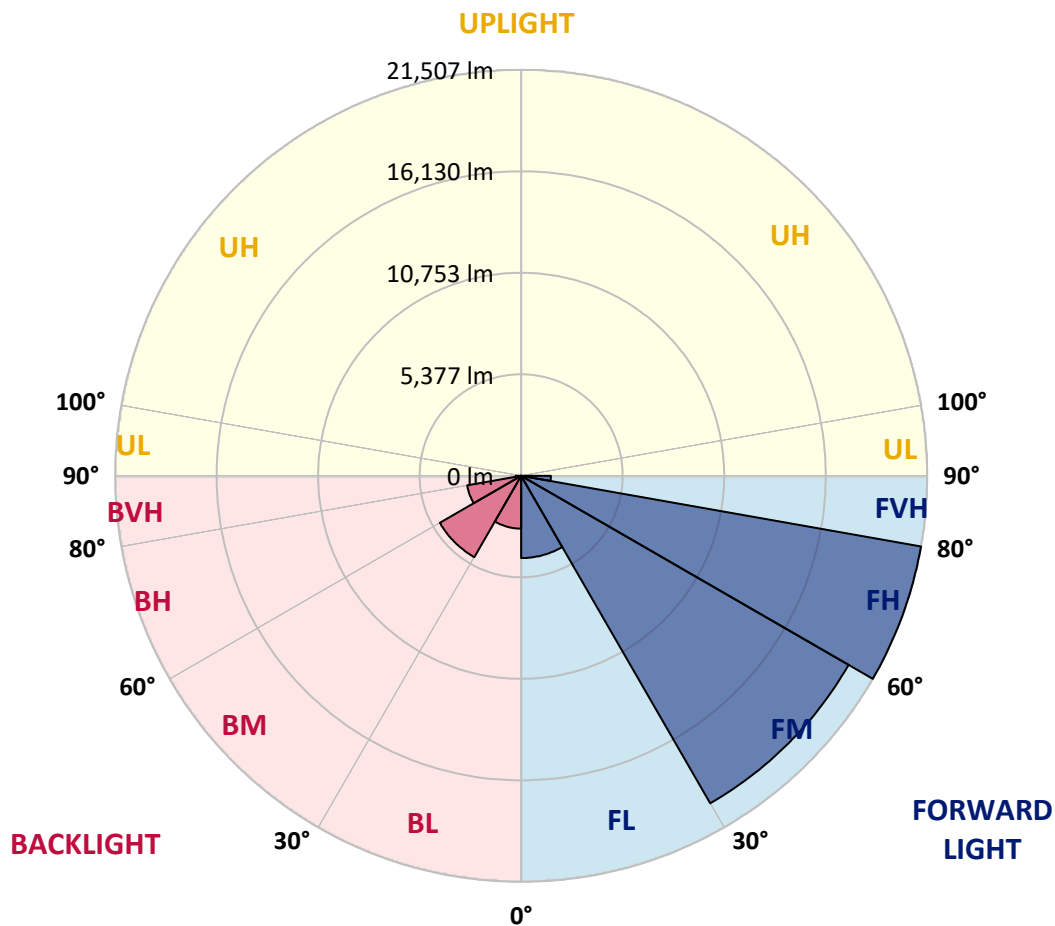
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4356.4	7.5			
FM	(30°-60°)	20031.6	34.3			
FH	(60°-80°)	21506.8	36.8			G5
FVH	(80°-90°)	1574.7	2.7			G5
BL	(0°-30°)	2796.5	4.8	B4/5000		
BM	(30°-60°)	4974.1	8.5	B3/5000		
BH	(60°-80°)	2903.4	5.0	B4/5000		G4/5000
BVH	(80°-90°)	284.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3
2.5°	10815.5	10777.8	10815.5	10799.8	10793.5	10780.9	10784.0	10806.1	10793.5	10809.2	10755.8
5°	10743.2	10721.2	10758.9	10749.5	10790.3	10796.6	10837.5	10862.6	10878.3	10881.5	10840.6
7.5°	10623.7	10601.7	10655.2	10699.2	10787.2	10812.3	10897.2	10938.1	10960.1	10997.8	10938.1
10°	10186.9	10177.4	10309.4	10476.0	10683.5	10812.3	10941.2	11010.4	11044.9	11145.5	11076.4
12.5°	9413.6	9426.2	9599.1	9919.7	10334.6	10749.5	10991.5	11092.1	11145.5	11271.2	11239.8
15°	8675.0	8671.9	8860.5	9203.1	9784.5	10472.9	11016.6	11189.5	11280.7	11466.1	11441.0
17.5°	8247.5	8235.0	8367.0	8627.9	9168.5	10048.6	10953.8	11242.9	11437.8	11670.4	11648.4
20°	8169.0	8143.8	8213.0	8341.8	8725.3	9583.4	10790.3	11242.9	11563.5	11865.3	11852.7
22.5°	8455.0	8414.1	8385.8	8370.1	8539.9	9199.9	10604.9	11205.2	11749.0	12145.0	12123.0
25°	9030.2	8967.3	8822.7	8681.3	8631.0	9027.0	10441.4	11195.8	12025.6	12522.2	12440.5
27.5°	9960.6	9882.0	9589.7	9250.2	8945.3	9115.1	10369.2	11252.4	12330.5	12921.4	12757.9
30°	11114.1	11029.2	10661.5	10139.7	9592.8	9441.9	10460.3	11419.0	12720.2	13452.6	13132.0
32.5°	12148.2	12053.9	11739.6	11208.4	10469.7	10007.7	10749.5	11736.4	13333.1	14191.2	13694.6
35°	13066.0	12955.9	12673.1	12182.7	11544.7	10802.9	11271.2	12299.0	14203.8	15391.9	14458.4
37.5°	13964.9	13836.0	13528.0	13009.4	12563.1	11862.1	11991.0	13022.0	15360.4	16850.3	15470.4
40°	14970.7	14785.2	14411.2	13898.9	13465.1	13103.7	12937.1	13908.3	16536.0	18478.4	16734.0
42.5°	15945.1	15769.0	15322.7	14885.8	14342.1	14238.3	14034.0	14945.5	17821.5	20266.8	18016.4
45°	16994.9	16784.3	16243.6	15690.5	15347.9	14992.7	15096.4	15982.8	19081.9	22089.9	19361.6
47.5°	17978.7	17742.9	17104.9	16488.8	16300.2	15627.6	16070.8	17123.7	20392.6	23938.0	20694.3
50°	18509.8	18277.2	17746.1	17189.7	17042.0	16410.2	17126.9	18377.8	21766.1	25779.9	21973.6
52.5°	18953.0	18701.6	18006.9	17698.9	17654.9	17262.0	18428.1	19811.1	23139.7	27408.0	23208.8
55°	19424.5	19144.8	18258.4	17981.8	18183.0	18217.5	19971.4	21436.1	24591.8	28995.3	24374.9
57.5°	19968.2	19613.1	18500.4	18220.7	18698.4	19336.5	21744.1	23120.8	26018.8	30466.3	25412.1
60°	20480.6	20122.3	18965.6	18601.0	19254.8	20634.6	23777.7	25160.7	27634.3	31777.0	26392.8
62.5°	20581.2	20285.7	19336.5	19333.3	20009.1	22149.6	26185.3	27219.4	29045.6	33071.9	27272.9
65°	18839.9	18654.4	18091.8	19305.0	21090.3	24330.9	28866.4	29853.4	30840.3	34203.4	28046.1
67.5°	14338.9	14364.1	14323.2	16664.8	20216.6	27464.6	32748.2	32672.7	33056.2	35473.3	28935.6
70°	6556.6	6704.3	7666.1	11503.8	16196.5	27826.1	39166.4	38188.9	35837.9	37117.1	29705.6
72.5°	3542.3	3655.4	4048.3	5572.8	9737.4	24739.5	43962.8	44657.5	39537.3	38223.5	28860.1
75°	2599.4	2662.2	2935.7	3542.3	4089.2	18387.3	42243.5	45807.8	39999.4	35643.0	24921.8
77.5°	1945.6	1973.9	2197.0	2806.8	2093.3	9693.4	33754.0	37937.5	34241.2	29284.5	18409.3
80°	1411.3	1442.7	1609.3	2105.9	1467.8	3545.4	23177.4	26628.5	23450.8	18667.0	9174.8
82.5°	974.4	986.9	1059.2	1433.3	1024.7	1376.7	13150.8	15615.0	13091.1	6550.3	2476.8
85°	587.8	603.5	634.9	836.1	581.5	653.8	5676.5	5871.4	3913.2	1565.3	770.1
87.5°	242.0	257.7	282.9	352.0	229.4	182.3	936.7	1175.5	732.3	458.9	238.9
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°	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3	10724.3
2.5°	10740.0	10718.0	10658.3	10576.6	10501.2	10406.9	10366.0	10331.4	10300.0	10240.3	10212.0
5°	10806.1	10746.3	10586.0	10378.6	10142.9	9885.1	9633.7	9460.8	9313.1	9203.1	9111.9
7.5°	10906.6	10793.5	10501.2	10076.8	9536.2	8983.0	8483.3	8128.1	7860.9	7763.5	7593.8
10°	11010.4	10875.2	10366.0	9618.0	8684.4	7832.7	7169.5	6804.9	6591.1	6522.0	6415.1
12.5°	11132.9	10934.9	10155.4	8979.9	7732.1	6798.6	6220.2	6006.5	5896.5	5858.8	5868.2
15°	11312.1	10985.2	9838.0	8181.5	6823.7	6044.2	5670.2	5522.5	5465.9	5462.7	5475.3
17.5°	11447.2	10994.6	9344.5	7326.6	6125.9	5588.5	5280.4	5223.9	5261.6	5318.2	5340.2
20°	11598.1	10909.8	8697.0	6547.1	5635.6	5189.3	5060.4	5098.1	5189.3	5271.0	5299.3
22.5°	11705.0	10755.8	7914.4	5940.5	5211.3	4959.8	4953.6	5032.1	5082.4	5123.3	5145.3
25°	11799.3	10494.9	7084.6	5431.3	4862.4	4821.5	4890.7	4865.6	4831.0	4865.6	4887.6
27.5°	11868.4	10083.1	6342.8	4985.0	4617.2	4727.3	4686.4	4629.8	4626.7	4645.5	4677.0
30°	11846.4	9533.1	5733.1	4560.7	4444.4	4551.2	4453.8	4444.4	4434.9	4444.4	4478.9
32.5°	11846.4	8907.6	5264.7	4268.4	4334.4	4293.5	4284.1	4262.1	4224.4	4221.2	4262.1
35°	11912.4	8282.1	4862.4	4111.2	4243.2	4145.8	4152.1	4098.6	4020.1	3982.3	4020.1
37.5°	12047.6	7779.2	4463.2	4035.8	4082.9	4079.8	4054.6	3963.5	3825.2	3705.7	3746.6
40°	12374.5	7631.5	4189.8	4001.2	4007.5	4045.2	3979.2	3803.2	3488.9	3294.0	3319.1
42.5°	12886.8	7879.8	4130.1	3916.3	3957.2	3994.9	3866.0	3457.4	3234.3	3118.0	3118.0
45°	13537.4	8313.6	4258.9	3793.7	3837.8	3903.8	3520.3	3325.4	3224.8	3228.0	3243.7
47.5°	14360.9	8769.3	4497.8	3686.9	3664.9	3702.6	3290.8	3171.4	3033.1	3067.7	3155.7
50°	15313.3	9231.3	4724.1	3542.3	3473.1	3350.6	3143.1	3030.0	2854.0	2772.2	2794.2
52.5°	16344.2	9677.7	4815.3	3366.3	3265.7	3124.3	3042.5	2904.2	2690.5	2555.4	2552.2
55°	17321.7	10083.1	4714.7	3155.7	3058.3	2948.2	2935.7	2850.8	2621.4	2432.8	2432.8
57.5°	18245.8	10422.6	4463.2	2942.0	2847.7	2781.7	2866.5	2825.7	2536.5	2294.5	2281.9
60°	19028.5	10655.2	4098.6	2725.1	2659.1	2624.5	2753.4	2740.8	2417.1	2146.8	2137.3
62.5°	19650.8	10746.3	3696.3	2517.6	2501.9	2439.1	2596.2	2596.2	2266.2	2002.2	1992.7
65°	20138.0	10658.3	3287.7	2313.3	2344.8	2250.5	2404.5	2385.6	2105.9	1873.3	1860.7
67.5°	20568.6	10369.2	2835.1	2112.2	2184.5	2065.0	2203.3	2159.3	1929.9	1744.4	1731.9
70°	20760.3	9696.5	2319.6	1911.0	1999.0	1882.7	2002.2	1920.4	1731.9	1606.1	1581.0
72.5°	19220.2	8059.0	1826.2	1700.4	1775.9	1681.6	1785.3	1691.0	1518.1	1461.6	1414.4
75°	15901.0	6047.4	1405.0	1471.0	1527.6	1455.3	1524.4	1455.3	1298.1	1339.0	1222.7
77.5°	11547.8	4082.9	1074.9	1229.0	1254.1	1216.4	1276.1	1197.5	1056.1	1046.7	999.5
80°	5742.5	2391.9	842.4	971.2	961.8	936.7	1005.8	968.1	848.6	898.9	889.5
82.5°	1662.7	1024.7	612.9	682.1	663.2	669.5	719.8	738.6	1106.4	1096.9	1122.1
85°	521.8	402.3	367.7	380.3	361.5	370.9	424.3	842.4	779.5	455.8	493.5
87.5°	135.2	138.3	91.2	97.4	100.6	119.4	135.2	512.3	245.2	160.3	169.7
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)