

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: P942632

Luminaire Tested: **GALN-SB6D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56736 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



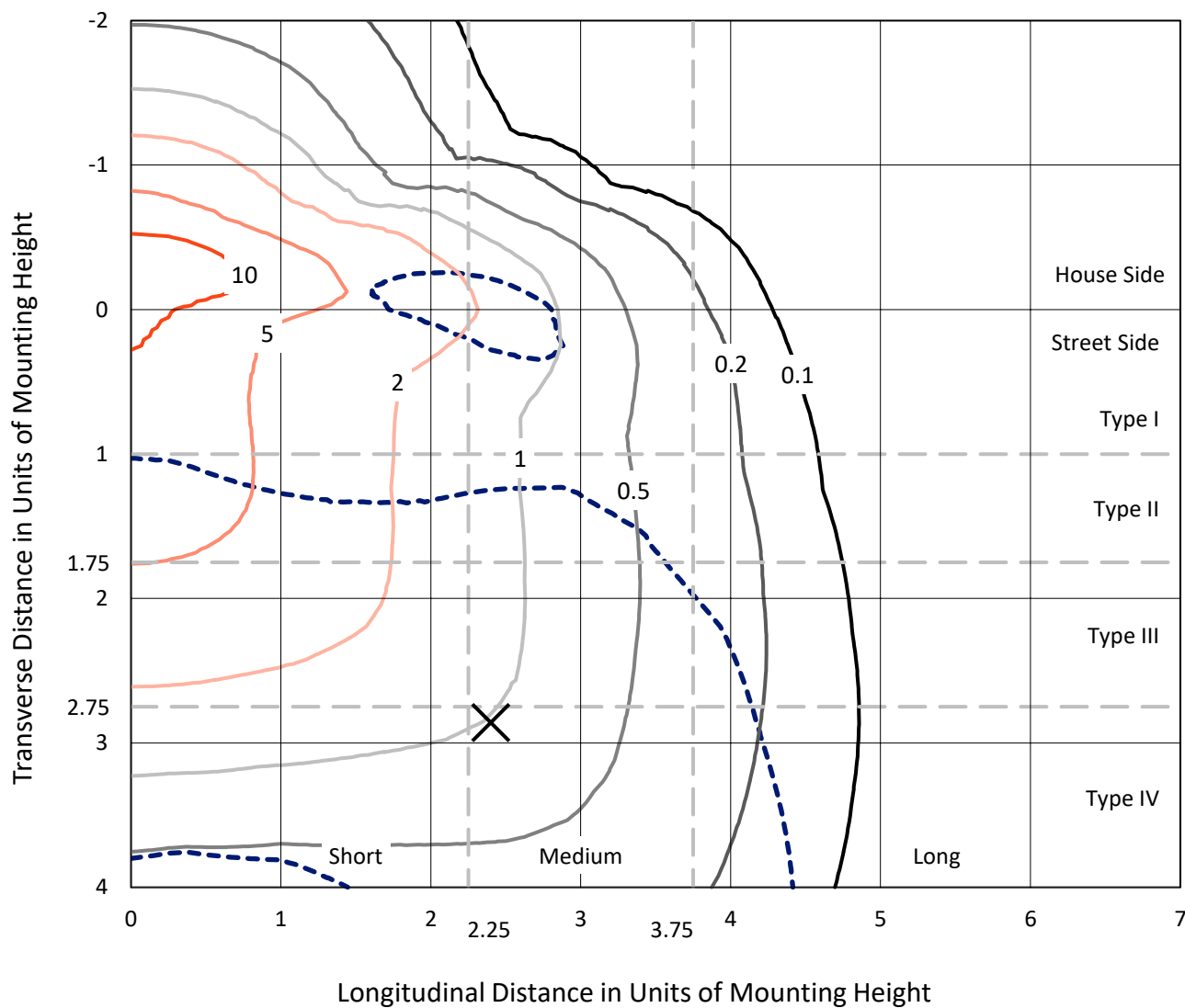
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

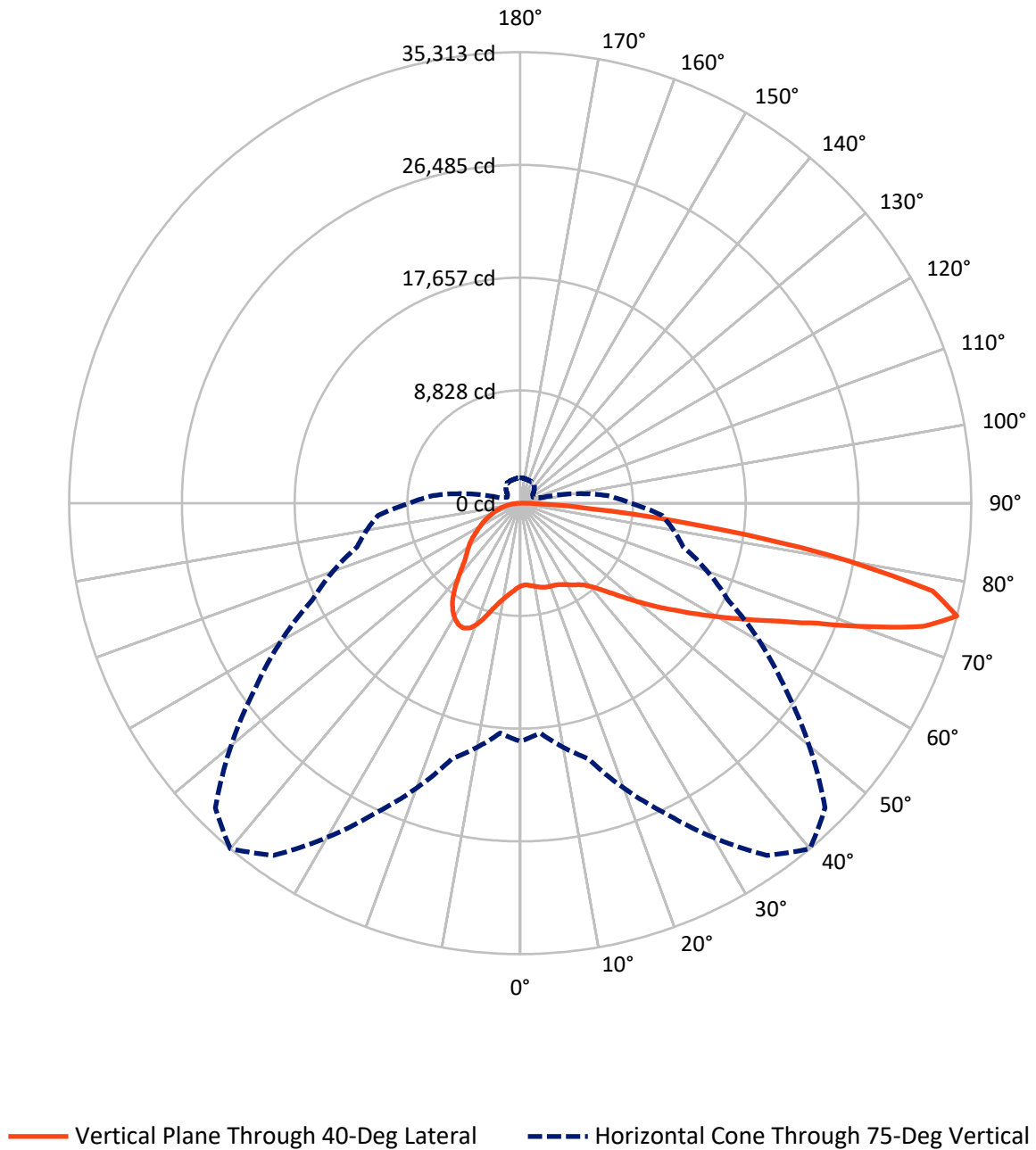


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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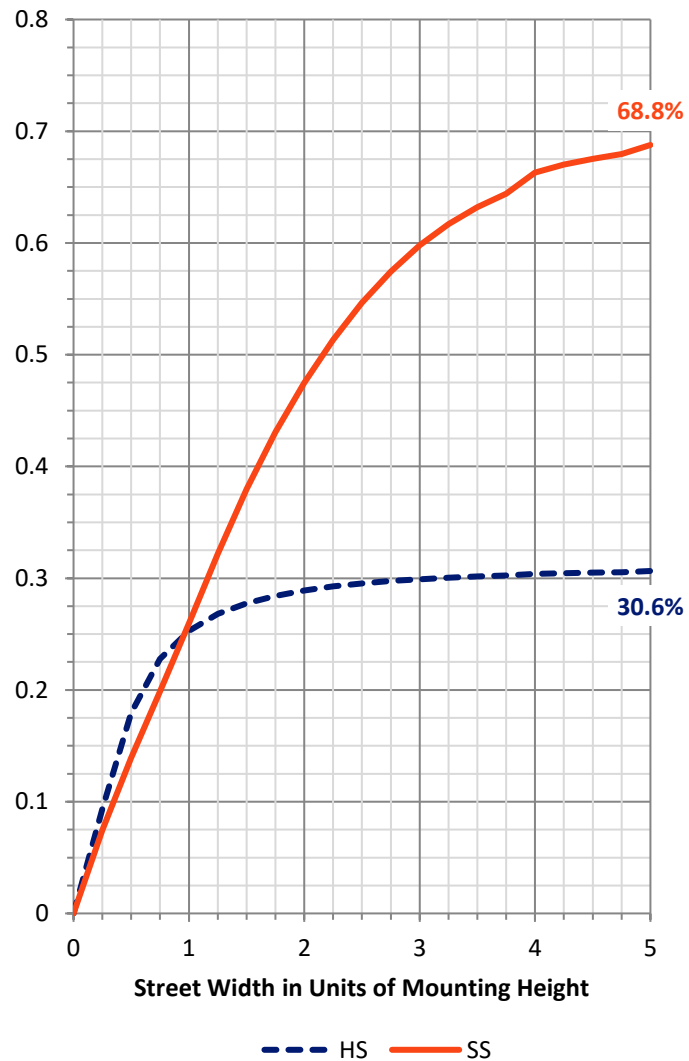
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17578.7	0.0	17578.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	39157.3	0.0	39157.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	56736.0	0.0	56736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.6	1.1
10°-20°	2174.3	3.8
20°-30°	3970.1	7.0
30°-40°	5630.7	9.9
40°-50°	7603.2	13.4
50°-60°	10228.3	18.0
60°-70°	12982.1	22.9
70°-80°	11782.1	20.8
80°-90°	1717.5	3.0
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°	56736.0	100.0
0°-180°	56736.0	100.0

Coefficient of Utilization



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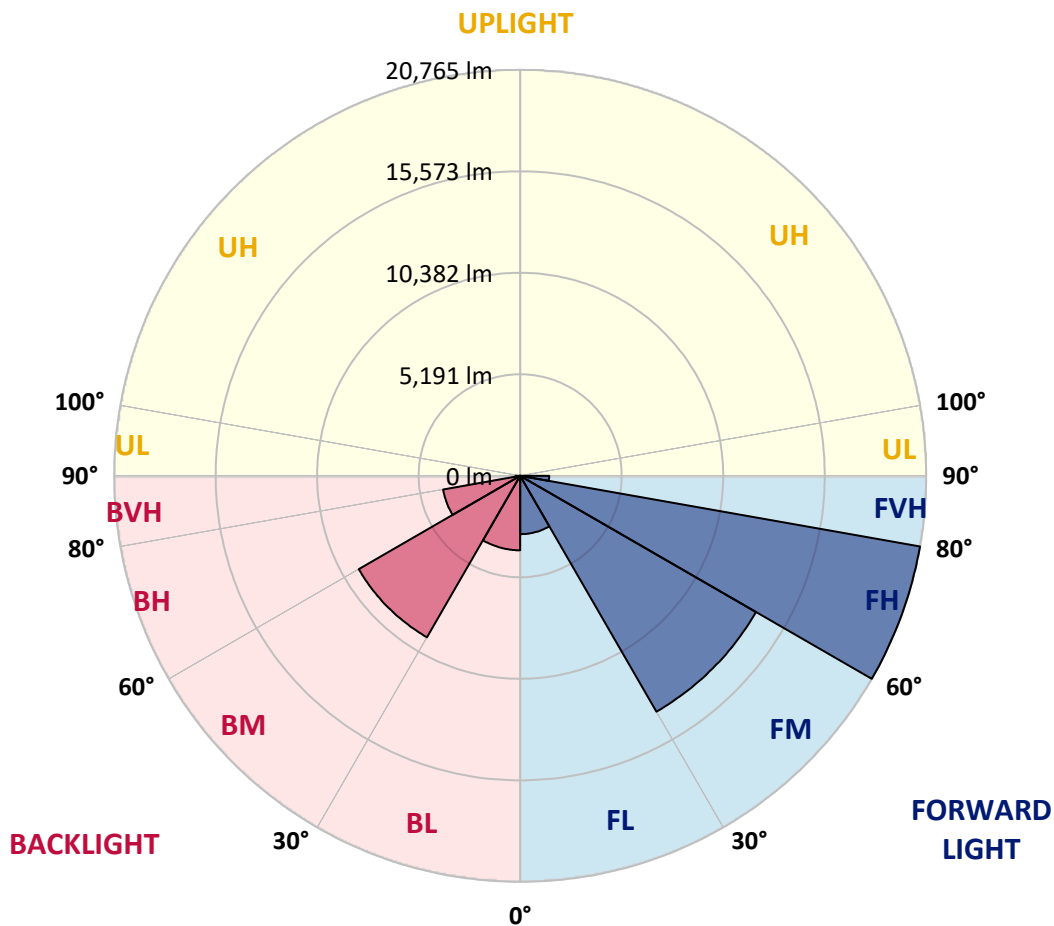
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2984.4	5.3			
FM	(30°-60°)	13927.4	24.5			
FH	(60°-80°)	20764.5	36.6			G5
FVH	(80°-90°)	1481.0	2.6			G5
BL	(0°-30°)	3807.7	6.7	B4/5000		
BM	(30°-60°)	9534.9	16.8	B5		
BH	(60°-80°)	3999.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	236.5	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8
2.5°	6388.5	6424.6	6415.6	6403.6	6403.6	6406.6	6403.6	6424.6	6445.7	6466.8	6499.9
5°	6454.7	6490.8	6472.8	6457.7	6445.7	6442.7	6433.7	6430.7	6442.7	6469.8	6514.9
7.5°	6584.1	6620.2	6593.2	6566.1	6542.0	6530.0	6517.9	6499.9	6490.8	6505.9	6569.1
10°	6728.6	6764.7	6731.6	6683.4	6644.3	6629.3	6617.2	6599.2	6587.1	6596.2	6665.4
12.5°	6873.0	6909.1	6864.0	6797.8	6746.6	6737.6	6722.6	6716.5	6713.5	6710.5	6779.7
15°	7008.4	7038.5	6981.3	6903.1	6848.9	6833.9	6818.8	6827.9	6842.9	6861.0	6939.2
17.5°	7113.8	7143.8	7059.6	6957.3	6906.1	6900.1	6891.1	6921.2	6963.3	7008.4	7104.7
20°	7210.0	7240.1	7131.8	6993.4	6933.2	6933.2	6936.2	6999.4	7059.6	7125.8	7258.2
22.5°	7345.5	7369.5	7237.1	7047.5	6960.3	6966.3	6990.4	7053.6	7128.8	7219.1	7402.6
25°	7547.1	7565.1	7402.6	7149.9	7050.6	7068.6	7089.7	7119.8	7192.0	7297.3	7544.1
27.5°	7872.1	7887.1	7673.5	7330.4	7180.0	7210.0	7240.1	7219.1	7252.2	7342.5	7658.4
30°	8329.5	8338.5	8067.7	7613.3	7399.6	7414.7	7420.7	7333.4	7270.2	7342.5	7739.7
32.5°	8871.1	8868.1	8546.1	7956.3	7649.4	7634.3	7583.2	7411.7	7264.2	7327.4	7811.9
35°	9710.7	9677.6	9262.3	8437.8	7932.3	7839.0	7718.6	7498.9	7294.3	7312.4	7875.1
37.5°	11100.9	10998.6	10423.9	9226.2	8353.5	8115.8	7938.3	7640.4	7360.5	7306.3	7950.3
40°	12668.7	12539.3	11907.4	10306.5	8985.5	8603.3	8317.4	7842.0	7468.8	7333.4	8061.6
42.5°	14528.4	14344.9	13664.8	11579.4	9785.9	9232.2	8801.9	8097.8	7628.3	7420.7	8212.1
45°	16812.4	16568.7	15605.7	13014.8	10794.0	10056.7	9482.0	8485.9	7872.1	7589.2	8437.8
47.5°	19120.5	19180.6	17811.5	14657.8	12003.7	11073.9	10333.6	9069.7	8227.2	7860.0	8801.9
50°	21573.0	21615.1	20005.2	16478.4	13375.9	12223.4	11290.5	9722.7	8720.7	8245.2	9346.6
52.5°	23486.8	23492.8	21997.3	18383.2	14805.3	13487.2	12322.7	10469.0	9292.4	8756.8	10071.8
55°	24684.5	24669.4	23393.5	20185.7	16448.3	14814.3	13466.2	11317.6	9990.5	9358.6	10983.6
57.5°	25554.1	25509.0	24356.5	21735.5	18199.6	16382.1	14760.1	12280.5	10815.1	10074.8	12184.3
60°	25885.1	25858.1	25009.5	23074.6	20041.3	18115.4	16252.7	13357.8	11750.9	10920.4	13728.0
62.5°	26011.5	26062.7	25650.4	24371.5	22012.3	20035.3	17892.7	14645.8	12804.1	11877.3	15356.0
65°	26456.9	26550.2	26465.9	26068.7	24239.1	22283.1	20068.4	16177.5	13953.7	12903.5	17056.2
67.5°	27338.6	27431.9	27468.0	28099.9	26959.4	25084.7	22782.7	18085.3	15298.8	13968.7	18335.1
70°	27317.5	27290.4	27928.4	29715.9	30365.8	28963.6	26441.8	20432.5	16902.7	14853.4	18497.6
72.5°	24865.0	24648.4	26156.0	29697.8	33200.5	33013.9	30910.5	23459.7	18286.9	14961.7	16051.1
75°	18654.0	18076.3	20739.4	26763.8	33673.0	35313.0	33751.2	25337.5	17958.9	13219.4	11170.2
77.5°	7977.4	7396.6	10535.2	19812.6	30137.1	33010.9	31145.2	22105.6	14335.8	8741.7	5485.8
80°	2088.4	2085.4	3183.7	8982.5	20495.7	24377.5	21386.4	14275.6	8191.0	3123.6	1513.6
82.5°	863.6	842.6	1170.6	3493.7	10014.6	13679.8	11164.1	6367.5	2958.0	845.6	502.5
85°	322.0	319.0	568.7	1206.7	3532.8	5642.3	4083.5	1628.0	737.3	412.3	225.7
87.5°	90.3	87.3	123.4	418.3	860.6	1306.0	698.1	267.8	207.6	162.5	66.2
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°	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8	6487.8
2.5°	6508.9	6523.9	6551.0	6572.1	6599.2	6629.3	6671.4	6698.5	6725.6	6743.6	6731.6
5°	6536.0	6569.1	6638.3	6707.5	6788.8	6864.0	6951.3	7014.4	7065.6	7080.6	7086.7
7.5°	6596.2	6650.3	6767.7	6885.1	7014.4	7137.8	7264.2	7372.5	7459.8	7492.9	7495.9
10°	6701.5	6773.7	6939.2	7104.7	7276.2	7465.8	7628.3	7784.8	7908.2	7959.3	7962.3
12.5°	6833.9	6924.2	7140.8	7369.5	7607.3	7869.1	8079.7	8272.3	8425.8	8495.0	8495.0
15°	7005.4	7122.8	7399.6	7706.6	8055.6	8419.7	8687.6	8901.2	9072.7	9157.0	9151.0
17.5°	7192.0	7348.5	7697.5	8161.0	8660.5	9138.9	9451.9	9608.4	9785.9	9867.2	9864.2
20°	7372.5	7565.1	8064.7	8738.7	9403.8	9912.3	10165.1	10207.2	10219.2	10228.3	10252.3
22.5°	7559.1	7817.9	8525.1	9466.9	10180.1	10532.2	10568.3	10387.8	10135.0	10017.6	10050.7
25°	7763.7	8106.8	9126.9	10270.4	10848.2	10890.3	10613.5	10174.1	9695.6	9476.0	9509.1
27.5°	7962.3	8440.8	9849.1	11037.7	11329.6	10959.5	10363.7	9740.8	9163.0	8931.3	8958.4
30°	8161.0	8823.0	10646.6	11708.8	11549.3	10788.0	9969.5	9274.4	8693.6	8449.8	8476.9
32.5°	8362.6	9268.3	11564.4	12193.3	11510.2	10423.9	9479.0	8750.8	8239.2	7983.4	8016.5
35°	8591.3	9816.0	12434.0	12458.1	11248.4	9888.2	8832.0	8124.8	7679.5	7474.9	7520.0
37.5°	8889.2	10511.1	13201.4	12524.3	10791.0	9102.8	8028.5	7384.6	7017.5	6924.2	6990.4
40°	9259.3	11347.7	13788.2	12419.0	10113.9	8148.9	7149.9	6635.3	6427.7	6448.7	6520.9
42.5°	9740.8	12283.6	14200.4	12148.1	9172.0	7164.9	6379.5	6150.8	6250.1	6334.4	6412.6
45°	10366.7	13255.5	14456.2	11687.7	8106.8	6331.4	5925.1	5979.3	6054.5	6063.5	6123.7
47.5°	11167.1	14239.5	14624.7	10992.6	7020.5	5744.6	5636.2	5648.3	5633.2	5570.0	5618.2
50°	12166.2	15196.5	14775.2	10071.8	6096.6	5377.4	5233.0	5190.9	4983.2	4778.6	4805.7
52.5°	13303.7	16075.2	14838.4	8928.3	5377.4	5070.5	4835.8	4571.0	4182.8	4119.6	4140.7
55°	14567.5	16887.6	14675.9	7523.0	4772.6	4676.3	4321.2	4002.2	3960.1	3905.9	3915.0
57.5°	16078.2	17763.3	14344.9	5955.2	4152.7	4215.9	3869.8	3905.9	3830.7	3746.5	3731.4
60°	17730.2	18669.1	13764.1	4525.8	3511.7	3641.1	3752.5	3749.5	3728.4	3659.2	3635.1
62.5°	19216.8	19264.9	12620.6	3466.6	2949.0	3195.8	3499.7	3496.7	3478.6	3439.5	3424.5
65°	20101.5	19174.6	10712.8	2729.3	2485.6	2828.6	3156.7	3180.7	3183.7	3180.7	3180.7
67.5°	19945.0	18118.4	8094.8	2172.6	2103.4	2455.5	2816.6	2849.7	2873.8	2879.8	2885.8
70°	18175.6	15798.3	5278.1	1733.3	1763.4	2127.5	2494.6	2527.7	2548.8	2572.9	2584.9
72.5°	14167.3	11615.5	3021.2	1402.3	1465.5	1844.6	2175.7	2214.8	2226.8	2271.9	2290.0
75°	8633.4	6830.9	1631.0	1104.4	1203.7	1576.8	1859.7	1904.8	1925.9	1980.1	1986.1
77.5°	4104.6	2958.0	929.8	860.6	969.0	1287.9	1570.8	1622.0	1564.8	1594.9	1570.8
80°	1387.2	1098.4	586.8	656.0	740.3	1005.1	1257.8	1309.0	1188.6	1182.6	1170.6
82.5°	484.5	445.4	373.1	436.3	478.5	719.2	950.9	1017.1	884.7	881.7	839.6
85°	189.6	180.6	207.6	237.7	285.9	442.4	625.9	659.0	544.7	439.3	433.3
87.5°	39.1	42.1	51.2	54.2	87.3	153.5	225.7	276.8	219.7	186.6	171.5
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)