

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: P943302

Luminaire Tested: **GALN-SB7D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943302
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-SB7D-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 59261 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - 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

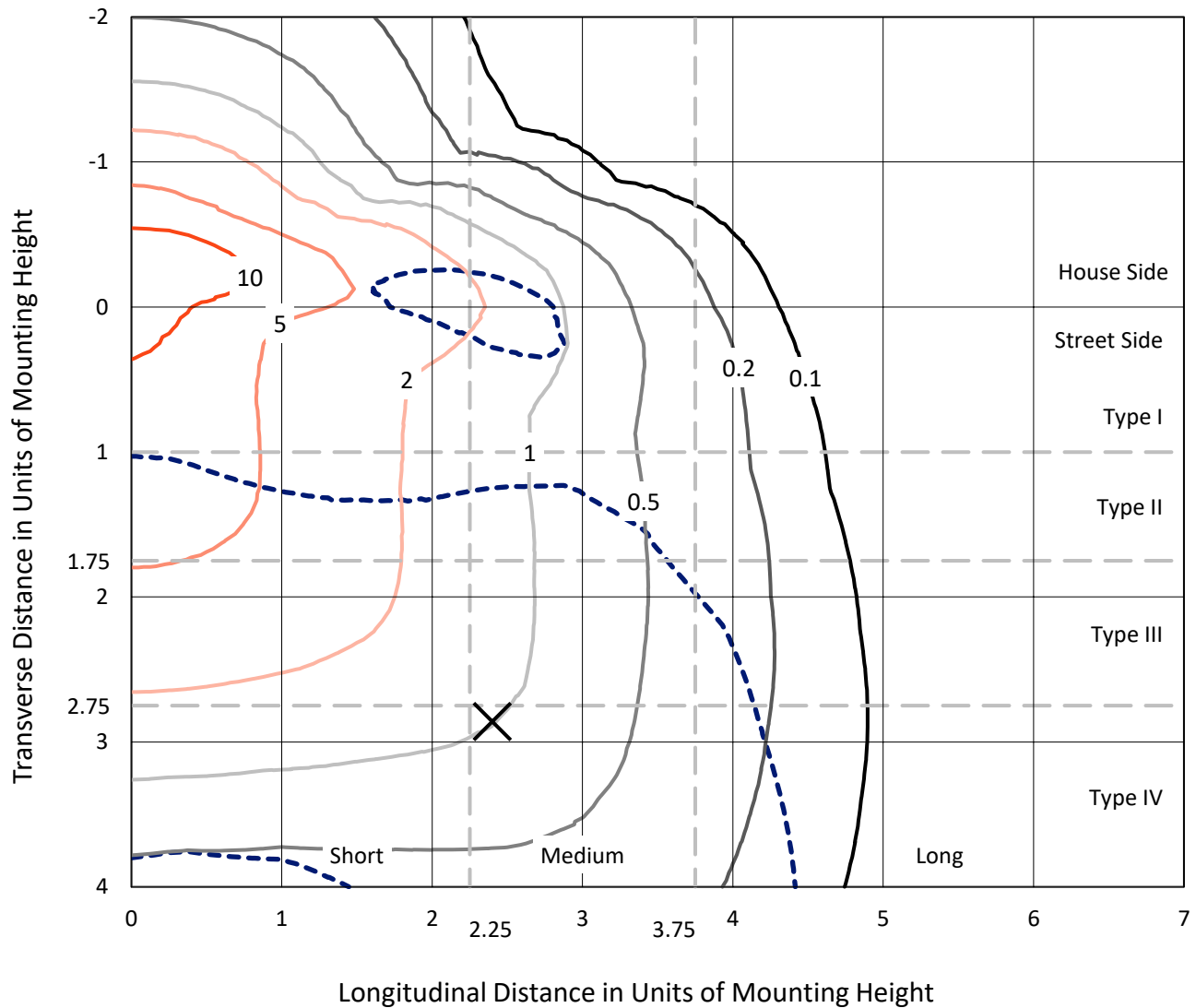


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

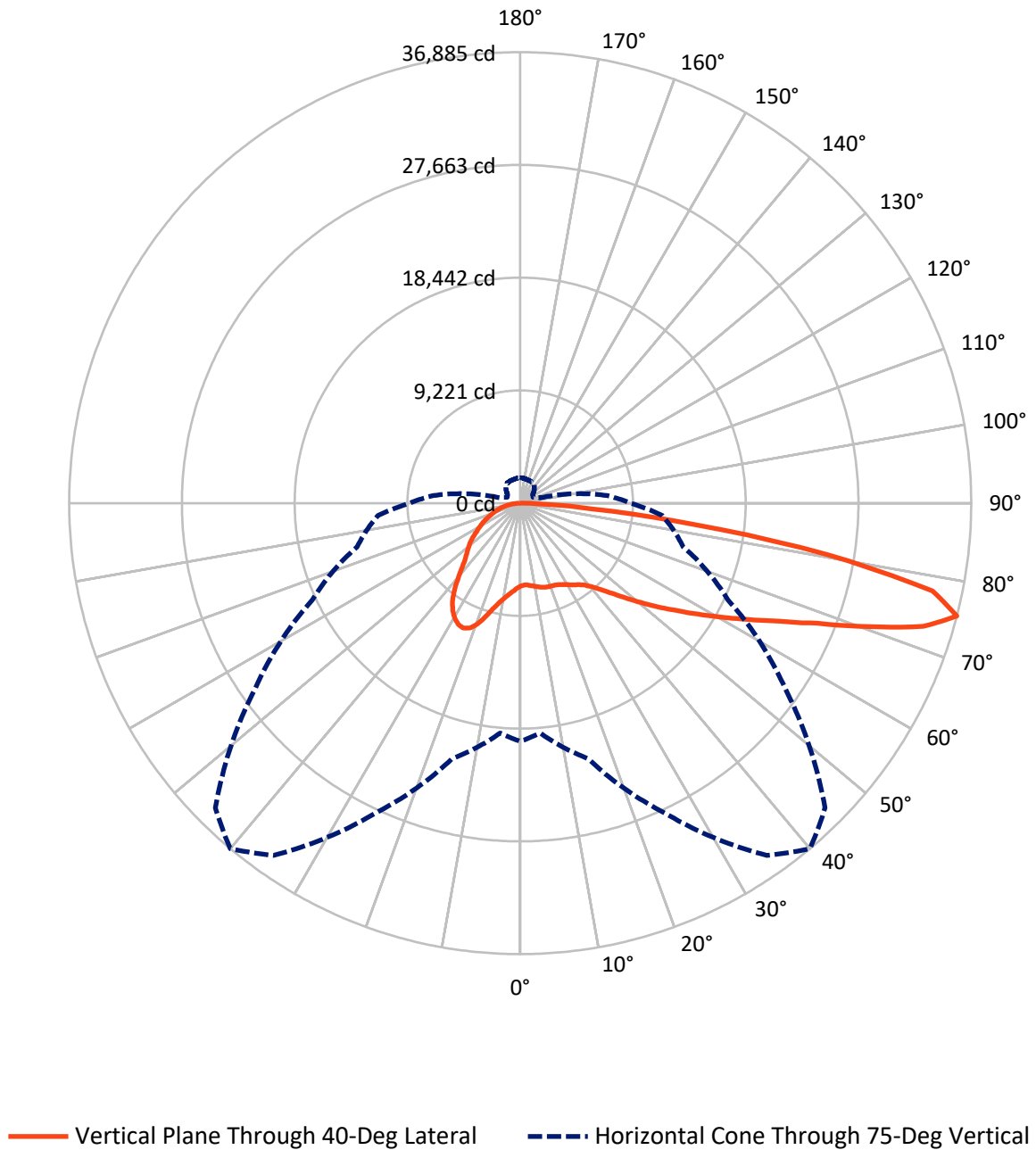


Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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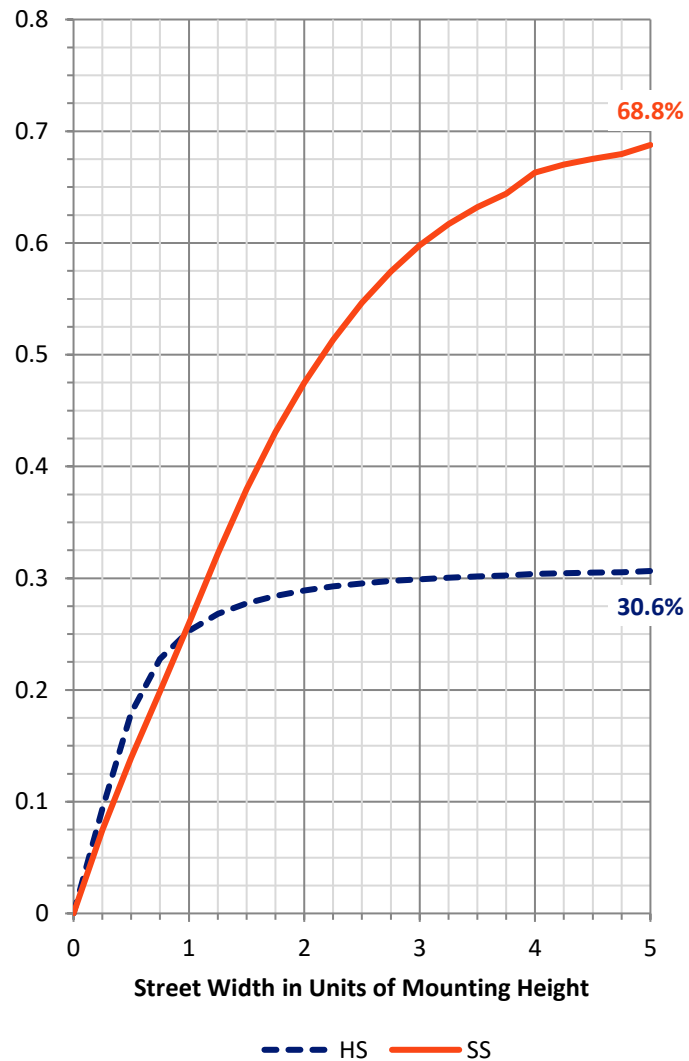
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18361.0	0.0	18361.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	40900.0	0.0	40900.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	59261.0	0.0	59261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.4	1.1
10°-20°	2271.1	3.8
20°-30°	4146.8	7.0
30°-40°	5881.3	9.9
40°-50°	7941.6	13.4
50°-60°	10683.5	18.0
60°-70°	13559.9	22.9
70°-80°	12306.4	20.8
80°-90°	1793.9	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°	59261.0	100.0
0°-180°	59261.0	100.0

Coefficient of Utilization



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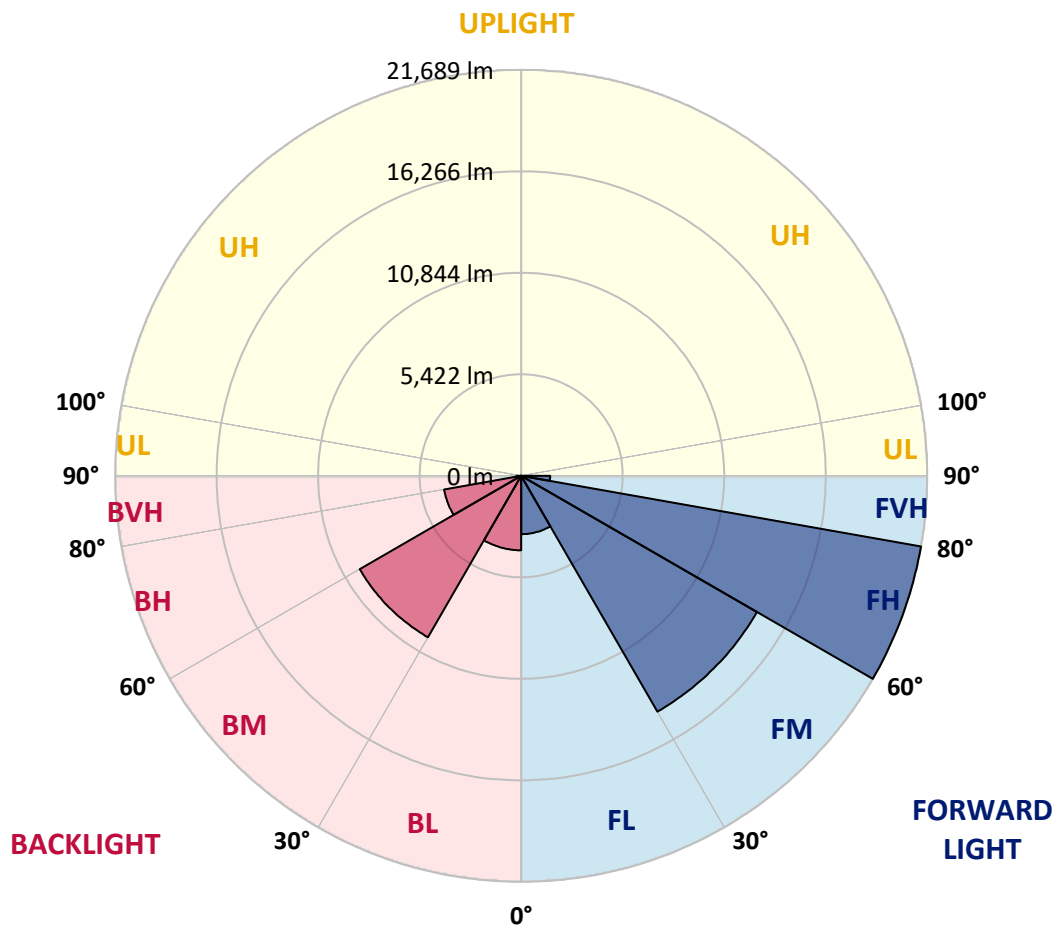
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3117.2	5.3			
FM	(30°-60°)	14547.2	24.5			
FH	(60°-80°)	21688.6	36.6			G5
FVH	(80°-90°)	1546.9	2.6			G5
BL	(0°-30°)	3977.2	6.7	B4/5000		
BM	(30°-60°)	9959.2	16.8	B5		
BH	(60°-80°)	4177.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	247.0	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°	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6
2.5°	6672.9	6710.6	6701.1	6688.6	6688.6	6691.7	6688.6	6710.6	6732.6	6754.6	6789.1
5°	6742.0	6779.7	6760.9	6745.1	6732.6	6729.4	6720.0	6716.9	6729.4	6757.7	6804.9
7.5°	6877.2	6914.9	6886.6	6858.3	6833.2	6820.6	6808.0	6789.1	6779.7	6795.4	6861.4
10°	7028.0	7065.7	7031.2	6980.9	6940.0	6924.3	6911.7	6892.9	6880.3	6889.7	6962.0
12.5°	7178.9	7216.6	7169.5	7100.3	7046.9	7037.5	7021.7	7015.5	7012.3	7009.2	7081.5
15°	7320.3	7351.8	7292.0	7210.3	7153.7	7138.0	7122.3	7131.7	7147.5	7166.3	7248.0
17.5°	7430.3	7461.8	7373.8	7266.9	7213.5	7207.2	7197.8	7229.2	7273.2	7320.3	7420.9
20°	7530.9	7562.4	7449.2	7304.6	7241.8	7241.8	7244.9	7310.9	7373.8	7442.9	7581.2
22.5°	7672.4	7697.5	7559.2	7361.2	7270.0	7276.3	7301.5	7367.5	7446.1	7540.4	7732.1
25°	7883.0	7901.8	7732.1	7468.1	7364.3	7383.2	7405.2	7436.6	7512.1	7622.1	7879.8
27.5°	8222.4	8238.1	8015.0	7656.6	7499.5	7530.9	7562.4	7540.4	7574.9	7669.2	7999.2
30°	8700.2	8709.6	8426.7	7952.1	7728.9	7744.7	7750.9	7659.8	7593.8	7669.2	8084.1
32.5°	9265.9	9262.8	8926.5	8310.4	7989.8	7974.1	7920.7	7741.5	7587.5	7653.5	8159.5
35°	10142.9	10108.3	9674.5	8813.3	8285.3	8187.8	8062.1	7832.7	7618.9	7637.8	8225.6
37.5°	11595.0	11488.1	10887.8	9636.8	8725.3	8477.0	8291.6	7980.4	7688.1	7631.5	8304.1
40°	13232.6	13097.4	12437.3	10765.2	9385.4	8986.2	8687.6	8191.0	7801.2	7659.8	8420.4
42.5°	15175.0	14983.3	14272.9	12094.7	10221.4	9643.1	9193.6	8458.1	7967.8	7750.9	8577.6
45°	17560.6	17306.0	16300.2	13594.0	11274.4	10504.3	9904.0	8863.6	8222.4	7927.0	8813.3
47.5°	19971.4	20034.3	18604.1	15310.2	12537.9	11566.7	10793.5	9473.4	8593.3	8209.8	9193.6
50°	22533.1	22577.1	20895.5	17211.7	13971.2	12767.4	11793.0	10155.4	9108.8	8612.2	9762.5
52.5°	24532.1	24538.4	22976.2	19201.3	15464.2	14087.5	12871.1	10934.9	9706.0	9146.5	10520.0
55°	25783.0	25767.3	24434.6	21084.1	17180.3	15473.6	14065.5	11821.3	10435.2	9775.1	11472.4
57.5°	26691.4	26644.3	25440.4	22702.8	19009.6	17111.2	15417.0	12827.1	11296.4	10523.2	12726.5
60°	27037.1	27008.9	26122.5	24101.5	20933.2	18921.6	16976.0	13952.3	12273.9	11406.4	14338.9
62.5°	27169.2	27222.6	26792.0	25456.2	22991.9	20926.9	18689.0	15297.6	13374.0	12405.9	16039.4
65°	27634.3	27731.8	27643.8	27228.9	25317.9	23274.8	20961.5	16897.4	14574.7	13477.7	17815.2
67.5°	28555.3	28652.7	28690.4	29350.5	28159.2	26201.1	23796.6	18890.2	15979.6	14590.4	19151.1
70°	28533.3	28505.0	29171.3	31038.3	31717.3	30252.6	27618.6	21341.8	17654.9	15514.5	19320.8
72.5°	25971.6	25745.3	27320.0	31019.5	34678.1	34483.2	32286.2	24503.8	19100.8	15627.6	16765.4
75°	19484.2	18880.7	21662.4	27954.9	35171.6	36884.6	35253.3	26465.1	18758.2	13807.7	11667.3
77.5°	8332.4	7725.8	11004.1	20694.3	31478.4	34480.1	32531.3	23089.4	14973.8	9130.8	5729.9
80°	2181.3	2178.2	3325.4	9382.2	21407.8	25462.4	22338.2	14911.0	8555.6	3262.6	1581.0
82.5°	902.1	880.1	1222.7	3649.2	10460.3	14288.6	11661.0	6650.8	3089.7	883.2	524.9
85°	336.3	333.2	594.1	1260.4	3690.0	5893.4	4265.2	1700.4	770.1	430.6	235.7
87.5°	94.3	91.2	128.9	436.9	898.9	1364.1	729.2	279.7	216.9	169.7	69.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6	6776.6
2.5°	6798.6	6814.3	6842.6	6864.6	6892.9	6924.3	6968.3	6996.6	7024.9	7043.7	7031.2
5°	6826.9	6861.4	6933.7	7006.0	7090.9	7169.5	7260.6	7326.6	7380.1	7395.8	7402.1
7.5°	6889.7	6946.3	7068.9	7191.5	7326.6	7455.5	7587.5	7700.7	7791.8	7826.4	7829.5
10°	6999.7	7075.2	7248.0	7420.9	7600.1	7798.1	7967.8	8131.3	8260.1	8313.6	8316.7
12.5°	7138.0	7232.3	7458.6	7697.5	7945.8	8219.3	8439.3	8640.4	8800.7	8873.0	8873.0
15°	7317.2	7439.8	7728.9	8049.5	8414.1	8794.5	9074.2	9297.4	9476.5	9564.5	9558.2
17.5°	7512.1	7675.5	8040.1	8524.2	9045.9	9545.7	9872.6	10036.0	10221.4	10306.3	10303.2
20°	7700.7	7901.8	8423.6	9127.6	9822.3	10353.4	10617.5	10661.5	10674.0	10683.5	10708.6
22.5°	7895.5	8165.8	8904.5	9888.3	10633.2	11000.9	11038.6	10850.1	10586.0	10463.5	10498.0
25°	8109.3	8467.6	9533.1	10727.5	11331.0	11375.0	11085.8	10626.9	10127.1	9897.7	9932.3
27.5°	8316.7	8816.5	10287.4	11529.0	11833.9	11447.3	10824.9	10174.3	9570.8	9328.8	9357.1
30°	8524.2	9215.6	11120.4	12229.9	12063.3	11268.1	10413.2	9687.1	9080.5	8825.9	8854.2
32.5°	8734.7	9680.8	12079.0	12735.9	12022.4	10887.8	9900.8	9140.2	8605.9	8338.7	8373.3
35°	8973.6	10252.9	12987.4	13012.5	11749.0	10328.3	9225.1	8486.4	8021.3	7807.5	7854.7
37.5°	9284.8	10978.9	13788.9	13081.7	11271.2	9507.9	8385.9	7713.2	7329.8	7232.3	7301.5
40°	9671.4	11852.7	14401.8	12971.7	10564.0	8511.6	7468.1	6930.6	6713.7	6735.7	6811.1
42.5°	10174.3	12830.2	14832.4	12688.8	9580.2	7483.8	6663.4	6424.5	6528.3	6616.3	6698.0
45°	10828.1	13845.5	15099.6	12207.9	8467.6	6613.1	6188.8	6245.4	6324.0	6333.4	6396.3
47.5°	11664.1	14873.3	15275.6	11481.8	7332.9	6000.2	5887.1	5899.6	5883.9	5817.9	5868.2
50°	12707.6	15872.8	15432.7	10520.0	6368.0	5616.8	5465.9	5421.9	5205.0	4991.3	5019.6
52.5°	13895.7	16790.6	15498.7	9325.6	5616.8	5296.2	5051.0	4774.4	4368.9	4302.9	4324.9
55°	15215.9	17639.2	15329.0	7857.8	4985.0	4884.4	4513.5	4180.4	4136.4	4079.8	4089.2
57.5°	16793.7	18553.9	14983.3	6220.2	4337.5	4403.5	4042.1	4079.8	4001.2	3913.2	3897.5
60°	18519.3	19499.9	14376.6	4727.3	3668.0	3803.2	3919.5	3916.3	3894.3	3822.0	3796.9
62.5°	20072.0	20122.3	13182.3	3620.9	3080.3	3338.0	3655.5	3652.3	3633.5	3592.6	3576.9
65°	20996.1	20028.0	11189.5	2850.8	2596.2	2954.5	3297.1	3322.3	3325.4	3322.3	3322.3
67.5°	20832.6	18924.7	8455.0	2269.3	2197.0	2564.8	2942.0	2976.5	3001.7	3008.0	3014.3
70°	18984.5	16501.4	5513.0	1810.4	1841.9	2222.2	2605.6	2640.2	2662.2	2687.4	2699.9
72.5°	14797.8	12132.5	3155.7	1464.7	1530.7	1926.7	2272.5	2313.3	2325.9	2373.1	2391.9
75°	9017.6	7134.9	1703.6	1153.5	1257.2	1647.0	1942.5	1989.6	2011.6	2068.2	2074.5
77.5°	4287.2	3089.7	971.2	898.9	1012.1	1345.3	1640.7	1694.1	1634.4	1665.9	1640.7
80°	1449.0	1147.2	612.9	685.2	773.2	1049.8	1313.8	1367.3	1241.5	1235.2	1222.7
82.5°	506.0	465.2	389.7	455.8	499.8	751.2	993.2	1062.4	924.1	920.9	876.9
85°	198.0	188.6	216.9	248.3	298.6	462.0	653.8	688.3	568.9	458.9	452.6
87.5°	40.9	44.0	53.4	56.6	91.2	160.3	235.7	289.2	229.4	194.9	179.2
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)