

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: P943322

Luminaire Tested: **GALN-SB7D-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943322
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-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 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: 71736 lumens
Efficiency: N/A
Efficacy: 139.9 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

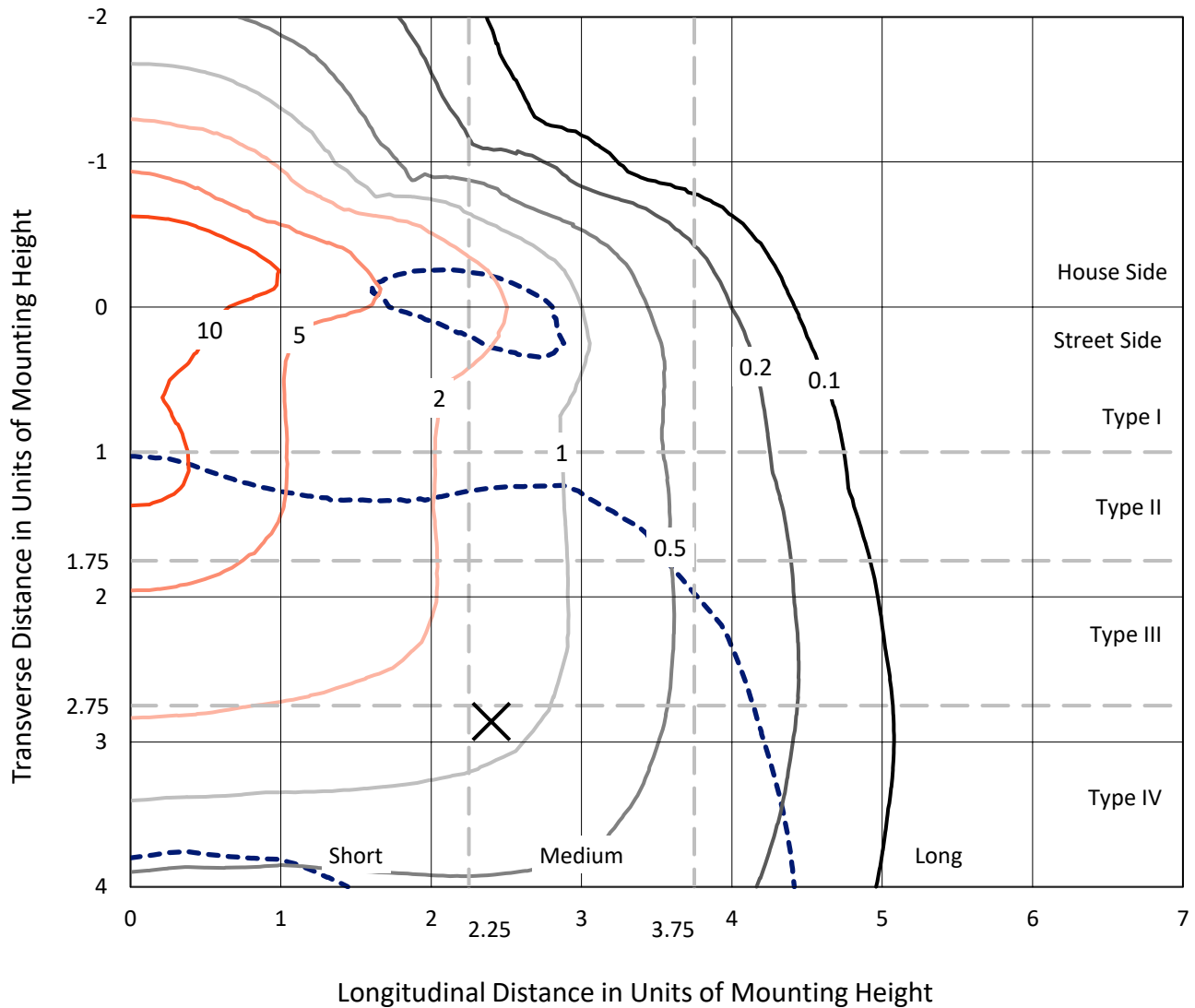


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

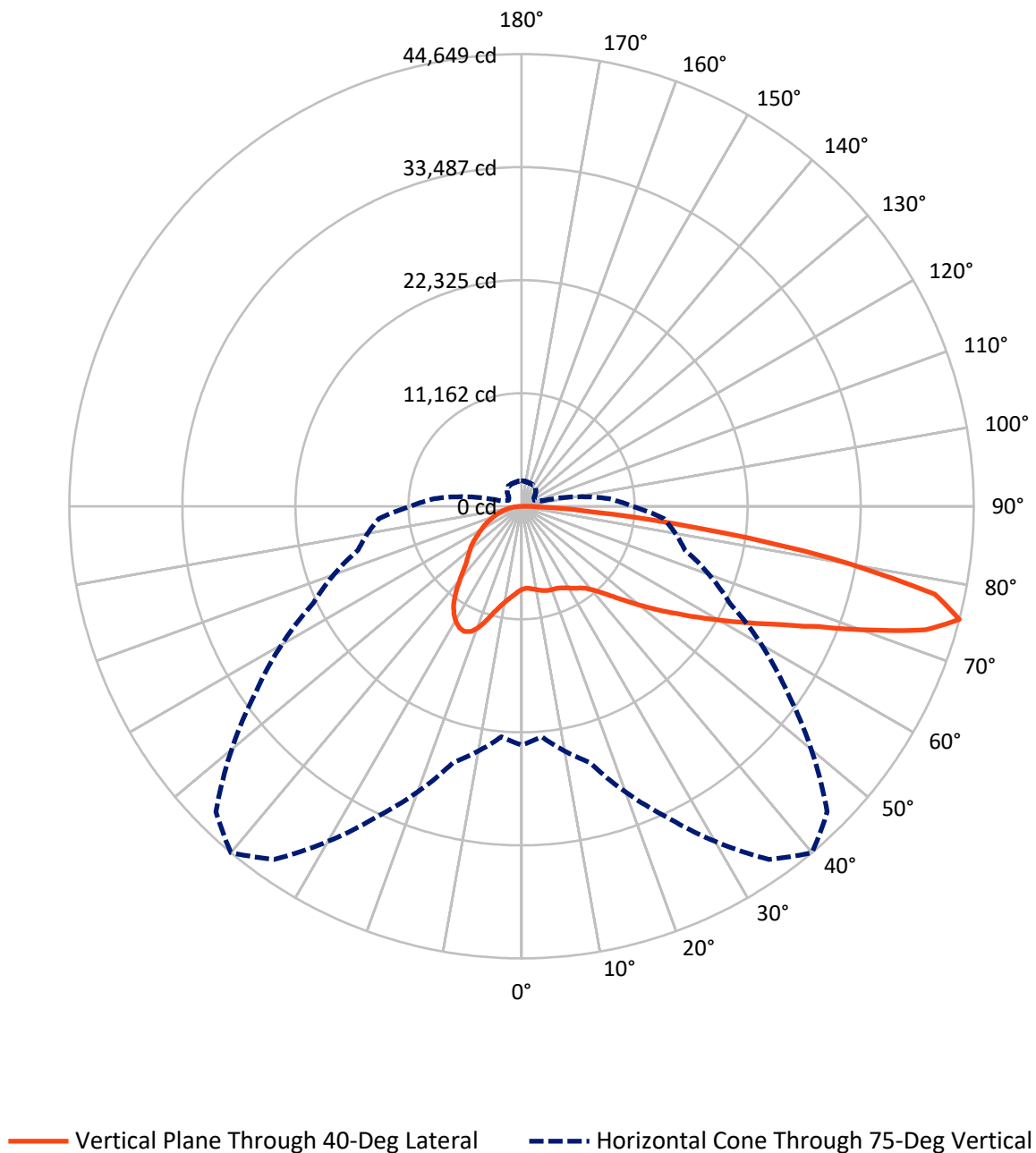


Based on 25 foot mounting height. Maximum calculated value = 17 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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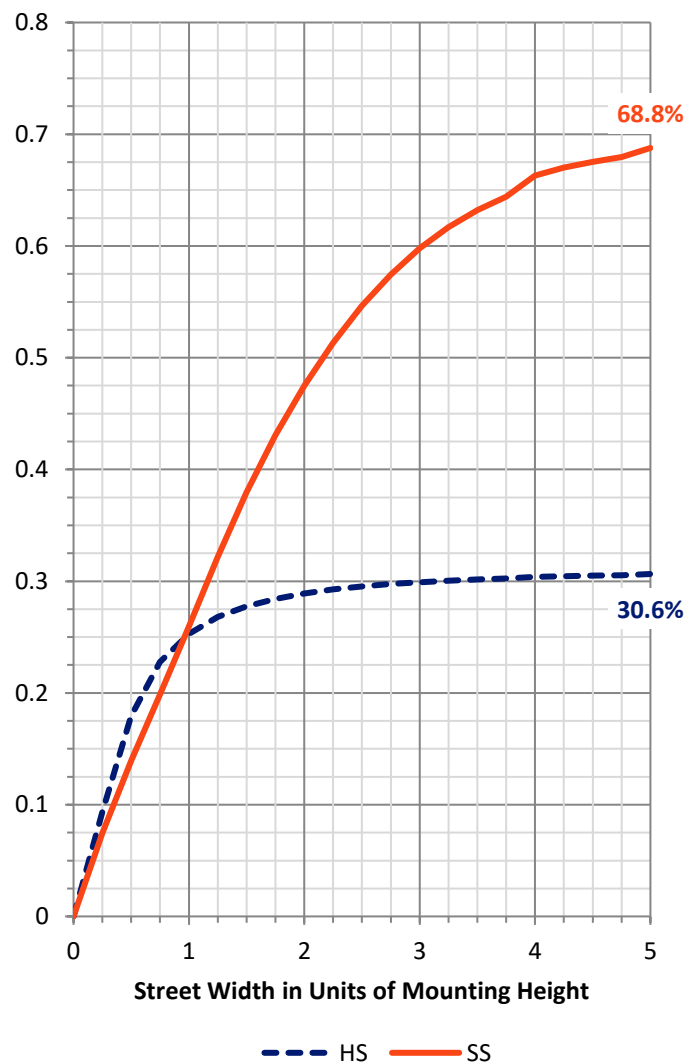
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22226.2	0.0	22226.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	49509.8	0.0	49509.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	71736.0	0.0	71736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.8	1.1
10°-20°	2749.2	3.8
20°-30°	5019.8	7.0
30°-40°	7119.4	9.9
40°-50°	9613.4	13.4
50°-60°	12932.5	18.0
60°-70°	16414.4	22.9
70°-80°	14897.0	20.8
80°-90°	2171.5	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°	71736.0	100.0
0°-180°	71736.0	100.0

Coefficient of Utilization



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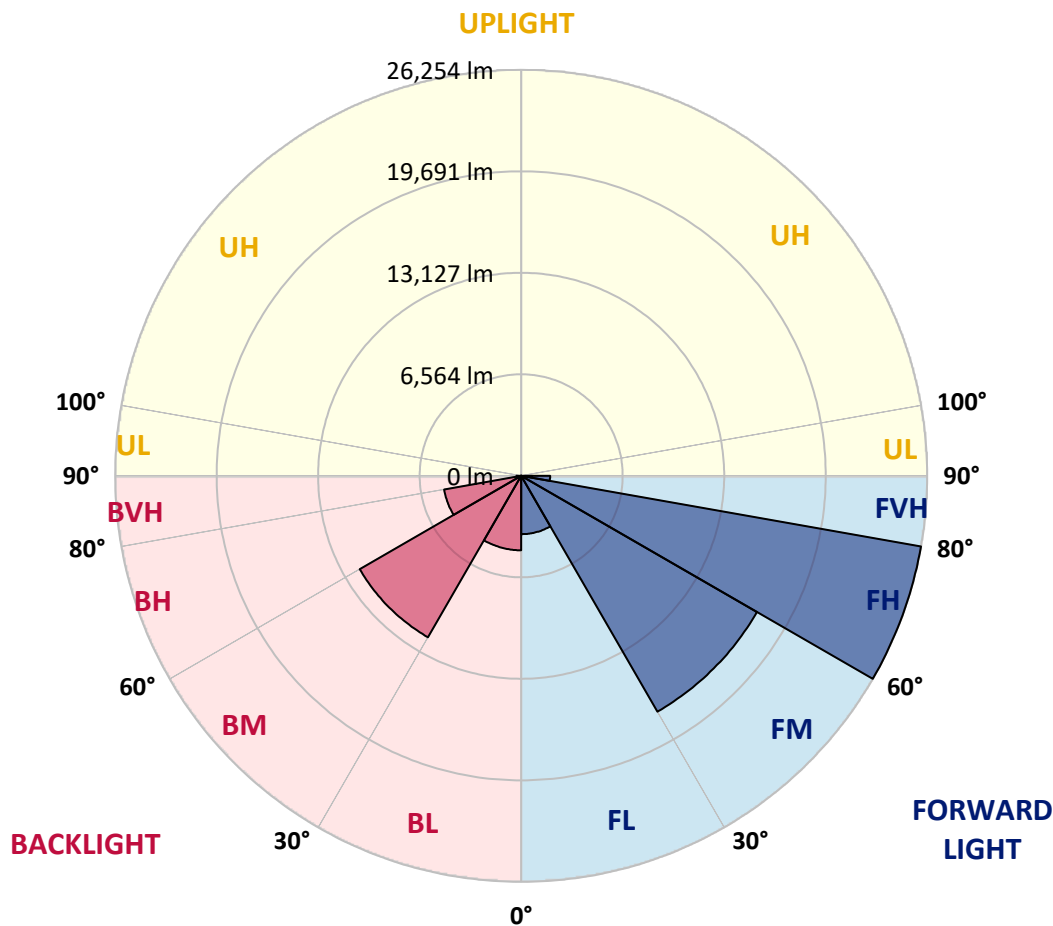
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3773.4	5.3			
FM	(30°-60°)	17609.6	24.5			
FH	(60°-80°)	26254.3	36.6			G5
FVH	(80°-90°)	1872.6	2.6			G5
BL	(0°-30°)	4814.4	6.7	B4/5000		
BM	(30°-60°)	12055.7	16.8	B5		
BH	(60°-80°)	5057.1	7.0	B5		G5
BVH	(80°-90°)	299.0	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°	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1
2.5°	8077.5	8123.2	8111.8	8096.6	8096.6	8100.4	8096.6	8123.2	8149.8	8176.5	8218.3
5°	8161.3	8206.9	8184.1	8165.1	8149.8	8146.0	8134.6	8130.8	8146.0	8180.3	8237.4
7.5°	8324.9	8370.5	8336.3	8302.0	8271.6	8256.4	8241.2	8218.3	8206.9	8225.9	8305.8
10°	8507.5	8553.1	8511.3	8450.4	8401.0	8381.9	8366.7	8343.9	8328.7	8340.1	8427.6
12.5°	8690.1	8735.8	8678.7	8595.0	8530.3	8518.9	8499.9	8492.3	8488.5	8484.7	8572.2
15°	8861.3	8899.4	8827.1	8728.2	8659.7	8640.7	8621.6	8633.0	8652.1	8674.9	8773.8
17.5°	8994.5	9032.5	8926.0	8796.7	8732.0	8724.4	8712.9	8751.0	8804.3	8861.3	8983.1
20°	9116.3	9154.3	9017.3	8842.3	8766.2	8766.2	8770.0	8849.9	8926.0	9009.7	9177.1
22.5°	9287.5	9317.9	9150.5	8910.8	8800.5	8808.1	8838.5	8918.4	9013.5	9127.7	9359.8
25°	9542.4	9565.2	9359.8	9040.2	8914.6	8937.4	8964.1	9002.1	9093.4	9226.6	9538.6
27.5°	9953.3	9972.3	9702.2	9268.4	9078.2	9116.3	9154.3	9127.7	9169.5	9283.7	9683.2
30°	10531.6	10543.0	10200.6	9626.1	9356.0	9375.0	9382.6	9272.3	9192.4	9283.7	9785.9
32.5°	11216.5	11212.7	10805.6	10059.8	9671.8	9652.7	9588.0	9371.2	9184.7	9264.6	9877.2
35°	12278.0	12236.2	11711.1	10668.6	10029.4	9911.5	9759.3	9481.5	9222.8	9245.6	9957.1
37.5°	14035.8	13906.5	13179.8	11665.5	10562.1	10261.5	10037.0	9660.3	9306.5	9238.0	10052.2
40°	16018.1	15854.5	15055.5	13031.4	11361.1	10877.9	10516.4	9915.3	9443.5	9272.3	10193.0
42.5°	18369.5	18137.4	17277.5	14640.8	12373.1	11673.1	11129.0	10238.7	9645.1	9382.6	10383.2
45°	21257.3	20949.1	19731.6	16455.7	13647.7	12715.6	11988.9	10729.5	9953.3	9595.7	10668.6
47.5°	24175.6	24251.7	22520.5	18533.1	15177.3	14001.6	13065.6	11467.6	10402.3	9938.1	11129.0
50°	27276.5	27329.7	25294.2	20835.0	16912.3	15455.0	14275.5	12293.2	11026.3	10425.1	11817.6
52.5°	29696.3	29703.9	27812.9	23243.4	18719.5	17053.0	15580.6	13236.8	11749.2	11071.9	12734.6
55°	31210.6	31191.6	29578.4	25522.5	20796.9	18730.9	17026.4	14309.8	12631.9	11832.9	13887.4
57.5°	32310.2	32253.1	30795.9	27481.9	23011.3	20713.2	18662.4	15527.3	13674.4	12738.4	15405.6
60°	32728.7	32694.5	31621.5	29175.1	25339.8	22904.8	20549.6	16889.4	14857.7	13807.5	17357.4
62.5°	32888.5	32953.2	32432.0	30814.9	27832.0	25332.2	22623.2	18517.9	16189.3	15017.5	19415.8
65°	33451.6	33569.6	33463.0	32960.8	30647.5	28174.4	25374.1	20454.5	17642.8	16314.9	21565.5
67.5°	34566.4	34684.4	34730.0	35529.0	34087.0	31716.7	28806.0	22866.7	19343.5	17661.8	23182.5
70°	34539.8	34505.6	35312.2	37572.2	38394.0	36621.0	33432.6	25834.5	21371.5	18780.4	23388.0
72.5°	31438.9	31165.0	33071.2	37549.4	41978.1	41742.2	39082.7	29662.1	23121.7	18917.4	20294.7
75°	23585.8	22855.3	26222.5	33839.7	42575.5	44649.1	42674.4	32036.3	22706.9	16714.4	14123.3
77.5°	10086.5	9352.2	13320.5	25050.7	38104.9	41738.4	39379.5	27949.9	18126.0	11052.9	6936.1
80°	2640.5	2636.7	4025.5	11357.3	25914.4	30822.5	27040.6	18049.9	10356.6	3949.4	1913.8
82.5°	1092.0	1065.3	1480.1	4417.4	12662.3	17296.5	14115.7	8050.9	3740.1	1069.1	635.4
85°	407.1	403.3	719.1	1525.7	4466.8	7134.0	5163.1	2058.4	932.2	521.3	285.4
87.5°	114.1	110.3	156.0	528.9	1088.2	1651.3	882.7	338.6	262.5	205.5	83.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1	8203.1
2.5°	8229.7	8248.8	8283.0	8309.6	8343.9	8381.9	8435.2	8469.4	8503.7	8526.5	8511.3
5°	8264.0	8305.8	8393.3	8480.9	8583.6	8678.7	8789.0	8868.9	8933.6	8952.6	8960.3
7.5°	8340.1	8408.6	8557.0	8705.3	8868.9	9024.9	9184.7	9321.7	9432.1	9473.9	9477.7
10°	8473.2	8564.6	8773.8	8983.1	9200.0	9439.7	9645.1	9843.0	9999.0	10063.6	10067.4
12.5°	8640.7	8754.8	9028.7	9317.9	9618.5	9949.5	10215.8	10459.3	10653.4	10740.9	10740.9
15°	8857.5	9005.9	9356.0	9744.0	10185.4	10645.8	10984.4	11254.5	11471.4	11577.9	11570.3
17.5°	9093.4	9291.3	9732.6	10318.6	10950.2	11555.1	11950.8	12148.7	12373.1	12475.9	12472.1
20°	9321.7	9565.2	10196.8	11049.1	11889.9	12532.9	12852.5	12905.8	12921.0	12932.4	12962.9
22.5°	9557.6	9884.8	10778.9	11969.8	12871.6	13316.7	13362.4	13134.1	12814.5	12666.1	12708.0
25°	9816.3	10250.1	11539.9	12985.7	13716.2	13769.5	13419.5	12864.0	12259.0	11981.3	12023.1
27.5°	10067.4	10672.4	12453.0	13955.9	14325.0	13857.0	13103.7	12316.1	11585.6	11292.6	11326.8
30°	10318.6	11155.6	13461.3	14804.4	14602.7	13640.1	12605.2	11726.3	10992.0	10683.8	10718.1
32.5°	10573.5	11718.7	14621.8	15417.0	14553.3	13179.8	11985.1	11064.3	10417.5	10094.1	10135.9
35°	10862.6	12411.2	15721.4	15751.8	14222.3	12502.5	11167.0	10272.9	9709.8	9451.1	9508.1
37.5°	11239.3	13290.1	16691.6	15835.5	13643.9	11509.5	10151.2	9336.9	8872.7	8754.8	8838.5
40°	11707.3	14347.8	17433.5	15702.3	12787.9	10303.3	9040.2	8389.5	8127.0	8153.6	8245.0
42.5°	12316.1	15531.1	17954.8	15359.9	11597.0	9059.2	8066.1	7777.0	7902.5	8009.1	8108.0
45°	13107.5	16760.1	18278.2	14777.8	10250.1	8005.3	7491.6	7560.1	7655.2	7666.6	7742.7
47.5°	14119.5	18004.2	18491.2	13898.9	8876.6	7263.3	7126.4	7141.6	7122.5	7042.6	7103.5
50°	15382.7	19214.1	18681.5	12734.6	7708.5	6799.1	6616.5	6563.2	6300.7	6042.0	6076.2
52.5°	16820.9	20325.1	18761.4	11288.8	6799.1	6411.1	6114.3	5779.5	5288.6	5208.7	5235.4
55°	18418.9	21352.4	18555.9	9512.0	6034.4	5912.6	5463.7	5060.4	5007.1	4938.6	4950.0
57.5°	20328.9	22459.6	18137.4	7529.7	5250.6	5330.5	4892.9	4938.6	4843.5	4737.0	4717.9
60°	22417.8	23604.9	17403.1	5722.4	4440.2	4603.8	4744.6	4740.8	4714.1	4626.6	4596.2
62.5°	24297.3	24358.2	15957.3	4383.1	3728.7	4040.7	4425.0	4421.2	4398.3	4348.9	4329.8
65°	25415.9	24244.1	13545.0	3450.9	3142.7	3576.5	3991.2	4021.7	4025.5	4021.7	4021.7
67.5°	25218.1	22908.6	10234.9	2747.1	2659.5	3104.7	3561.3	3603.1	3633.6	3641.2	3648.8
70°	22980.9	19975.1	6673.6	2191.6	2229.6	2690.0	3154.2	3196.0	3222.6	3253.1	3268.3
72.5°	17912.9	14686.5	3820.0	1773.0	1852.9	2332.3	2750.9	2800.3	2815.5	2872.6	2895.4
75°	10915.9	8636.9	2062.2	1396.4	1521.9	1993.7	2351.4	2408.4	2435.1	2503.5	2511.2
77.5°	5189.7	3740.1	1175.7	1088.2	1225.1	1628.4	1986.1	2050.8	1978.5	2016.5	1986.1
80°	1754.0	1388.7	741.9	829.4	936.0	1270.8	1590.4	1655.1	1502.9	1495.3	1480.1
82.5°	612.6	563.1	471.8	551.7	605.0	909.3	1202.3	1286.0	1118.6	1114.8	1061.5
85°	239.7	228.3	262.5	300.6	361.5	559.3	791.4	833.2	688.7	555.5	547.9
87.5°	49.5	53.3	64.7	68.5	110.3	194.0	285.4	350.0	277.7	235.9	216.9
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)