

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: P941962

Luminaire Tested: **GALN-SB5D-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941962
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-SB5D-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 50955 lumens
Efficiency: N/A
Efficacy: 139.6 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): 364.9
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



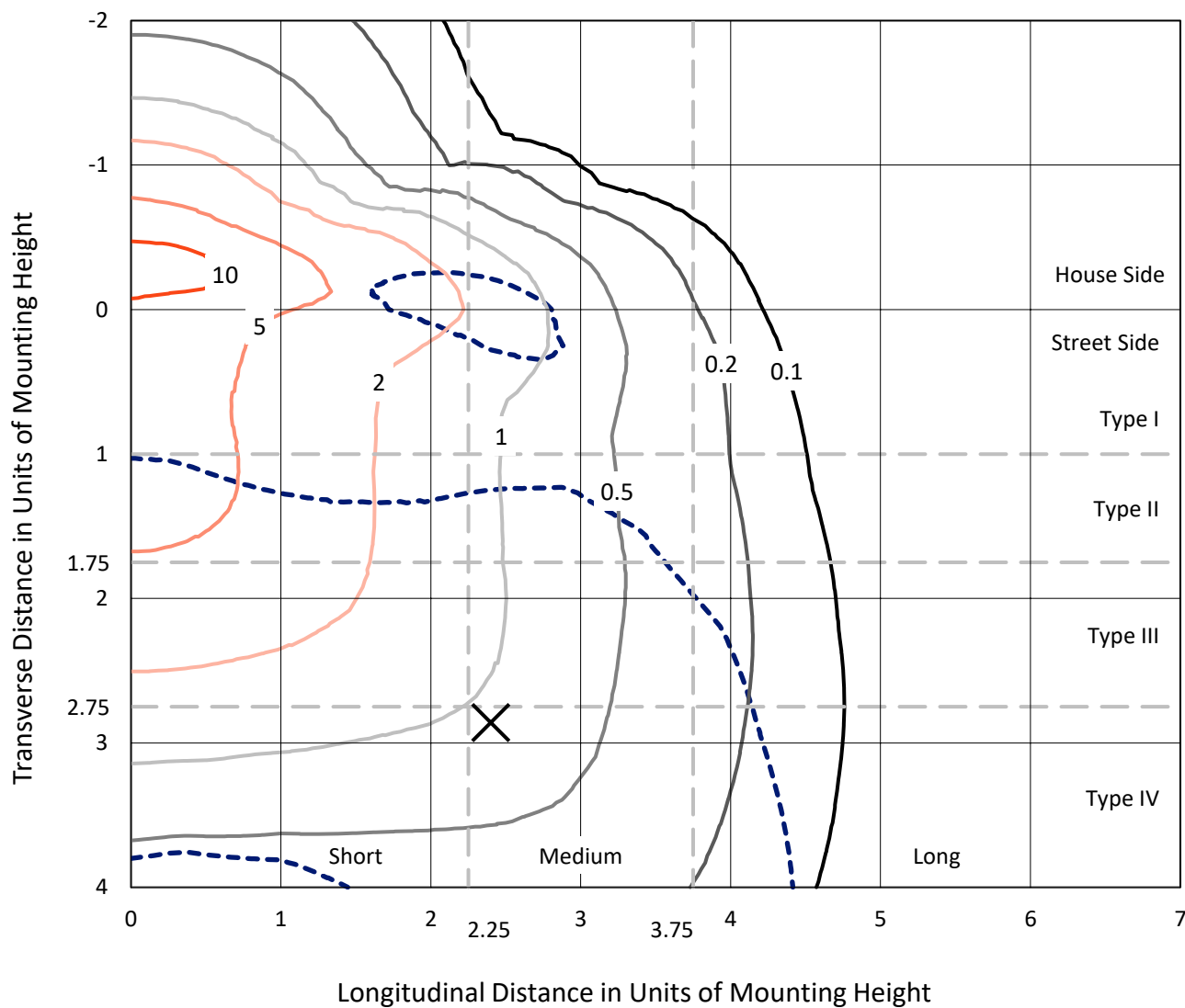
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

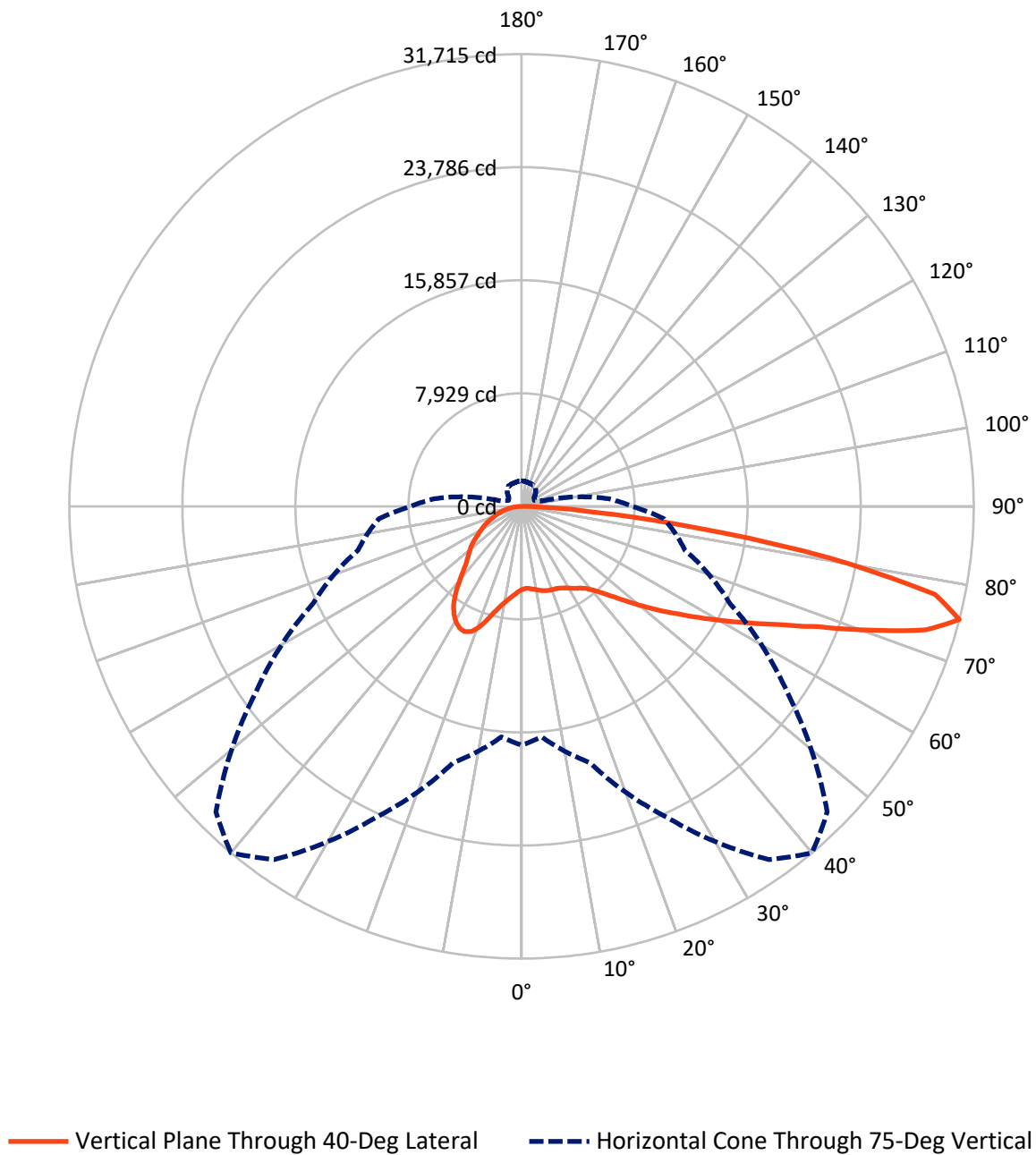


Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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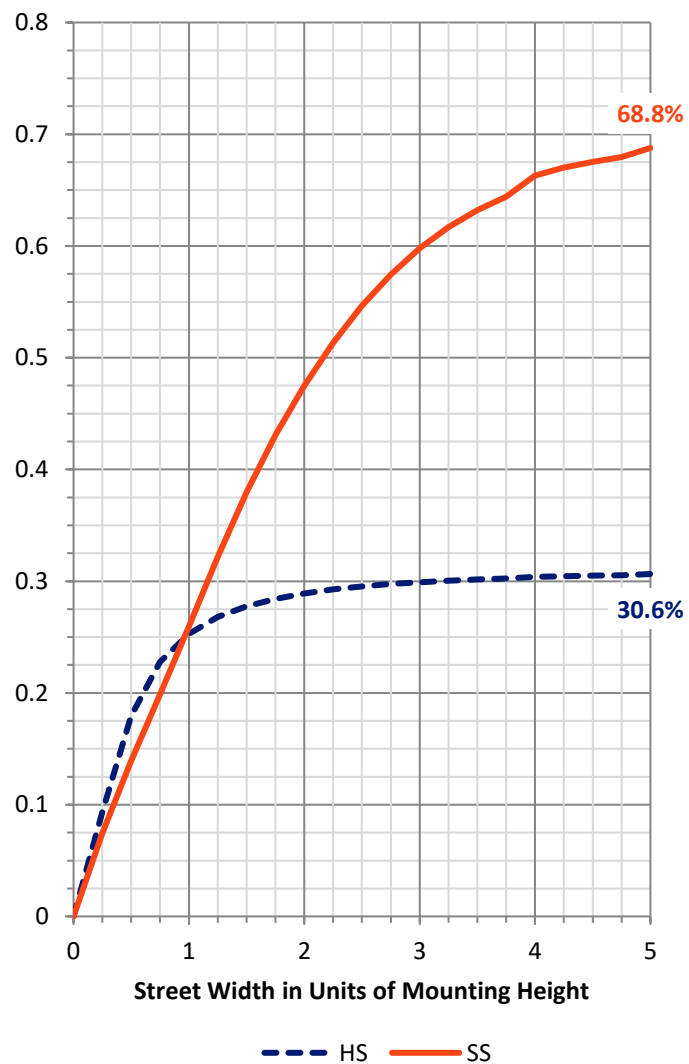
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15787.6	0.0	15787.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	35167.4	0.0	35167.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	50955.0	0.0	50955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.6	1.1
10°-20°	1952.8	3.8
20°-30°	3565.6	7.0
30°-40°	5057.0	9.9
40°-50°	6828.5	13.4
50°-60°	9186.1	18.0
60°-70°	11659.3	22.9
70°-80°	10581.6	20.8
80°-90°	1542.5	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°	50955.0	100.0
0°-180°	50955.0	100.0

Coefficient of Utilization



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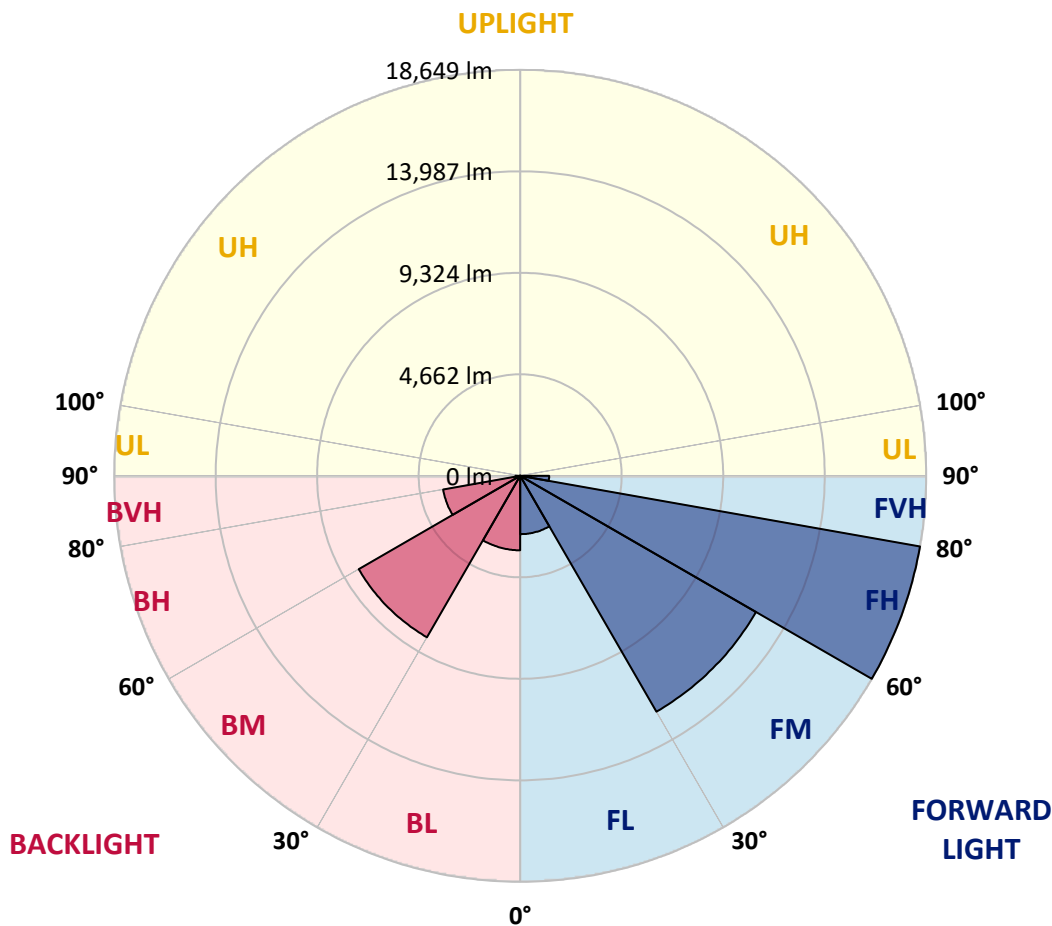
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2680.3	5.3			
FM	(30°-60°)	12508.3	24.5			
FH	(60°-80°)	18648.7	36.6			G5
FVH	(80°-90°)	1330.1	2.6			G5
BL	(0°-30°)	3419.7	6.7	B4/5000		
BM	(30°-60°)	8563.3	16.8	B5		
BH	(60°-80°)	3592.1	7.0	B4/5000		G4/5000
BVH	(80°-90°)	212.4	0.4			G2/225
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°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
2.5°	5737.6	5770.0	5761.9	5751.1	5751.1	5753.8	5751.1	5770.0	5788.9	5807.9	5837.6
5°	5797.0	5829.5	5813.3	5799.7	5788.9	5786.2	5778.1	5775.4	5786.2	5810.6	5851.1
7.5°	5913.3	5945.7	5921.4	5897.0	5875.4	5864.6	5853.8	5837.6	5829.5	5843.0	5899.7
10°	6043.0	6075.4	6045.7	6002.4	5967.3	5953.8	5943.0	5926.8	5916.0	5924.1	5986.2
12.5°	6172.7	6205.1	6164.6	6105.1	6059.2	6051.1	6037.6	6032.2	6029.5	6026.8	6088.9
15°	6294.3	6321.3	6270.0	6199.7	6151.1	6137.6	6124.1	6132.2	6145.7	6161.9	6232.2
17.5°	6388.9	6415.9	6340.3	6248.4	6202.4	6197.0	6188.9	6215.9	6253.8	6294.3	6380.8
20°	6475.4	6502.4	6405.1	6280.8	6226.8	6226.8	6229.5	6286.2	6340.3	6399.7	6518.6
22.5°	6597.0	6618.6	6499.7	6329.5	6251.1	6256.5	6278.1	6334.9	6402.4	6483.5	6648.4
25°	6778.1	6794.3	6648.4	6421.3	6332.2	6348.4	6367.3	6394.3	6459.2	6553.8	6775.4
27.5°	7070.0	7083.5	6891.6	6583.5	6448.4	6475.4	6502.4	6483.5	6513.2	6594.3	6878.1
30°	7480.8	7488.9	7245.6	6837.5	6645.7	6659.2	6664.6	6586.2	6529.4	6594.3	6951.0
32.5°	7967.2	7964.5	7675.3	7145.6	6870.0	6856.5	6810.5	6656.5	6524.0	6580.8	7015.9
35°	8721.2	8691.5	8318.6	7578.0	7124.0	7040.2	6932.1	6734.8	6551.1	6567.3	7072.7
37.5°	9969.8	9877.9	9361.8	8286.1	7502.4	7288.9	7129.4	6861.9	6610.5	6561.9	7140.2
40°	11377.9	11261.7	10694.1	9256.4	8069.9	7726.7	7469.9	7042.9	6707.8	6586.2	7240.2
42.5°	13048.1	12883.2	12272.4	10399.5	8788.8	8291.5	7905.1	7272.7	6851.1	6664.6	7375.4
45°	15099.3	14880.4	14015.6	11688.7	9694.2	9032.0	8515.8	7621.3	7070.0	6815.9	7578.0
47.5°	17172.2	17226.3	15996.6	13164.3	10780.6	9945.5	9280.7	8145.6	7388.9	7059.2	7905.1
50°	19374.8	19412.7	17966.8	14799.4	12013.0	10977.9	10140.1	8732.1	7832.1	7405.1	8394.2
52.5°	21093.7	21099.1	19755.9	16510.1	13296.7	12113.0	11067.1	9402.3	8345.6	7864.5	9045.6
55°	22169.3	22155.8	21009.9	18128.9	14772.3	13304.8	12094.1	10164.4	8972.6	8405.0	9864.4
57.5°	22950.3	22909.8	21874.7	19520.8	16345.2	14712.9	13256.2	11029.2	9713.1	9048.3	10942.8
60°	23247.6	23223.3	22461.2	20723.4	17999.2	16269.6	14596.7	11996.8	10553.6	9807.7	12329.2
62.5°	23361.1	23407.1	23036.8	21888.2	19769.4	17993.8	16069.6	13153.5	11499.5	10667.1	13791.3
65°	23761.1	23844.9	23769.2	23412.5	21769.3	20012.6	18023.5	14529.1	12531.9	11588.7	15318.2
67.5°	24553.0	24636.8	24669.2	25236.7	24212.5	22528.7	20461.3	16242.5	13739.9	12545.4	16466.8
70°	24534.1	24509.7	25082.7	26688.0	27271.8	26012.4	23747.6	18350.5	15180.4	13340.0	16612.8
72.5°	22331.5	22136.9	23490.9	26671.8	29817.6	29650.1	27760.9	21069.3	16423.6	13437.3	14415.6
75°	16753.3	16234.4	18626.2	24036.8	30241.9	31714.8	30312.2	22755.8	16129.0	11872.5	10032.0
77.5°	7164.6	6643.0	9461.7	17793.8	27066.4	29647.4	27971.7	19853.2	12875.1	7851.0	4926.8
80°	1875.6	1872.9	2859.3	8067.2	18407.3	21893.6	19207.3	12821.1	7356.4	2805.3	1359.4
82.5°	775.6	756.7	1051.3	3137.7	8994.2	12285.9	10026.6	5718.7	2656.6	759.4	451.3
85°	289.2	286.5	510.8	1083.7	3172.8	5067.3	3667.4	1462.1	662.1	370.3	202.7
87.5°	81.1	78.4	110.8	375.7	772.9	1172.9	627.0	240.5	186.5	145.9	59.5
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°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
2.5°	5845.7	5859.2	5883.5	5902.4	5926.8	5953.8	5991.6	6016.0	6040.3	6056.5	6045.7
5°	5870.0	5899.7	5961.9	6024.1	6097.0	6164.6	6243.0	6299.7	6345.7	6359.2	6364.6
7.5°	5924.1	5972.7	6078.1	6183.5	6299.7	6410.5	6524.0	6621.3	6699.7	6729.4	6732.1
10°	6018.7	6083.5	6232.2	6380.8	6534.8	6705.1	6851.1	6991.6	7102.4	7148.3	7151.0
12.5°	6137.6	6218.6	6413.2	6618.6	6832.1	7067.3	7256.4	7429.4	7567.2	7629.4	7629.4
15°	6291.6	6397.0	6645.7	6921.3	7234.8	7561.8	7802.4	7994.2	8148.3	8224.0	8218.6
17.5°	6459.2	6599.7	6913.2	7329.4	7778.0	8207.7	8488.8	8629.4	8788.8	8861.8	8859.1
20°	6621.3	6794.3	7242.9	7848.3	8445.6	8902.3	9129.3	9167.2	9178.0	9186.1	9207.7
22.5°	6788.9	7021.3	7656.4	8502.3	9142.8	9459.0	9491.5	9329.3	9102.3	8996.9	9026.6
25°	6972.7	7280.8	8196.9	9223.9	9742.8	9780.7	9532.0	9137.4	8707.7	8510.4	8540.2
27.5°	7151.0	7580.7	8845.6	9913.1	10175.2	9842.8	9307.7	8748.3	8229.4	8021.3	8045.6
30°	7329.4	7924.0	9561.7	10515.8	10372.5	9688.8	8953.7	8329.4	7807.8	7588.9	7613.2
32.5°	7510.5	8324.0	10386.0	10950.9	10337.4	9361.8	8513.1	7859.1	7399.7	7170.0	7199.7
35°	7715.9	8815.8	11167.1	11188.7	10102.3	8880.7	7932.1	7297.0	6897.0	6713.2	6753.8
37.5°	7983.4	9440.1	11856.2	11248.2	9691.5	8175.3	7210.5	6632.1	6302.4	6218.6	6278.1
40°	8315.9	10191.4	12383.2	11153.6	9083.4	7318.6	6421.3	5959.2	5772.7	5791.6	5856.5
42.5°	8748.3	11031.9	12753.5	10910.3	8237.5	6434.9	5729.5	5524.1	5613.3	5688.9	5759.2
45°	9310.4	11904.9	12983.2	10496.8	7280.8	5686.2	5321.4	5370.0	5437.6	5445.7	5499.8
47.5°	10029.3	12788.6	13134.6	9872.5	6305.1	5159.2	5061.9	5072.8	5059.2	5002.5	5045.7
50°	10926.5	13648.1	13269.7	9045.6	5475.4	4829.5	4699.8	4662.0	4475.5	4291.7	4316.0
52.5°	11948.1	14437.2	13326.4	8018.6	4829.5	4553.9	4343.1	4105.2	3756.6	3699.8	3718.8
55°	13083.2	15166.9	13180.5	6756.5	4286.3	4199.8	3880.9	3594.4	3556.6	3508.0	3516.1
57.5°	14439.9	15953.4	12883.2	5348.4	3729.6	3786.3	3475.5	3508.0	3440.4	3364.7	3351.2
60°	15923.6	16766.8	12361.6	4064.7	3153.9	3270.1	3370.1	3367.4	3348.5	3286.3	3264.7
62.5°	17258.7	17301.9	11334.6	3113.4	2648.5	2870.1	3143.1	3140.4	3124.2	3089.1	3075.5
65°	18053.3	17220.9	9621.2	2451.2	2232.3	2540.4	2835.0	2856.6	2859.3	2856.6	2856.6
67.5°	17912.7	16272.3	7270.0	1951.3	1889.1	2205.3	2529.6	2559.3	2581.0	2586.4	2591.8
70°	16323.6	14188.6	4740.3	1556.7	1583.7	1910.7	2240.4	2270.2	2289.1	2310.7	2321.5
72.5°	12723.8	10432.0	2713.4	1259.4	1316.2	1656.7	1954.0	1989.1	1999.9	2040.5	2056.7
75°	7753.7	6134.9	1464.8	991.8	1081.0	1416.2	1670.2	1710.7	1729.7	1778.3	1783.7
77.5°	3686.3	2656.6	835.1	772.9	870.2	1156.7	1410.7	1456.7	1405.3	1432.4	1410.7
80°	1245.9	986.4	527.0	589.2	664.8	902.7	1129.7	1175.6	1067.5	1062.1	1051.3
82.5°	435.1	400.0	335.1	391.9	429.7	645.9	854.0	913.5	794.6	791.9	754.0
85°	170.3	162.2	186.5	213.5	256.7	397.3	562.1	591.9	489.2	394.6	389.2
87.5°	35.1	37.8	45.9	48.6	78.4	137.8	202.7	248.6	197.3	167.6	154.0
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)