

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: P955242

Luminaire Tested: **GALN-SB8B-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37908 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 292.8
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

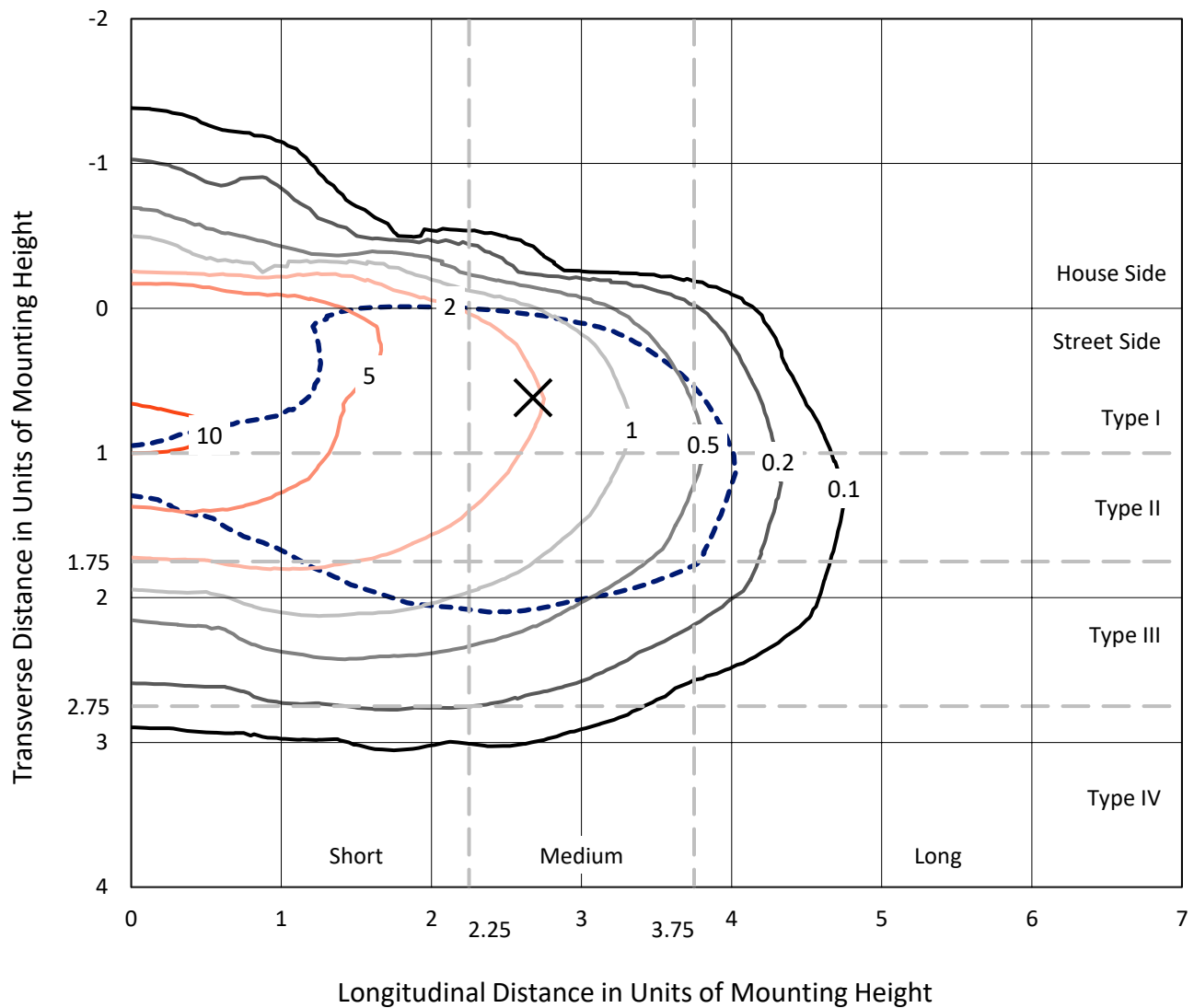


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Iso-Footcandle Lines of Horizontal Illumination

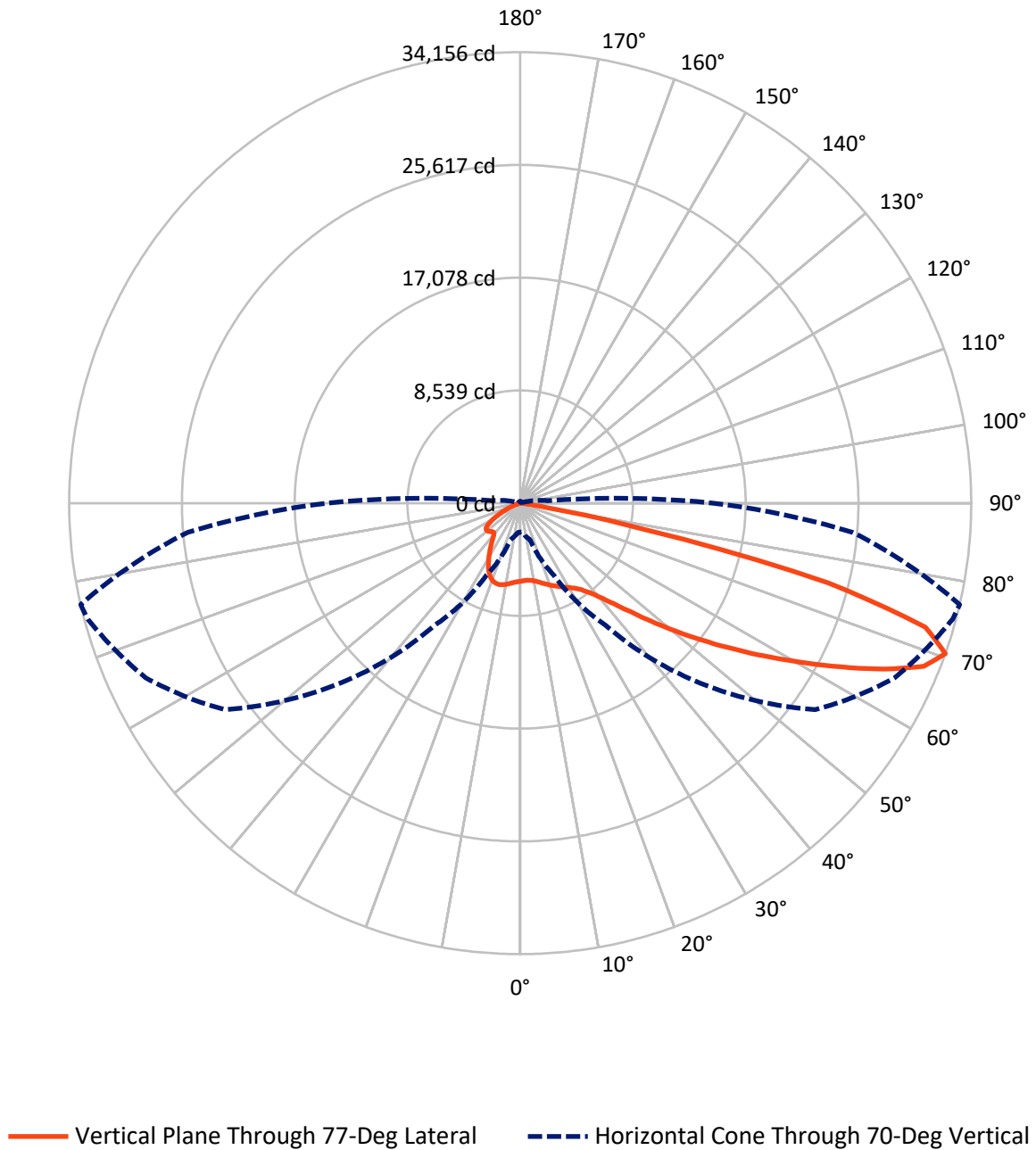
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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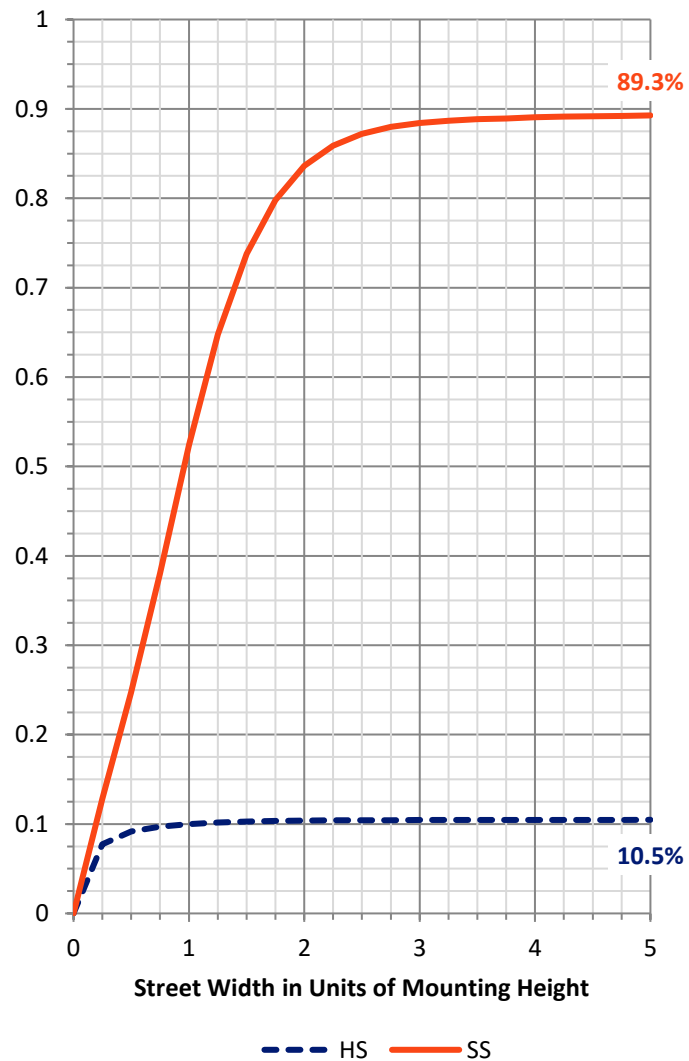
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3996.0	0.0	3996.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	33912.0	0.0	33912.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	37908.0	0.0	37908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.3
10°-20°	1209.7	3.2
20°-30°	1871.1	4.9
30°-40°	3395.3	9.0
40°-50°	6409.0	16.9
50°-60°	9260.4	24.4
60°-70°	9857.5	26.0
70°-80°	5223.8	13.8
80°-90°	171.5	0.5
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°	37908.0	100.0
0°-180°	37908.0	100.0

Coefficient of Utilization



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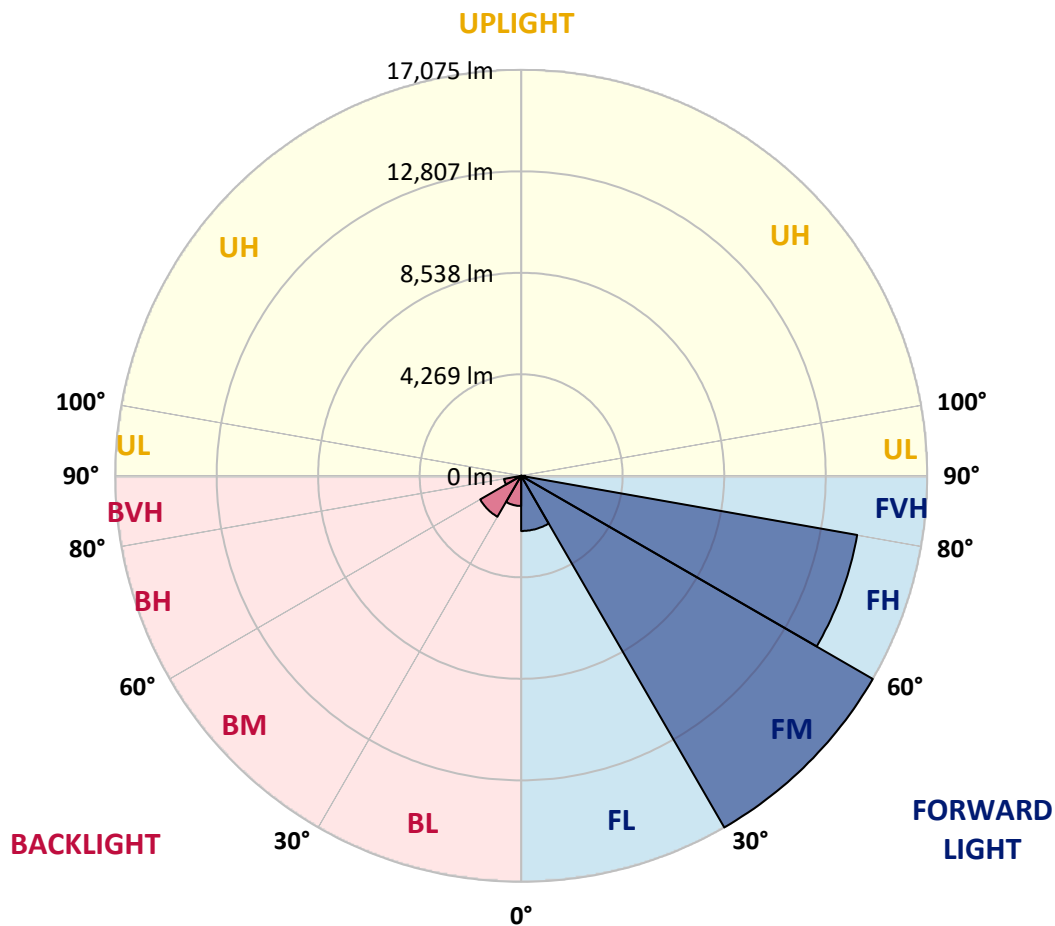
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2320.9	6.1			
FM	(30°-60°)	17075.5	45.0			
FH	(60°-80°)	14348.7	37.9			G5
FVH	(80°-90°)	166.9	0.4			G2/225
BL	(0°-30°)	1269.6	3.3	B3/2500		
BM	(30°-60°)	1989.2	5.2	B2/2500		
BH	(60°-80°)	732.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
2.5°	5551.5	5601.8	5594.6	5628.1	5640.1	5687.9	5735.8	5800.4	5872.3	5869.9	5917.8
5°	5237.9	5288.2	5300.1	5345.6	5403.1	5477.3	5575.4	5704.7	5838.8	5860.3	5956.1
7.5°	4866.8	4919.5	4950.6	5041.6	5146.9	5300.1	5460.5	5649.6	5872.3	5903.4	6087.7
10°	4495.8	4543.6	4584.3	4713.6	4881.2	5108.6	5369.5	5642.5	5941.7	5987.2	6248.1
12.5°	4266.0	4311.4	4356.9	4469.4	4677.7	4955.4	5309.7	5676.0	6056.6	6121.2	6466.0
15°	4184.6	4225.3	4261.2	4361.7	4555.6	4871.6	5297.7	5745.4	6202.6	6288.8	6729.3
17.5°	4196.5	4218.1	4242.0	4318.6	4507.7	4833.3	5319.3	5865.1	6375.0	6451.6	6992.6
20°	4266.0	4277.9	4280.3	4333.0	4500.6	4828.5	5362.4	5980.0	6537.8	6640.7	7253.6
22.5°	4354.5	4359.3	4354.5	4390.4	4546.0	4864.4	5419.8	6118.8	6719.7	6815.5	7516.9
25°	4768.7	4677.7	4562.8	4493.4	4622.6	4933.9	5506.0	6305.6	6918.4	7011.8	7773.0
27.5°	6054.2	5793.3	5381.5	4919.5	4780.6	5034.4	5625.7	6494.7	7119.5	7203.3	8048.3
30°	8141.7	7799.4	7100.3	6059.0	5288.2	5245.1	5781.3	6683.8	7332.6	7423.5	8342.8
32.5°	10234.0	10150.2	9343.4	7902.3	6430.0	5714.3	6039.8	6940.0	7615.0	7686.9	8740.2
35°	12350.2	12180.2	11519.5	10095.1	8189.6	6669.4	6470.7	7275.1	7986.1	8067.5	9319.5
37.5°	13970.9	13867.9	13458.6	12285.6	10277.1	8144.1	7208.1	7794.6	8524.7	8615.7	10061.6
40°	15402.4	15354.6	15215.7	14442.5	12611.1	10073.6	8354.8	8598.9	9271.6	9379.3	10971.3
42.5°	16527.6	16640.1	16719.1	16503.6	15017.0	12276.0	9896.4	9728.9	10313.0	10423.1	12130.0
45°	17679.0	17717.3	18035.7	18346.9	17406.1	14578.9	11634.4	11052.7	11608.1	11744.5	13518.4
47.5°	18418.8	18572.0	19132.1	19680.4	19414.6	16862.7	13501.7	12615.9	13109.1	13365.2	15074.5
50°	18473.8	18763.5	19534.3	20489.5	20877.3	19036.4	15531.7	14397.0	14921.3	15203.7	16735.8
52.5°	17557.0	18007.0	19201.6	20599.6	21667.3	20877.3	17631.2	16178.1	16850.7	17219.4	18459.5
55°	13461.0	14049.9	17949.6	20001.1	21698.4	22273.0	19675.6	18033.3	19000.5	19417.0	20321.9
57.5°	11727.8	12024.6	14112.1	18962.2	21121.5	22835.5	21523.7	19800.0	21339.3	21856.4	22081.4
60°	9757.6	10147.8	11835.5	17262.5	20338.7	22890.6	23156.3	22079.1	23874.5	24456.2	23694.9
62.5°	6631.1	7054.9	8733.0	14341.9	19268.6	22864.3	24494.5	24425.1	26692.1	27316.9	25061.9
65°	4108.0	4373.7	5479.7	11711.0	17772.4	22893.0	25894.9	27273.8	29665.4	30299.7	26120.0
67.5°	3246.1	3368.2	3945.2	8991.5	15194.2	22246.6	27293.0	29952.6	32463.8	32966.6	26443.2
70°	2180.9	2255.1	2870.3	6027.9	11304.1	19263.8	27266.7	31298.0	33905.0	34156.3	25265.4
72.5°	1149.1	1206.5	1678.1	2791.3	6827.4	13693.2	22984.0	29689.3	32471.0	32092.8	21595.5
75°	574.5	670.3	1129.9	1417.2	2915.8	7636.6	14272.5	23407.7	25557.4	24092.3	13856.0
77.5°	435.7	526.7	933.6	933.6	1015.0	2571.1	6044.6	12766.7	11775.7	9805.5	4067.3
80°	277.7	359.1	816.3	706.2	423.7	653.5	1575.2	3576.5	2501.6	1903.2	739.7
82.5°	162.8	234.6	679.9	466.8	237.0	241.8	445.3	761.3	648.8	505.1	227.4
85°	64.6	153.2	466.8	184.3	93.4	59.8	134.1	162.8	134.1	100.5	57.5
87.5°	0.0	35.9	81.4	0.0	7.2	4.8	9.6	12.0	12.0	9.6	19.2
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°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
2.5°	5939.3	5944.1	5958.4	5960.8	5927.3	5884.2	5867.5	5860.3	5831.6	5829.2	5834.0
5°	6011.1	6032.7	6011.1	5948.9	5800.4	5592.2	5434.2	5304.9	5187.6	5151.7	5130.2
7.5°	6154.7	6176.3	6111.7	5867.5	5494.0	5079.9	4706.4	4443.1	4206.1	4117.5	4081.6
10°	6360.6	6389.4	6185.9	5692.7	5032.0	4366.5	3734.5	3289.2	2942.1	2800.9	2741.0
12.5°	6619.2	6631.1	6226.6	5427.0	4431.1	3480.7	2585.4	2109.0	1800.2	1685.3	1649.4
15°	6904.0	6887.3	6231.4	5065.5	3612.4	2460.9	1687.7	1386.1	1261.6	1223.3	1223.3
17.5°	7203.3	7133.9	6135.6	4543.6	2714.7	1682.9	1252.0	1180.2	1158.7	1149.1	1146.7
20°	7497.7	7342.1	5960.8	3861.4	1948.6	1256.8	1137.1	1115.6	1103.6	1098.8	1094.0
22.5°	7765.9	7500.1	5661.6	3069.0	1414.8	1110.8	1074.9	1055.7	1034.2	1024.6	1022.2
25°	8026.8	7591.1	5240.3	2329.3	1132.3	1039.0	1010.2	974.3	945.6	933.6	928.8
27.5°	8280.5	7648.5	4713.6	1723.6	1010.2	971.9	919.3	869.0	847.4	842.7	837.9
30°	8551.1	7667.7	4115.1	1285.5	936.0	888.1	811.5	754.1	742.1	744.5	744.5
32.5°	8881.4	7696.4	3511.9	1053.3	873.8	787.6	696.6	636.8	627.2	636.8	634.4
35°	9276.4	7753.9	2930.1	969.5	818.7	684.7	586.5	536.2	526.7	533.8	531.4
37.5°	9812.6	7847.2	2386.7	952.8	773.2	598.5	493.1	452.4	452.4	454.8	452.4
40°	10526.0	8096.2	1900.8	940.8	749.3	533.8	416.5	399.8	407.0	411.8	411.8
42.5°	11395.0	8625.3	1572.8	926.4	723.0	505.1	378.2	371.1	383.0	387.8	387.8
45°	12369.3	9295.6	1457.9	902.5	699.0	524.3	361.5	351.9	366.3	368.7	371.1
47.5°	13377.2	9951.5	1443.5	876.2	675.1	553.0	356.7	335.1	351.9	354.3	356.7
50°	14397.0	10380.0	1457.9	835.5	636.8	553.0	359.1	318.4	332.8	339.9	342.3
52.5°	15424.0	10576.3	1448.3	746.9	569.8	519.5	359.1	304.0	318.4	323.2	323.2
55°	16419.8	10538.0	1302.3	615.2	483.6	459.6	349.5	292.1	301.6	304.0	304.0
57.5°	17207.4	10004.2	1031.8	478.8	392.6	383.0	318.4	277.7	284.9	282.5	282.5
60°	17619.2	8831.1	737.3	368.7	308.8	301.6	280.1	258.5	263.3	251.4	249.0
62.5°	17624.0	7279.9	493.1	292.1	246.6	239.4	239.4	232.2	227.4	203.5	196.3
65°	17248.1	5558.7	328.0	232.2	198.7	186.7	201.1	198.7	181.9	148.4	143.6
67.5°	16395.9	3643.5	249.0	181.9	153.2	146.0	160.4	167.6	155.6	124.5	122.1
70°	14643.6	2121.0	205.9	141.2	114.9	107.7	129.3	143.6	129.3	100.5	95.8
72.5°	12163.5	1144.3	167.6	105.3	79.0	71.8	102.9	117.3	102.9	74.2	71.8
75°	7892.7	612.8	129.3	69.4	40.7	45.5	76.6	86.2	71.8	47.9	43.1
77.5°	2650.1	270.5	81.4	33.5	19.2	19.2	45.5	52.7	33.5	16.8	14.4
80°	591.3	112.5	33.5	14.4	7.2	7.2	9.6	9.6	4.8	0.0	0.0
82.5°	193.9	45.5	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.2	16.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)