

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: P949841

Luminaire Tested: **GALN-SB4C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20993 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 200.7
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

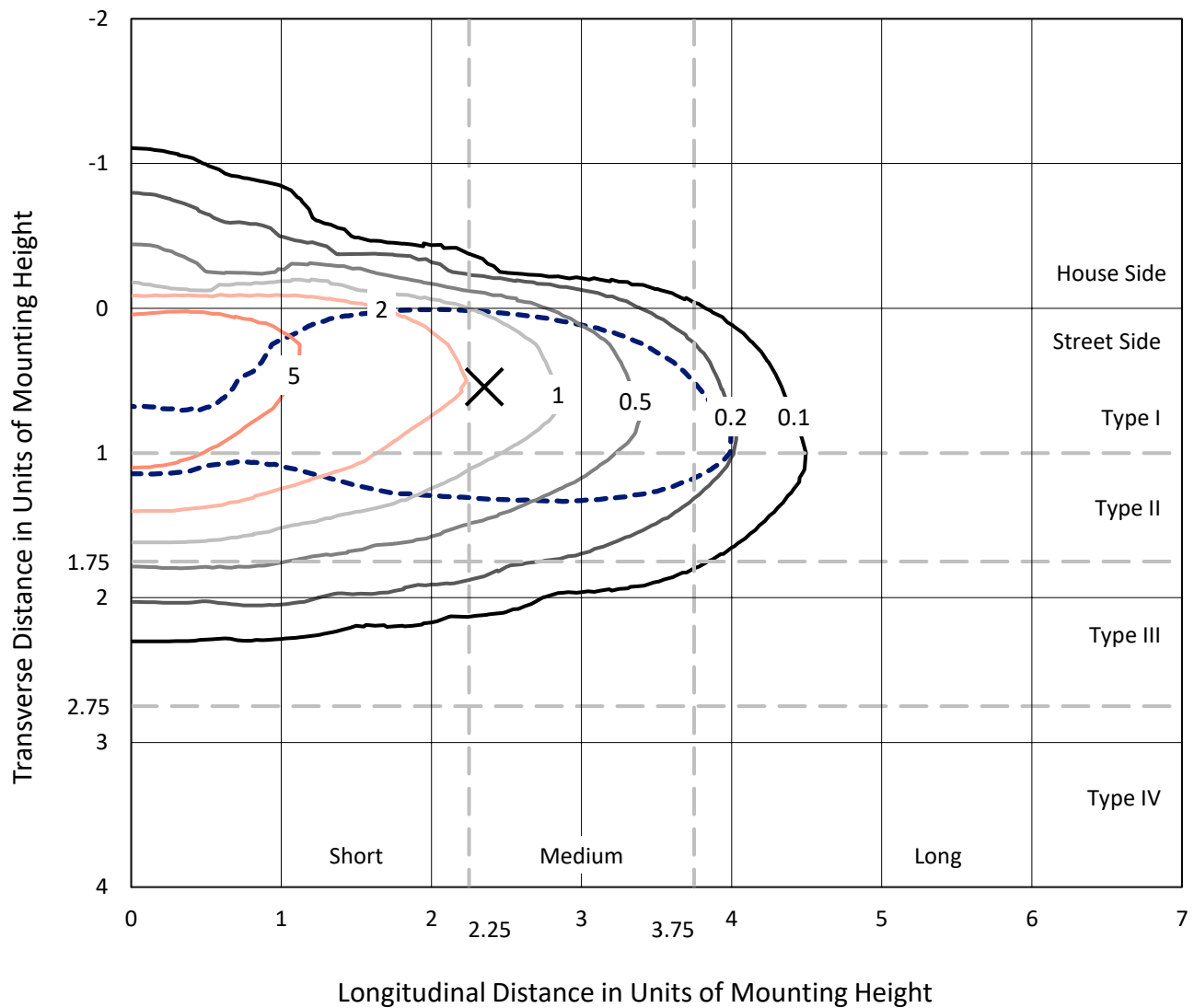


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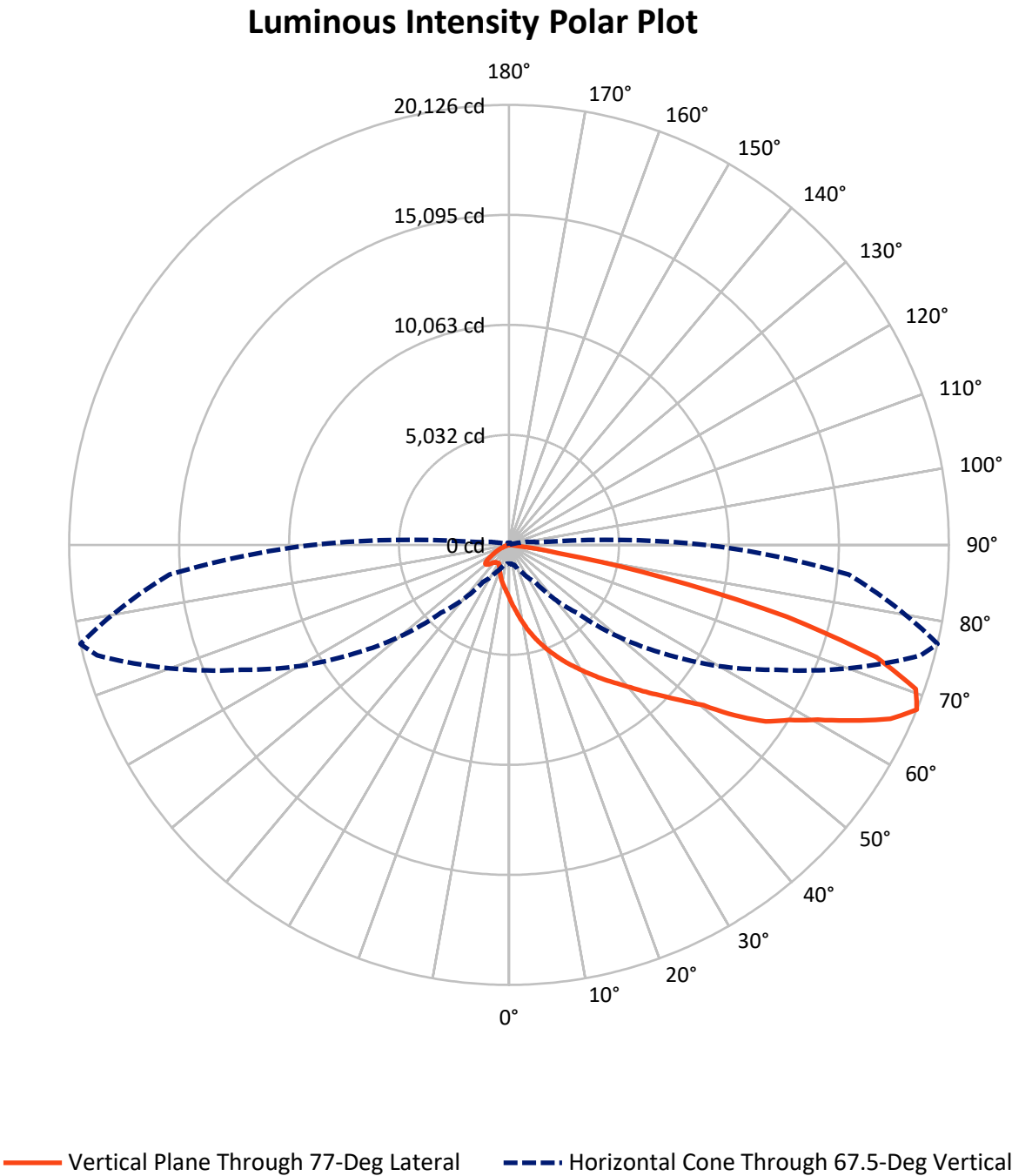
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Medium - N/A

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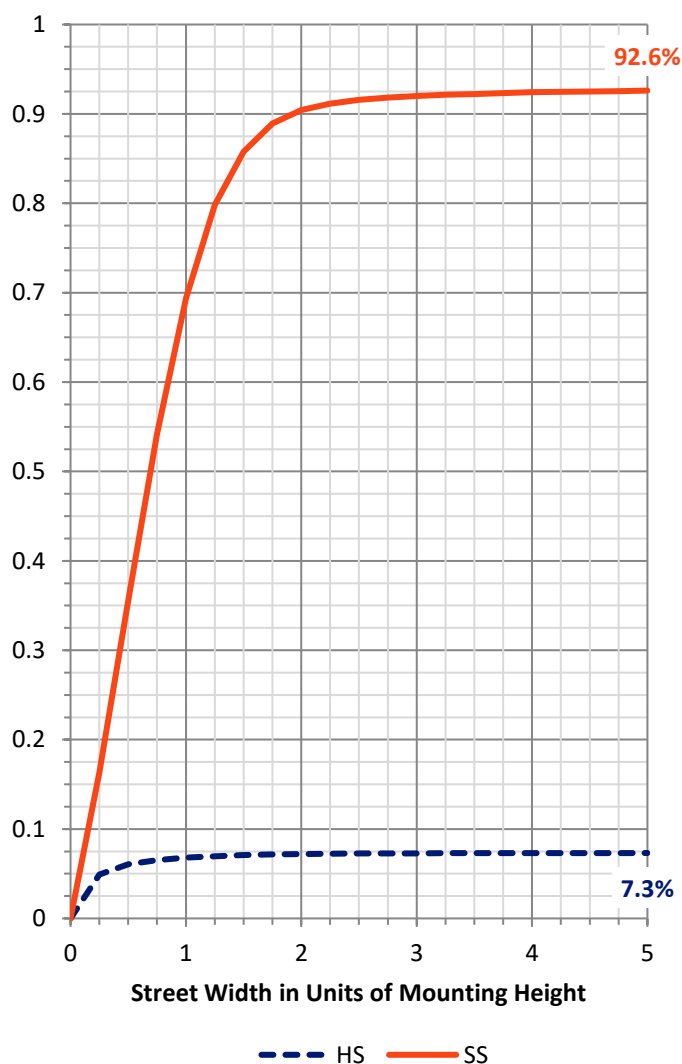
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.5	0.0	1544.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19448.5	0.0	19448.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	20993.0	0.0	20993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.2
10°-20°	865.3	4.1
20°-30°	1669.7	8.0
30°-40°	2898.7	13.8
40°-50°	4208.7	20.0
50°-60°	4833.2	23.0
60°-70°	4196.1	20.0
70°-80°	1976.4	9.4
80°-90°	97.7	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°	20993.0	100.0
0°-180°	20993.0	100.0

Coefficient of Utilization



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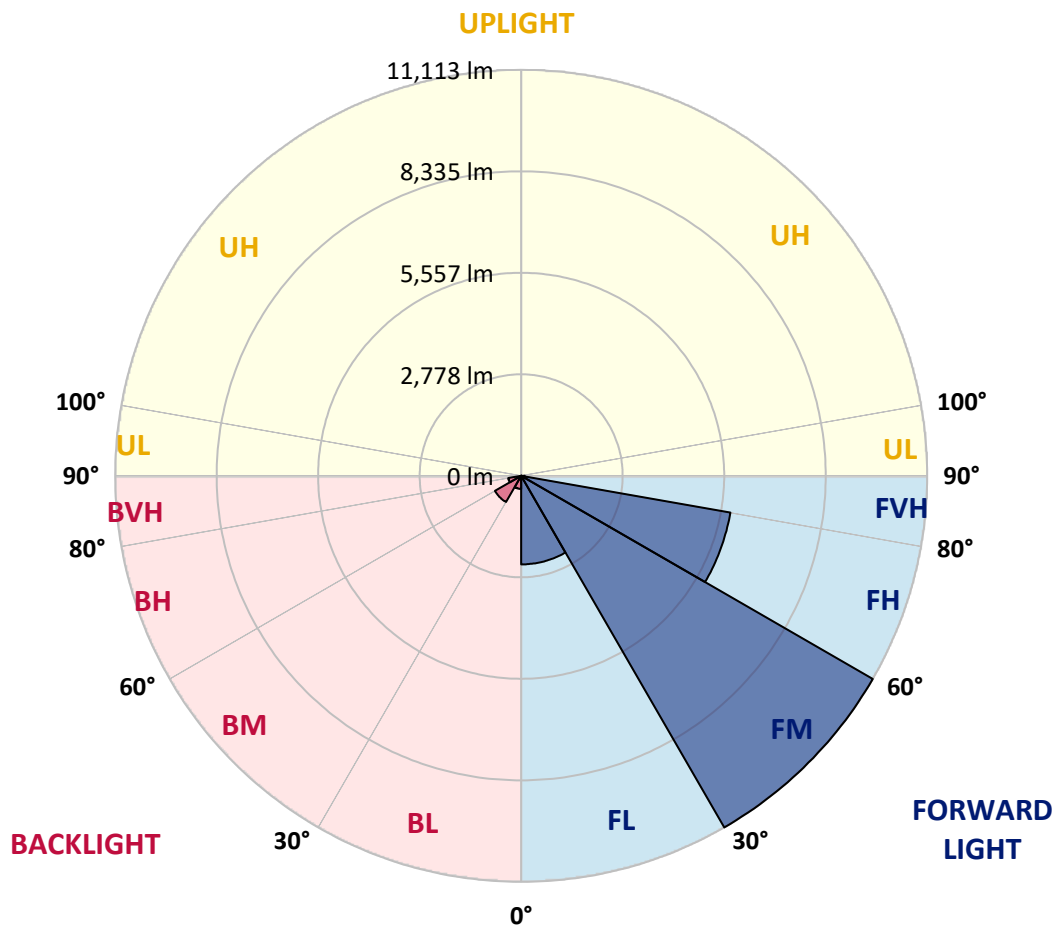
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2424.5	11.5			
FM	(30°-60°)	11113.1	52.9			
FH	(60°-80°)	5815.0	27.7			G3/7500
FVH	(80°-90°)	95.9	0.5			G1/100
BL	(0°-30°)	357.6	1.7	B1/500		
BM	(30°-60°)	827.5	3.9	B1/1000		
BH	(60°-80°)	357.6	1.7	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	3351.6	3372.4	3342.5	3285.1	3199.1	3143.0	3006.1	2877.1	2733.7	2688.0	2544.6
5°	4085.5	4103.8	4069.9	4007.3	3892.6	3783.1	3603.2	3333.3	3053.1	2963.1	2708.9
7.5°	4629.1	4639.5	4626.5	4569.1	4459.6	4335.8	4135.0	3815.7	3399.8	3300.7	2911.0
10°	5020.2	5054.1	5050.2	5028.0	4955.0	4854.6	4640.8	4277.1	3788.3	3660.5	3139.1
12.5°	5279.6	5317.4	5339.6	5389.1	5385.2	5321.3	5133.6	4749.0	4175.5	4025.5	3395.9
15°	5355.2	5395.6	5480.4	5595.1	5696.8	5729.4	5597.7	5211.8	4601.7	4410.1	3659.2
17.5°	5312.2	5374.8	5476.5	5657.7	5880.6	6027.9	6013.5	5659.0	4988.9	4769.9	3917.3
20°	5407.4	5467.3	5546.9	5699.4	5958.8	6226.0	6332.9	6086.5	5373.5	5144.0	4188.5
22.5°	5934.0	5923.6	5931.4	5956.2	6111.3	6376.0	6596.3	6475.0	5754.1	5519.5	4475.3
25°	6768.3	6721.4	6641.9	6507.6	6468.5	6596.3	6825.7	6819.2	6155.6	5904.0	4768.6
27.5°	7725.2	7717.4	7530.9	7207.7	7025.1	6975.6	7085.1	7154.2	6553.2	6284.7	5063.2
30°	8641.6	8662.5	8410.9	8051.1	7716.1	7521.8	7422.7	7472.3	6957.4	6695.3	5367.0
32.5°	9439.4	9461.6	9187.8	8766.8	8352.2	8117.6	7909.0	7786.5	7398.0	7112.5	5700.7
35°	10113.4	10135.6	9821.4	9356.0	8914.1	8701.6	8465.6	8130.6	7841.2	7575.3	6072.2
37.5°	10715.7	10709.1	10288.1	9818.8	9384.7	9216.5	9092.7	8554.3	8297.5	8040.7	6484.2
40°	11071.5	11098.9	10739.1	10221.6	9800.5	9678.0	9670.2	9079.6	8824.1	8575.1	6935.2
42.5°	11175.8	11224.1	10963.3	10538.4	10156.4	10023.4	10228.1	9648.0	9436.8	9194.4	7444.9
45°	10988.1	11035.0	10916.4	10621.8	10398.9	10312.8	10707.8	10237.2	10091.2	9851.4	8019.8
47.5°	10440.6	10499.3	10527.9	10465.4	10462.8	10550.1	11138.0	10857.8	10868.2	10623.1	8685.9
50°	9380.8	9479.8	9743.2	9964.8	10307.6	10737.8	11556.5	11530.4	11744.2	11533.0	9554.1
52.5°	7454.0	7594.8	8502.1	9108.3	9878.7	10702.6	12016.7	12609.8	13281.2	12972.2	10778.2
55°	5990.1	5990.1	6727.9	7862.1	9041.8	10470.6	12217.4	13311.1	14328.0	14255.0	11639.9
57.5°	4883.3	4942.0	5412.6	6415.1	7830.8	9917.9	12341.3	13751.8	15171.4	15118.0	12482.1
60°	3013.9	3140.4	4029.5	5018.9	6452.9	8933.6	12263.0	14197.6	16194.7	16237.8	13496.3
62.5°	1697.3	1744.2	2140.5	3611.0	5017.6	7610.5	11664.7	14446.6	17503.6	17686.1	14541.8
65°	1171.9	1195.4	1347.9	2247.4	3478.0	6059.2	10495.4	14291.5	18815.0	19183.9	15428.2
67.5°	851.3	863.0	958.2	1372.7	2063.6	4393.2	8662.5	13509.3	19509.8	20126.4	15597.7
70°	654.4	662.2	731.3	902.1	1218.9	2711.5	6291.2	11954.1	19006.6	19743.2	14729.5
72.5°	531.9	539.7	593.1	667.4	808.2	1603.4	3813.1	9708.0	16785.3	17580.5	12539.4
75°	448.4	458.9	507.1	555.3	633.6	1029.9	1788.6	6760.5	12622.8	13144.3	8719.8
77.5°	249.0	229.4	411.9	460.2	534.5	651.8	836.9	3978.6	7069.5	7214.2	3869.1
80°	155.1	160.3	327.2	370.2	410.6	328.5	383.3	1531.7	2450.8	2328.2	749.6
82.5°	9.1	20.9	251.6	267.2	281.6	140.8	144.7	520.1	590.5	542.3	133.0
85°	0.0	0.0	114.7	92.6	97.8	40.4	41.7	121.2	79.5	86.0	26.1
87.5°	0.0	0.0	0.0	2.6	0.0	3.9	7.8	10.4	3.9	5.2	9.1
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°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	2453.4	2362.1	2177.0	1995.8	1848.5	1711.6	1613.9	1521.3	1474.4	1471.8	1469.2
5°	2527.7	2336.1	1965.8	1638.6	1375.3	1164.1	1027.2	929.5	879.9	863.0	860.4
7.5°	2632.0	2343.9	1780.7	1325.8	1015.5	834.3	756.1	724.8	714.4	702.6	700.0
10°	2763.7	2362.1	1615.2	1067.7	800.4	709.2	677.9	664.8	657.0	649.2	646.6
12.5°	2911.0	2379.1	1450.9	886.5	703.9	657.0	634.9	619.2	608.8	599.7	597.1
15°	3054.4	2389.5	1280.1	760.0	654.4	616.6	593.1	576.2	561.9	551.4	550.1
17.5°	3196.4	2403.9	1119.8	684.4	614.0	576.2	552.7	531.9	520.1	508.4	507.1
20°	3354.2	2401.2	968.6	630.9	573.6	535.8	511.0	491.5	479.7	466.7	465.4
22.5°	3500.2	2388.2	835.6	585.3	531.9	495.4	468.0	448.4	436.7	426.3	425.0
25°	3668.4	2377.8	724.8	543.6	492.8	456.3	426.3	408.0	395.0	385.9	384.6
27.5°	3830.0	2362.1	644.0	505.8	455.0	419.8	391.1	370.2	358.5	352.0	352.0
30°	3989.0	2358.2	614.0	469.3	421.1	385.9	357.2	337.6	328.5	325.9	324.6
32.5°	4180.7	2368.7	627.0	456.3	389.8	354.6	327.2	312.9	303.7	303.7	303.7
35°	4385.3	2366.0	646.6	468.0	368.9	323.3	302.4	293.3	284.2	284.2	284.2
37.5°	4642.2	2370.0	662.2	487.5	361.1	297.2	285.5	273.8	268.5	268.5	268.5
40°	5025.4	2499.0	654.4	504.5	358.5	279.0	255.5	251.6	247.7	247.7	247.7
42.5°	5494.7	2779.3	664.8	505.8	357.2	265.9	234.6	242.5	233.3	232.0	230.7
45°	6008.3	3085.6	731.3	478.4	355.9	259.4	224.2	233.3	219.0	219.0	219.0
47.5°	6518.0	3389.4	799.1	439.3	352.0	258.1	215.1	209.9	206.0	207.3	207.3
50°	7220.7	3637.1	825.2	385.9	342.8	255.5	198.1	199.5	196.8	199.5	199.5
52.5°	7985.9	3689.2	793.9	325.9	316.8	247.7	186.4	191.6	190.3	192.9	192.9
55°	8463.0	3633.2	655.7	271.2	276.4	216.4	174.7	185.1	185.1	185.1	185.1
57.5°	8955.8	3394.6	465.4	220.3	229.4	177.3	164.3	178.6	177.3	176.0	176.0
60°	9310.4	3008.7	306.3	181.2	182.5	146.0	152.5	168.2	166.9	160.3	160.3
62.5°	9575.0	2582.4	196.8	153.8	139.5	131.7	139.5	152.5	147.3	133.0	130.4
65°	9545.0	1991.9	151.2	131.7	114.7	114.7	121.2	133.0	117.3	93.9	91.3
67.5°	8988.4	1347.9	125.1	110.8	96.5	95.2	100.4	110.8	100.4	79.5	76.9
70°	7993.7	881.2	100.4	86.0	76.9	70.4	80.8	95.2	84.7	63.9	61.3
72.5°	6488.1	537.1	75.6	62.6	56.1	45.6	63.9	78.2	67.8	46.9	44.3
75°	4197.6	273.8	52.1	40.4	30.0	27.4	46.9	58.7	46.9	28.7	24.8
77.5°	1606.0	114.7	28.7	18.3	15.6	13.0	26.1	35.2	19.6	6.5	5.2
80°	309.0	48.2	14.3	9.1	7.8	5.2	3.9	2.6	0.0	0.0	0.0
82.5°	53.4	15.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	0.0	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)