

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: P954887

Luminaire Tested: **GALN-SB8A-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27940 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

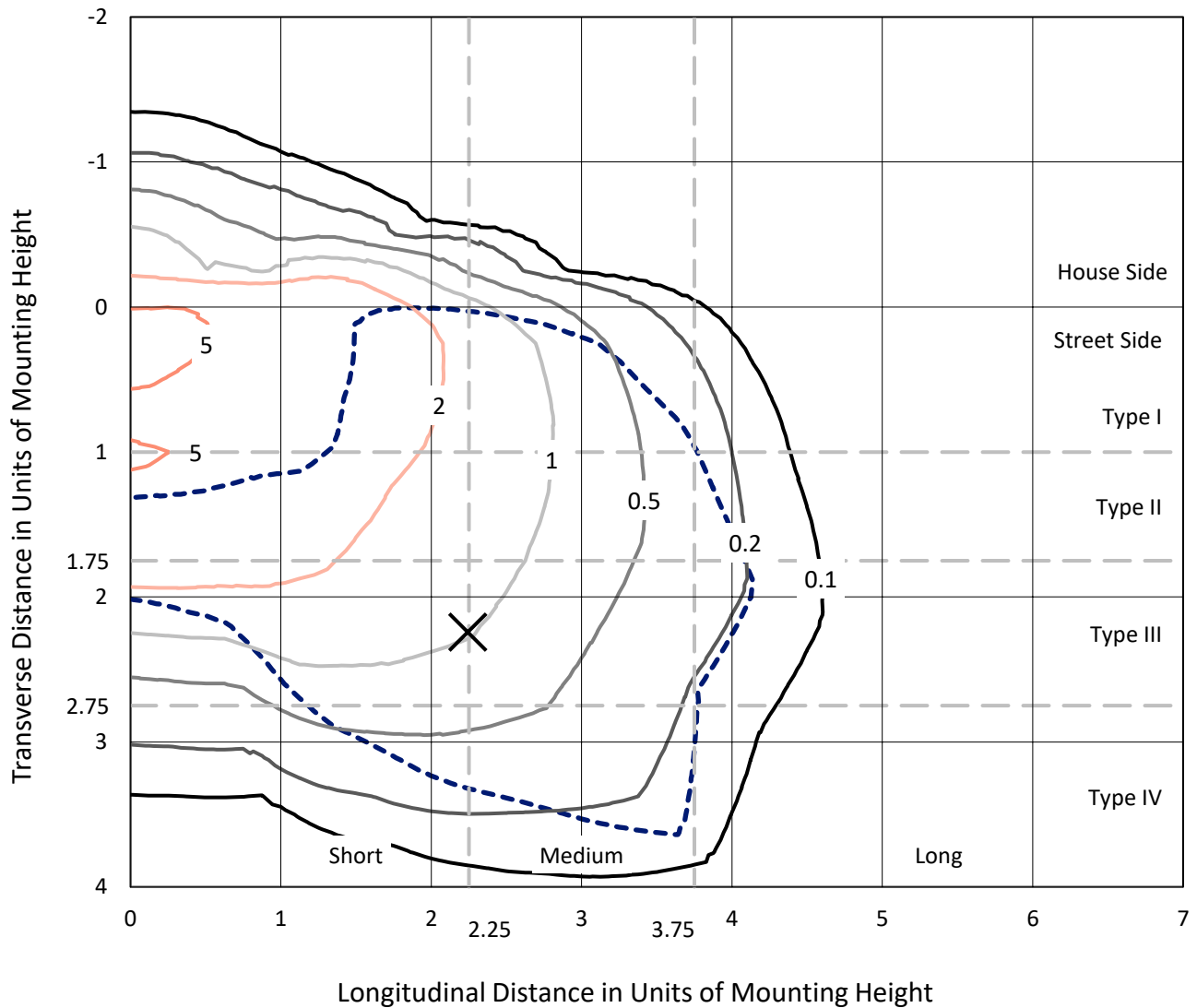
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

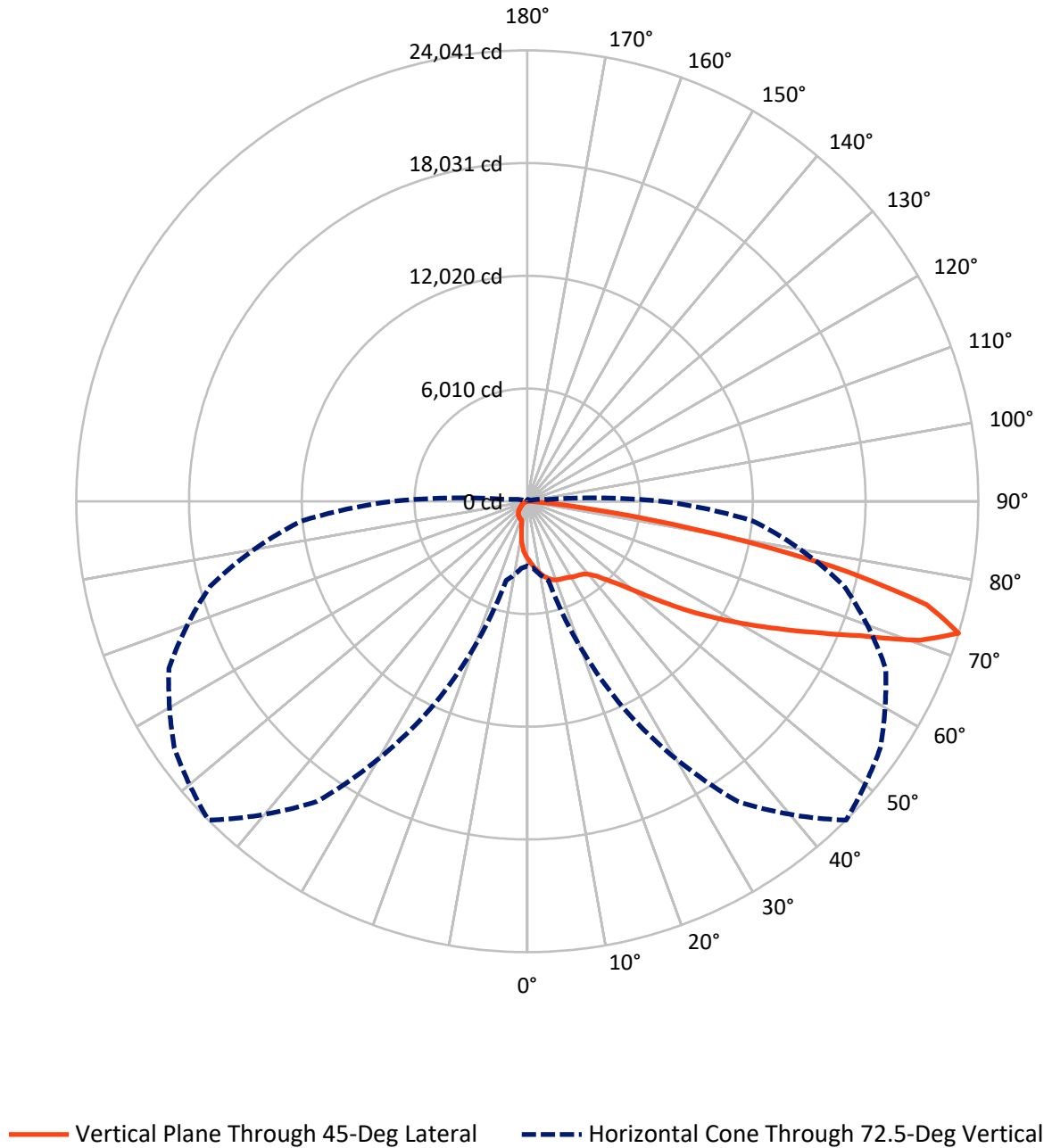
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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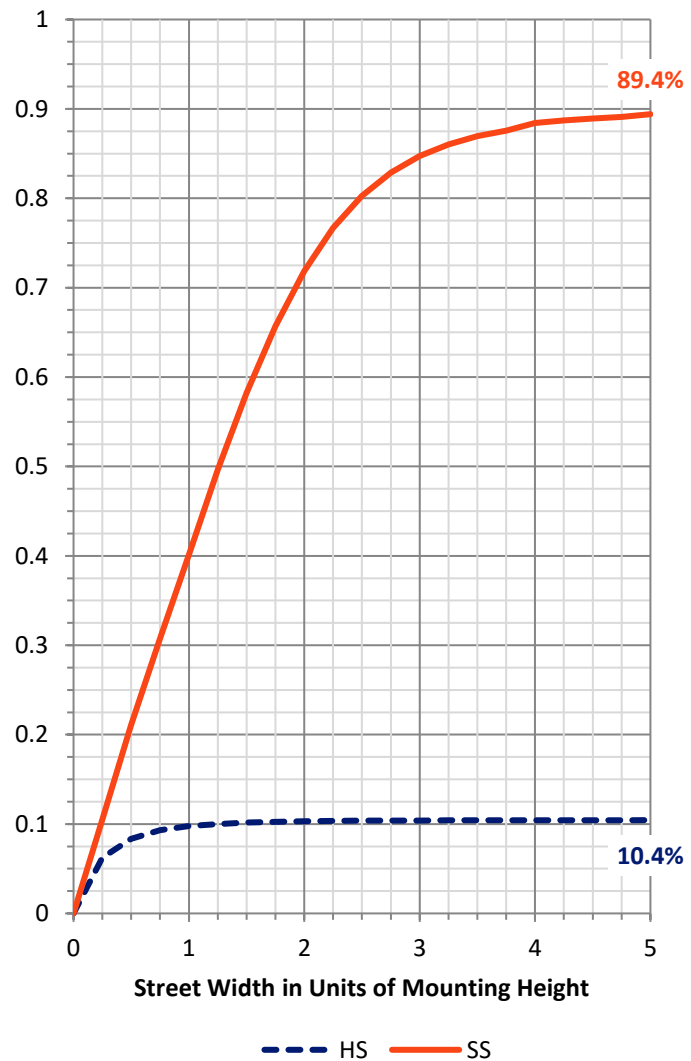
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.7	0.0	2935.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25004.3	0.0	25004.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	27940.0	0.0	27940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	1.0
10°-20°	842.9	3.0
20°-30°	1384.1	5.0
30°-40°	1963.0	7.0
40°-50°	3244.6	11.6
50°-60°	5828.6	20.9
60°-70°	8093.3	29.0
70°-80°	5870.6	21.0
80°-90°	424.4	1.5
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°	27940.0	100.0
0°-180°	27940.0	100.0

Coefficient of Utilization



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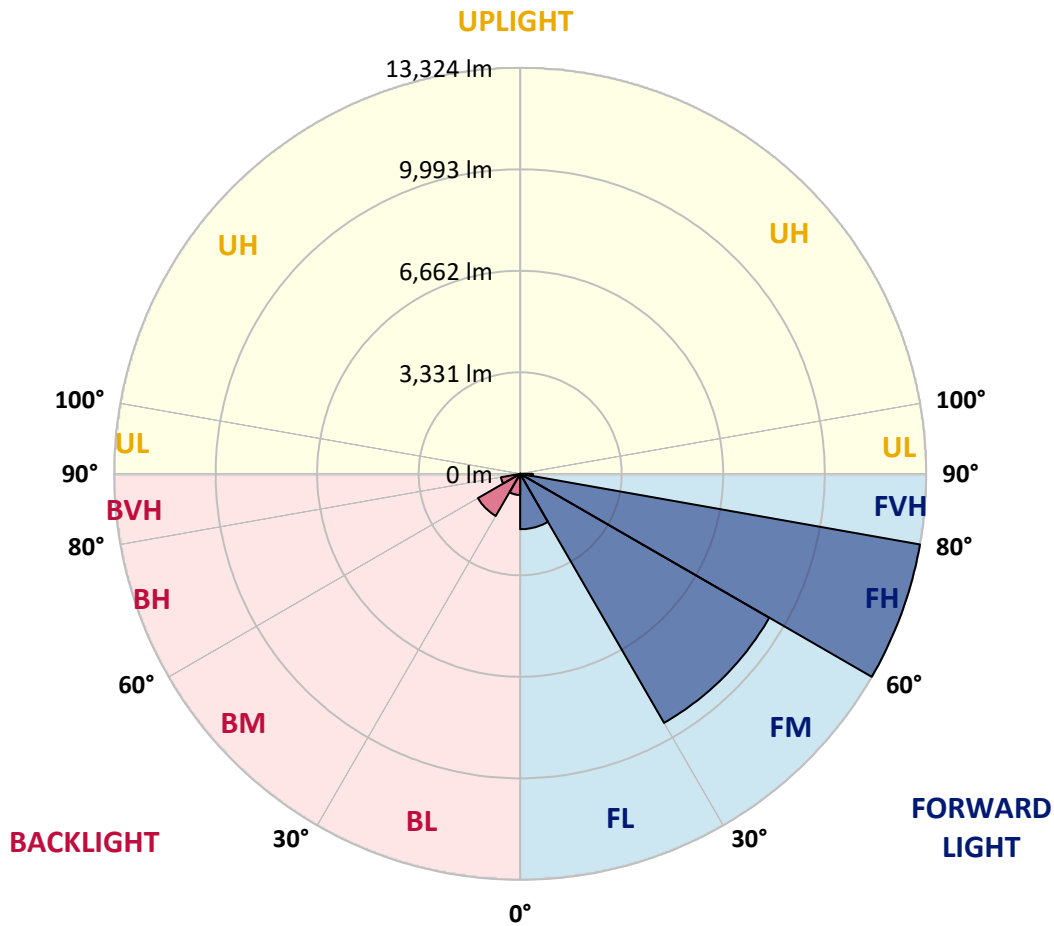
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.0	6.5			
FM (30°-60°)	9439.6	33.8			
FH (60°-80°)	13323.8	47.7			G5
FVH (80°-90°)	420.9	1.5			G3/500
BL (0°-30°)	695.4	2.5	B2/1000		
BM (30°-60°)	1596.6	5.7	B2/2500		
BH (60°-80°)	640.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9
2.5°	3343.1	3348.9	3345.0	3322.2	3284.0	3263.0	3251.6	3213.5	3188.7	3144.8	3099.0
5°	3650.2	3673.1	3659.7	3613.9	3541.5	3490.0	3474.7	3396.5	3326.0	3244.0	3148.6
7.5°	3976.3	3987.7	3962.9	3903.8	3806.6	3718.8	3705.5	3596.8	3484.3	3358.4	3228.7
10°	4258.5	4271.9	4233.7	4147.9	4037.3	3928.6	3909.5	3789.4	3655.9	3501.4	3335.5
12.5°	4495.0	4508.4	4458.8	4355.8	4233.7	4121.2	4102.2	3976.3	3829.4	3657.8	3451.8
15°	4674.3	4699.1	4632.3	4521.7	4390.1	4277.6	4268.1	4144.1	4001.1	3810.4	3591.1
17.5°	4779.2	4804.0	4741.0	4607.5	4495.0	4399.7	4388.2	4285.2	4151.7	3968.7	3726.5
20°	4796.3	4819.2	4752.5	4636.1	4542.7	4466.4	4460.7	4386.3	4289.1	4113.6	3873.3
22.5°	4744.9	4773.5	4712.4	4619.0	4554.1	4514.1	4506.5	4464.5	4409.2	4260.4	4010.6
25°	4691.5	4714.3	4668.6	4586.6	4552.2	4548.4	4554.1	4546.5	4535.1	4409.2	4170.8
27.5°	4687.6	4712.4	4660.9	4582.7	4563.7	4603.7	4609.4	4645.7	4655.2	4544.6	4325.3
30°	4720.1	4737.2	4687.6	4605.6	4596.1	4687.6	4689.5	4754.4	4769.6	4659.0	4477.9
32.5°	4790.6	4809.7	4760.1	4640.0	4626.6	4754.4	4760.1	4845.9	4870.7	4781.1	4638.1
35°	4956.5	4979.4	4922.2	4735.3	4687.6	4817.3	4834.5	4935.6	4985.1	4910.8	4804.0
37.5°	5370.4	5303.6	5225.4	4927.9	4826.9	4916.5	4945.1	5063.3	5151.1	5065.2	5002.3
40°	6398.3	6188.5	5944.4	5256.0	5071.0	5128.2	5151.1	5269.3	5389.4	5305.5	5275.0
42.5°	7941.1	7693.2	7300.4	6011.2	5439.0	5467.6	5484.8	5587.8	5757.5	5690.8	5698.4
45°	9316.2	9226.5	8826.0	7300.4	6127.5	5986.4	6007.3	6060.7	6310.6	6285.8	6335.4
47.5°	10372.7	10321.2	10012.2	8780.3	7290.8	6621.4	6680.6	6705.3	7065.8	7153.5	7287.0
50°	11185.1	11166.0	10889.5	10096.2	8810.8	7557.8	7578.8	7525.4	8065.1	8282.5	8536.2
52.5°	11951.8	12016.6	11812.5	11318.6	10433.7	8784.1	8780.3	8528.5	9257.0	9585.1	10018.0
55°	12644.0	12666.9	12687.9	12565.8	12066.2	10180.1	10143.8	9731.9	10639.7	10979.1	11448.3
57.5°	13294.4	13303.9	13490.8	13740.6	13765.4	11679.0	11612.3	11118.4	12150.1	12392.3	12680.3
60°	13731.1	13774.9	14169.7	14863.9	15167.1	13225.7	13189.5	12686.0	13687.2	13799.7	13746.3
62.5°	13101.7	13368.7	14364.2	15741.2	16490.6	14940.2	14923.0	14450.1	15304.4	15212.9	14755.2
65°	10605.4	11057.3	12808.0	16334.3	17789.4	16854.9	16879.7	16376.2	16965.5	16668.0	15575.2
67.5°	7418.6	7895.4	9966.5	16381.9	19240.7	19103.4	19246.4	18456.9	18729.6	18062.1	15769.8
70°	5130.1	5376.1	6724.4	15355.9	20371.6	22200.5	22196.7	21012.4	20484.1	18697.2	14778.1
72.5°	3449.9	3577.7	4367.2	12182.5	19540.1	24040.8	23930.2	22965.2	21075.3	17486.1	12073.8
75°	1455.1	1548.6	2021.5	6846.5	15458.9	21994.5	21695.1	20295.3	18725.8	13769.2	7533.0
77.5°	461.5	501.6	797.2	2450.6	8515.2	16532.6	16216.0	12674.5	12550.6	6907.5	2753.8
80°	219.3	255.6	448.2	984.1	3350.8	8991.9	8948.1	5749.9	5399.0	1865.1	553.1
82.5°	95.4	112.5	247.9	526.4	1499.0	3207.7	3272.6	1956.7	1619.1	707.5	169.7
85°	30.5	40.0	114.4	242.2	633.2	797.2	787.6	465.3	652.2	385.2	59.1
87.5°	0.0	0.0	38.1	55.3	64.8	45.8	51.5	40.0	181.2	106.8	21.0
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°	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9	3060.9
2.5°	3076.1	3045.6	2992.2	2942.6	2898.8	2854.9	2828.2	2790.1	2786.3	2786.3	2795.8
5°	3097.1	3047.5	2952.2	2851.1	2734.8	2624.2	2513.6	2406.8	2372.4	2347.6	2359.1
7.5°	3158.1	3080.0	2929.3	2736.7	2515.5	2273.3	2103.5	1920.4	1849.9	1811.7	1817.5
10°	3245.9	3139.1	2910.2	2572.7	2214.1	1884.2	1642.0	1443.7	1367.4	1335.0	1335.0
12.5°	3343.1	3211.5	2875.9	2368.6	1884.2	1489.4	1253.0	1161.4	1150.0	1150.0	1150.0
15°	3459.5	3299.3	2816.8	2128.3	1539.0	1178.6	1094.7	1098.5	1109.9	1117.6	1117.6
17.5°	3579.6	3392.7	2723.3	1859.4	1233.9	1060.3	1062.3	1068.0	1077.5	1085.1	1085.1
20°	3709.3	3486.2	2599.4	1573.4	1058.4	1026.0	1031.7	1037.5	1045.1	1048.9	1050.8
22.5°	3848.5	3573.9	2452.5	1293.0	999.3	997.4	999.3	1005.0	1014.6	1014.6	1018.4
25°	3997.3	3671.2	2284.7	1089.0	968.8	968.8	972.6	976.4	984.1	984.1	986.0
27.5°	4149.8	3760.8	2107.3	982.2	942.1	940.2	940.2	945.9	949.7	951.6	953.5
30°	4317.7	3865.7	1930.0	959.3	921.1	911.6	905.9	909.7	913.5	915.4	919.2
32.5°	4489.3	3966.8	1771.7	968.8	900.1	883.0	863.9	860.1	860.1	867.7	873.4
35°	4680.0	4077.4	1649.6	1001.2	888.7	841.0	810.5	793.4	795.3	806.7	812.4
37.5°	4908.9	4210.9	1560.0	1029.8	881.1	793.4	743.8	722.8	709.4	722.8	719.0
40°	5208.3	4407.3	1495.2	1052.7	871.5	738.0	671.3	637.0	612.2	619.8	616.0
42.5°	5648.8	4716.2	1470.4	1054.6	850.6	673.2	596.9	551.2	514.9	516.8	509.2
45°	6266.7	5204.5	1598.1	1029.8	804.8	602.6	518.7	457.7	434.8	429.1	421.5
47.5°	7113.5	5915.8	1893.7	978.3	738.0	534.0	442.4	391.0	373.8	364.3	358.5
50°	8248.2	6829.3	2221.8	921.1	671.3	469.1	379.5	347.1	335.6	326.1	324.2
52.5°	9564.1	7756.2	2490.7	863.9	604.5	411.9	339.5	320.4	310.9	303.2	301.3
55°	10771.3	8395.0	2475.4	802.9	539.7	366.2	310.9	299.4	288.0	280.3	276.5
57.5°	11522.7	8484.7	2040.6	736.1	465.3	329.9	284.2	276.5	263.2	253.6	251.7
60°	11867.8	7973.6	1430.3	648.4	391.0	295.6	255.6	251.7	234.6	221.2	217.4
62.5°	11930.8	7023.8	953.5	539.7	326.1	263.2	226.9	221.2	198.3	175.5	164.0
65°	11675.2	5666.0	659.9	421.5	278.4	228.9	194.5	183.1	158.3	135.4	127.8
67.5°	10866.6	3978.2	459.6	303.2	236.5	181.2	154.5	150.7	131.6	112.5	106.8
70°	9384.8	2267.5	307.0	226.9	186.9	124.0	122.1	125.9	106.8	91.5	83.9
72.5°	7195.5	1037.5	190.7	165.9	127.8	83.9	97.3	99.2	82.0	68.7	61.0
75°	4235.7	444.4	120.1	106.8	64.8	55.3	70.6	72.5	55.3	43.9	38.1
77.5°	1441.8	167.8	76.3	62.9	32.4	30.5	45.8	45.8	30.5	17.2	13.3
80°	328.0	62.9	38.1	24.8	15.3	13.3	15.3	13.3	7.6	1.9	0.0
82.5°	93.4	24.8	15.3	9.5	5.7	5.7	1.9	0.0	0.0	0.0	0.0
85°	26.7	11.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	1.9	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)