

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: P944179

Luminaire Tested: **GALN-SB9A-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40383 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 255.5
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

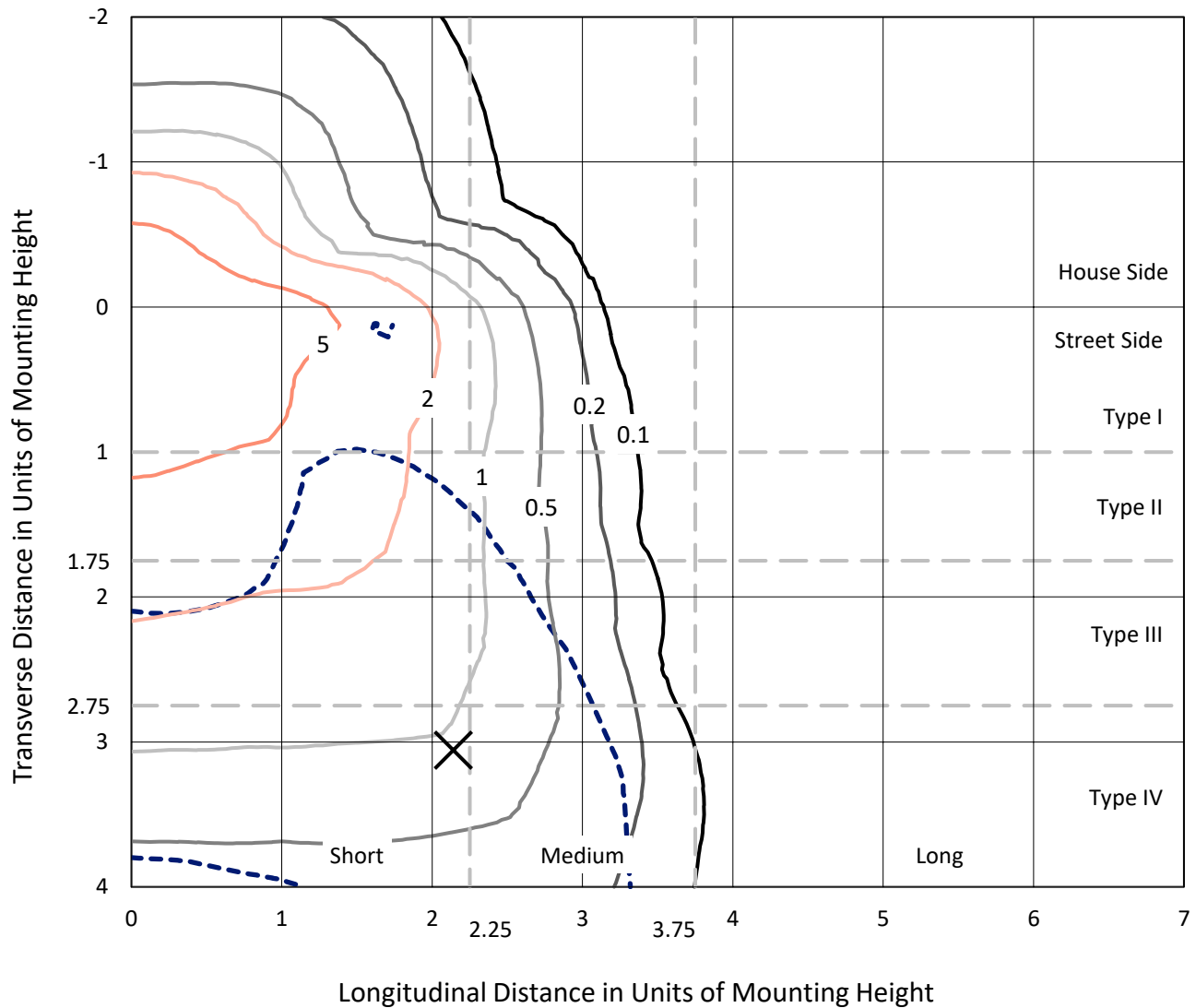


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

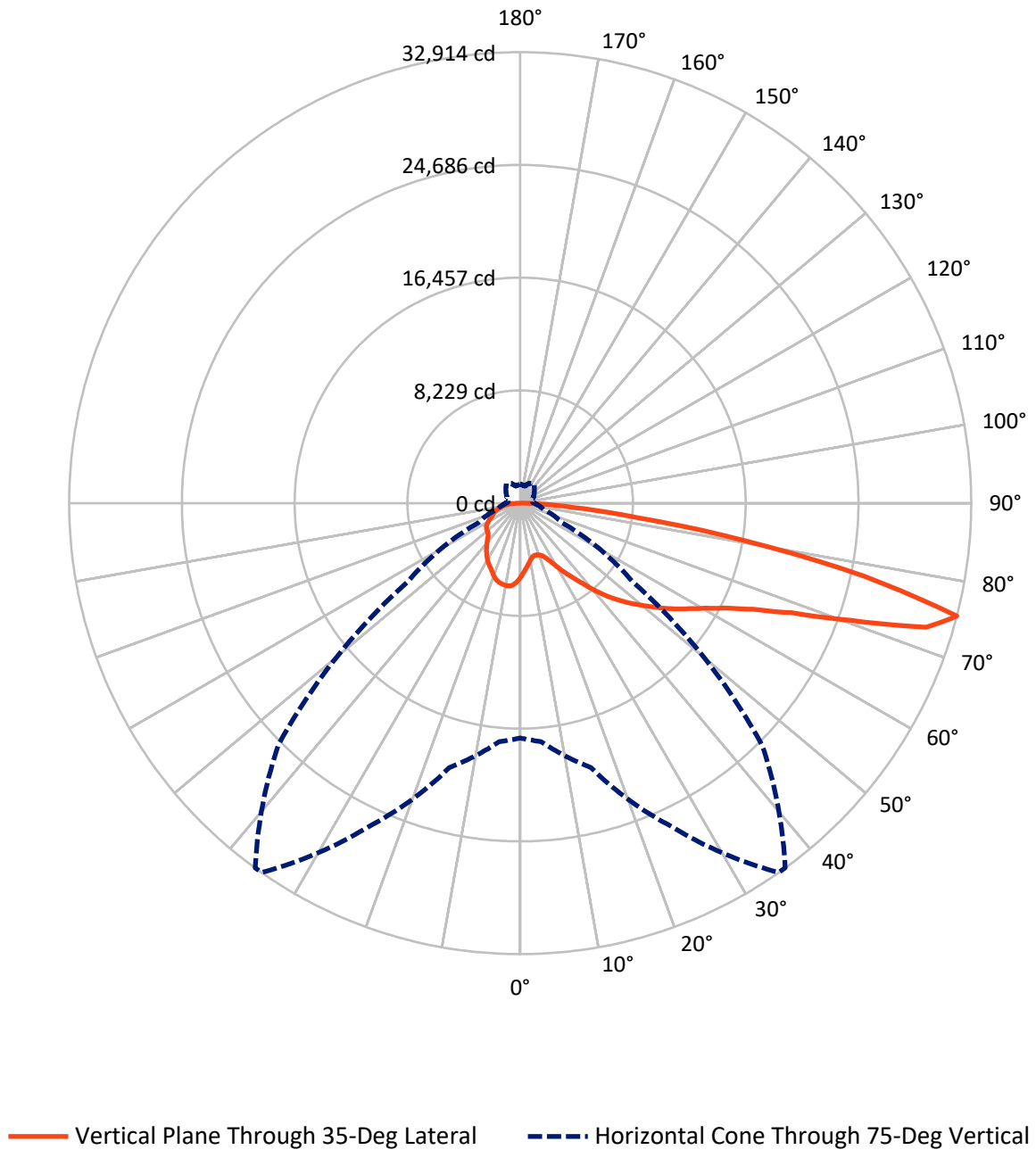


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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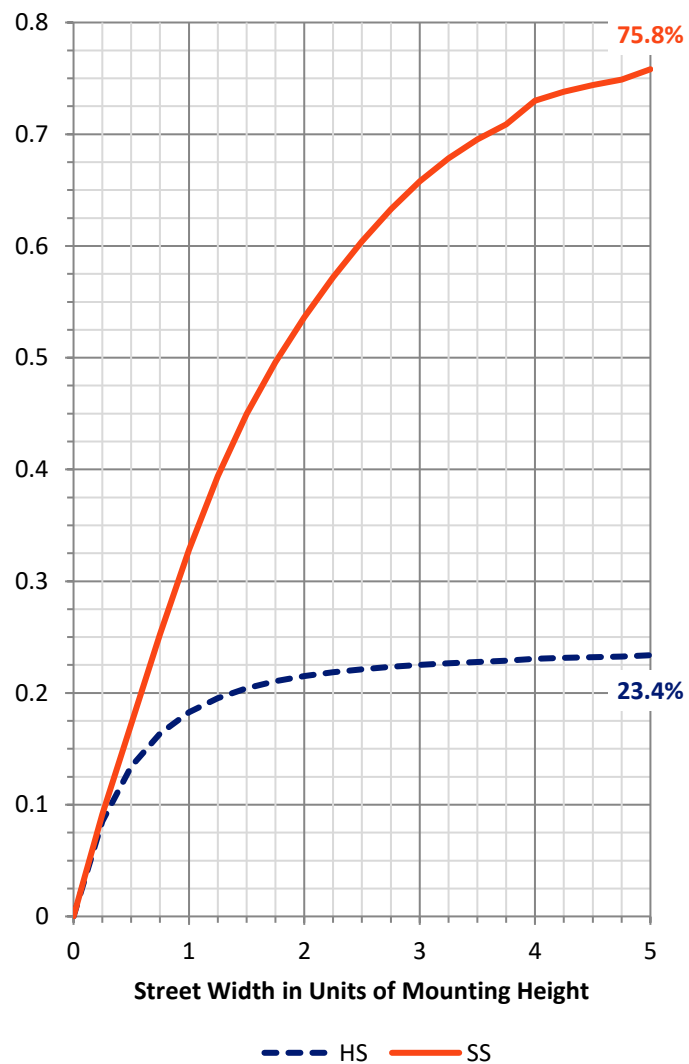
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9610.1	0.0	9610.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30772.9	0.0	30772.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	40383.0	0.0	40383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	1.3
10°-20°	1469.6	3.6
20°-30°	2467.9	6.1
30°-40°	3835.4	9.5
40°-50°	5692.8	14.1
50°-60°	7859.3	19.5
60°-70°	9535.1	23.6
70°-80°	7880.0	19.5
80°-90°	1133.4	2.8
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°	40383.0	100.0
0°-180°	40383.0	100.0

Coefficient of Utilization



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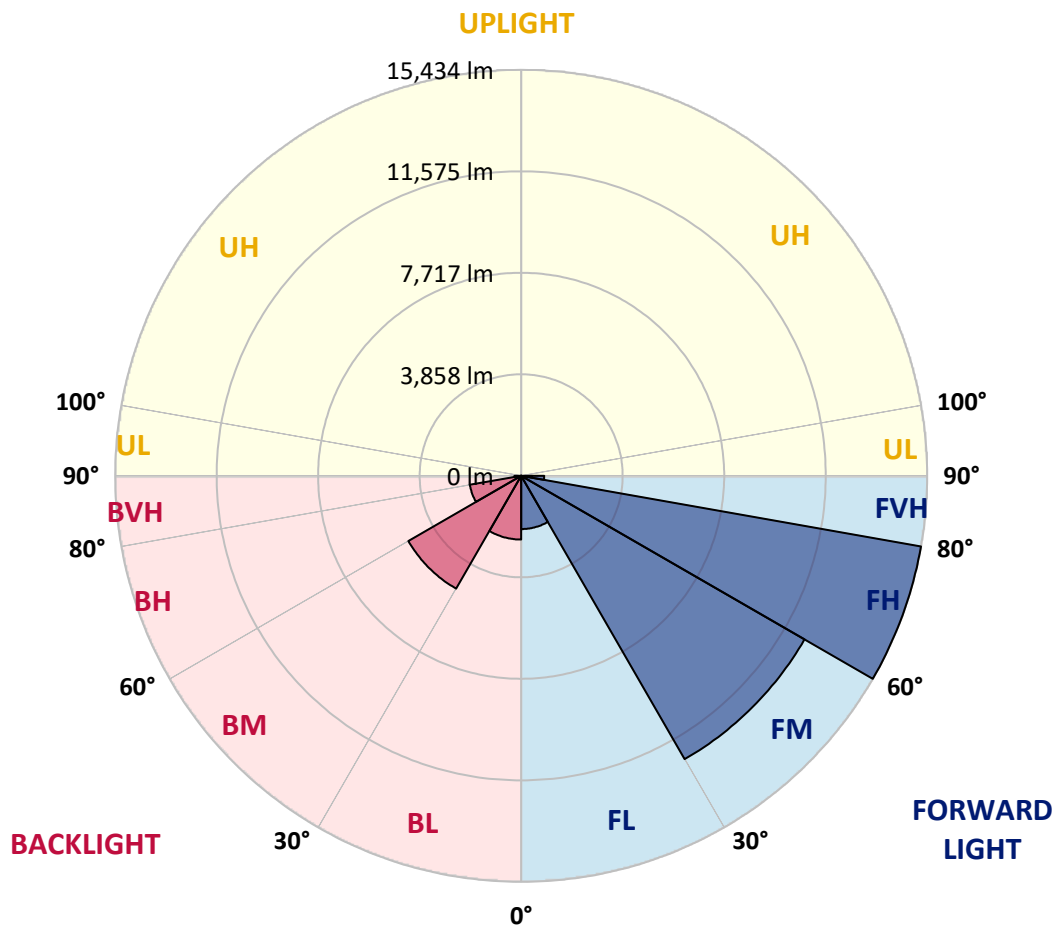
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2025.1	5.0			
FM	(30°-60°)	12435.8	30.8			
FH	(60°-80°)	15433.8	38.2			G5
FVH	(80°-90°)	878.2	2.2			G5
BL	(0°-30°)	2421.9	6.0	B3/2500		
BM	(30°-60°)	4951.7	12.3	B3/5000		
BH	(60°-80°)	1981.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	255.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3
2.5°	4962.2	4992.7	5005.8	4999.3	5032.0	5027.6	5073.5	5130.3	5208.8	5285.3	5396.6
5°	4580.1	4612.9	4641.2	4667.4	4730.7	4750.4	4822.4	4931.6	5075.7	5221.9	5405.3
7.5°	4224.3	4252.7	4296.3	4344.3	4451.3	4471.0	4591.0	4761.3	4962.2	5176.1	5429.3
10°	3933.9	3962.3	4008.1	4062.7	4195.9	4219.9	4372.7	4599.8	4861.7	5132.4	5455.5
12.5°	3809.5	3818.2	3844.4	3899.0	4014.7	4030.0	4198.1	4457.9	4763.5	5099.7	5494.8
15°	3802.9	3820.4	3822.6	3851.0	3947.0	3953.6	4108.6	4366.2	4702.4	5093.1	5553.8
17.5°	3868.4	3881.5	3861.9	3879.3	3960.1	3971.0	4093.3	4322.5	4682.7	5121.5	5654.2
20°	4043.1	4054.0	3995.0	3971.0	4030.0	4038.7	4158.8	4350.9	4702.4	5180.5	5791.7
22.5°	4414.2	4420.7	4276.7	4178.4	4182.8	4187.2	4291.9	4466.6	4778.8	5287.4	5966.4
25°	4992.7	4988.4	4759.1	4569.2	4460.0	4436.0	4505.9	4654.3	4907.6	5429.3	6191.2
27.5°	5669.5	5636.7	5407.5	5123.7	4885.7	4850.8	4835.5	4898.8	5091.0	5617.1	6466.3
30°	6433.6	6403.0	6156.3	5785.2	5455.5	5398.8	5254.7	5221.9	5363.8	5872.5	6848.3
32.5°	7271.9	7252.2	6957.5	6507.8	6066.8	6001.3	5759.0	5671.7	5783.0	6258.9	7381.0
35°	7974.8	7957.3	7712.8	7250.0	6710.8	6630.0	6383.3	6285.1	6341.9	6754.5	8077.4
37.5°	8610.1	8601.4	8391.8	8027.2	7470.5	7372.3	7095.0	7062.3	7051.4	7407.2	8922.3
40°	9199.5	9177.7	8959.4	8767.3	8354.7	8265.2	8020.7	7992.3	7909.3	8210.6	9878.5
42.5°	9852.3	9795.5	9479.0	9389.5	9278.1	9203.9	9057.6	9062.0	8878.6	9116.6	10891.4
45°	10384.9	10352.2	10026.9	9974.5	10094.6	10064.0	10190.6	10223.4	9867.6	10066.2	11943.7
47.5°	10956.9	10926.3	10651.3	10614.2	10939.4	10948.2	11395.7	11406.6	10832.5	11053.0	12998.1
50°	11662.0	11618.4	11345.5	11391.3	11755.9	11788.7	12607.3	12533.1	11721.0	12055.0	14043.8
52.5°	12127.0	12153.2	12094.3	12168.5	12666.3	12696.8	13799.3	13609.4	12600.8	13043.9	15069.8
55°	12469.8	12522.2	12705.6	12875.8	13626.8	13657.4	14923.6	14633.2	13329.9	13960.8	16034.8
57.5°	12910.8	12836.5	13179.3	13511.1	14539.4	14620.1	16017.3	15620.0	13976.1	14751.1	16696.2
60°	13543.9	13491.5	13757.8	14249.0	15561.0	15689.8	17174.3	16508.5	14449.8	15377.7	16825.0
62.5°	14827.5	14696.5	14738.0	15172.5	16849.1	17019.3	18479.8	17283.5	14685.6	15622.2	16135.2
65°	16746.5	16521.6	16312.0	16613.3	18663.2	18831.3	19953.4	17892.6	14598.3	15148.4	14303.6
67.5°	19163.1	18940.5	18682.9	18966.7	21335.3	21468.5	21771.9	18235.3	13910.6	13323.4	11066.1
70°	21156.3	21073.3	21381.1	22549.1	25603.2	25607.6	24103.5	17951.5	12026.6	9446.2	6403.0
72.5°	20892.1	20841.9	22464.0	26074.8	30982.4	30866.7	26310.6	15803.4	8101.4	4261.4	2399.2
75°	17139.4	17464.7	19977.4	26011.5	32914.4	32899.1	24959.2	10046.6	3351.0	1766.1	1240.0
77.5°	9190.8	9706.0	12969.7	19204.6	25694.9	26081.3	17547.6	3514.8	1438.7	1130.8	858.0
80°	2997.4	3447.1	5169.5	9778.0	16696.2	16624.2	7520.7	1379.7	984.6	801.2	593.8
82.5°	1272.7	1325.1	2309.7	4617.2	8568.6	8435.4	2394.8	792.5	692.0	548.0	366.8
85°	497.7	556.7	1019.5	2135.1	3711.2	3630.5	864.5	393.0	443.2	358.0	218.3
87.5°	163.7	198.7	364.6	731.3	1154.9	1113.4	211.8	135.4	192.1	163.7	78.6
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°	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3	5381.3
2.5°	5427.2	5462.1	5503.6	5564.7	5617.1	5660.7	5706.6	5735.0	5745.9	5778.6	5776.4
5°	5466.4	5542.9	5645.5	5745.9	5844.1	5903.1	5955.5	5981.7	6005.7	6023.1	6027.5
7.5°	5531.9	5630.2	5791.7	5922.7	6005.7	6053.7	6088.6	6079.9	6088.6	6093.0	6099.5
10°	5588.7	5726.2	5918.3	6042.8	6106.1	6108.3	6099.5	6069.0	6053.7	6055.9	6060.2
12.5°	5656.4	5809.2	6016.6	6121.4	6138.8	6090.8	6053.7	6001.3	5981.7	5972.9	5968.6
15°	5748.1	5922.7	6123.6	6162.9	6119.2	6058.1	5994.8	5909.6	5866.0	5831.0	5841.9
17.5°	5859.4	6051.5	6206.5	6178.1	6084.3	5983.8	5881.2	5752.4	5662.9	5625.8	5628.0
20°	6014.4	6186.9	6269.8	6145.4	6003.5	5850.7	5676.0	5518.8	5435.9	5398.8	5394.4
22.5°	6202.1	6368.1	6331.0	6088.6	5887.8	5643.3	5425.0	5309.3	5267.8	5241.6	5246.0
25°	6427.0	6568.9	6374.6	6005.7	5697.9	5368.2	5200.1	5163.0	5143.4	5123.7	5123.7
27.5°	6719.5	6795.9	6407.4	5883.4	5401.0	5075.7	5014.5	5021.1	5014.5	4981.8	4988.4
30°	7105.9	7090.7	6437.9	5684.8	5060.4	4811.5	4815.9	4844.3	4848.6	4826.8	4837.7
32.5°	7614.6	7459.6	6453.2	5427.2	4735.1	4580.1	4584.5	4615.0	4636.9	4599.8	4617.2
35°	8230.2	7889.7	6429.2	5104.1	4484.1	4359.6	4326.9	4335.6	4342.2	4307.2	4331.2
37.5°	8948.5	8372.1	6322.2	4746.0	4276.7	4143.5	4073.6	4014.7	3979.8	3947.0	3968.9
40°	9736.6	8898.3	6125.7	4396.7	4045.3	3914.3	3809.5	3698.1	3580.3	3536.6	3556.2
42.5°	10561.8	9439.7	5887.8	4062.7	3778.9	3672.0	3560.6	3399.1	3222.2	3132.7	3143.6
45°	11417.5	9994.2	5654.2	3733.1	3506.0	3460.2	3331.4	3137.1	2945.0	2831.5	2822.7
47.5°	12255.8	10518.1	5311.4	3401.2	3250.6	3300.8	3200.4	3021.4	2807.4	2628.4	2608.8
50°	13057.0	11009.3	4750.4	3065.1	3043.2	3252.8	3156.7	2899.1	2654.6	2425.4	2405.8
52.5°	13851.7	11406.6	4032.2	2759.4	2931.9	3239.7	3100.0	2816.2	2517.1	2277.0	2250.8
55°	14526.3	11611.8	3340.1	2497.5	2770.3	3128.4	3032.3	2717.9	2322.8	2067.4	2045.6
57.5°	14910.5	11445.9	2763.8	2239.8	2547.7	2945.0	2916.6	2508.4	2091.4	1894.9	1868.7
60°	14744.6	10773.5	2292.2	2015.0	2335.9	2746.3	2715.8	2301.0	1914.6	1729.0	1702.8
62.5°	13829.9	9492.1	1918.9	1818.5	2143.8	2543.3	2514.9	2141.6	1779.2	1600.2	1571.8
65°	11987.3	7721.6	1628.6	1654.8	1949.5	2298.8	2340.3	2008.4	1672.2	1497.6	1469.2
67.5°	9142.8	5593.1	1401.5	1512.9	1759.6	2058.7	2178.7	1912.4	1582.7	1416.8	1390.6
70°	5211.0	3176.4	1209.4	1375.3	1591.5	1836.0	2054.3	1836.0	1486.7	1349.1	1331.7
72.5°	1975.7	1458.3	1045.7	1237.8	1429.9	1648.2	1916.7	1715.9	1375.3	1272.7	1255.3
75°	1054.4	888.5	879.8	1076.3	1244.4	1464.9	1744.3	1598.0	1292.4	1344.8	1388.4
77.5°	718.2	628.7	735.7	921.3	1041.3	1261.8	1560.9	1419.0	1119.9	1115.6	1028.2
80°	497.7	445.3	598.2	742.2	805.6	1061.0	1362.2	1218.2	912.5	851.4	814.3
82.5°	299.1	290.4	447.5	554.5	569.8	818.7	1128.7	1021.7	746.6	650.6	654.9
85°	163.7	172.5	286.0	325.3	331.8	572.0	884.1	790.3	574.2	482.5	486.8
87.5°	45.8	58.9	104.8	128.8	159.4	296.9	526.1	469.4	288.2	200.8	200.8
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)