

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: P944519

Luminaire Tested: **GALN-SB9C-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944519
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-SB9C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67420 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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



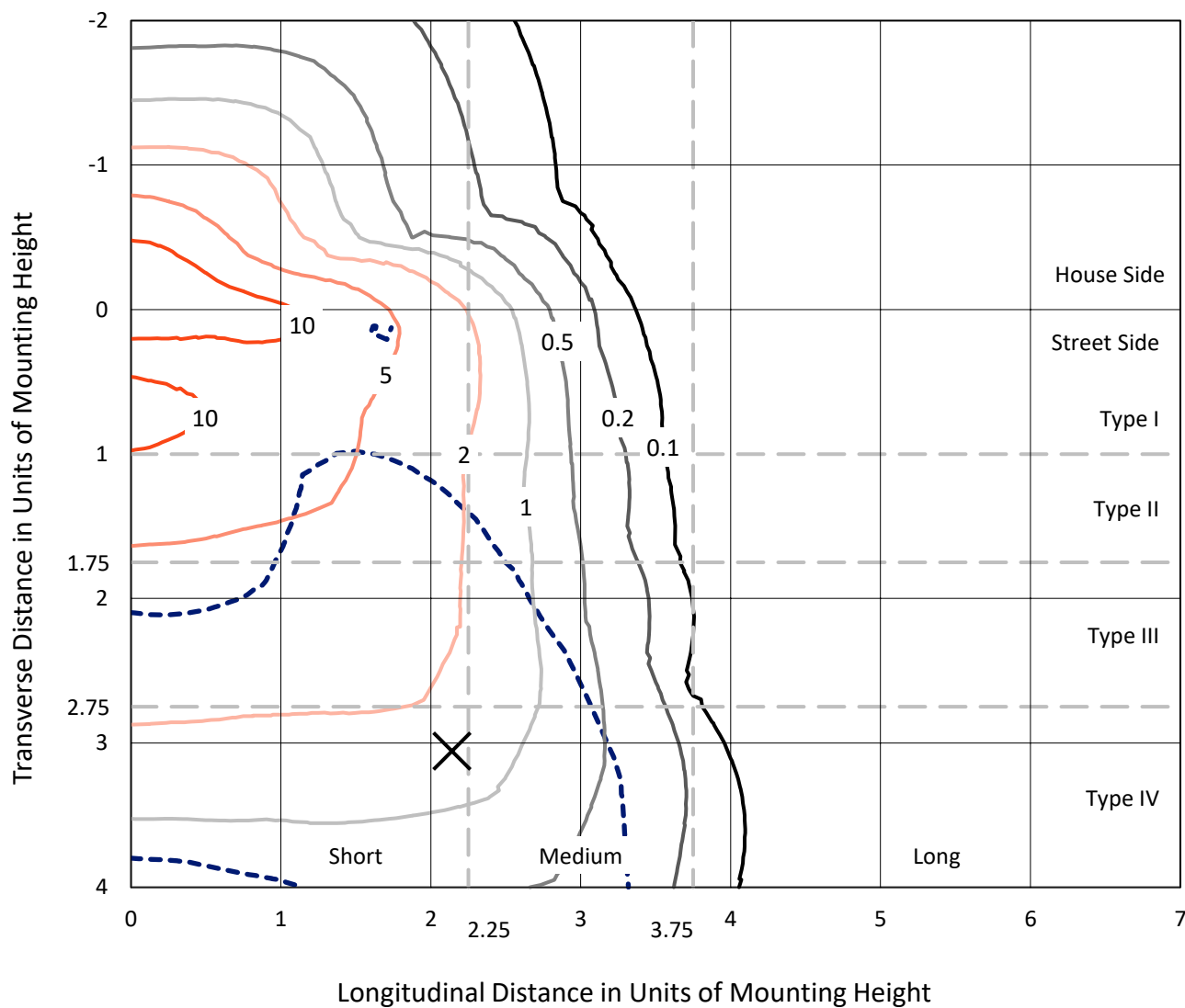
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

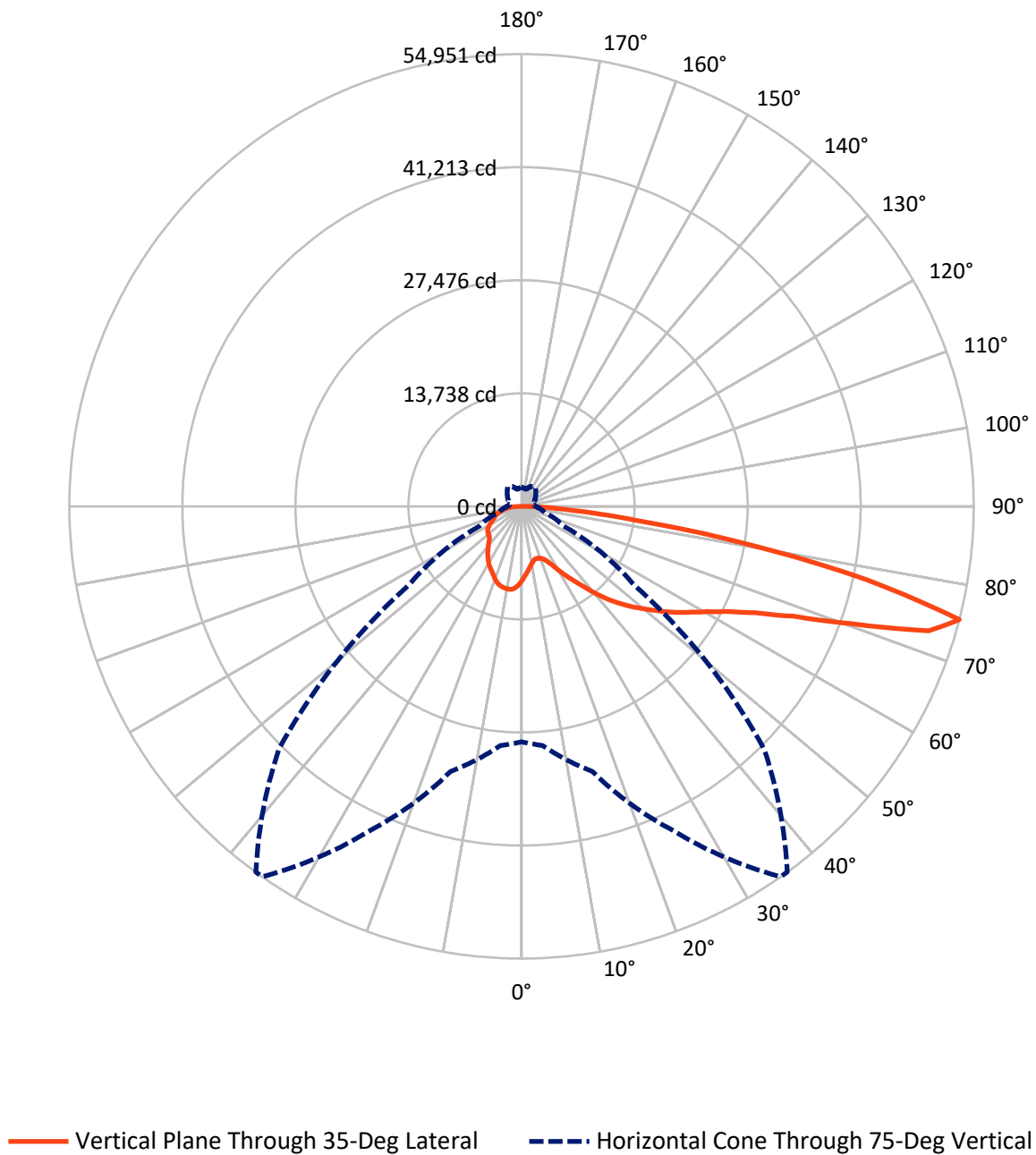


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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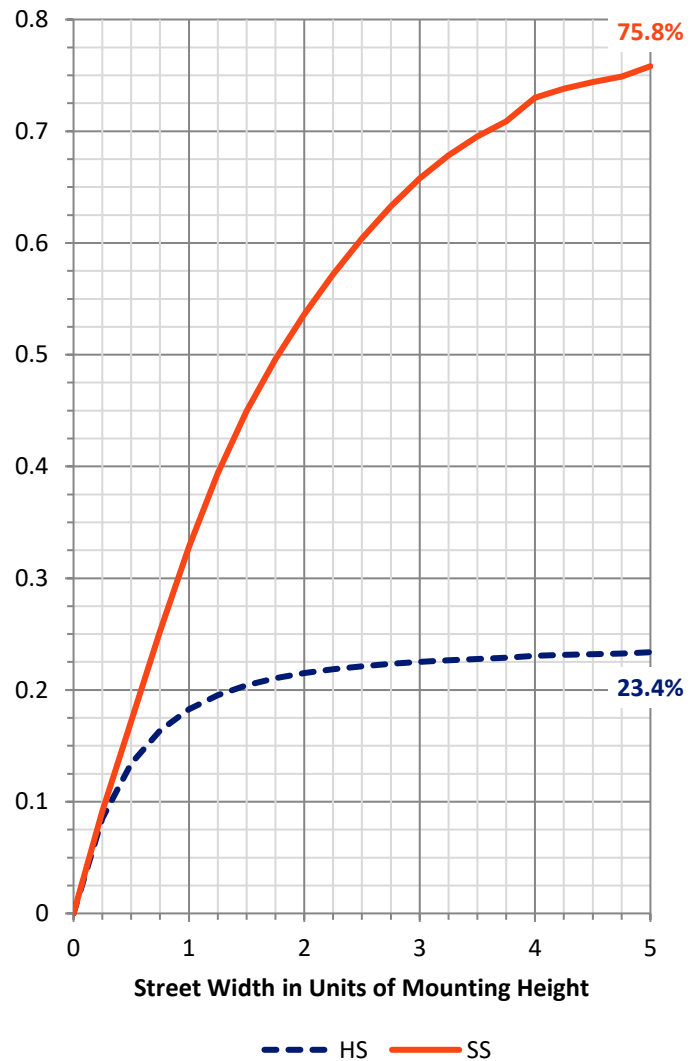
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16044.3	0.0	16044.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	51375.7	0.0	51375.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	67420.0	0.0	67420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.6	1.3
10°-20°	2453.6	3.6
20°-30°	4120.2	6.1
30°-40°	6403.3	9.5
40°-50°	9504.2	14.1
50°-60°	13121.1	19.5
60°-70°	15918.9	23.6
70°-80°	13155.8	19.5
80°-90°	1892.2	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°	67420.0	100.0
0°-180°	67420.0	100.0

Coefficient of Utilization



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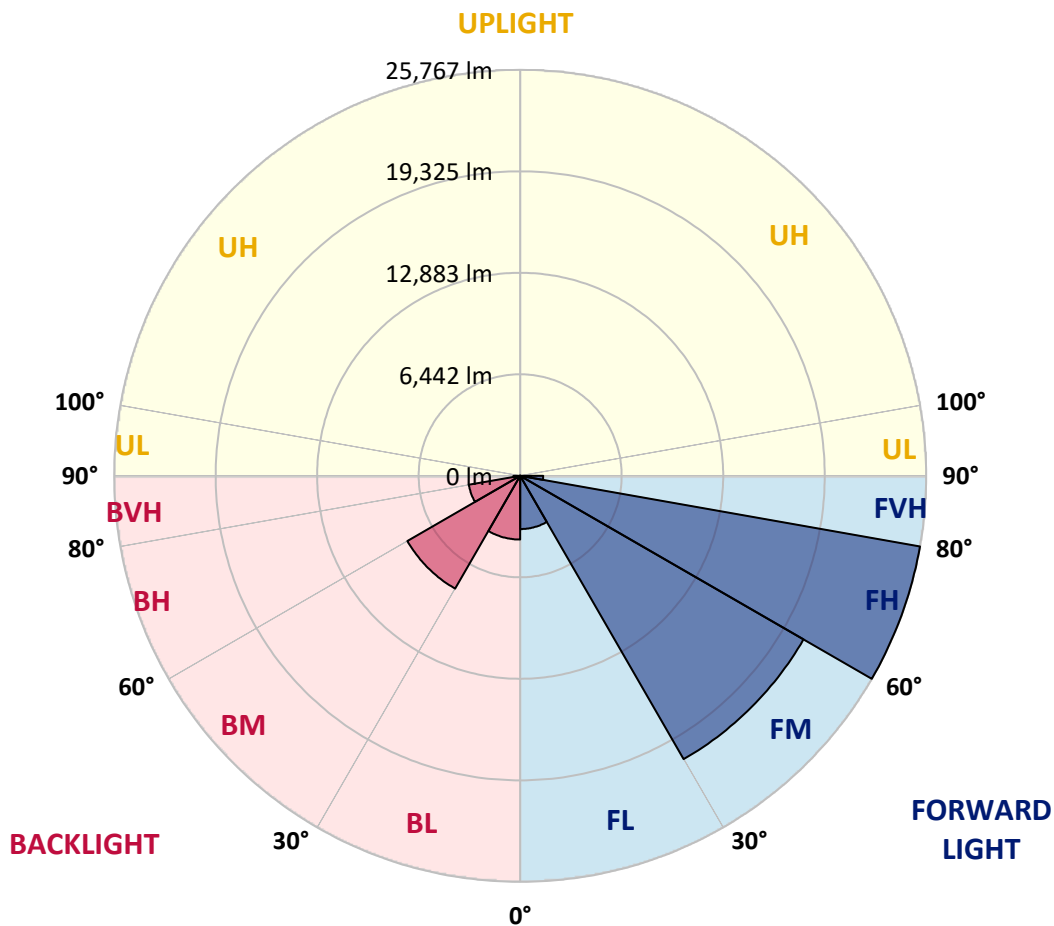
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3381.0	5.0			
FM	(30°-60°)	20761.7	30.8			
FH	(60°-80°)	25766.9	38.2			G5
FVH	(80°-90°)	1466.1	2.2			G5
BL	(0°-30°)	4043.4	6.0	B4/5000		
BM	(30°-60°)	8267.0	12.3	B4/8500		
BH	(60°-80°)	3307.8	4.9	B4/5000		G4/5000
BVH	(80°-90°)	426.1	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2
2.5°	8284.4	8335.4	8357.3	8346.3	8401.0	8393.7	8470.3	8565.0	8696.2	8823.8	9009.7
5°	7646.6	7701.2	7748.6	7792.4	7898.1	7930.9	8051.1	8233.4	8473.9	8718.1	9024.3
7.5°	7052.5	7099.9	7172.8	7252.9	7431.5	7464.3	7664.8	7949.1	8284.4	8641.6	9064.4
10°	6567.7	6615.1	6691.7	6782.8	7005.1	7045.2	7300.3	7679.4	8116.7	8568.7	9108.1
12.5°	6360.0	6374.6	6418.3	6509.4	6702.6	6728.1	7008.7	7442.5	7952.7	8514.0	9173.7
15°	6349.1	6378.2	6381.9	6429.2	6589.6	6600.5	6859.3	7289.4	7850.7	8503.1	9272.1
17.5°	6458.4	6480.3	6447.5	6476.6	6611.5	6629.7	6833.8	7216.5	7817.9	8550.5	9439.8
20°	6750.0	6768.2	6669.8	6629.7	6728.1	6742.7	6943.1	7263.9	7850.7	8648.9	9669.4
22.5°	7369.6	7380.5	7140.0	6975.9	6983.2	6990.5	7165.5	7457.0	7978.2	8827.4	9960.9
25°	8335.4	8328.1	7945.4	7628.3	7446.1	7406.0	7522.6	7770.5	8193.3	9064.4	10336.4
27.5°	9465.3	9410.6	9027.9	8554.1	8156.8	8098.5	8073.0	8178.7	8499.4	9377.8	10795.6
30°	10740.9	10689.9	10278.0	9658.4	9108.1	9013.3	8772.8	8718.1	8955.0	9804.2	11433.4
32.5°	12140.5	12107.7	11615.6	10864.8	10128.6	10019.3	9614.7	9468.9	9654.8	10449.3	12322.7
35°	13314.1	13284.9	12876.7	12104.0	11203.8	11068.9	10657.1	10493.1	10587.8	11276.7	13485.4
37.5°	14374.7	14360.1	14010.2	13401.5	12472.1	12308.1	11845.3	11790.6	11772.4	12366.4	14895.9
40°	15358.7	15322.3	14957.8	14637.1	13948.2	13798.8	13390.6	13343.2	13204.7	13707.7	16492.2
42.5°	16448.5	16353.7	15825.3	15675.8	15490.0	15366.0	15121.8	15129.1	14823.0	15220.2	18183.4
45°	17337.8	17283.1	16740.1	16652.6	16853.1	16802.0	17013.4	17068.1	16474.0	16805.7	19940.1
47.5°	18292.7	18241.7	17782.5	17720.5	18263.6	18278.1	19025.3	19043.5	18085.0	18453.1	21700.5
50°	19470.0	19397.1	18941.5	19018.0	19626.7	19681.3	21048.1	20924.2	19568.4	20126.0	23446.3
52.5°	20246.3	20290.0	20191.6	20315.5	21146.5	21197.5	23038.1	22721.0	21037.2	21777.0	25159.3
55°	20818.5	20906.0	21212.1	21496.4	22750.2	22801.2	24915.1	24430.4	22254.5	23307.8	26770.3
57.5°	21554.7	21430.8	22003.0	22557.0	24273.7	24408.5	26741.1	26077.8	23333.3	24627.2	27874.6
60°	22611.7	22524.2	22968.9	23788.9	25979.4	26194.4	28672.8	27561.2	24124.2	25673.2	28089.7
62.5°	24754.8	24536.1	24605.3	25330.6	28129.7	28414.0	30852.3	28855.0	24517.9	26081.4	26937.9
65°	27958.4	27583.0	27233.2	27736.1	31158.5	31439.1	33312.5	29871.9	24372.1	25290.5	23880.0
67.5°	31993.1	31621.4	31191.3	31665.1	35619.6	35841.9	36348.5	30444.1	23224.0	22243.6	18475.0
70°	35320.7	35182.2	35696.1	37646.0	42745.0	42752.3	40241.1	29970.3	20078.6	15770.6	10689.9
72.5°	34879.7	34795.9	37503.9	43532.2	51725.5	51532.3	43925.9	26383.9	13525.5	7114.4	4005.5
75°	28614.5	29157.6	33352.6	43426.5	54951.1	54925.5	41669.8	16772.9	5594.6	2948.6	2070.2
77.5°	15344.2	16204.3	21653.1	32062.4	42898.1	43543.2	29296.1	5868.0	2401.9	1888.0	1432.4
80°	5004.2	5755.0	8630.6	16324.6	27874.6	27754.3	12556.0	2303.4	1643.8	1337.6	991.4
82.5°	2124.9	2212.3	3856.1	7708.5	14305.4	14083.1	3998.2	1323.0	1155.4	914.8	612.3
85°	831.0	929.4	1702.1	3564.5	6196.0	6061.1	1443.3	656.0	739.9	597.7	364.5
87.5°	273.4	331.7	608.7	1221.0	1928.0	1858.8	353.5	226.0	320.7	273.4	131.2
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°	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2	8984.2
2.5°	9060.7	9119.0	9188.3	9290.3	9377.8	9450.7	9527.2	9574.6	9592.8	9647.5	9643.9
5°	9126.3	9253.9	9425.2	9592.8	9756.8	9855.3	9942.7	9986.5	10026.6	10055.7	10063.0
7.5°	9235.7	9399.7	9669.4	9888.1	10026.6	10106.7	10165.1	10150.5	10165.1	10172.3	10183.3
10°	9330.4	9560.0	9880.8	10088.5	10194.2	10197.9	10183.3	10132.2	10106.7	10110.4	10117.7
12.5°	9443.4	9698.5	10044.8	10219.7	10248.9	10168.7	10106.7	10019.3	9986.5	9971.9	9964.6
15°	9596.5	9888.1	10223.4	10289.0	10216.1	10114.0	10008.3	9866.2	9793.3	9735.0	9753.2
17.5°	9782.4	10103.1	10361.9	10314.5	10157.8	9990.1	9818.8	9603.8	9454.3	9392.4	9396.0
20°	10041.1	10329.1	10467.6	10259.8	10022.9	9767.8	9476.2	9213.8	9075.3	9013.3	9006.0
22.5°	10354.6	10631.6	10569.6	10165.1	9829.7	9421.5	9057.1	8863.9	8794.6	8750.9	8758.2
25°	10730.0	10966.9	10642.5	10026.6	9512.7	8962.3	8681.7	8619.7	8586.9	8554.1	8554.1
27.5°	11218.4	11345.9	10697.2	9822.5	9017.0	8473.9	8371.9	8382.8	8371.9	8317.2	8328.1
30°	11863.5	11838.0	10748.2	9490.8	8448.4	8032.9	8040.2	8087.6	8094.9	8058.4	8076.6
32.5°	12712.7	12453.9	10773.7	9060.7	7905.3	7646.6	7653.9	7704.9	7741.3	7679.4	7708.5
35°	13740.5	13171.9	10733.6	8521.3	7486.2	7278.5	7223.8	7238.4	7249.3	7191.0	7231.1
37.5°	14939.6	13977.4	10555.0	7923.6	7140.0	6917.6	6801.0	6702.6	6644.3	6589.6	6626.1
40°	16255.3	14855.8	10227.0	7340.4	6753.6	6534.9	6360.0	6174.1	5977.3	5904.4	5937.2
42.5°	17633.0	15759.7	9829.7	6782.8	6309.0	6130.4	5944.5	5674.8	5379.6	5230.1	5248.4
45°	19061.8	16685.4	9439.8	6232.4	5853.4	5776.8	5561.8	5237.4	4916.7	4727.2	4712.6
47.5°	20461.3	17560.1	8867.5	5678.4	5426.9	5510.8	5343.1	5044.3	4687.1	4388.2	4355.4
50°	21798.9	18380.2	7930.9	5117.2	5080.7	5430.6	5270.2	4840.2	4431.9	4049.3	4016.5
52.5°	23125.6	19043.5	6731.8	4606.9	4894.8	5408.7	5175.5	4701.7	4202.3	3801.4	3757.7
55°	24251.8	19386.1	5576.4	4169.5	4625.1	5222.8	5062.5	4537.6	3878.0	3451.5	3415.1
57.5°	24893.3	19109.1	4614.2	3739.5	4253.4	4916.7	4869.3	4187.8	3491.6	3163.6	3119.9
60°	24616.3	17986.6	3826.9	3364.1	3899.8	4585.0	4534.0	3841.5	3196.4	2886.6	2842.9
62.5°	23089.1	15847.1	3203.7	3036.0	3579.1	4246.1	4198.7	3575.4	2970.4	2671.6	2624.2
65°	20013.0	12891.3	2718.9	2762.7	3254.7	3837.9	3907.1	3353.1	2791.8	2500.3	2452.9
67.5°	15264.0	9337.7	2339.9	2525.8	2937.6	3436.9	3637.4	3192.8	2642.4	2365.4	2321.7
70°	8699.9	5303.0	2019.2	2296.2	2657.0	3065.2	3429.7	3065.2	2482.0	2252.4	2223.3
72.5°	3298.4	2434.7	1745.8	2066.5	2387.3	2751.7	3200.0	2864.7	2296.2	2124.9	2095.7
75°	1760.4	1483.4	1468.8	1796.8	2077.5	2445.6	2912.1	2667.9	2157.7	2245.1	2318.0
77.5°	1199.1	1049.7	1228.3	1538.1	1738.5	2106.6	2606.0	2369.1	1869.7	1862.4	1716.7
80°	831.0	743.5	998.6	1239.2	1344.9	1771.3	2274.3	2033.7	1523.5	1421.4	1359.5
82.5°	499.3	484.7	747.2	925.8	951.3	1366.8	1884.3	1705.7	1246.5	1086.1	1093.4
85°	273.4	287.9	477.5	543.1	554.0	954.9	1476.1	1319.4	958.6	805.5	812.8
87.5°	76.5	98.4	174.9	215.0	266.1	495.7	878.4	783.6	481.1	335.3	335.3
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)