

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: P301135

Luminaire Tested: **GLNA-AF-10-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-T3R-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58063.6 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

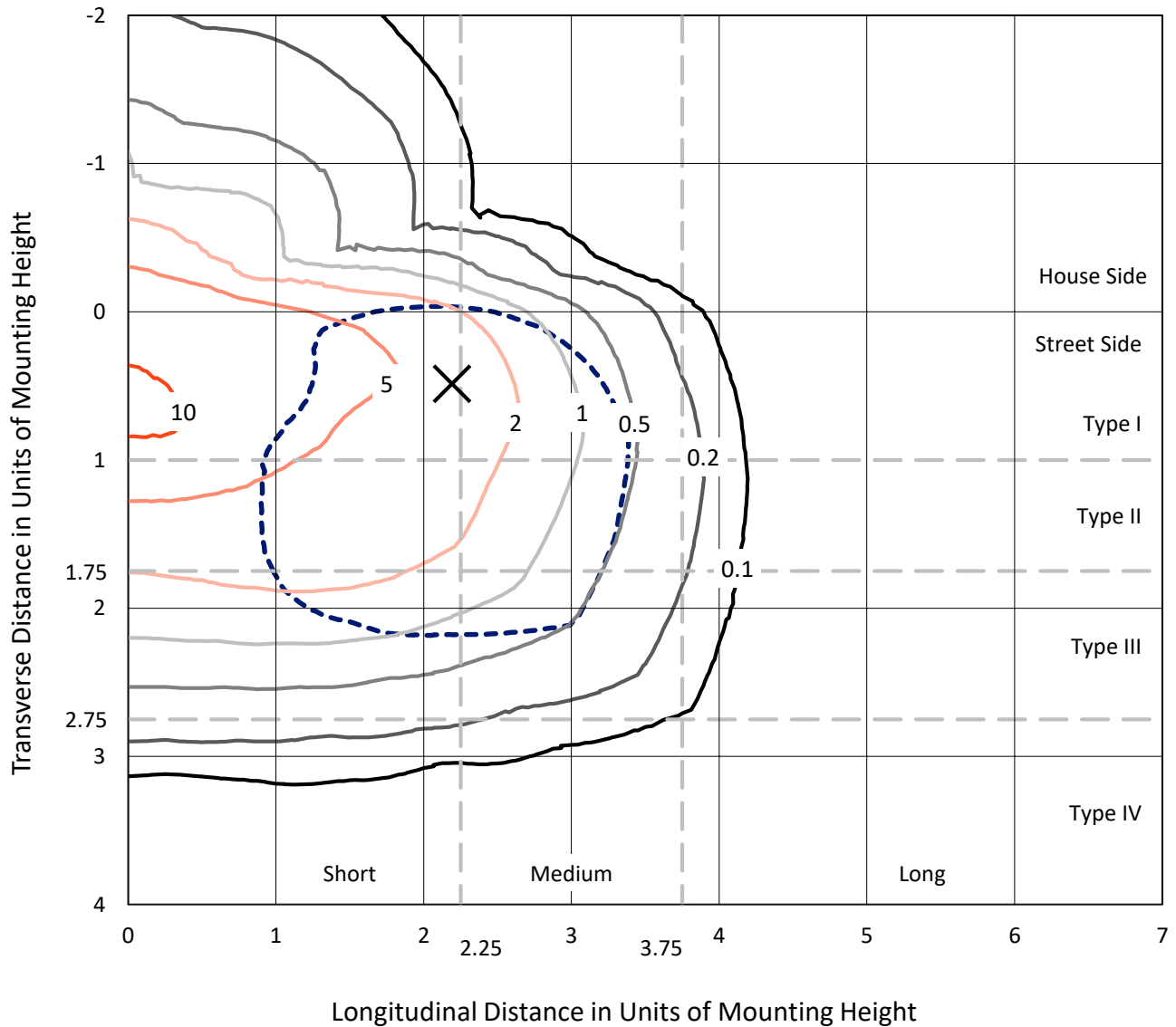
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P301135
 CATALOG NUMBER: GLNA-AF-10-LED-E1-T3R-7030

Iso-Footcandle Lines of Horizontal Illumination

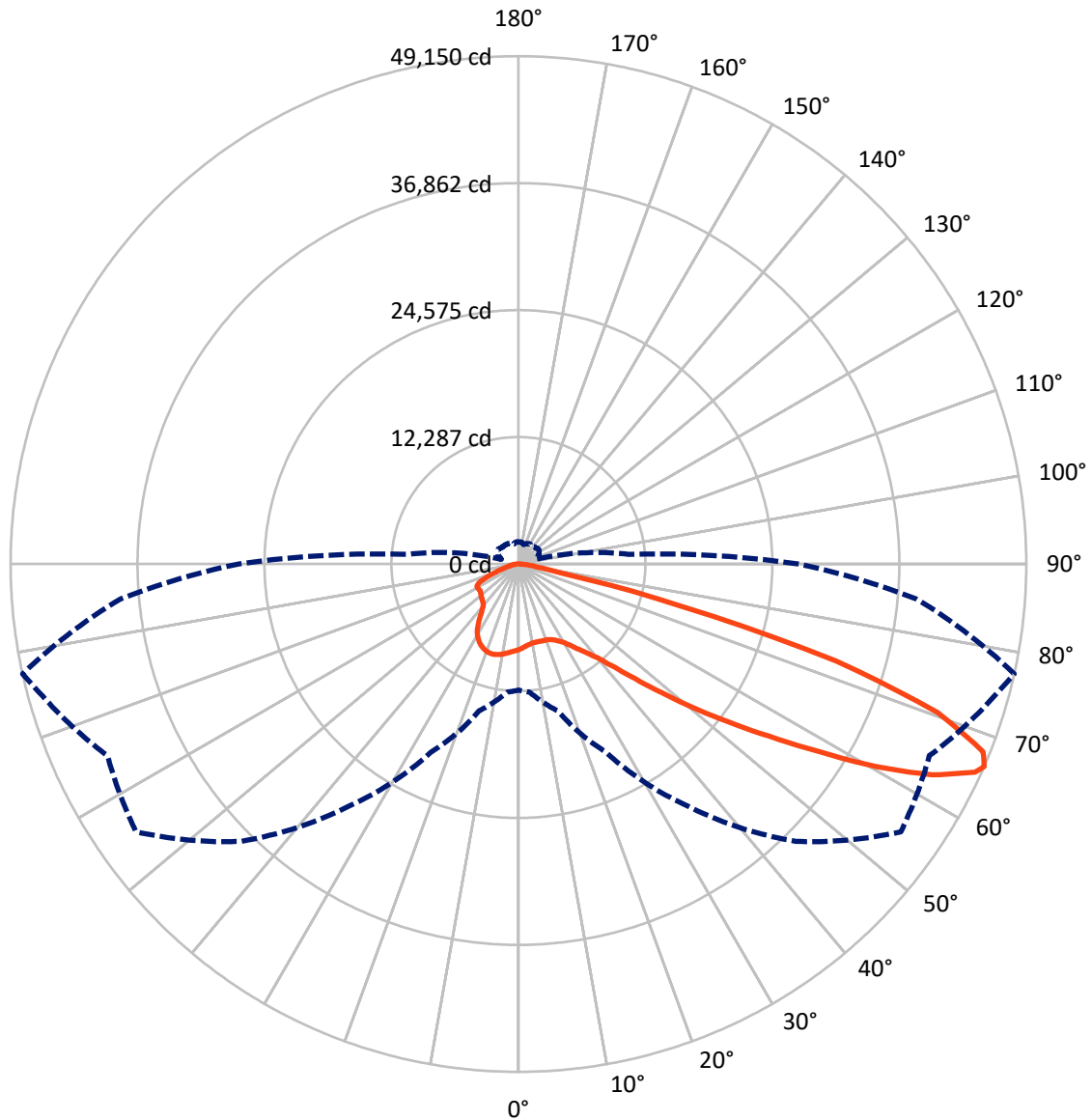
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P301135
CATALOG NUMBER: GLNA-AF-10-LED-E1-T3R-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P301135

CATALOG NUMBER: GLNA-AF-10-LED-E1-T3R-7030

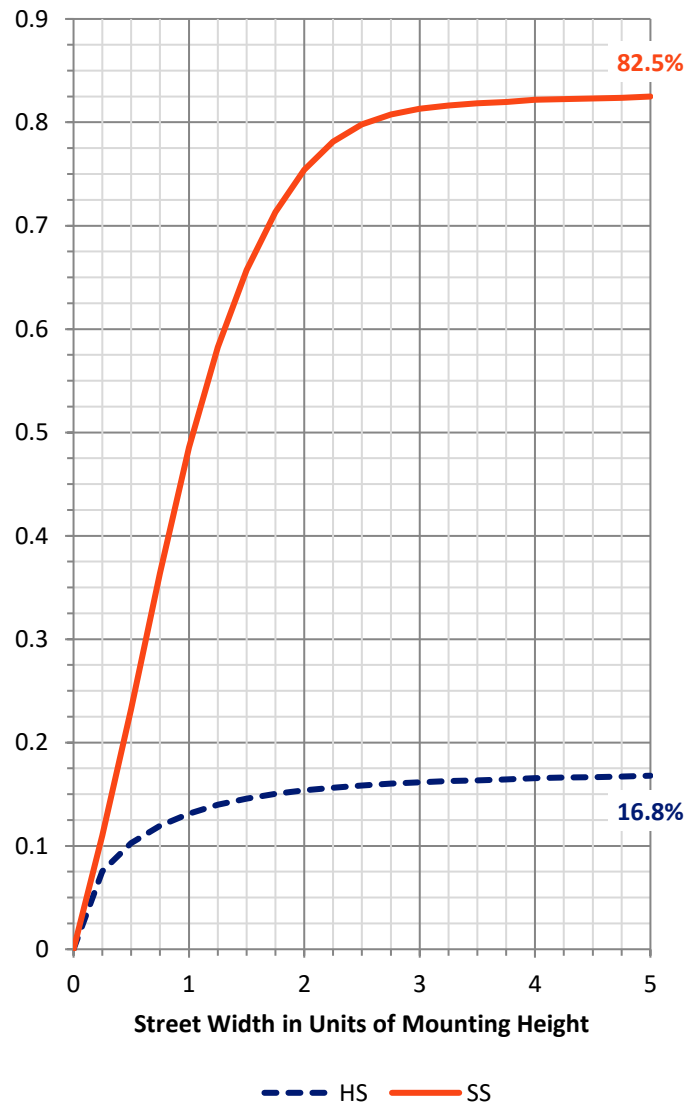
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9919.8	0.0	9919.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	48143.8	0.0	48143.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	58063.6	0.0	58063.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.2	1.3
10°-20°	2085.5	3.6
20°-30°	3559.3	6.1
30°-40°	5697.7	9.8
40°-50°	8802.5	15.2
50°-60°	12485.0	21.5
60°-70°	16701.5	28.8
70°-80°	7253.2	12.5
80°-90°	739.6	1.3
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°	58063.6	100.0
0°-180°	58063.6	100.0



REPORT NUMBER: P301135

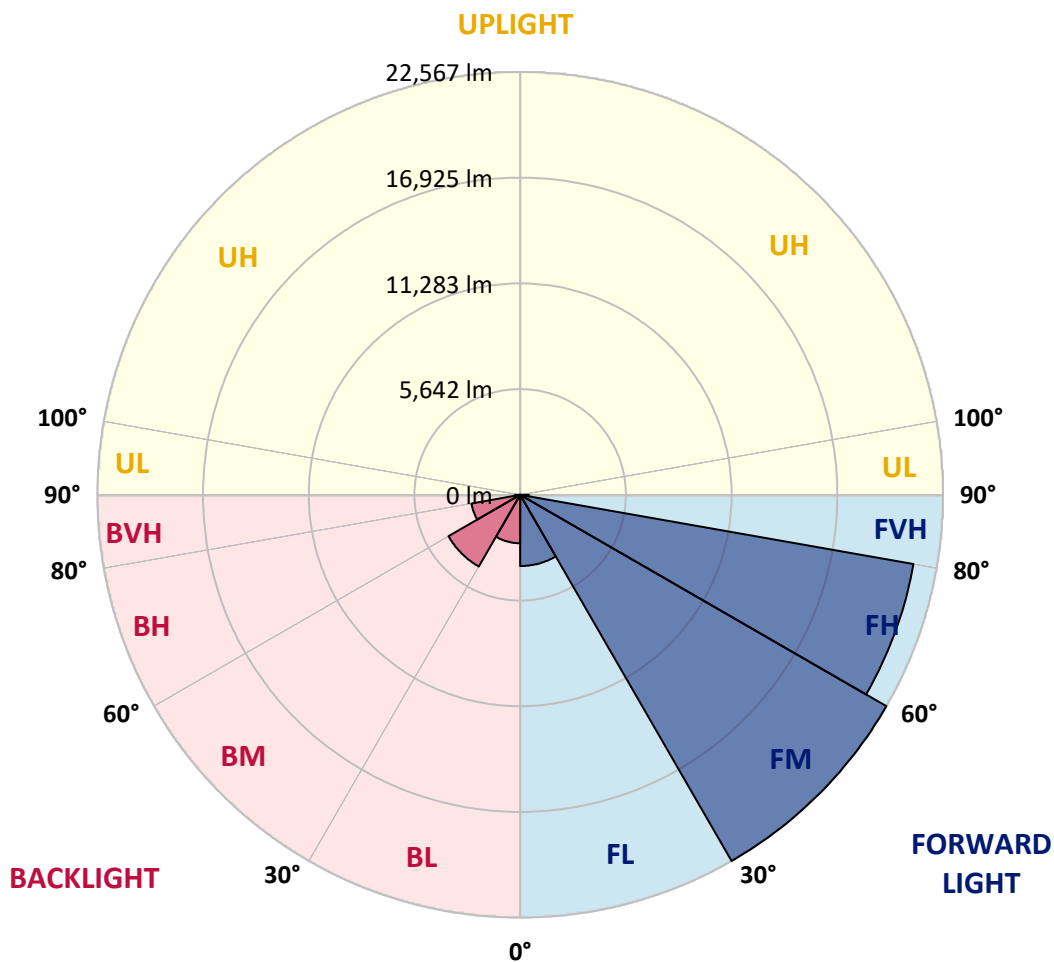
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3800.5	6.5			
FM	(30°-60°)	22566.5	38.9			
FH	(60°-80°)	21312.9	36.7			G5
FVH	(80°-90°)	463.9	0.8			G3/500
BL	(0°-30°)	2583.5	4.4	B4/5000		
BM	(30°-60°)	4418.7	7.6	B3/5000		
BH	(60°-80°)	2641.9	4.5	B4/5000		G4/5000
BVH	(80°-90°)	275.7	0.5			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 III Short





REPORT NUMBER: P301135

CATALOG NUMBER: GLNA-AF-10-LED-E1-T3R-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3
2.5°	7319.8	7368.8	7410.4	7448.6	7525.0	7651.3	7796.6	7914.6	8084.9	8118.1	8208.6
5°	6647.8	6647.8	6680.2	6738.4	6842.2	7031.6	7229.3	7492.6	7863.1	7950.3	8192.0
7.5°	6321.4	6323.9	6343.0	6392.0	6482.5	6655.3	6872.1	7182.8	7684.5	7829.8	8241.0
10°	6441.8	6414.4	6372.9	6348.8	6362.1	6463.4	6669.4	7015.0	7574.8	7760.9	8351.5
12.5°	7116.3	7064.8	6921.9	6732.5	6551.5	6477.5	6598.0	6935.2	7528.3	7745.1	8496.9
15°	8219.4	8197.8	7931.2	7539.1	7100.5	6732.5	6650.3	6905.3	7533.3	7764.2	8669.6
17.5°	9602.5	9571.8	9221.2	8650.5	7934.5	7218.5	6833.9	6930.2	7552.4	7796.6	8836.6
20°	10998.8	10905.0	10527.0	9846.7	8927.2	7878.9	7138.7	6993.4	7577.3	7832.3	9012.7
22.5°	12041.3	11964.1	11624.3	10963.1	9904.0	8644.7	7547.4	7103.0	7657.1	7937.0	9228.7
25°	12957.5	12962.5	12625.3	11986.5	10891.7	9457.1	8074.1	7396.2	7859.8	8150.5	9525.2
27.5°	14090.6	14024.9	13709.3	13075.5	11868.5	10277.0	8710.4	7799.9	8162.1	8455.3	9914.8
30°	15445.4	15398.9	15034.2	14315.7	12951.7	11157.5	9437.2	8268.4	8551.7	8855.7	10424.8
32.5°	17039.4	17017.8	16639.0	15714.5	14202.7	12195.0	10291.1	8888.9	9133.2	9448.8	11157.5
35°	18910.9	18913.4	18466.5	17355.1	15571.6	13401.9	11258.8	9687.2	9840.9	10169.8	12030.5
37.5°	20063.0	20202.6	20035.6	18902.6	17121.7	14751.8	12515.6	10746.3	10647.5	10979.7	12965.8
40°	20309.8	20480.0	21009.2	20433.5	18856.1	16238.7	13629.5	11763.9	11640.9	12046.3	14170.3
42.5°	19964.2	20200.1	21319.8	21725.2	20696.8	18071.1	15127.2	13275.7	13119.5	13665.3	15668.0
45°	19758.2	19934.3	21229.3	22398.0	22293.4	20142.8	17034.4	15173.8	15116.4	15832.5	17396.6
47.5°	19401.8	19561.3	20806.5	22554.2	23232.0	22040.9	19325.4	17495.5	17607.6	18546.3	19347.0
50°	19593.7	19659.3	20334.7	22156.3	23503.7	23432.2	21884.7	20183.5	20568.1	21739.3	21555.8
52.5°	19566.3	19736.6	20279.9	21503.4	23539.4	24291.1	24405.8	23182.2	23992.1	25336.1	24005.4
55°	15819.2	16131.5	19635.3	21338.9	23664.8	25132.6	26650.2	26342.9	27851.4	29418.0	26770.7
57.5°	15105.6	15303.3	17245.4	21684.5	24334.3	26740.8	29146.4	29821.7	32345.3	34164.4	30139.8
60°	14965.3	15209.5	17220.5	22107.3	25692.5	29360.7	32847.8	34033.2	37813.5	39805.5	34046.5
62.5°	14529.2	14792.5	17058.5	22051.7	27621.3	32984.9	37585.9	38510.5	42998.5	44935.6	37314.3
65°	13146.9	13393.6	15739.4	21166.2	28922.1	36853.3	43192.9	42614.8	47092.0	48548.2	38943.2
66°	12200.0	12441.7	14699.4	20123.7	28619.7	37950.6	45179.9	43884.9	48008.3	49149.6	38625.1
67.5°	10468.9	10658.3	12680.1	17788.7	27014.9	38257.9	46850.3	44839.3	48103.8	48507.5	36806.8
70°	6614.6	6669.4	8241.0	12279.7	20450.1	33179.2	44306.8	42469.4	44137.4	43045.1	30855.9
72.5°	2869.9	2850.8	3956.5	6246.6	11577.8	22263.5	35840.7	35042.4	34622.9	32131.8	21599.8
75°	1596.5	1619.0	2055.1	2899.9	4704.9	10935.7	23445.5	22436.3	18943.3	16164.7	9794.4
77.5°	1280.9	1311.6	1703.7	2057.6	2112.4	3813.6	10971.4	8927.2	5374.4	4312.8	2721.3
80°	1012.6	1067.4	1486.9	1602.4	1423.8	1571.6	3544.4	2834.2	2126.5	1950.4	1410.5
82.5°	800.8	839.8	1275.9	1212.8	996.0	1059.1	1697.9	1654.7	1383.1	1259.3	814.9
85°	576.5	647.1	1048.3	913.7	652.9	713.5	1127.2	1080.7	792.5	647.1	359.7
87.5°	235.9	307.3	741.0	606.4	364.7	332.3	562.4	529.1	375.5	274.1	178.6
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°	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3	8274.3
2.5°	8265.9	8331.6	8417.1	8469.5	8496.9	8516.0	8545.9	8543.4	8551.7	8554.2	8565.0
5°	8320.8	8430.4	8554.2	8587.4	8587.4	8556.7	8526.8	8476.9	8457.8	8452.8	8457.8
7.5°	8463.6	8584.1	8691.2	8653.0	8570.8	8449.5	8293.4	8156.3	8082.4	8057.4	8052.5
10°	8644.7	8790.1	8834.1	8688.8	8447.0	8156.3	7846.5	7621.3	7492.6	7456.9	7446.1
12.5°	8864.0	9001.1	8941.3	8633.9	8186.2	7717.7	7289.1	6930.2	6661.1	6576.4	6570.6
15°	9105.7	9212.9	9001.1	8463.6	7796.6	7105.5	6343.0	5723.3	5388.5	5281.4	5273.1
17.5°	9330.9	9385.7	8965.4	8167.1	7223.5	6104.6	5092.0	4614.3	4499.7	4527.1	4532.1
20°	9522.7	9522.7	8844.9	7741.8	6321.4	4784.6	4145.0	4137.5	4219.8	4302.0	4318.6
22.5°	9733.7	9607.5	8633.9	7141.2	5042.1	3914.9	3821.9	3898.3	3991.3	4081.9	4096.0
25°	9994.6	9676.4	8339.9	6230.8	3963.9	3555.2	3591.0	3654.1	3700.6	3758.8	3767.1
27.5°	10285.3	9763.6	7953.6	4976.5	3440.6	3331.0	3358.4	3380.0	3374.2	3396.6	3401.6
30°	10633.3	9865.8	7423.7	3890.0	3223.8	3138.3	3089.2	3070.1	3070.1	3105.9	3119.1
32.5°	11100.2	10016.2	6663.6	3333.5	3119.1	3001.2	2842.5	2771.1	2798.5	2919.0	2946.4
35°	11613.5	10178.1	5635.2	3144.1	3097.5	2938.1	2691.4	2559.3	2562.6	2674.7	2710.5
37.5°	12172.6	10384.1	4507.2	3108.3	3146.6	2941.4	2611.6	2430.5	2356.6	2356.6	2370.7
40°	12888.6	10595.1	3649.1	3133.3	3251.2	2973.8	2570.9	2329.2	2120.7	2126.5	2137.3
42.5°	13821.4	10776.2	3188.1	3184.8	3377.5	3017.8	2567.6	2194.6	2013.5	2137.3	2249.4
45°	14858.9	10866.8	2984.6	3232.1	3478.8	3045.2	2524.4	2173.0	2027.7	2394.8	2609.1
47.5°	16051.8	10814.4	2872.4	3247.9	3503.7	3045.2	2474.6	2225.4	2123.2	2773.6	3023.6
50°	17360.9	10664.1	2762.8	3215.5	3495.4	3039.4	2521.1	2276.9	2158.9	2839.2	3012.0
52.5°	18900.1	10537.8	2647.3	3144.1	3437.3	3009.5	2575.9	2255.3	2046.8	2581.7	2702.2
55°	20655.3	10573.5	2518.6	3042.7	3346.7	2952.2	2556.8	2167.2	1928.8	2274.4	2348.3
57.5°	22899.8	10998.8	2364.9	2914.0	3223.8	2855.8	2488.7	2126.5	1893.1	2063.4	2107.4
60°	25404.2	11739.0	2173.0	2784.4	3070.1	2702.2	2436.3	2145.6	1909.7	2046.8	2068.4
62.5°	27242.5	12170.1	2008.5	2595.0	2861.6	2531.9	2370.7	2169.7	1953.7	2104.1	2099.1
65°	27741.7	11462.3	1802.5	2318.4	2579.2	2354.1	2287.7	2197.1	1972.8	2150.6	2126.5
66°	27042.3	10699.8	1712.0	2189.6	2436.3	2266.1	2246.9	2194.6	1964.5	2156.4	2114.9
67.5°	25344.4	9135.7	1555.8	2000.2	2208.7	2134.8	2181.3	2169.7	1942.1	2150.6	2093.3
70°	20669.4	6233.3	1330.7	1665.5	1838.3	1879.0	2055.1	2082.5	1870.7	2055.1	1928.8
72.5°	14441.9	3797.0	1177.1	1292.5	1486.9	1602.4	1882.3	1961.2	1775.1	1794.2	1673.8
75°	6979.2	2016.9	1067.4	1001.8	1154.6	1339.0	1673.8	1796.7	1623.9	1501.0	1457.0
77.5°	2175.5	1231.9	905.4	806.6	905.4	1080.7	1398.8	1574.9	1446.2	1256.8	1240.2
80°	1168.7	905.4	696.9	647.1	716.0	848.1	1099.8	1314.1	1242.7	1127.2	1006.8
82.5°	770.9	587.3	515.8	501.7	545.7	647.1	817.4	1089.0	1089.0	966.1	702.7
85°	397.9	359.7	353.9	353.9	381.3	431.1	556.5	839.8	894.6	510.0	422.8
87.5°	197.7	206.0	191.9	200.2	214.3	211.0	265.8	422.8	505.0	309.8	257.5
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)