

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: P531380

Luminaire Tested: **GALN-SA6C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28027 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 321
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

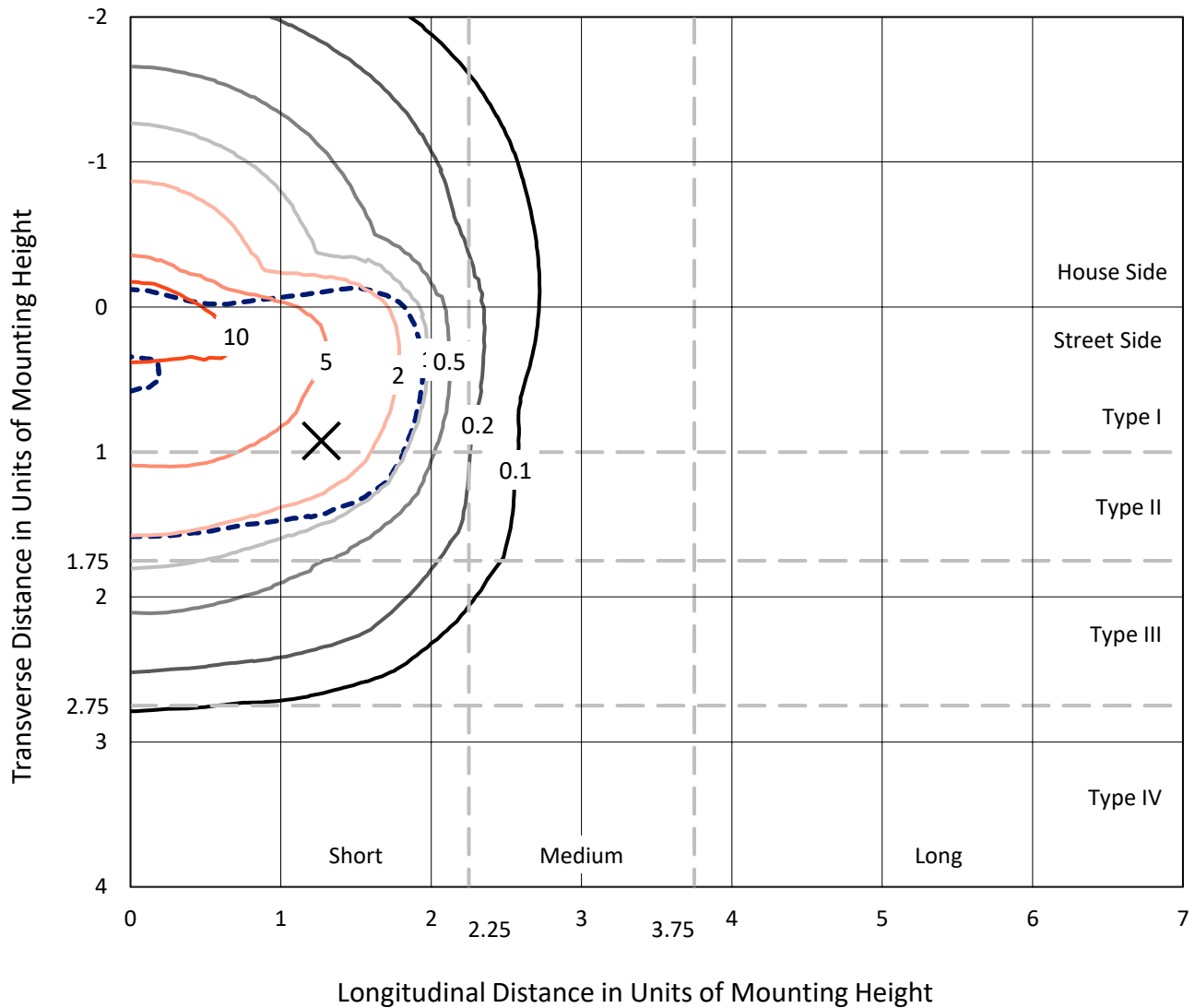


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Iso-Footcandle Lines of Horizontal Illumination

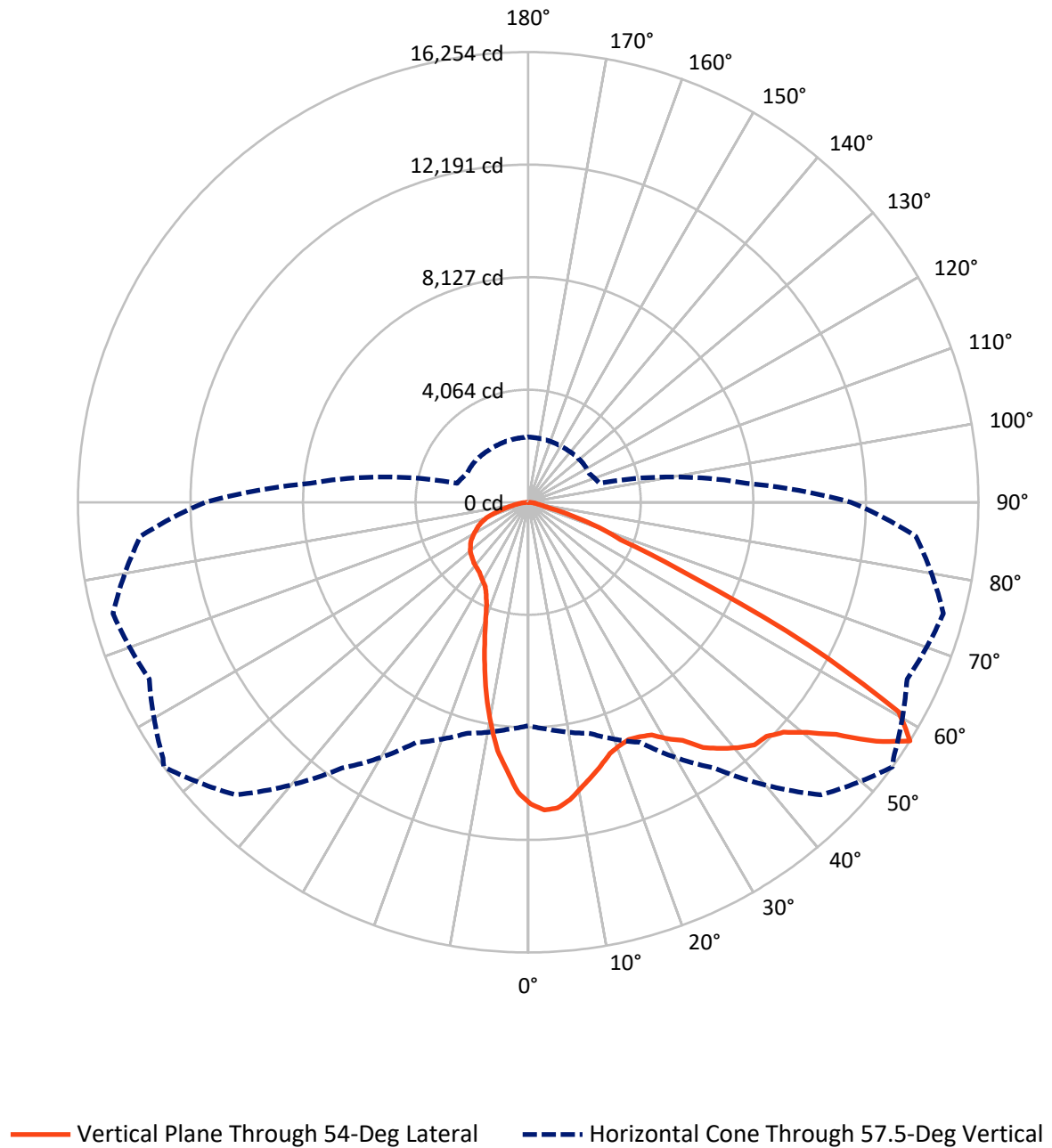
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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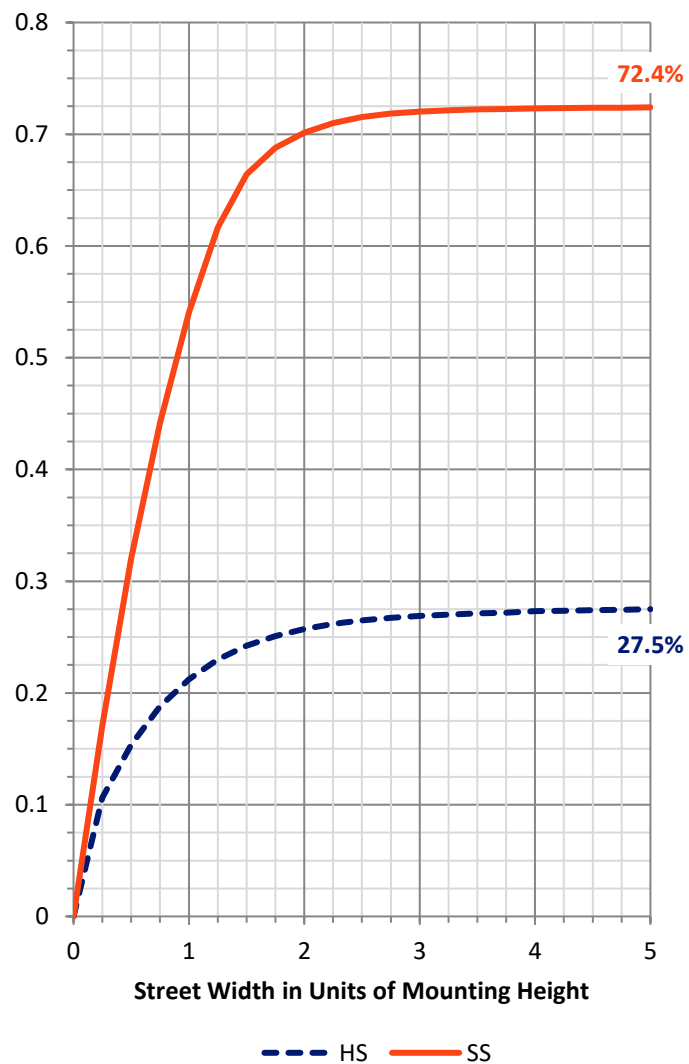
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7753.8	0.0	7753.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20273.2	0.0	20273.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	28027.0	0.0	28027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.5	3.4
10°-20°	2175.2	7.8
20°-30°	3056.2	10.9
30°-40°	4272.7	15.2
40°-50°	5784.4	20.6
50°-60°	7045.6	25.1
60°-70°	3669.7	13.1
70°-80°	940.3	3.4
80°-90°	143.4	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°	28027.0	100.0
0°-180°	28027.0	100.0

Coefficient of Utilization



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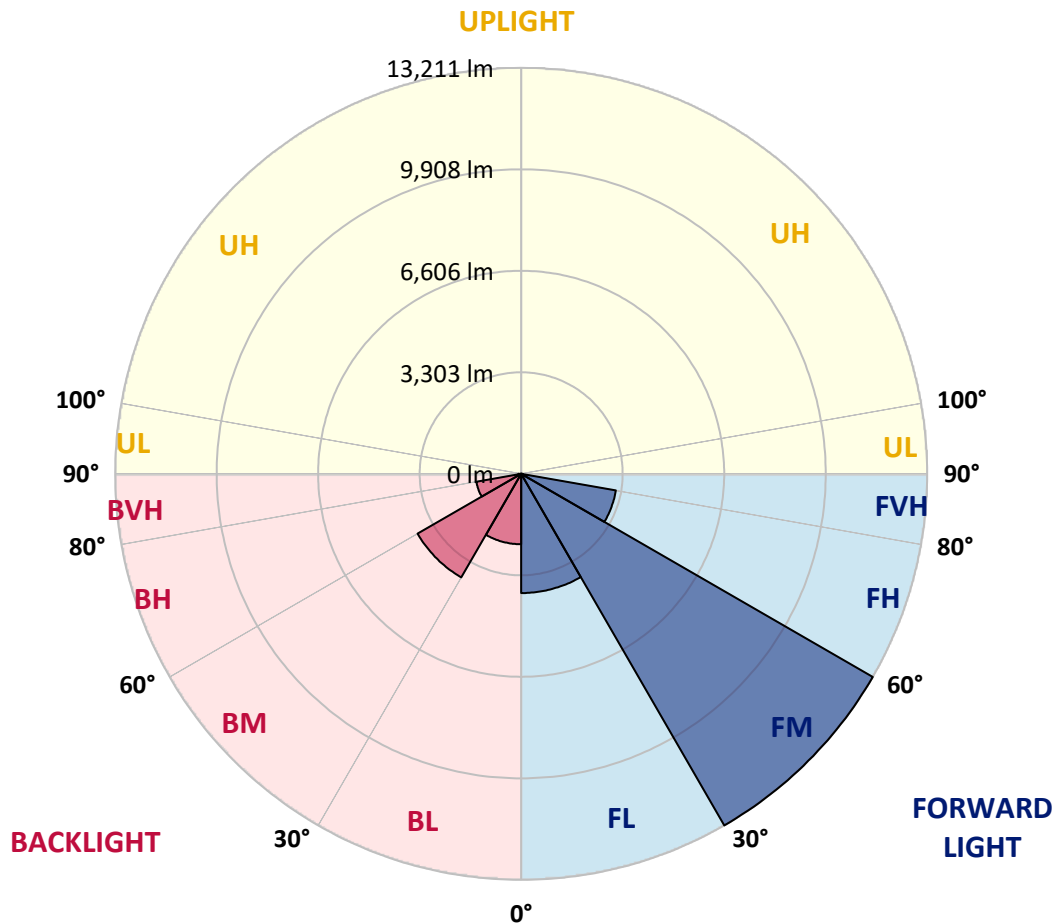
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3879.3	13.8			
FM	(30°-60°)	13211.1	47.1			
FH	(60°-80°)	3128.6	11.2			G2/5000
FVH	(80°-90°)	54.2	0.2			G1/100
BL	(0°-30°)	2291.7	8.2	B3/2500		
BM	(30°-60°)	3891.6	13.9	B3/5000		
BH	(60°-80°)	1481.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	89.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8
2.5°	11203.6	11160.4	11167.6	11225.2	11153.1	11124.3	11124.3	10983.8	10994.6	10897.4	10872.2
5°	10944.2	10843.3	10911.8	10998.2	11012.7	11041.5	11088.3	11052.3	10951.4	10846.9	10677.6
7.5°	10266.9	10357.0	10382.2	10443.5	10573.2	10692.0	10839.7	10738.9	10735.3	10630.8	10529.9
10°	9672.5	9618.5	9755.4	9845.5	10061.6	10259.7	10486.7	10475.9	10529.9	10411.0	10238.1
12.5°	9081.7	9038.5	9103.4	9308.7	9611.3	9899.5	10169.7	10068.8	10357.0	10335.4	9964.3
15°	8454.9	8487.3	8581.0	8771.9	9168.2	9514.0	9856.3	9859.9	10115.6	10202.1	9705.0
17.5°	8015.4	7979.4	8098.3	8382.9	8735.9	9150.2	9539.3	9618.5	10011.2	10061.6	9625.7
20°	7687.6	7738.0	7892.9	8037.0	8444.1	8944.9	9384.4	9413.2	9989.6	10126.5	9499.6
22.5°	7608.4	7579.5	7630.0	7864.1	8199.1	8743.1	9301.5	9409.6	9986.0	10104.8	9261.9
25°	7525.5	7619.2	7615.6	7849.7	8094.7	8581.0	9369.9	9488.8	10176.9	10216.5	9294.3
27.5°	7712.8	7702.0	7802.9	7820.9	8123.5	8624.2	9514.0	9604.1	10493.9	10461.5	9319.5
30°	7900.1	7846.1	7907.4	8119.9	8260.4	8872.8	9910.3	9903.1	10904.6	10883.0	9398.8
32.5°	8130.7	8105.5	8145.1	8332.4	8570.2	9204.2	10245.3	10457.9	11322.5	11459.4	9672.5
35°	8173.9	8278.4	8372.1	8624.2	8962.9	9741.0	10875.8	11052.3	11805.2	12233.9	10194.9
37.5°	8447.7	8487.3	8707.1	9153.8	9463.6	10457.9	11275.6	11387.3	12244.7	12731.0	10746.1
40°	8739.5	8786.3	9117.8	9586.1	10011.2	10926.2	11650.3	11686.3	12385.2	13112.9	11106.3
42.5°	9135.8	9179.0	9506.8	10094.0	10663.2	11326.1	11981.7	12021.3	12374.4	13552.4	11679.1
45°	9546.5	9650.9	10036.4	10702.8	11214.4	11794.4	12057.4	12219.5	12475.2	13945.0	12143.8
47.5°	10122.9	10220.1	10537.1	11189.2	11787.2	12205.1	12406.8	12565.3	12716.6	14287.3	12442.8
50°	10735.3	10753.3	11138.7	11729.5	12169.0	12669.8	13058.8	13112.9	13033.6	14683.5	12950.8
52.5°	11185.6	11243.2	11542.2	12118.6	12774.2	13390.3	13923.4	13981.1	13826.2	14831.2	13123.7
55°	10439.9	10407.4	10893.8	11661.1	13181.3	14463.8	15238.3	15281.5	14402.5	15288.7	13689.3
57.5°	8069.5	8224.4	8638.6	9564.5	11711.5	14939.3	16254.2	16099.3	15094.2	15519.3	14049.5
60°	5864.8	5828.7	6106.1	6725.8	8826.0	12875.1	15368.0	15526.5	14528.6	13988.3	11585.4
62.5°	4776.8	4726.4	4748.0	4769.6	5695.5	8545.0	11376.5	11372.9	11189.2	10054.4	7813.7
65°	3818.6	3937.5	3948.3	4110.4	4229.3	5104.7	6592.5	6945.5	6048.5	4960.6	3598.8
67.5°	2878.3	2835.1	2979.2	3555.6	3779.0	3685.3	3598.8	3638.5	2586.6	1866.1	1758.0
70°	1696.7	1678.7	1851.7	2478.5	3112.5	2928.8	2712.6	2716.2	1776.0	1304.1	1451.8
72.5°	929.4	925.8	961.9	1257.3	1768.8	1837.2	1628.3	1678.7	1059.1	1055.5	1134.8
75°	518.8	507.9	497.1	554.8	637.6	673.7	688.1	695.3	727.7	814.2	846.6
77.5°	190.9	183.7	183.7	212.5	270.2	338.6	428.7	435.9	515.1	590.8	623.2
80°	64.8	72.0	97.3	133.3	180.1	241.4	291.8	299.0	363.8	414.3	425.1
82.5°	39.6	43.2	64.8	93.7	129.7	169.3	216.1	219.7	270.2	302.6	317.0
85°	18.0	21.6	36.0	57.6	82.9	111.7	115.3	115.3	111.7	115.3	108.1
87.5°	0.0	0.0	7.2	7.2	7.2	10.8	14.4	10.8	18.0	21.6	21.6
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°	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8	10893.8
2.5°	10796.5	10756.9	10634.4	10526.3	10493.9	10349.8	10137.3	10162.5	10007.6	10079.6	10004.0
5°	10648.8	10515.5	10202.1	10068.8	9719.4	9560.9	9452.8	9182.6	9056.5	9031.3	8923.2
7.5°	10270.6	10187.7	9795.0	9434.8	9063.7	8746.7	8339.6	8062.3	7864.1	7810.1	7651.6
10°	9971.5	9787.8	9243.9	8696.3	8166.7	7615.6	7086.0	6671.7	6470.0	6235.8	6156.6
12.5°	9676.1	9398.8	8663.9	7961.4	7276.9	6581.7	5940.4	5436.1	4996.6	4892.1	4856.1
15°	9492.4	9009.7	8145.1	7298.5	6325.9	5418.1	4776.8	4445.4	4175.2	4063.6	4142.8
17.5°	9251.1	8689.1	7648.0	6520.4	5450.5	4614.7	4078.0	3872.6	3775.4	3786.2	3753.7
20°	8948.5	8386.5	6995.9	5814.3	4668.8	4002.3	3696.1	3620.5	3634.9	3660.1	3649.3
22.5°	8732.3	8019.0	6524.0	5093.8	4034.7	3663.7	3537.6	3483.6	3530.4	3552.0	3534.0
25°	8566.6	7705.6	5951.2	4456.2	3667.3	3472.8	3415.1	3411.5	3483.6	3512.4	3494.4
27.5°	8415.3	7413.8	5382.0	3969.9	3422.3	3325.1	3307.0	3350.3	3397.1	3425.9	3451.1
30°	8325.2	7190.5	4848.9	3562.8	3299.8	3253.0	3220.6	3260.2	3285.4	3314.2	3299.8
32.5°	8411.7	7032.0	4333.7	3332.3	3199.0	3152.1	3195.4	3170.1	3213.4	3238.6	3199.0
35°	8681.9	6891.5	3966.3	3209.8	3083.7	3101.7	3108.9	3098.1	3116.1	3094.5	3141.3
37.5°	8948.5	6841.0	3627.7	3105.3	3029.7	3029.7	3022.4	3000.8	3036.9	3029.7	3051.3
40°	9287.1	6873.5	3339.5	2993.6	2979.2	2972.0	2943.2	2939.6	2925.2	2928.8	2936.0
42.5°	9582.5	6945.5	3173.7	2921.6	2932.4	2946.8	2892.8	2849.5	2867.5	2831.5	2831.5
45°	9895.9	7010.3	3026.0	2871.1	2860.3	2856.7	2813.5	2788.3	2773.9	2777.5	2809.9
47.5°	10389.4	7104.0	2914.4	2802.7	2809.9	2755.9	2745.1	2712.6	2727.0	2748.7	2752.3
50°	10738.9	7302.1	2827.9	2723.4	2748.7	2712.6	2647.8	2633.4	2633.4	2669.4	2662.2
52.5°	10983.8	7579.5	2745.1	2637.0	2647.8	2619.0	2597.4	2564.9	2543.3	2593.8	2619.0
55°	11733.1	8040.6	2723.4	2564.9	2561.3	2532.5	2492.9	2460.5	2449.7	2456.9	2507.3
57.5°	11661.1	7896.5	2655.0	2438.9	2431.6	2392.0	2352.4	2341.6	2338.0	2345.2	2359.6
60°	9467.2	5832.3	2370.4	2294.8	2283.9	2276.7	2237.1	2193.9	2172.3	2193.9	2175.9
62.5°	6264.6	3905.0	2089.4	2121.8	2129.0	2111.0	2046.2	2003.0	2010.2	2035.4	1995.8
65°	3076.5	2294.8	1894.9	1981.3	1988.5	1938.1	1876.9	1826.4	1801.2	1822.8	1804.8
67.5°	1758.0	1754.4	1736.4	1826.4	1822.8	1772.4	1675.1	1631.9	1588.7	1595.9	1585.1
70°	1491.4	1520.2	1556.3	1610.3	1606.7	1549.0	1433.8	1401.3	1340.1	1332.9	1314.9
72.5°	1174.4	1224.8	1304.1	1343.7	1311.3	1239.2	1163.6	1109.6	1055.5	1023.1	1033.9
75°	871.8	943.8	987.1	1012.3	961.9	922.2	861.0	796.1	731.3	702.5	691.7
77.5°	634.0	655.6	695.3	713.3	680.9	641.2	605.2	540.4	479.1	439.5	428.7
80°	443.1	457.5	486.3	486.3	486.3	468.3	421.5	356.6	317.0	281.0	273.8
82.5°	309.8	324.2	353.0	338.6	335.0	313.4	284.6	234.2	190.9	165.7	158.5
85°	108.1	118.9	144.1	172.9	183.7	180.1	162.1	129.7	100.9	82.9	75.7
87.5°	25.2	25.2	28.8	25.2	25.2	28.8	25.2	25.2	25.2	18.0	14.4
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)