

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: P529286

Luminaire Tested: **GALN-SA4B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15615 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
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



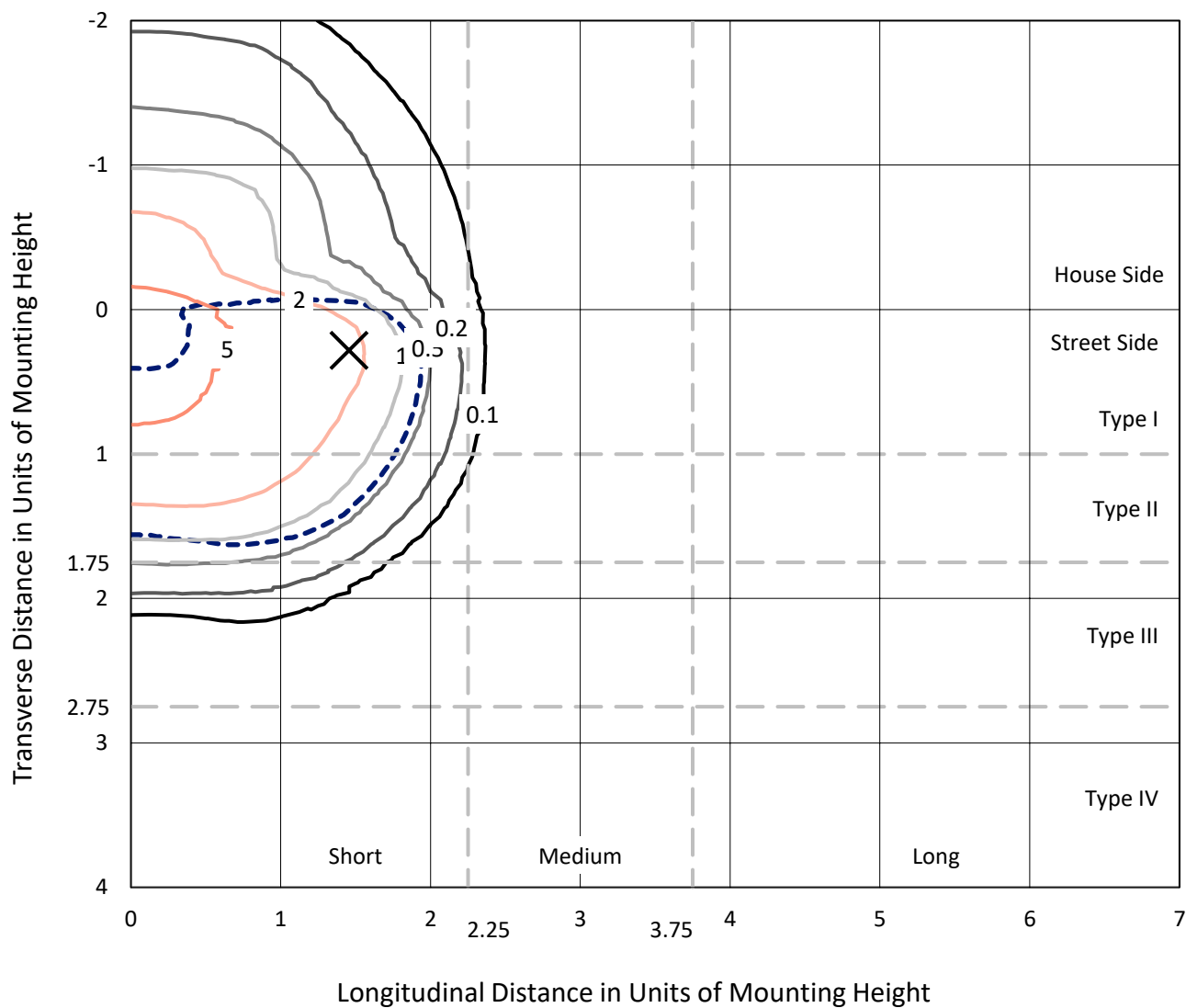
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

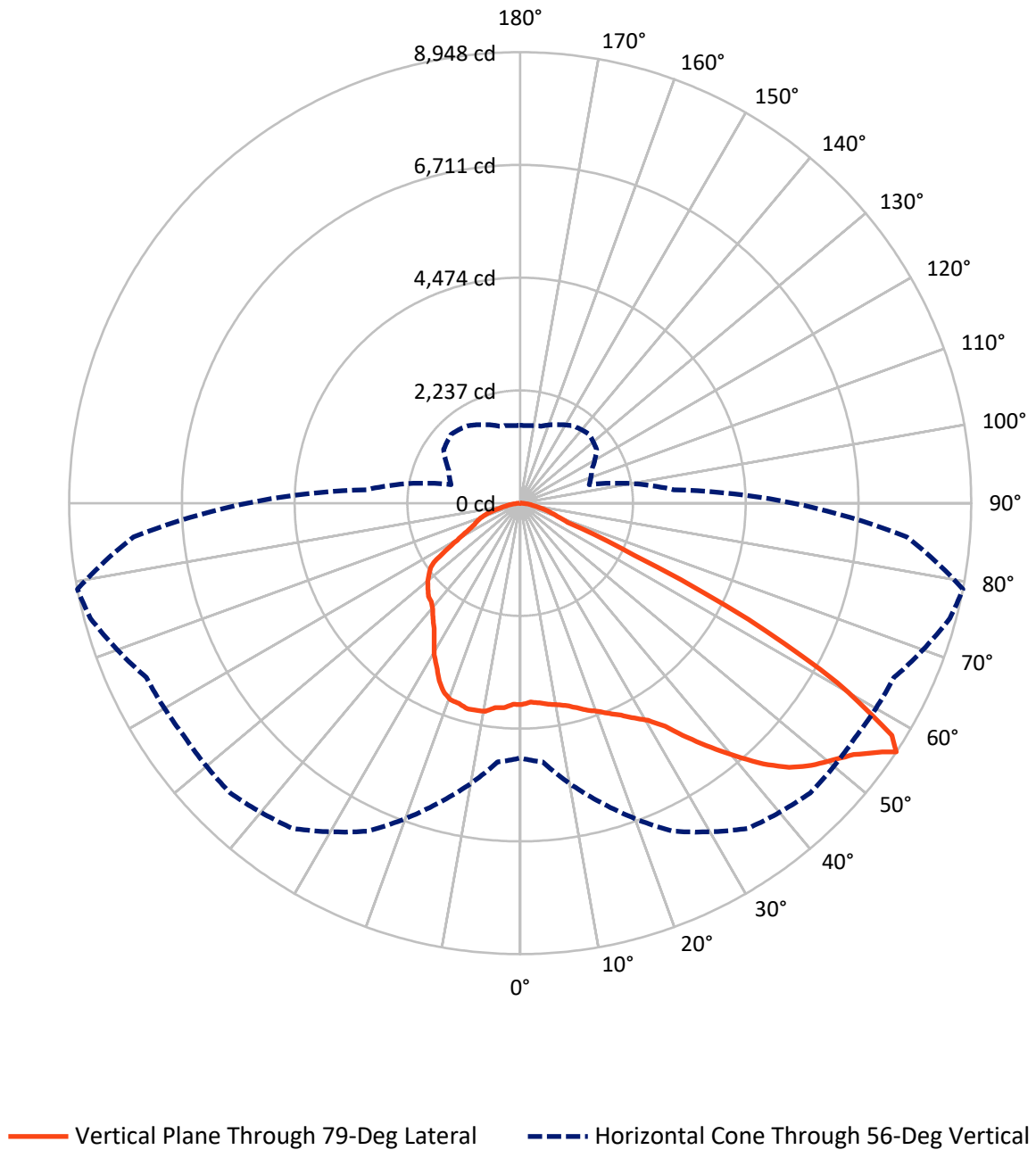
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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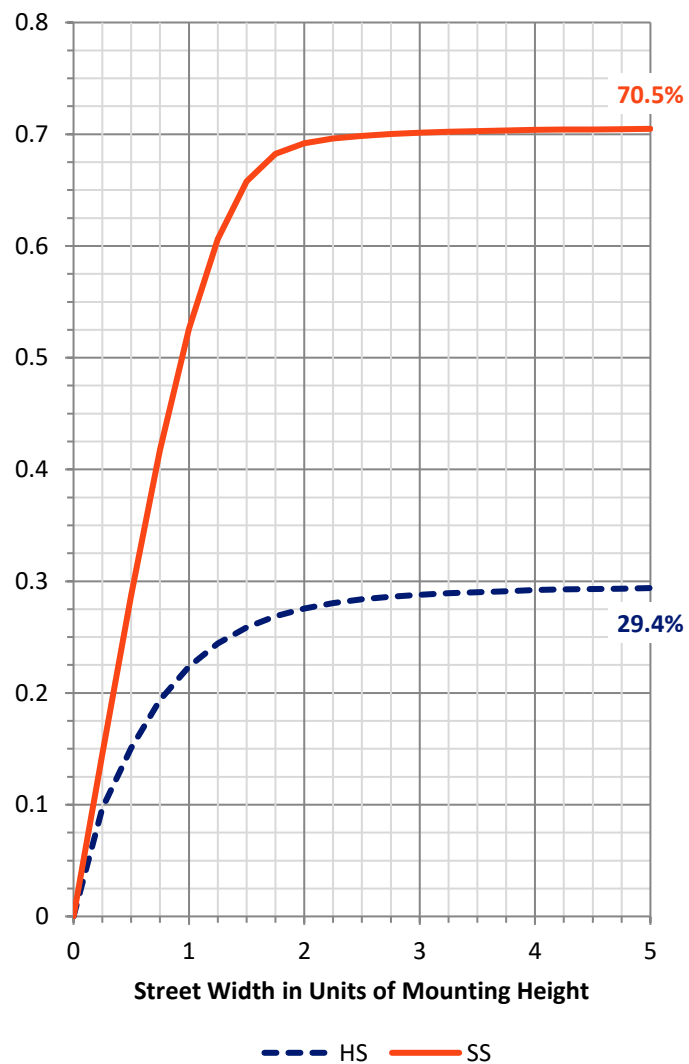
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4611.4	0.0	4611.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11003.5	0.0	11003.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	15615.0	0.0	15615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	2.3
10°-20°	994.1	6.4
20°-30°	1700.7	10.9
30°-40°	2606.6	16.7
40°-50°	3522.7	22.6
50°-60°	4046.0	25.9
60°-70°	1844.3	11.8
70°-80°	454.7	2.9
80°-90°	82.6	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°	15615.0	100.0
0°-180°	15615.0	100.0

Coefficient of Utilization



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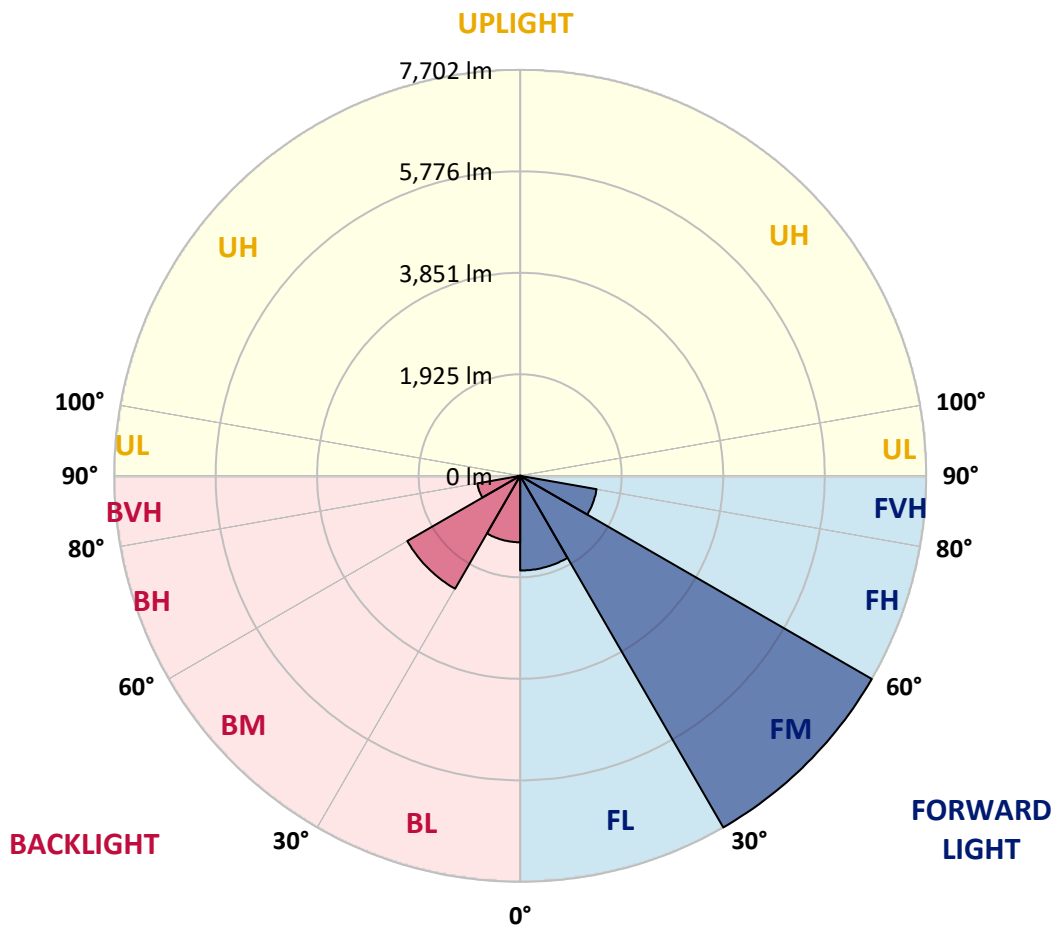
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.6	11.5			
FM	(30°-60°)	7701.8	49.3			
FH	(60°-80°)	1472.1	9.4			G1/1800
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	1261.4	8.1	B3/2500		
BM	(30°-60°)	2473.5	15.8	B2/2500		
BH	(60°-80°)	826.9	5.3	B2/1000		G2/1000
BVH	(80°-90°)	49.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3
2.5°	3800.7	3791.0	3814.4	3831.9	3853.3	3880.5	3894.1	3901.9	3970.0	3952.5	4005.0
5°	3719.1	3693.8	3711.3	3724.9	3761.8	3794.9	3831.9	3890.2	3952.5	3979.7	4043.9
7.5°	3647.1	3633.5	3629.6	3639.3	3689.9	3732.7	3796.9	3882.4	3983.6	4028.3	4065.3
10°	3528.4	3509.0	3538.2	3602.3	3616.0	3705.4	3779.4	3901.9	3989.4	4067.2	4176.2
12.5°	3475.9	3456.5	3462.3	3499.3	3594.6	3680.2	3767.7	3905.8	4090.6	4121.7	4267.6
15°	3559.6	3540.1	3545.9	3536.2	3627.6	3672.4	3810.5	3983.6	4160.6	4213.1	4368.7
17.5°	3750.2	3752.1	3726.8	3705.4	3684.0	3779.4	3874.7	4030.3	4187.8	4320.1	4436.8
20°	4113.9	4049.7	3999.2	3878.6	3845.5	3886.3	4006.9	4156.7	4298.7	4407.6	4539.9
22.5°	4394.0	4399.8	4327.9	4129.5	4057.5	4075.0	4178.1	4300.6	4456.3	4534.1	4685.8
25°	4800.5	4759.7	4681.9	4524.3	4362.9	4376.5	4452.4	4563.2	4606.0	4660.5	4825.8
27.5°	5172.1	5183.7	5030.1	4882.2	4681.9	4643.0	4779.1	4798.6	4726.6	4829.7	4886.1
30°	5549.4	5539.7	5438.5	5265.4	5069.0	5076.7	5137.0	5041.7	4942.5	4998.9	5037.8
32.5°	5940.4	5829.5	5825.6	5670.0	5520.2	5448.3	5374.3	5421.0	5267.4	5279.0	5242.1
35°	6253.5	6269.1	6179.6	6068.7	5994.8	5868.4	5666.1	5749.8	5720.6	5707.0	5547.5
37.5°	6481.1	6420.8	6465.6	6428.6	6358.6	6201.0	5990.9	6070.7	6084.3	6150.4	5965.7
40°	6667.8	6642.6	6761.2	6780.7	6732.0	6391.6	6014.3	6251.6	6455.8	6599.8	6380.0
42.5°	6757.3	6811.8	6936.3	7086.0	6977.1	6613.4	6134.9	6389.7	6844.8	7072.4	6772.9
45°	6877.9	6807.9	6992.7	7266.9	7268.9	6800.1	6251.6	6576.4	7148.3	7479.0	7041.3
47.5°	6755.4	6790.4	6981.0	7329.2	7418.7	6996.6	6566.7	6841.0	7482.8	7776.6	7290.3
50°	6481.1	6551.1	6899.3	7261.1	7531.5	7204.7	6928.5	7126.9	7792.1	8015.8	7331.1
52.5°	6195.2	6234.1	6778.7	7313.6	7582.0	7473.1	7412.8	7521.7	8169.5	8286.2	7381.7
55°	5417.1	5601.9	6380.0	7290.3	7829.1	7957.5	7910.8	8070.3	8597.4	8714.1	7657.9
56°	5057.3	5154.5	6140.7	7181.4	7877.7	8134.5	8111.1	8183.1	8825.0	8947.5	7700.7
57.5°	4392.1	4399.8	5236.2	6699.0	7694.9	8187.0	8163.6	8220.0	8780.2	8696.6	7325.3
60°	2748.4	2869.0	3563.4	5152.6	6543.4	7595.7	7727.9	7274.7	7403.1	7226.1	5699.2
62.5°	1423.8	1406.3	1867.3	3013.0	4343.4	5438.5	5561.1	5539.7	5341.3	5082.6	3722.9
65°	710.0	713.9	976.4	1491.9	2225.2	2847.6	3190.0	3226.9	2699.8	2483.9	1766.2
67.5°	515.5	534.9	702.2	912.3	1048.4	1172.9	1437.4	1410.2	1067.9	1015.3	941.4
70°	400.7	418.2	569.9	696.4	632.2	632.2	688.6	711.9	760.5	781.9	807.2
72.5°	291.8	305.4	435.7	480.4	414.3	445.4	515.5	569.9	620.5	628.3	657.4
75°	200.3	212.0	285.9	264.5	249.0	307.3	377.4	427.9	464.9	484.3	501.8
77.5°	130.3	134.2	163.4	138.1	159.5	198.4	245.1	287.9	324.8	340.4	344.3
80°	58.4	64.2	70.0	87.5	110.9	142.0	175.1	210.1	233.4	239.2	250.9
82.5°	33.1	33.1	42.8	62.2	81.7	103.1	126.4	151.7	179.0	184.8	182.8
85°	17.5	17.5	25.3	37.0	50.6	60.3	58.4	60.3	64.2	73.9	72.0
87.5°	5.8	5.8	7.8	7.8	9.7	11.7	9.7	13.6	17.5	17.5	17.5
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°	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3	3995.3
2.5°	3989.4	4006.9	3983.6	4034.2	4034.2	4024.4	3975.8	3991.4	4003.0	4003.0	4012.8
5°	4065.3	4059.4	4075.0	4014.7	3977.8	3964.1	3884.4	3845.5	3812.4	3810.5	3781.3
7.5°	4108.1	4092.5	4086.7	4041.9	3878.6	3779.4	3608.2	3509.0	3487.6	3411.7	3440.9
10°	4176.2	4205.3	4176.2	3933.0	3705.4	3477.9	3310.6	3156.9	3096.6	3048.0	3018.8
12.5°	4316.2	4302.6	4133.4	3804.6	3485.6	3215.3	2966.3	2804.9	2744.6	2701.8	2697.9
15°	4434.9	4366.8	4108.1	3602.3	3143.3	2855.4	2651.2	2536.4	2509.2	2513.1	2530.6
17.5°	4475.7	4429.0	3975.8	3392.3	2888.5	2550.0	2454.7	2437.2	2462.5	2491.7	2499.5
20°	4539.9	4466.0	3921.3	3106.3	2573.4	2359.4	2353.6	2415.8	2462.5	2505.3	2511.1
22.5°	4674.1	4487.4	3744.3	2836.0	2357.5	2303.0	2359.4	2411.9	2483.9	2518.9	2487.8
25°	4713.0	4440.7	3495.4	2511.1	2221.3	2268.0	2328.3	2400.3	2450.8	2470.3	2483.9
27.5°	4746.1	4368.7	3158.9	2295.2	2178.5	2266.1	2328.3	2388.6	2415.8	2433.3	2448.9
30°	4839.4	4347.3	2867.1	2151.3	2151.3	2227.2	2306.9	2322.5	2359.4	2380.8	2408.0
32.5°	4886.1	4199.5	2567.5	2059.9	2124.1	2246.6	2252.4	2281.6	2283.6	2301.1	2271.9
35°	5008.7	4094.5	2289.4	1993.7	2135.7	2227.2	2256.3	2238.8	2143.5	2096.8	2106.6
37.5°	5098.1	4041.9	2089.1	1986.0	2137.7	2248.5	2264.1	2131.8	2032.6	1954.8	1974.3
40°	5339.3	3911.6	1937.3	1972.3	2155.2	2271.9	2229.1	2085.2	1906.2	1826.5	1812.8
42.5°	5524.1	3818.3	1842.0	1956.8	2168.8	2305.0	2211.6	1991.8	1809.0	1735.0	1754.5
45°	5738.1	3796.9	1791.4	1960.7	2192.1	2322.5	2190.2	1919.8	1725.3	1696.1	1690.3
47.5°	5813.9	3643.2	1737.0	1927.6	2186.3	2316.6	2118.2	1865.4	1694.2	1698.1	1713.6
50°	5687.5	3485.6	1696.1	1859.5	2147.4	2264.1	2005.4	1793.4	1676.7	1725.3	1752.5
52.5°	5526.1	3324.2	1612.5	1768.1	2067.7	2182.4	1952.9	1789.5	1659.2	1643.6	1649.5
55°	5574.7	3191.9	1495.8	1643.6	1939.3	2030.7	1894.5	1752.5	1616.4	1558.0	1577.5
56°	5417.1	3055.8	1419.9	1565.8	1851.7	1933.4	1865.4	1719.5	1581.4	1542.5	1542.5
57.5°	4971.7	2598.7	1320.7	1441.3	1667.0	1764.2	1809.0	1700.0	1542.5	1474.4	1476.3
60°	3666.5	1847.9	1184.6	1270.2	1381.0	1458.8	1667.0	1645.6	1445.2	1398.5	1381.0
62.5°	2260.2	1349.9	1087.3	1120.4	1176.8	1241.0	1454.9	1490.0	1342.1	1291.6	1279.9
65°	1266.3	1032.9	1013.4	1027.0	1054.3	1087.3	1207.9	1285.7	1184.6	1106.8	1102.9
67.5°	925.9	923.9	939.5	951.2	962.8	962.8	992.0	1023.1	1009.5	947.3	941.4
70°	822.8	828.6	840.3	842.2	846.1	832.5	809.2	799.4	815.0	776.1	768.3
72.5°	678.8	698.3	711.9	713.9	692.5	675.0	643.8	610.8	599.1	591.3	589.4
75°	521.3	534.9	540.7	538.8	531.0	505.7	468.8	435.7	414.3	391.0	402.6
77.5°	352.1	371.5	381.2	381.2	369.6	330.7	313.2	287.9	266.5	241.2	245.1
80°	247.0	260.6	276.2	274.3	254.8	235.4	210.1	186.7	169.2	149.8	147.8
82.5°	184.8	192.6	200.3	196.5	182.8	163.4	145.9	124.5	105.0	91.4	91.4
85°	66.1	72.0	87.5	91.4	99.2	99.2	83.6	70.0	56.4	46.7	46.7
87.5°	19.5	19.5	21.4	21.4	19.5	21.4	17.5	19.5	21.4	13.6	13.6
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)