

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: P533964

Luminaire Tested: **GALN-SA9B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34949 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 364
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

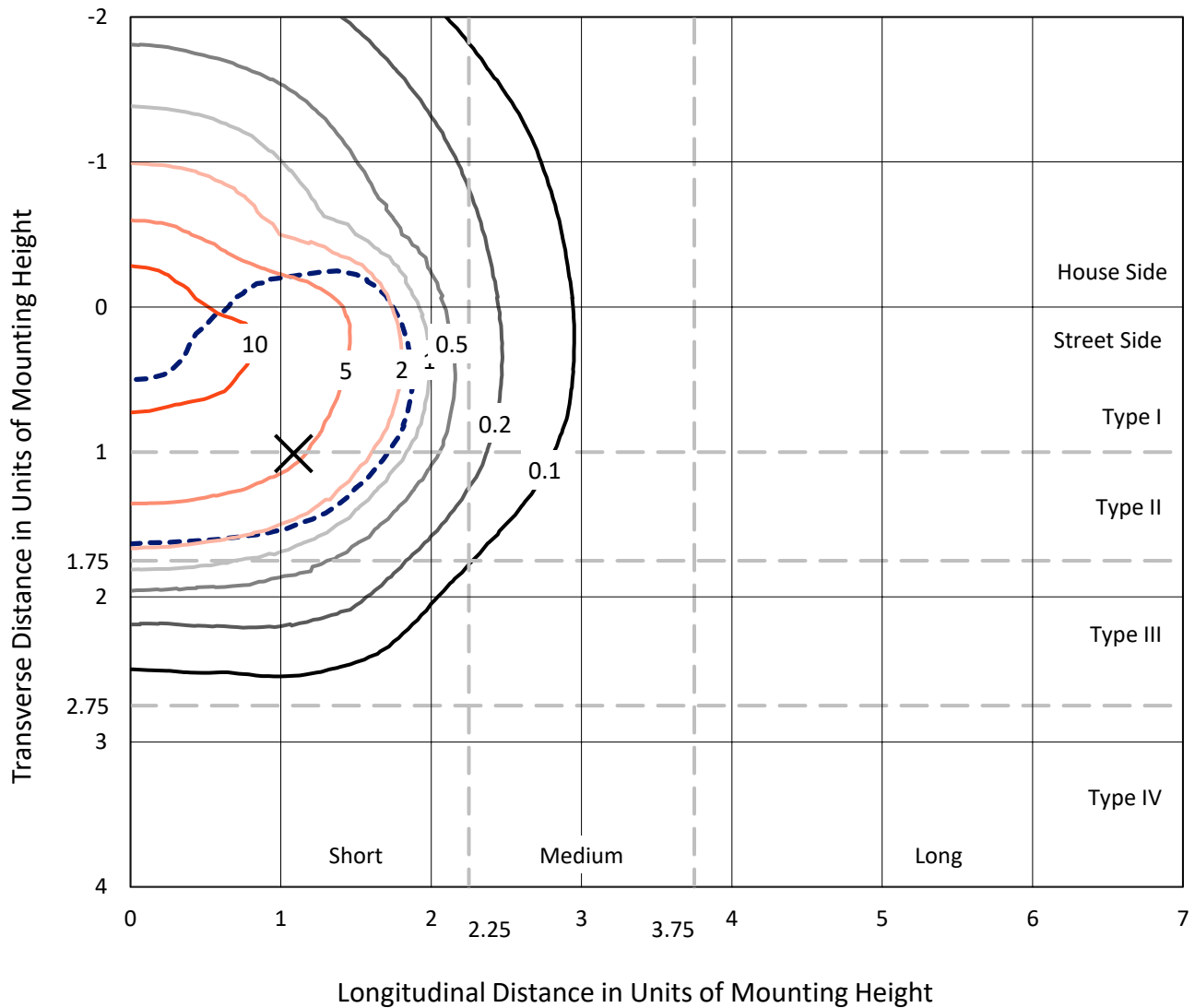


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Iso-Footcandle Lines of Horizontal Illumination

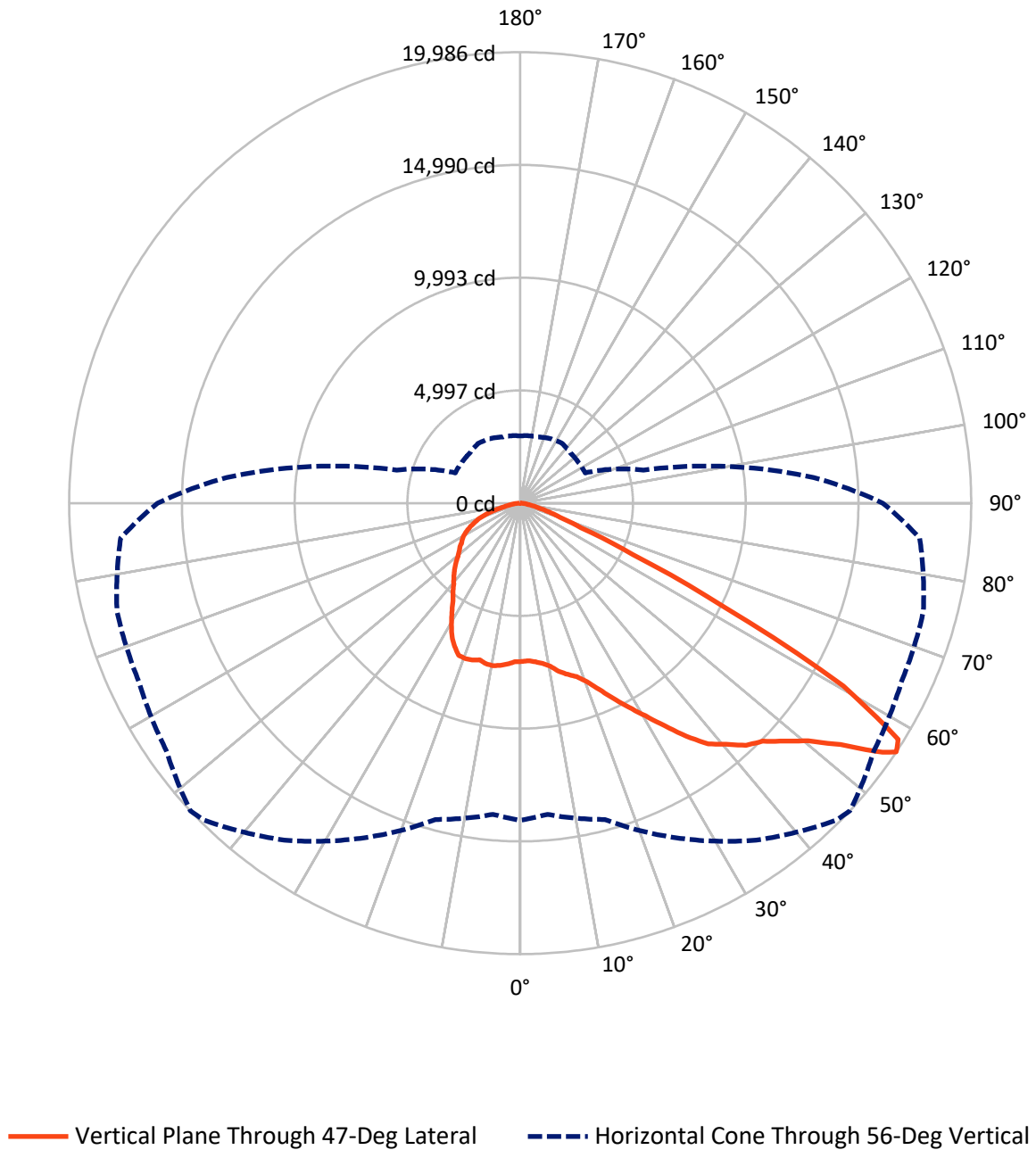
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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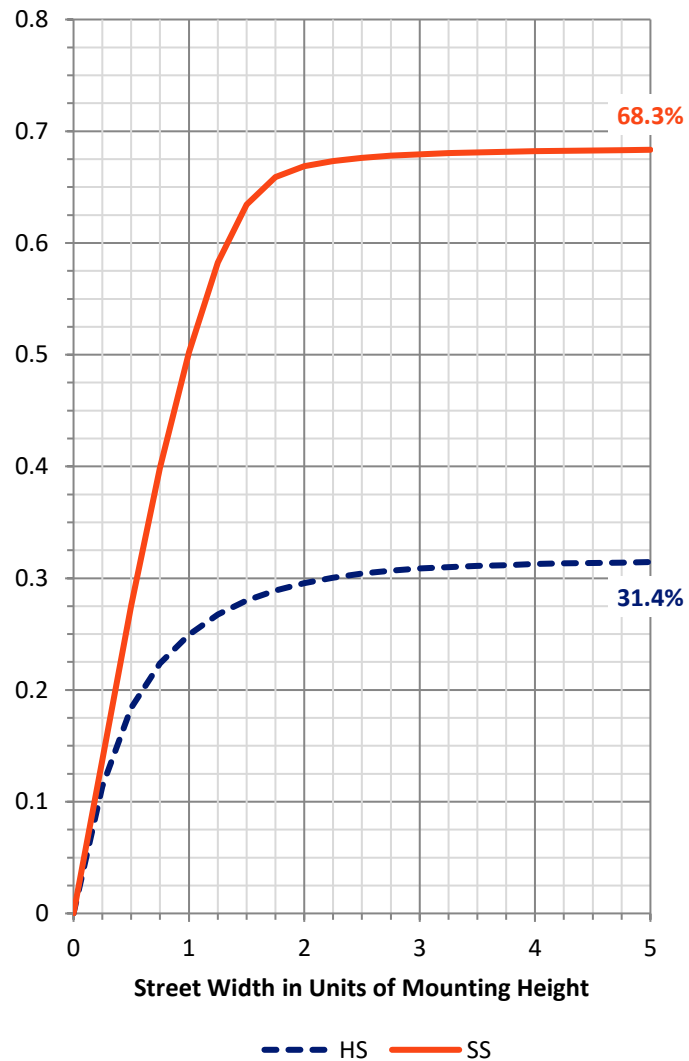
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11074.9	0.0	11074.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	23874.1	0.0	23874.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	34949.0	0.0	34949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.0	2.0
10°-20°	2157.7	6.2
20°-30°	3814.4	10.9
30°-40°	5729.1	16.4
40°-50°	7862.6	22.5
50°-60°	9367.2	26.8
60°-70°	4008.6	11.5
70°-80°	1134.4	3.2
80°-90°	190.9	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°	34949.0	100.0
0°-180°	34949.0	100.0

Coefficient of Utilization



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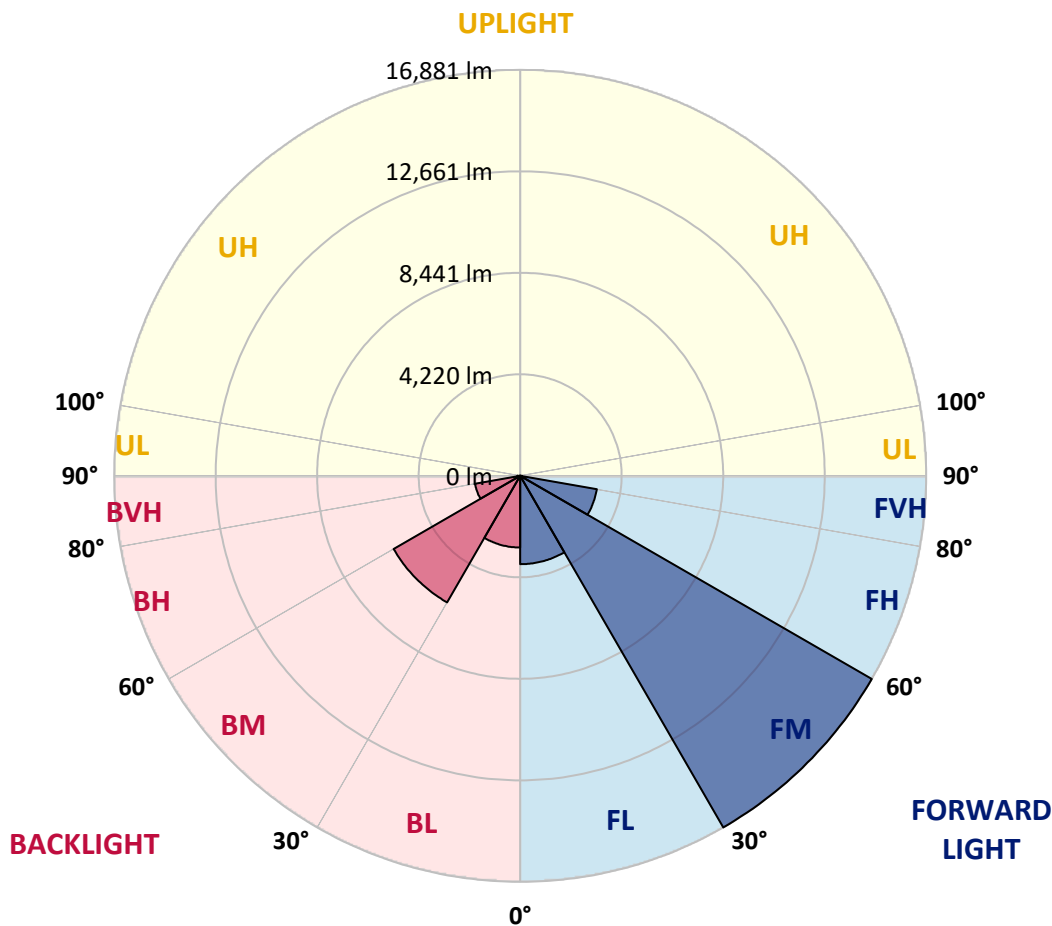
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3674.3	10.5			
FM	(30°-60°)	16881.2	48.3			
FH	(60°-80°)	3237.5	9.3			G2/5000
FVH	(80°-90°)	81.0	0.2			G1/100
BL	(0°-30°)	2981.8	8.5	B4/5000		
BM	(30°-60°)	6077.7	17.4	B4/8500		
BH	(60°-80°)	1905.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	109.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2
2.5°	6993.4	6980.1	6971.2	7042.5	7015.7	7020.2	6993.4	7020.2	7038.0	6997.9	7055.9
5°	6980.1	7020.2	6984.5	7006.8	7064.8	7046.9	7064.8	7118.3	7104.9	7091.5	7073.7
7.5°	7104.9	7109.3	7136.1	7145.0	7162.8	7145.0	7171.7	7220.8	7207.4	7131.6	7140.5
10°	7283.2	7292.1	7296.5	7345.6	7376.8	7381.2	7350.0	7305.5	7301.0	7403.5	7332.2
12.5°	7488.2	7465.9	7519.4	7537.2	7572.9	7613.0	7653.1	7559.5	7617.5	7621.9	7537.2
15°	7786.8	7809.1	7746.7	7746.7	7760.1	7764.6	7876.0	7831.4	7822.5	7773.5	7809.1
17.5°	8232.6	8081.0	8076.6	8014.2	8005.2	8040.9	8081.0	8116.7	8237.0	8139.0	7947.3
20°	8557.9	8593.6	8464.3	8388.6	8401.9	8482.2	8442.1	8602.5	8687.2	8526.7	8339.5
22.5°	9132.9	9012.6	9043.8	8874.4	8887.8	8972.5	8968.0	9132.9	9182.0	8927.9	8656.0
25°	9520.7	9489.5	9516.3	9382.5	9400.4	9467.2	9574.2	9846.1	9765.9	9485.1	8856.6
27.5°	10086.8	10024.4	10002.1	9953.1	9935.2	10113.5	10238.3	10528.1	10470.1	10060.0	9213.2
30°	10666.2	10626.1	10648.4	10447.8	10519.1	10898.0	10933.7	11330.4	11303.6	10581.5	9609.9
32.5°	11067.4	11089.7	11129.8	11018.4	11334.8	11637.9	11758.3	12208.4	12230.7	11477.5	10376.5
35°	11713.7	11637.9	11660.2	11789.5	11936.6	12489.3	12685.4	12984.0	13171.2	12417.9	11112.0
37.5°	12119.3	12199.5	12105.9	12311.0	12694.3	13358.4	13536.7	13844.3	14040.4	13345.1	12114.8
40°	12752.2	12623.0	12689.8	12836.9	13229.2	14093.9	14044.8	14361.3	14423.7	14134.0	13050.9
42.5°	13434.2	13371.8	13278.2	13612.5	13942.3	14570.8	14668.9	14521.8	14838.2	14905.1	14388.1
45°	14249.9	14325.6	14339.0	14347.9	14637.7	15185.9	15052.2	14922.9	15288.4	15774.3	15217.1
47.5°	15007.6	14766.9	14940.8	15181.4	15591.5	15596.0	15752.0	15444.4	15832.2	16264.6	15965.9
50°	15261.7	15145.8	15377.6	15832.2	16465.1	16532.0	16549.8	16113.0	16313.6	16656.8	16224.4
52.5°	15163.6	15123.5	15716.3	16420.6	17347.7	17686.4	17775.6	17236.2	17347.7	17191.7	16795.0
55°	14695.6	14815.9	15413.2	16848.5	18270.3	19317.8	19487.2	18805.2	18096.5	18216.8	17780.0
56°	14053.8	13844.3	14512.9	16362.6	18230.2	19848.2	19986.4	19135.0	18653.7	18497.6	17771.1
57.5°	11923.2	11651.3	12529.4	14722.3	17218.4	19647.6	19750.1	19273.2	18560.1	18243.6	16474.1
60°	6980.1	7113.8	8228.1	10153.6	13282.6	16108.6	16451.8	16799.4	16322.5	14905.1	12261.9
62.5°	3369.7	3285.0	4082.9	5821.2	8094.4	10282.9	10180.4	11156.5	11691.4	10590.5	7742.3
65°	1765.1	1756.2	2228.6	3178.0	4448.4	5402.2	5495.8	6021.8	6757.2	5455.7	3931.3
67.5°	1297.1	1332.7	1569.0	2233.1	2861.6	2919.5	2906.1	3169.1	3240.4	2741.2	2415.8
70°	1016.3	1034.1	1207.9	1698.2	2130.6	1907.7	1867.6	1898.8	2108.3	2197.4	2090.5
72.5°	735.4	753.3	900.4	1145.5	1332.7	1301.5	1328.3	1502.1	1760.6	1854.2	1742.8
75°	490.3	503.7	583.9	699.8	788.9	851.3	900.4	1100.9	1341.6	1395.1	1341.6
77.5°	338.8	352.1	405.6	494.8	503.7	543.8	561.6	655.2	802.3	869.2	833.5
80°	191.7	191.7	218.4	254.1	312.0	365.5	374.4	450.2	517.0	561.6	570.5
82.5°	89.1	93.6	115.9	156.0	205.0	254.1	263.0	312.0	361.0	405.6	419.0
85°	44.6	49.0	66.9	93.6	124.8	151.5	147.1	151.5	160.5	151.5	156.0
87.5°	13.4	13.4	17.8	22.3	17.8	22.3	22.3	26.7	31.2	35.7	40.1
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°	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2	7020.2
2.5°	7060.3	7073.7	6984.5	7069.2	7038.0	7033.6	7096.0	7087.1	7109.3	7100.4	7046.9
5°	7064.8	7033.6	7127.2	7042.5	7082.6	7167.3	7109.3	7243.1	7176.2	7220.8	7122.7
7.5°	7202.9	7211.9	7194.0	7229.7	7211.9	7252.0	7220.8	7252.0	7198.5	7202.9	7292.1
10°	7323.3	7296.5	7327.7	7283.2	7314.4	7301.0	7229.7	7207.4	7225.2	7202.9	7260.9
12.5°	7546.1	7497.1	7474.8	7421.3	7385.7	7252.0	7140.5	7078.1	7162.8	7176.2	7149.5
15°	7773.5	7777.9	7675.4	7555.1	7332.2	7131.6	7158.4	7180.7	7180.7	7216.3	7149.5
17.5°	7916.1	7916.1	7822.5	7581.8	7354.5	7238.6	7211.9	7140.5	7078.1	7069.2	7064.8
20°	8165.7	8089.9	7876.0	7577.4	7345.6	7292.1	7091.5	6922.1	6792.9	6748.3	6743.8
22.5°	8451.0	8259.3	7960.7	7586.3	7332.2	7256.4	6882.0	6628.0	6396.2	6298.1	6311.5
25°	8714.0	8406.4	8009.7	7546.1	7283.2	6917.7	6498.7	6146.6	5905.9	5825.6	5785.5
27.5°	8896.7	8562.4	8009.7	7581.8	7100.4	6538.8	6110.9	5660.7	5451.2	5397.7	5406.7
30°	9141.9	8758.5	8147.9	7506.0	6734.9	6048.5	5535.9	5241.7	5116.9	5072.4	5103.6
32.5°	9716.8	9271.1	8339.5	7323.3	6302.6	5558.2	5143.7	4978.8	4796.0	4706.9	4675.7
35°	10340.9	9757.0	8526.7	7015.7	5816.7	5112.5	4854.0	4702.4	4484.0	4385.9	4403.8
37.5°	11223.4	10381.0	8540.1	6507.6	5290.8	4862.9	4626.6	4390.4	4212.1	4060.6	4016.0
40°	12413.5	11232.3	8508.9	5972.7	4867.3	4568.7	4394.9	4100.7	3900.1	3793.1	3815.4
42.5°	13460.9	12230.7	8379.7	5366.5	4484.0	4368.1	4172.0	3882.3	3686.2	3574.7	3565.8
45°	14343.5	12966.2	8134.5	4849.5	4163.1	4145.3	3917.9	3695.1	3539.1	3436.6	3481.1
47.5°	15159.2	13559.0	7764.6	4332.5	3868.9	3904.6	3686.2	3548.0	3449.9	3356.3	3351.9
50°	15453.3	13550.1	7439.2	3904.6	3632.7	3614.8	3605.9	3458.8	3356.3	3276.1	3311.7
52.5°	15943.6	13701.6	7087.1	3610.4	3418.7	3423.2	3454.4	3347.4	3231.5	3182.5	3227.1
55°	16647.9	13723.9	6311.5	3267.2	3240.4	3271.6	3271.6	3200.3	3102.3	3062.1	3039.9
56°	16072.9	13059.8	5660.7	3178.0	3151.3	3151.3	3236.0	3155.7	3035.4	3004.2	2977.5
57.5°	14824.9	11441.8	4738.1	3071.1	3030.9	3093.3	3137.9	3053.2	2941.8	2897.2	2924.0
60°	10225.0	7742.3	3561.4	2839.3	2839.3	2941.8	2977.5	2852.6	2803.6	2799.2	2763.5
62.5°	5968.3	4510.8	2785.8	2629.8	2638.7	2723.4	2750.1	2678.8	2616.4	2692.2	2727.8
65°	3164.7	2692.2	2389.1	2406.9	2411.4	2478.2	2594.1	2589.7	2585.2	2607.5	2612.0
67.5°	2291.0	2237.5	2170.7	2152.9	2161.8	2210.8	2326.7	2415.8	2411.4	2357.9	2317.8
70°	2041.4	1965.7	1925.5	1930.0	1894.3	1952.3	2045.9	2103.8	2001.3	1938.9	1912.2
72.5°	1698.2	1675.9	1649.2	1653.6	1582.3	1569.0	1462.0	1462.0	1435.2	1417.4	1448.6
75°	1297.1	1288.1	1301.5	1279.2	1203.5	1123.2	1060.8	1002.9	913.7	878.1	860.3
77.5°	820.1	846.9	878.1	829.1	797.9	739.9	677.5	619.6	548.2	508.1	508.1
80°	557.2	579.4	601.7	592.8	557.2	503.7	454.6	392.2	343.2	312.0	307.6
82.5°	423.4	441.3	472.5	436.8	401.2	356.6	316.5	271.9	227.3	191.7	191.7
85°	151.5	173.8	191.7	209.5	222.9	227.3	196.1	160.5	129.3	102.5	98.1
87.5°	40.1	44.6	49.0	44.6	44.6	44.6	49.0	44.6	40.1	31.2	31.2
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)