

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: STREETWORKS

Report Number: P639180

Luminaire Tested: **USSL-M-PA6A-740-U-T2U**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6A-740-U-T2U
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41372 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 273.8
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

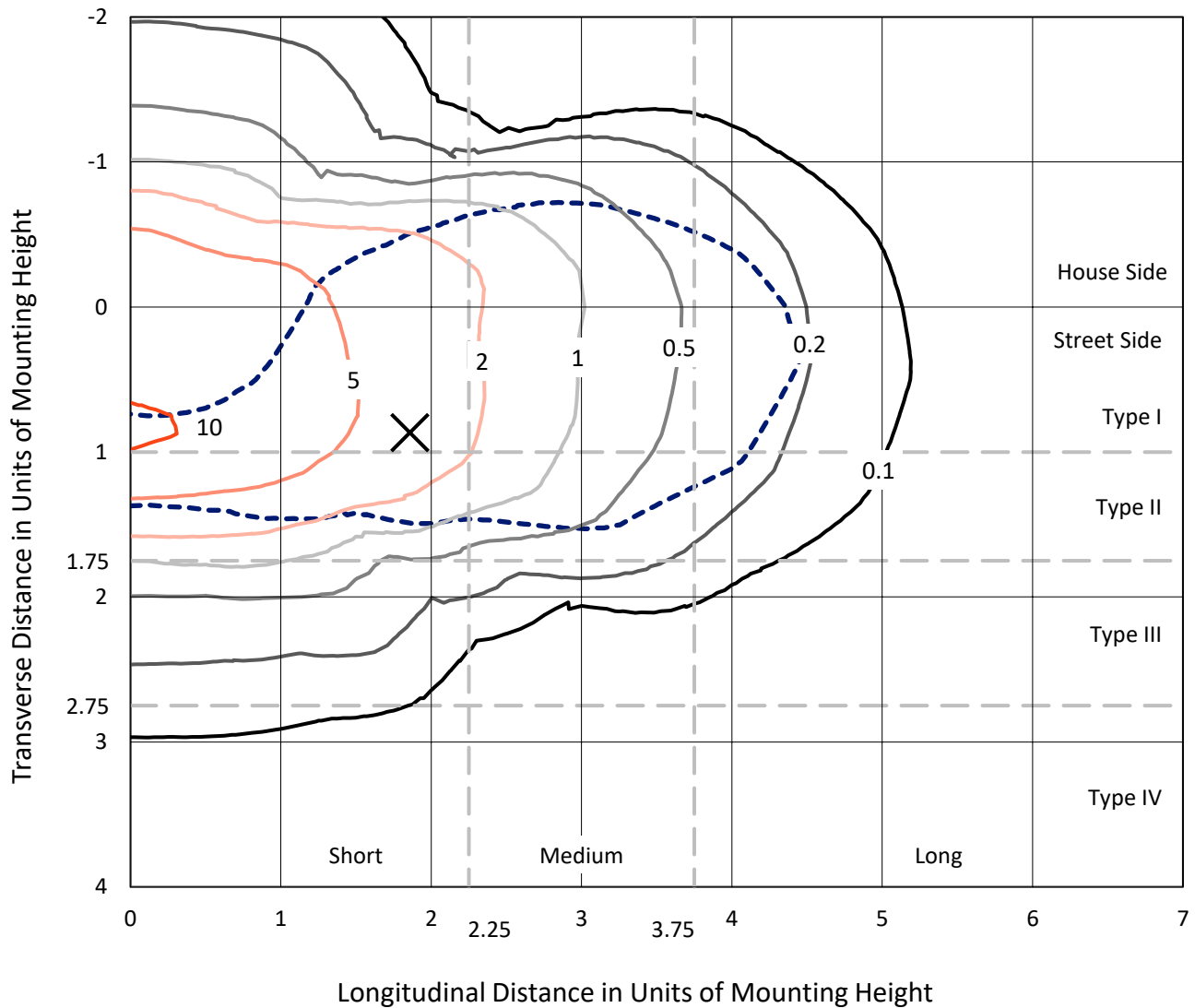


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Iso-Footcandle Lines of Horizontal Illumination

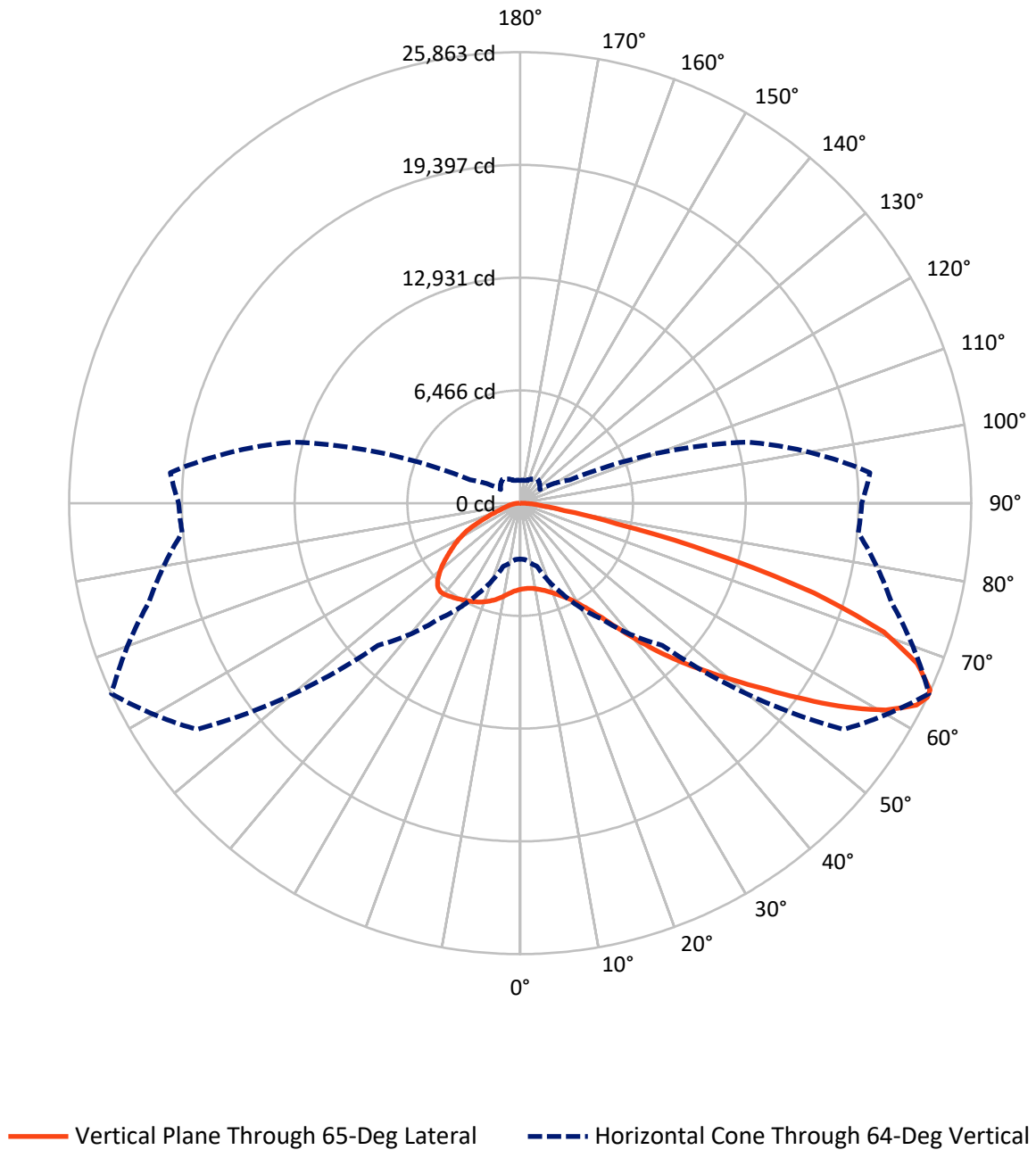
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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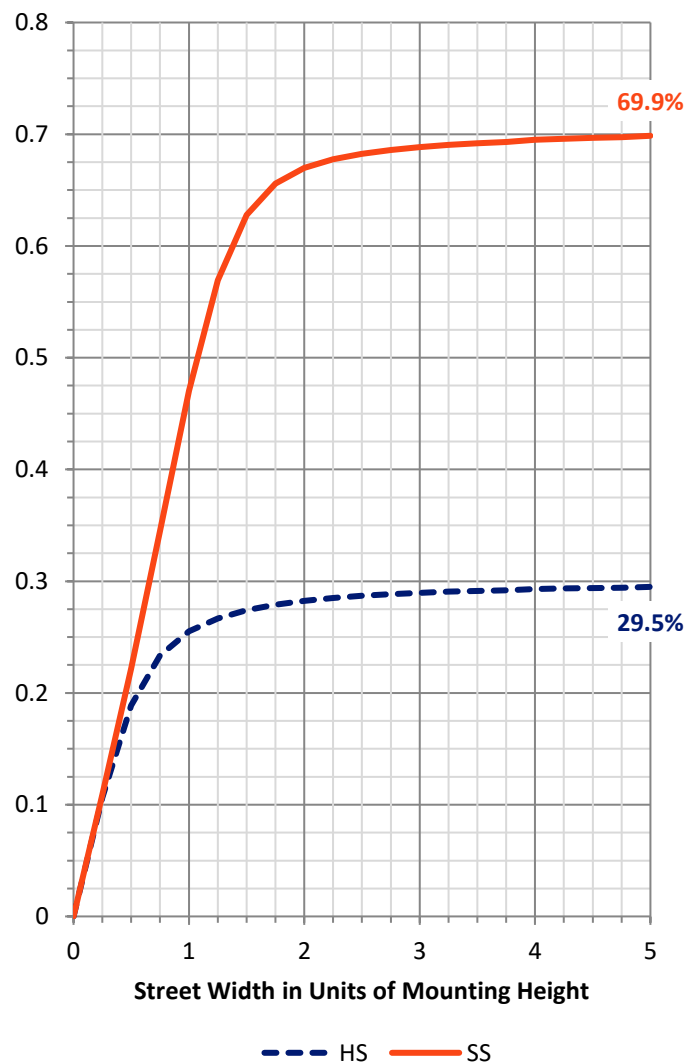
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12336.9	0.0	12336.9
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	29035.1	0.0	29035.1
	% Fixture	70.2	0.0	70.2
Total	Lumens	41372.0	0.0	41372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.1	1.2
10°-20°	1549.8	3.7
20°-30°	2784.9	6.7
30°-40°	4539.3	11.0
40°-50°	7567.4	18.3
50°-60°	9845.7	23.8
60°-70°	8881.5	21.5
70°-80°	4963.8	12.0
80°-90°	752.5	1.8
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°	41372.0	100.0
0°-180°	41372.0	100.0

Coefficient of Utilization



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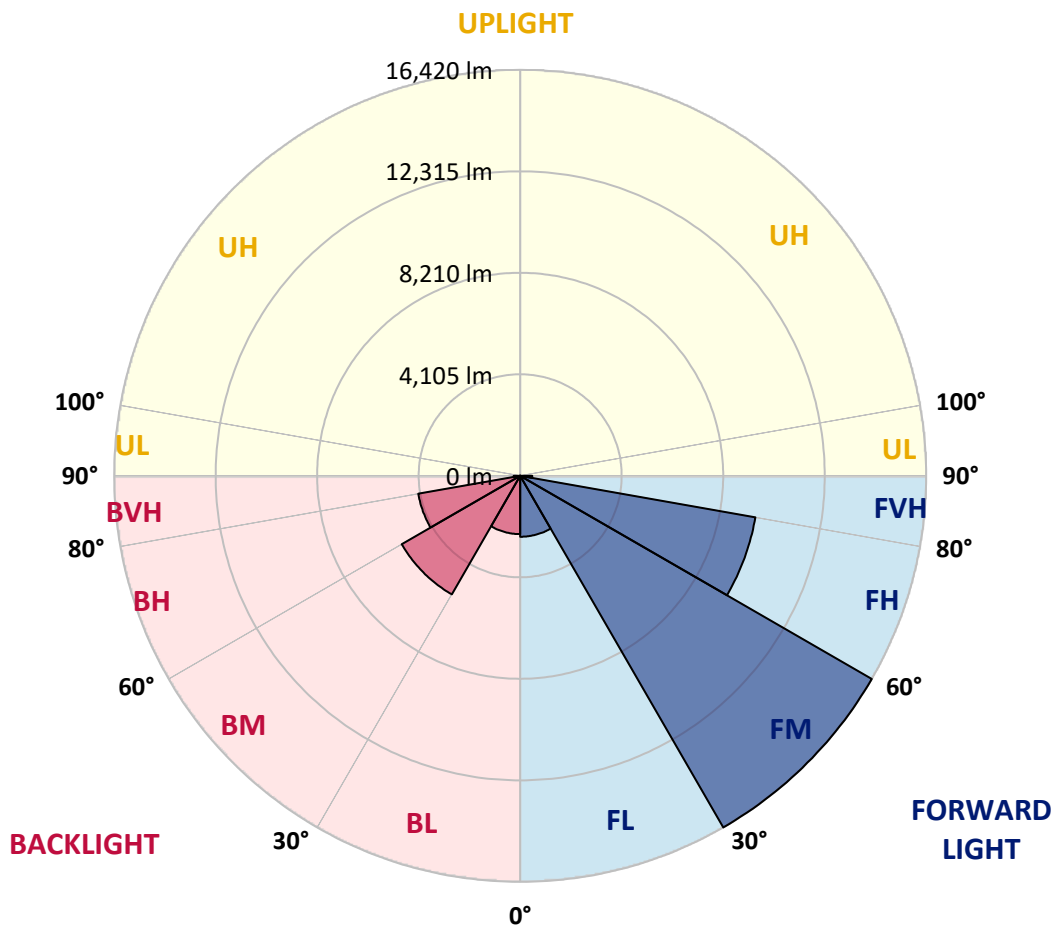
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2464.7	6.0			
FM	(30°-60°)	16420.3	39.7			
FH	(60°-80°)	9660.8	23.4			G4/12000
FVH	(80°-90°)	489.3	1.2			G3/500
BL	(0°-30°)	2357.1	5.7	B3/2500		
BM	(30°-60°)	5532.0	13.4	B4/8500		
BH	(60°-80°)	4184.5	10.1	B4/5000		G4/5000
BVH	(80°-90°)	263.3	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0
2.5°	4933.0	4894.0	4896.0	4896.0	4897.0	4899.0	4906.0	4911.0	4916.0	4925.0	4944.0
5°	4906.0	4870.0	4875.0	4878.0	4884.0	4891.0	4899.0	4903.0	4911.0	4930.0	4956.0
7.5°	4886.0	4850.0	4857.0	4862.0	4872.0	4889.0	4914.0	4934.0	4946.0	4972.0	5007.0
10°	4919.0	4878.0	4885.0	4883.0	4888.0	4915.0	4954.0	4996.0	5013.0	5047.0	5091.0
12.5°	5008.0	4967.0	4969.0	4954.0	4959.0	4989.0	5033.0	5085.0	5105.0	5141.0	5186.0
15°	5147.0	5091.0	5092.0	5080.0	5076.0	5105.0	5142.0	5190.0	5210.0	5247.0	5289.0
17.5°	5383.0	5331.0	5307.0	5255.0	5237.0	5262.0	5297.0	5337.0	5355.0	5370.0	5408.0
20°	5793.0	5729.0	5676.0	5575.0	5483.0	5463.0	5480.0	5517.0	5517.0	5509.0	5541.0
22.5°	6379.0	6319.0	6240.0	6063.0	5848.0	5740.0	5704.0	5727.0	5709.0	5674.0	5681.0
25°	7093.0	6969.0	6902.0	6686.0	6347.0	6119.0	5991.0	5975.0	5955.0	5898.0	5882.0
27.5°	7976.0	7860.0	7691.0	7389.0	6945.0	6609.0	6371.0	6297.0	6251.0	6145.0	6099.0
30°	9012.0	8835.0	8628.0	8205.0	7655.0	7205.0	6857.0	6726.0	6617.0	6431.0	6347.0
32.5°	10178.0	9980.0	9732.0	9183.0	8512.0	7933.0	7505.0	7282.0	7113.0	6871.0	6714.0
35°	11734.0	11544.0	11054.0	10423.0	9533.0	8813.0	8323.0	8056.0	7849.0	7526.0	7315.0
37.5°	13698.0	13354.0	12710.0	11938.0	10814.0	9906.0	9301.0	9081.0	8834.0	8413.0	8121.0
40°	15370.0	15023.0	14531.0	13659.0	12458.0	11360.0	10580.0	10292.0	9991.0	9426.0	9100.0
42.5°	16653.9	16306.9	15943.9	15362.0	14412.0	13294.0	12018.0	11643.0	11215.0	10509.0	10078.0
45°	17426.9	17038.9	16854.9	16745.9	16418.9	16433.9	13741.0	13019.0	12437.0	11643.0	11113.0
47.5°	17651.9	17239.9	17277.9	17612.9	18117.9	18697.9	15757.9	14430.0	13676.0	12706.0	12185.0
50°	16925.9	16621.9	17038.9	18052.9	19451.9	20451.9	17988.9	15984.9	14936.0	13877.0	13248.0
52.5°	14651.0	14645.0	15568.0	17569.9	20251.9	22021.9	20276.9	17769.9	16250.9	15019.0	14361.0
55°	11584.0	11581.0	12953.0	15590.0	19938.9	22613.9	22200.9	19878.9	17613.9	16126.9	15515.0
57.5°	8128.0	8403.0	9988.0	12450.0	17662.9	22184.9	23383.9	22085.9	18951.9	17209.9	16626.9
60°	5308.0	5420.0	7046.0	9719.0	13857.0	19900.9	23880.9	24093.9	20241.9	18154.9	17757.9
62.5°	3783.0	3807.0	4568.0	7261.0	9873.0	15460.0	23456.9	25504.9	21433.9	19010.9	18919.9
64°	3204.0	3241.0	3753.0	5739.0	8089.0	11530.0	22619.9	25862.9	22046.9	19458.9	19586.9
65°	2899.0	2934.0	3347.0	4837.0	7212.0	9334.0	21598.9	25831.9	22447.9	19721.9	19997.9
67.5°	2377.0	2380.0	2602.0	3322.0	5379.0	5461.0	16541.9	24543.9	22935.9	20119.9	20785.9
70°	2126.0	2137.0	2257.0	2516.0	4016.0	3653.0	9353.0	22118.9	22407.9	19953.9	20853.9
72.5°	1740.0	1772.0	1967.0	2174.0	2882.0	2560.0	4379.0	17620.9	20145.9	18996.9	19736.9
75°	1356.0	1379.0	1567.0	1918.0	2068.0	1914.0	2427.0	11381.0	16145.9	16849.9	16834.9
77.5°	1021.0	1044.0	1205.0	1518.0	1840.0	1422.0	1636.0	5656.0	11158.0	12744.0	12124.0
80°	772.0	771.0	913.0	1144.0	1502.0	1067.0	1105.0	2564.0	6378.0	7623.0	6730.0
82.5°	532.0	543.0	671.0	877.0	1040.0	1027.0	774.0	1327.0	2821.0	3208.0	3088.0
85°	373.0	368.0	475.0	578.0	686.0	743.0	518.0	746.0	1221.0	639.0	569.0
87.5°	208.0	207.0	282.0	319.0	342.0	300.0	309.0	290.0	480.0	252.0	162.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0	4937.0
2.5°	4939.0	4968.0	4994.0	5018.0	5026.0	5049.0	5075.0	5081.0	5088.0	5035.0
5°	4964.0	5022.0	5086.0	5139.0	5186.0	5236.0	5297.0	5309.0	5335.0	5268.0
7.5°	5034.0	5120.0	5224.0	5312.0	5391.0	5463.0	5541.0	5570.0	5587.0	5522.0
10°	5128.0	5252.0	5382.0	5515.0	5611.0	5691.0	5753.0	5754.0	5772.0	5710.0
12.5°	5234.0	5387.0	5553.0	5700.0	5797.0	5838.0	5850.0	5815.0	5816.0	5749.0
15°	5340.0	5519.0	5720.0	5860.0	5905.0	5880.0	5848.0	5802.0	5794.0	5723.0
17.5°	5469.0	5660.0	5860.0	5970.0	5932.0	5858.0	5819.0	5764.0	5758.0	5684.0
20°	5594.0	5804.0	5994.0	6026.0	5899.0	5792.0	5737.0	5655.0	5640.0	5563.0
22.5°	5722.0	5936.0	6113.0	6031.0	5821.0	5654.0	5551.0	5440.0	5415.0	5347.0
25°	5888.0	6072.0	6215.0	5991.0	5664.0	5399.0	5244.0	5128.0	5115.0	5062.0
27.5°	6107.0	6254.0	6317.0	5903.0	5411.0	5047.0	4855.0	4749.0	4764.0	4698.0
30°	6315.0	6449.0	6410.0	5748.0	5049.0	4591.0	4428.0	4349.0	4375.0	4310.0
32.5°	6609.0	6684.0	6497.0	5522.0	4630.0	4158.0	4020.0	3909.0	3885.0	3870.0
35°	7148.0	7120.0	6598.0	5257.0	4209.0	3754.0	3554.0	3368.0	3324.0	3251.0
37.5°	7887.0	7748.0	6689.0	4970.0	3811.0	3343.0	3073.0	2862.0	2790.0	2733.0
40°	8744.0	8480.0	6788.0	4625.0	3441.0	2935.0	2688.0	2466.0	2388.0	2365.0
42.5°	9680.0	9205.0	6838.0	4156.0	3105.0	2679.0	2395.0	2193.0	2105.0	2062.0
45°	10671.0	9894.0	6741.0	3639.0	2843.0	2489.0	2182.0	1933.0	1833.0	1820.0
47.5°	11647.0	10443.0	6470.0	3187.0	2654.0	2348.0	1944.0	1780.0	1721.0	1702.0
50°	12746.0	10899.0	6056.0	2791.0	2487.0	2132.0	1828.0	1708.0	1660.0	1647.0
52.5°	13898.0	11282.0	5574.0	2487.0	2281.0	2004.0	1769.0	1640.0	1604.0	1593.0
55°	15121.0	11652.0	5053.0	2210.0	2034.0	1948.0	1715.0	1583.0	1558.0	1552.0
57.5°	16484.9	12081.0	4566.0	1908.0	1883.0	1894.0	1675.0	1543.0	1524.0	1520.0
60°	17883.9	12619.0	4101.0	1662.0	1764.0	1842.0	1634.0	1491.0	1456.0	1444.0
62.5°	19334.9	13213.0	3560.0	1467.0	1645.0	1772.0	1572.0	1407.0	1374.0	1358.0
64°	20139.9	13523.0	3167.0	1369.0	1577.0	1715.0	1518.0	1343.0	1319.0	1303.0
65°	20588.9	13694.0	2850.0	1313.0	1528.0	1671.0	1475.0	1295.0	1285.0	1267.0
67.5°	21226.9	13756.0	2131.0	1194.0	1389.0	1534.0	1346.0	1186.0	1211.0	1178.0
70°	20755.9	13168.0	1536.0	1084.0	1235.0	1377.0	1228.0	1072.0	1103.0	1049.0
72.5°	18912.9	11407.0	1160.0	965.0	1078.0	1216.0	1092.0	945.0	922.0	885.0
75°	15191.0	8482.0	919.0	851.0	929.0	1050.0	954.0	809.0	759.0	741.0
77.5°	10702.0	5015.0	743.0	729.0	789.0	875.0	816.0	688.0	623.0	619.0
80°	5832.0	2206.0	606.0	601.0	638.0	715.0	685.0	570.0	500.0	483.0
82.5°	2206.0	945.0	460.0	465.0	492.0	553.0	536.0	434.0	399.0	331.0
85°	562.0	466.0	299.0	301.0	296.0	364.0	358.0	283.0	241.0	221.0
87.5°	225.0	174.0	112.0	122.0	116.0	168.0	171.0	134.0	82.0	71.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)