

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: P638983

Luminaire Tested: **USSL-M-C09-D-U-T2-BZ**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P638983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C09-D-U-T2-BZ
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79322 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 587.5
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

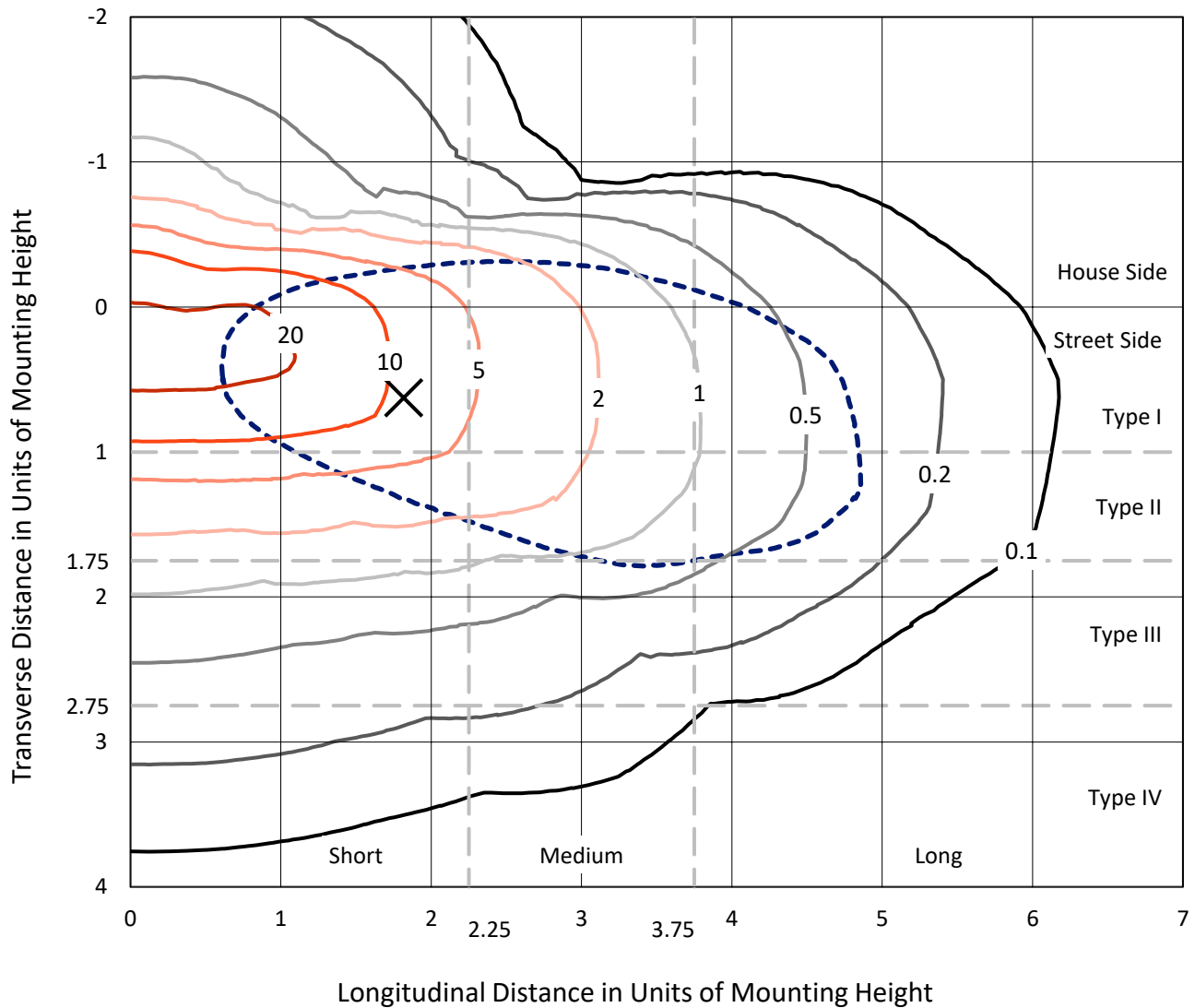


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

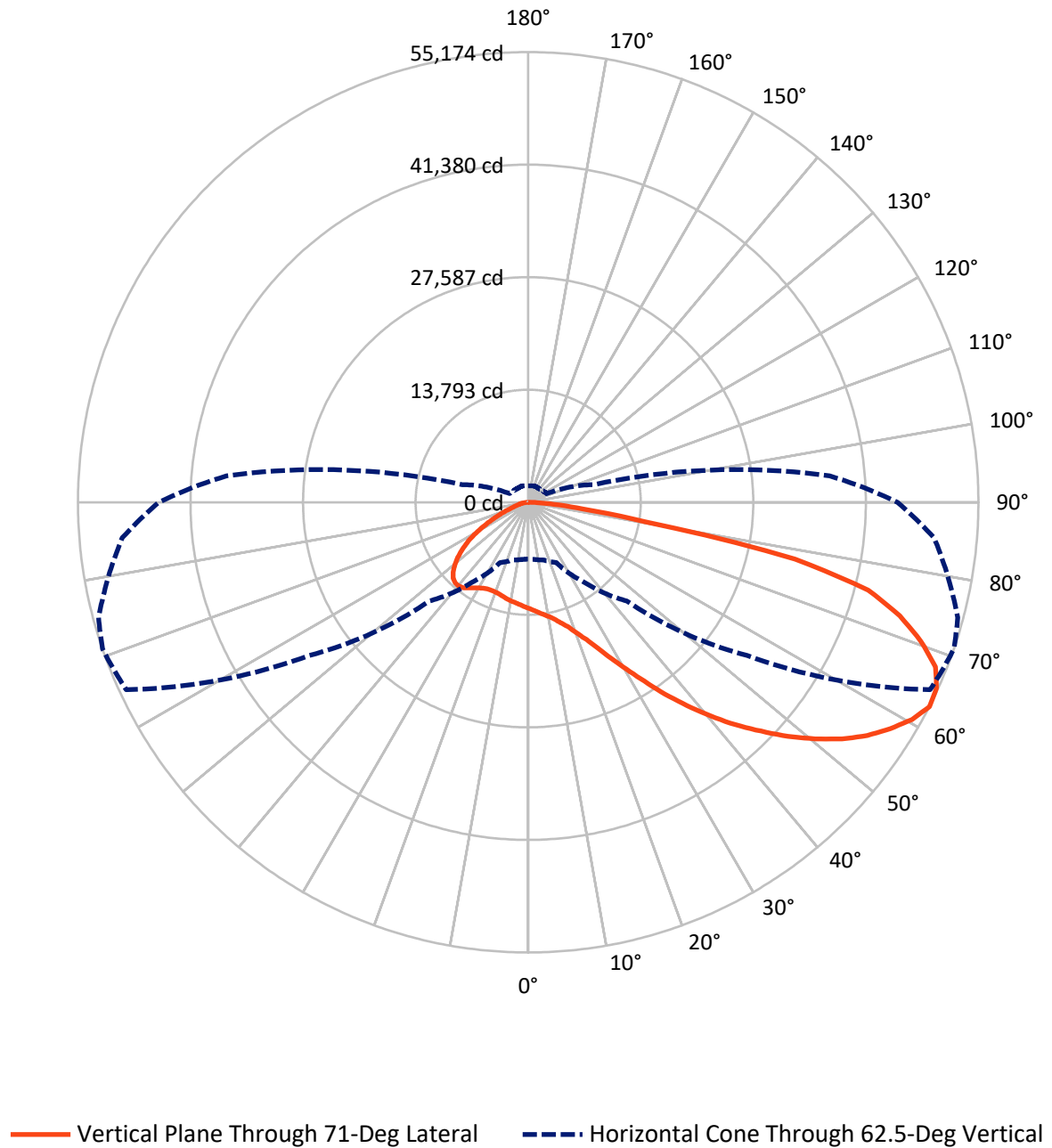


Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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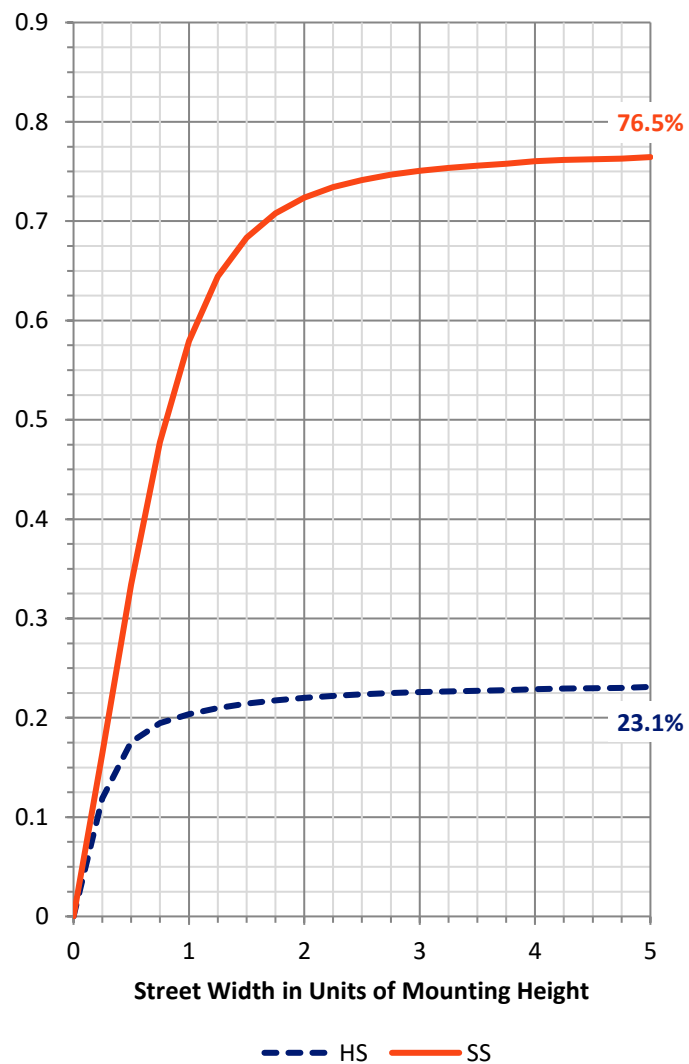
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18655.4	0.0	18655.4
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	60666.6	0.0	60666.6
	% Fixture	76.5	0.0	76.5
Total	Lumens	79322.0	0.0	79322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.9	1.6
10°-20°	3855.3	4.9
20°-30°	6676.5	8.4
30°-40°	9938.6	12.5
40°-50°	13375.1	16.9
50°-60°	15827.9	20.0
60°-70°	16047.9	20.2
70°-80°	10712.0	13.5
80°-90°	1630.7	2.1
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°	79322.0	100.0
0°-180°	79322.0	100.0

Coefficient of Utilization



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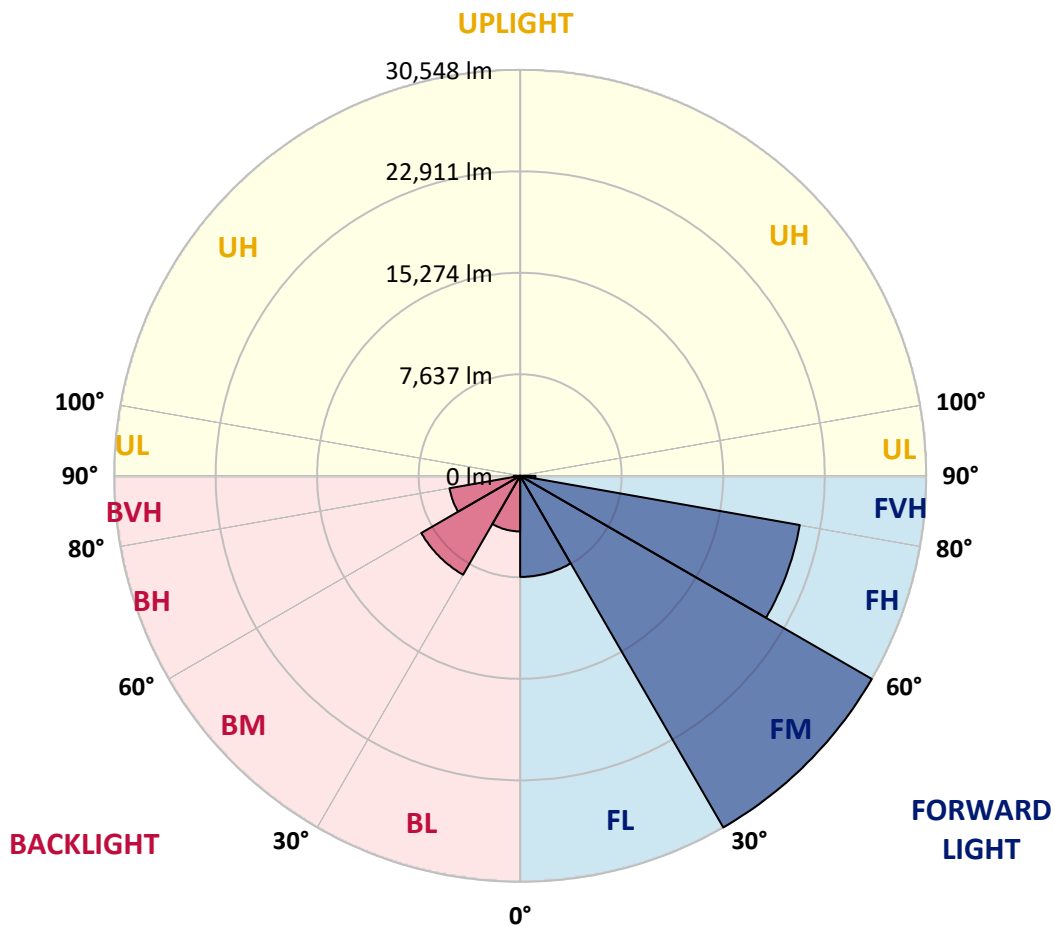
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7604.4	9.6			
FM	(30°-60°)	30547.6	38.5			
FH	(60°-80°)	21362.3	26.9			G5
FVH	(80°-90°)	1152.4	1.5			G5
BL	(0°-30°)	4185.3	5.3	B4/5000		
BM	(30°-60°)	8594.1	10.8	B5		
BH	(60°-80°)	5397.7	6.8	B5		G5
BVH	(80°-90°)	478.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3
2.5°	13701.7	13673.3	13733.2	13701.7	13635.5	13520.5	13438.6	13369.2	13262.1	13216.4	13128.2
5°	14495.7	14508.3	14568.1	14431.1	14311.4	14103.4	13931.7	13752.1	13570.9	13457.5	13238.5
7.5°	15311.8	15340.1	15344.8	15220.4	15025.0	14776.1	14473.6	14197.9	13904.9	13763.1	13403.9
10°	16019.1	16041.2	16025.4	15957.7	15749.7	15418.9	15061.3	14643.8	14270.4	14065.6	13569.3
12.5°	16699.7	16745.4	16695.0	16578.4	16362.6	16034.9	15697.7	15192.0	14754.1	14476.8	13771.0
15°	17433.9	17410.3	17333.1	17169.2	17008.5	16739.1	16351.6	15893.1	15382.7	15014.0	14117.6
17.5°	18018.4	18071.9	18029.4	17878.2	17684.4	17421.3	17164.5	16679.2	16104.2	15757.6	14639.0
20°	18555.6	18595.0	18568.2	18494.2	18446.9	18278.3	18065.6	17659.2	17112.5	16658.8	15308.6
22.5°	18935.3	18995.2	19100.7	19187.4	19255.1	19218.9	19133.8	18899.1	18279.9	17884.5	16227.1
25°	19152.7	19212.6	19504.0	19820.7	20150.0	20343.7	20441.4	20409.9	19768.7	19396.9	17528.4
27.5°	19281.9	19355.9	19760.8	20342.2	20969.2	21463.9	21919.2	22067.3	21645.1	21284.3	19099.1
30°	19319.7	19400.0	19871.1	20662.0	21714.4	22658.1	23404.8	24009.8	23723.1	23255.2	21033.8
32.5°	19097.6	19179.5	19705.7	20822.7	22300.4	23823.9	24904.7	26029.5	26144.5	25712.9	23376.5
35°	18497.3	18609.2	19307.1	20770.7	22850.3	24988.1	26358.8	28161.1	28868.5	28504.5	25741.2
37.5°	17747.4	17796.2	18702.1	20447.7	23133.8	25922.4	27998.8	30732.2	31619.2	31319.9	28287.1
40°	16882.5	16920.3	17925.4	19883.7	23207.9	26699.1	29534.9	33188.3	34414.0	33894.1	30653.5
42.5°	15745.0	15976.6	16970.7	19165.3	23034.6	27275.7	30952.8	36109.2	37287.7	36908.0	32903.2
45°	14755.6	14824.9	15836.4	18037.3	22532.0	27720.0	32260.4	38653.6	40006.9	39609.9	35698.0
47.5°	13789.9	13789.9	14744.6	16759.6	21572.6	27888.5	33547.5	41292.4	42863.2	42404.7	38155.7
50°	11204.6	11708.7	13605.6	15667.8	20104.3	27590.8	34893.0	44055.8	45574.5	45122.4	40410.2
52.5°	9271.5	9329.8	11004.5	14450.0	18483.1	26656.5	36028.9	47030.2	48164.5	47482.4	42691.4
55°	8521.6	8546.8	9224.2	12635.1	17000.6	25073.2	36659.1	49533.6	50445.8	49680.1	44764.7
57.5°	8026.9	8086.8	8408.2	10163.2	15440.9	22648.6	36802.4	51873.1	52326.9	51474.5	46630.1
60°	7403.0	7448.7	7941.8	8912.3	13698.5	19552.9	35885.5	53642.4	54053.6	53245.4	48427.6
62.5°	6963.5	7006.0	7316.4	8146.6	11941.9	17098.3	32726.7	54351.3	55173.7	54497.8	49924.3
65°	6456.2	6517.6	6812.2	7554.3	10683.1	15351.1	29955.5	53393.4	54981.5	54789.3	50746.7
67.5°	5870.1	5915.8	6223.0	6854.8	9353.4	14015.2	26878.7	51805.4	53829.8	53899.2	50146.4
70°	5251.0	5266.7	5570.8	6073.3	7683.5	12390.9	22224.8	49152.3	51060.2	51049.2	47504.4
72.5°	4488.4	4543.6	4849.2	5315.6	6427.8	10391.6	17392.9	44481.1	47636.8	47833.7	43238.1
75°	3716.5	3765.3	4019.0	4458.5	5255.7	8416.0	12351.5	35690.2	43038.0	43576.8	37536.6
77.5°	2267.1	2361.6	2541.2	3031.2	4026.8	6612.1	7886.7	21235.4	33435.7	35444.4	29764.9
80°	1003.6	1383.2	1797.6	2063.8	2448.2	4466.4	4294.7	9517.3	14519.3	19664.7	19047.1
82.5°	308.8	397.0	1126.4	1326.5	1462.0	1868.5	1991.4	4716.9	6705.1	7623.6	8641.3
85°	130.8	167.0	466.3	609.7	655.4	493.1	779.8	2120.6	3144.6	3570.0	3360.4
87.5°	34.7	39.4	126.0	176.4	181.2	157.5	203.2	713.7	1052.4	1227.3	1063.4
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°	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3	13005.3
2.5°	13065.2	12975.4	12866.7	12715.4	12598.8	12491.7	12450.8	12332.6	12291.6	12302.7	12283.8
5°	13101.4	12956.5	12696.5	12431.8	12197.1	12008.0	11899.3	11759.1	11735.5	11733.9	11661.5
7.5°	13194.4	12976.9	12570.5	12192.4	11866.3	11606.3	11422.0	11262.9	11229.8	11226.6	11173.1
10°	13282.6	12986.4	12483.8	12006.5	11554.3	11201.4	10952.5	10769.7	10692.6	10650.0	10587.0
12.5°	13403.9	13013.2	12381.4	11793.8	11255.0	10798.1	10500.3	10254.6	10153.7	10063.9	10049.8
15°	13641.8	13128.2	12272.7	11505.5	10919.4	10347.5	9956.8	9718.9	9607.1	9493.6	9430.6
17.5°	14013.6	13353.5	12209.7	11225.1	10494.0	9862.3	9370.8	9125.0	8929.6	8835.1	8795.7
20°	14487.8	13703.2	12223.9	10957.2	10024.6	9328.2	8715.4	8423.9	8176.6	8124.6	8053.7
22.5°	15229.8	14224.7	12338.9	10724.1	9600.8	8731.1	8055.3	7604.7	7305.3	7261.2	7258.1
25°	16252.3	14973.0	12518.5	10487.7	9060.4	8091.5	7275.4	6713.0	6405.8	6293.9	6300.2
27.5°	17627.7	16072.7	12871.4	10275.1	8474.3	7220.3	6276.6	5758.3	5444.7	5345.5	5310.8
30°	19263.0	17378.7	13405.5	10048.2	7779.6	6163.1	5274.6	4833.5	4513.7	4412.8	4401.8
32.5°	21284.3	19048.7	14097.1	9759.9	6985.5	5123.4	4420.7	4020.5	3700.7	3484.9	3529.0
35°	23587.6	20945.6	14922.6	9487.3	6041.8	4334.1	3752.7	3264.3	2939.8	2820.0	2816.9
37.5°	25697.1	22672.2	15756.0	9162.8	5197.4	3771.6	3042.2	2684.6	2467.1	2358.4	2372.6
40°	27764.1	24443.0	16441.4	8658.7	4319.9	3139.9	2399.4	2273.4	2213.5	2159.9	2163.1
42.5°	29850.0	26160.3	16917.1	7919.8	3656.6	2542.8	2049.7	2142.6	2207.2	2189.9	2171.0
45°	31940.6	27860.2	17233.8	6883.1	3045.3	2123.7	1996.1	2148.9	2252.9	2271.8	2252.9
47.5°	34292.7	29484.5	17266.9	5517.2	2594.8	2060.7	2021.3	2111.1	2282.8	2328.5	2298.6
50°	36685.8	31033.1	16891.9	4201.7	2407.3	2111.1	2074.9	2063.8	2232.4	2281.2	2262.3
52.5°	38686.7	32383.3	16020.7	3324.2	2352.1	2175.7	2177.3	2065.4	2153.6	2211.9	2238.7
55°	40767.8	34029.6	14517.7	2909.8	2358.4	2204.0	2263.9	2114.2	2120.6	2104.8	2133.2
57.5°	42505.5	35244.3	12750.1	2763.3	2363.2	2232.4	2251.3	2145.8	2147.3	2062.3	2016.6
60°	44081.0	36443.2	10623.2	2627.8	2352.1	2237.1	2199.3	2178.8	2152.1	2076.4	2030.7
62.5°	45261.0	37108.1	8376.6	2520.7	2317.5	2210.4	2115.8	2142.6	2096.9	2021.3	2024.4
65°	45752.5	36926.9	6300.2	2390.0	2262.3	2175.7	2054.4	2041.8	2005.5	1925.2	1931.5
67.5°	44767.9	35074.2	4583.0	2191.4	2175.7	2119.0	1992.9	1942.5	1892.1	1837.0	1862.2
70°	41872.2	31609.7	3209.2	1901.6	2035.5	2027.6	1942.5	1885.8	1810.2	1725.1	1740.9
72.5°	37167.9	27297.8	2193.0	1577.0	1783.4	1898.4	1855.9	1802.3	1663.7	1436.8	1400.6
75°	31074.1	21790.0	1613.3	1244.6	1444.7	1685.7	1638.5	1583.3	1559.7	1879.5	1873.2
77.5°	24128.0	14919.5	1284.0	995.7	1169.0	1235.1	1422.6	1561.3	2350.6	2029.2	1956.7
80°	14727.3	8820.9	1038.2	738.9	778.3	866.5	1209.9	1923.6	2215.1	1350.2	1271.4
82.5°	7382.5	4294.7	817.7	501.0	538.8	486.8	868.1	2221.4	1562.8	772.0	720.0
85°	2656.2	1359.6	370.2	242.6	239.5	148.1	490.0	1729.8	1005.1	578.2	543.5
87.5°	682.2	248.9	50.4	29.9	20.5	18.9	122.9	861.8	438.0	280.4	230.0
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)