

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: P1211144

Luminaire Tested: **ARCH4-180-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20815 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180
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



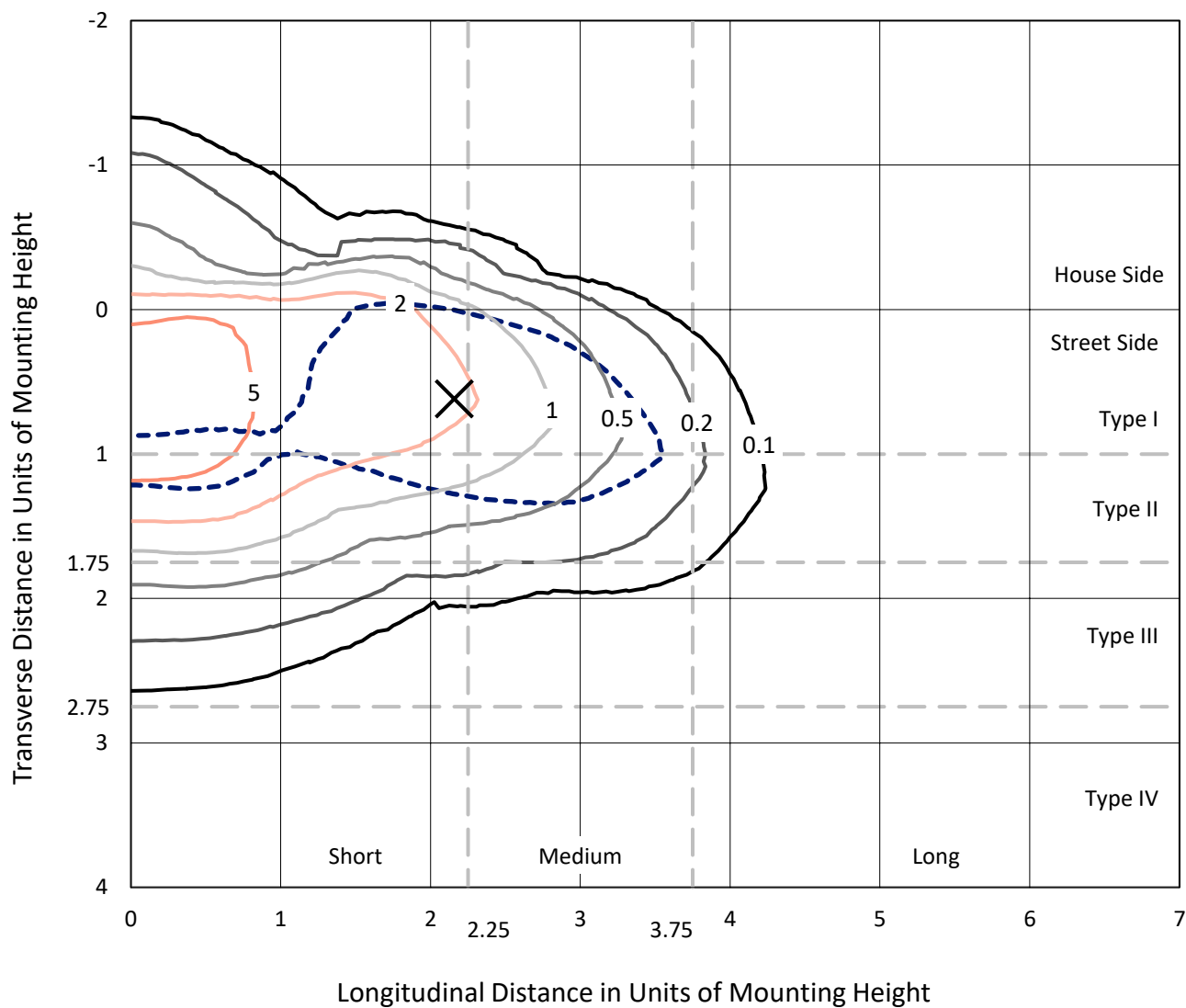
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Iso-Footcandle Lines of Horizontal Illumination

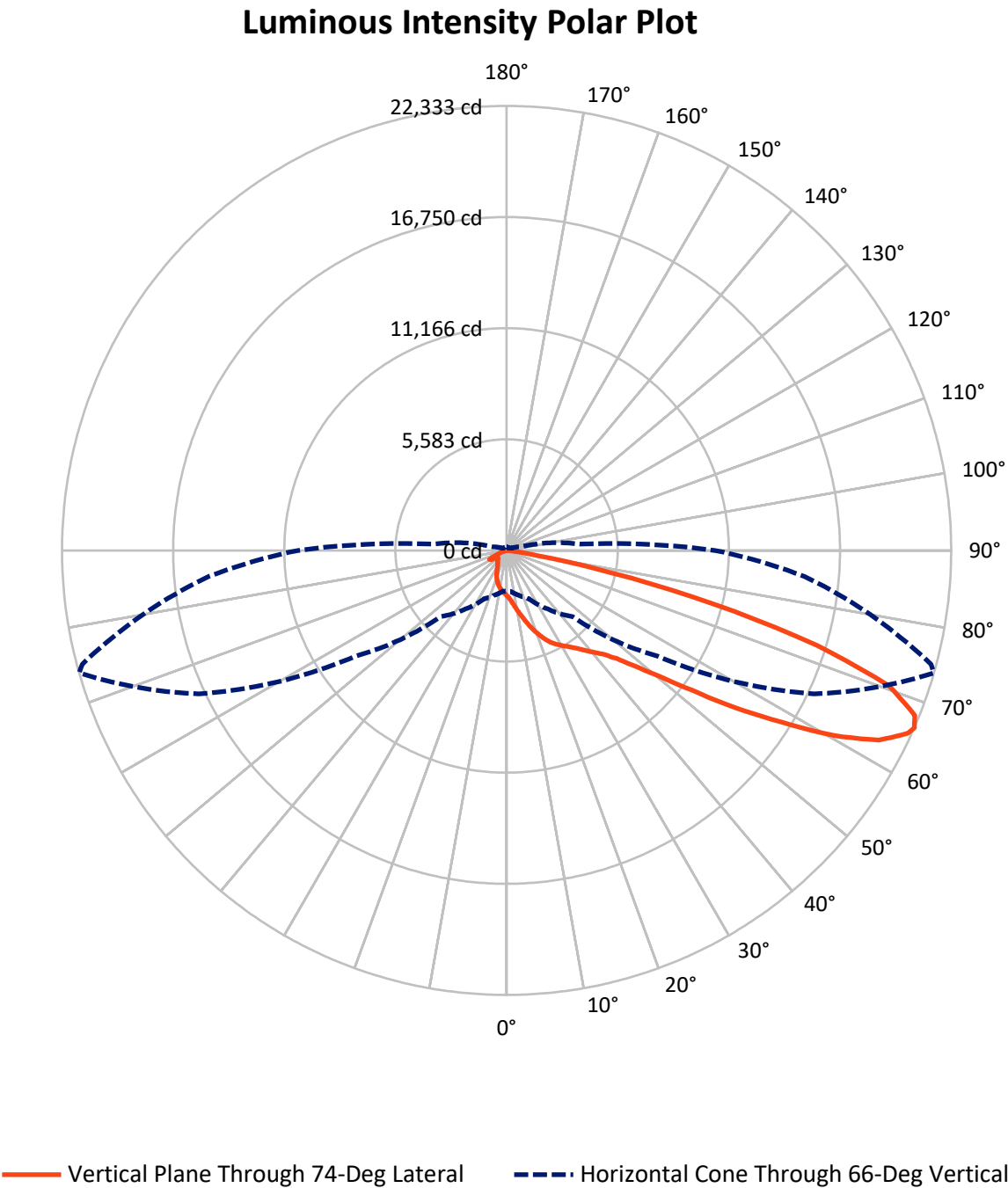
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Short - N/A

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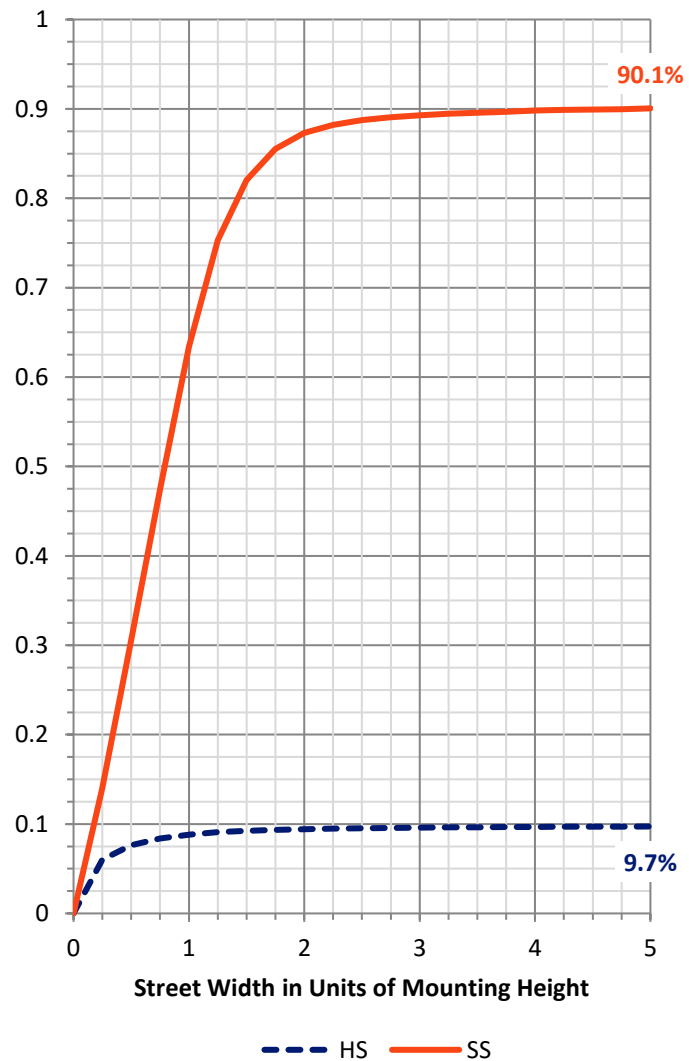
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.5	0.0	2040.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18774.5	0.0	18774.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	20815.0	0.0	20815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.1
10°-20°	711.0	3.4
20°-30°	1356.9	6.5
30°-40°	2378.2	11.4
40°-50°	4078.0	19.6
50°-60°	5303.8	25.5
60°-70°	4801.3	23.1
70°-80°	1852.6	8.9
80°-90°	111.5	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°	20815.0	100.0
0°-180°	20815.0	100.0

Coefficient of Utilization



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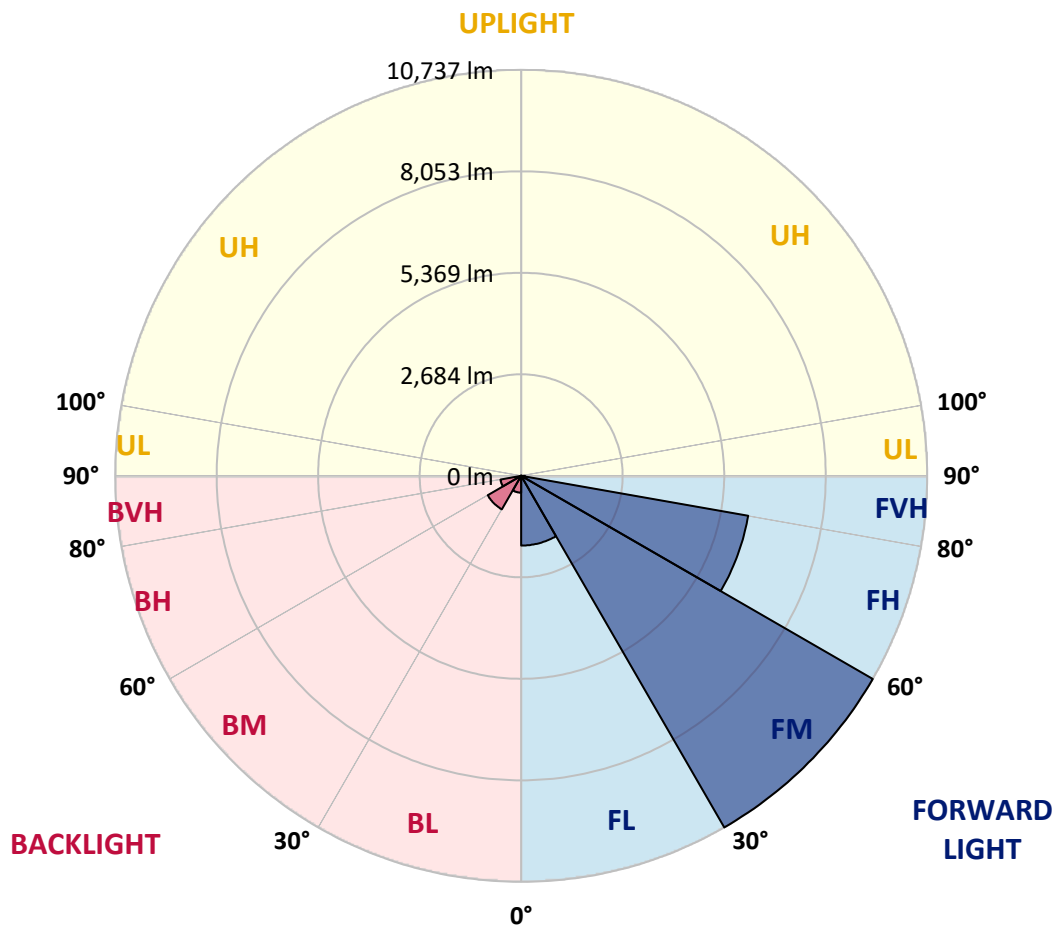
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.5	8.9			
FM	(30°-60°)	10737.4	51.6			
FH	(60°-80°)	6096.0	29.3			G3/7500
FVH	(80°-90°)	96.5	0.5			G1/100
BL	(0°-30°)	445.1	2.1	B1/500		
BM	(30°-60°)	1022.6	4.9	B2/2500		
BH	(60°-80°)	557.9	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1
2.5°	2728.1	2705.6	2664.5	2660.8	2627.2	2586.1	2515.0	2440.3	2388.0	2380.5	2317.0
5°	3266.2	3255.0	3213.9	3187.7	3124.2	3027.0	2862.6	2698.2	2559.9	2544.9	2402.9
7.5°	3408.2	3415.7	3423.2	3449.3	3426.9	3382.0	3258.7	3027.0	2810.3	2776.6	2530.0
10°	3430.6	3423.2	3423.2	3456.8	3520.3	3583.8	3568.9	3370.8	3090.6	3049.4	2705.6
12.5°	3673.5	3684.7	3658.6	3643.6	3632.4	3666.1	3778.2	3692.2	3385.8	3352.1	2918.6
15°	3987.5	3983.7	3946.3	3946.3	3912.7	3856.7	3927.7	3991.2	3740.8	3699.7	3161.6
17.5°	4215.4	4230.4	4226.6	4249.0	4237.8	4163.1	4125.7	4256.5	4107.0	4054.7	3438.1
20°	4398.5	4439.6	4454.6	4525.6	4559.2	4506.9	4409.7	4492.0	4458.3	4409.7	3718.4
22.5°	4592.9	4626.5	4652.6	4776.0	4869.4	4858.2	4734.9	4716.2	4798.4	4753.6	3994.9
25°	4787.2	4802.1	4880.6	5030.1	5179.6	5216.9	5089.9	4944.1	5104.8	5063.7	4241.6
27.5°	5000.2	5007.7	5101.1	5284.2	5493.5	5572.0	5471.1	5202.0	5340.3	5340.3	4465.8
30°	5388.9	5463.6	5501.0	5665.4	5848.5	5956.9	5837.3	5474.8	5549.5	5583.2	4701.2
32.5°	6226.0	6237.2	6226.0	6297.0	6334.3	6397.9	6259.6	5781.2	5762.6	5799.9	4932.9
35°	7504.0	7459.2	7339.6	7235.0	7018.2	6898.6	6719.2	6173.6	6024.2	6076.5	5160.9
37.5°	9054.9	8991.4	8718.6	8397.2	7933.8	7455.5	7231.2	6652.0	6356.8	6424.0	5407.5
40°	10534.8	10493.7	10168.6	9772.4	8980.2	8161.8	7687.1	7055.6	6726.7	6752.9	5657.9
42.5°	11753.1	11745.6	11472.8	11058.0	10041.5	8924.1	8225.3	7451.7	7115.4	7156.5	5919.5
45°	12676.1	12605.1	12403.3	12104.4	11069.2	9716.4	8875.5	8053.4	7739.5	7788.0	6311.9
47.5°	12676.1	12687.3	12818.1	12788.2	11786.7	10460.1	9585.6	8812.0	8662.5	8707.4	6958.4
50°	11644.7	11749.3	12332.3	12821.9	12160.4	11039.3	10351.7	9761.2	9914.4	9981.7	8087.0
52.5°	9604.3	9779.9	10792.7	11910.0	11883.9	11330.8	11143.9	10968.3	11655.9	11775.5	9753.7
55°	7298.5	7414.3	8733.5	10202.2	10680.5	11091.6	11835.3	12500.5	13961.7	13935.5	11446.6
57.5°	5452.4	5560.8	6696.8	8326.2	8957.8	10056.4	12190.3	14253.2	16248.8	16349.7	13034.9
60°	4009.9	4092.1	5060.0	6397.9	7309.7	8471.9	12048.3	15979.7	18883.4	18767.6	14436.3
62.5°	2967.2	3012.1	3710.9	4581.6	5792.5	6902.4	11155.1	17160.6	20987.4	20751.9	15217.3
65°	2294.6	2309.5	2672.0	3135.4	4211.7	5366.4	9824.8	17340.0	22149.6	21899.2	15202.4
66°	2044.2	2055.4	2320.7	2679.5	3583.8	4697.5	9241.8	17052.2	22332.7	22067.4	15015.5
67.5°	1715.3	1707.8	1864.8	2100.2	2690.7	3625.0	8206.6	16211.4	22116.0	21981.4	14417.6
70°	1270.6	1274.3	1352.8	1408.9	1573.3	2006.8	5927.0	14062.6	20382.0	20374.5	12777.0
72.5°	941.7	953.0	1012.7	1024.0	982.8	1087.5	3415.7	11185.0	16304.8	16308.6	9551.9
75°	706.3	725.0	743.7	751.2	713.8	687.6	1543.4	7526.5	10725.4	10646.9	5407.5
77.5°	538.1	545.6	560.6	549.3	541.9	474.6	642.8	3669.8	5295.4	4824.6	1752.7
80°	392.4	392.4	407.3	392.4	388.7	340.1	351.3	1177.2	1554.6	1293.0	377.4
82.5°	246.6	242.9	254.1	250.4	242.9	216.7	205.5	328.9	358.8	321.4	183.1
85°	138.3	134.5	130.8	127.1	115.8	97.2	112.1	123.3	164.4	168.2	130.8
87.5°	48.6	48.6	44.8	41.1	33.6	33.6	41.1	41.1	59.8	59.8	67.3
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°	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1	2272.1
2.5°	2287.1	2246.0	2186.2	2107.7	2051.7	1995.6	1935.8	1902.2	1853.6	1842.4	1857.3
5°	2328.2	2253.5	2104.0	1939.5	1797.5	1670.5	1550.9	1479.9	1408.9	1382.7	1393.9
7.5°	2414.1	2287.1	2033.0	1767.6	1532.2	1341.6	1199.6	1117.4	1053.9	1027.7	1035.2
10°	2541.2	2346.9	1965.7	1573.3	1270.6	1068.8	949.2	896.9	859.5	844.6	848.3
12.5°	2694.4	2432.8	1879.7	1379.0	1046.4	870.7	814.7	803.5	796.0	788.5	792.3
15°	2866.3	2507.6	1778.8	1188.4	870.7	773.6	754.9	751.2	747.4	747.4	747.4
17.5°	3045.7	2574.8	1666.7	1009.0	758.6	713.8	702.6	702.6	702.6	706.3	706.3
20°	3213.9	2627.2	1535.9	848.3	695.1	657.7	650.2	650.2	654.0	657.7	657.7
22.5°	3378.3	2649.6	1382.7	736.2	642.8	609.1	597.9	597.9	597.9	601.7	601.7
25°	3520.3	2649.6	1229.5	665.2	597.9	564.3	549.3	545.6	549.3	549.3	549.3
27.5°	3639.9	2638.4	1080.0	616.6	553.1	519.5	504.5	500.8	508.2	512.0	512.0
30°	3767.0	2623.4	960.4	571.8	515.7	482.1	467.1	467.1	478.3	493.3	493.3
32.5°	3890.3	2634.6	867.0	534.4	478.3	452.2	437.2	441.0	463.4	485.8	485.8
35°	4021.1	2657.1	810.9	508.2	452.2	426.0	414.8	426.0	448.4	470.9	470.9
37.5°	4151.9	2683.2	777.3	485.8	429.8	403.6	396.1	411.1	437.2	459.7	463.4
40°	4290.2	2705.6	739.9	463.4	414.8	384.9	381.2	396.1	429.8	452.2	455.9
42.5°	4462.1	2750.5	695.1	444.7	399.9	362.5	366.2	377.4	411.1	444.7	448.4
45°	4798.4	2892.5	650.2	426.0	381.2	351.3	343.8	351.3	388.7	426.0	433.5
47.5°	5430.0	3213.9	601.7	407.3	362.5	343.8	313.9	321.4	355.0	396.1	399.9
50°	6640.8	3897.8	575.5	388.7	347.5	317.7	284.0	284.0	310.2	347.5	347.5
52.5°	8528.0	5123.5	590.5	373.7	328.9	291.5	257.9	254.1	269.1	295.2	295.2
55°	10564.7	6468.9	646.5	358.8	306.4	276.5	239.2	220.5	231.7	246.6	246.6
57.5°	12179.1	7145.3	799.7	351.3	280.3	265.3	216.7	190.6	201.8	216.7	216.7
60°	12889.1	6749.1	971.6	358.8	261.6	246.6	194.3	168.2	186.9	201.8	205.5
62.5°	12313.6	5557.0	1042.6	340.1	235.4	220.5	190.6	157.0	179.4	190.6	194.3
65°	11069.2	4222.9	814.7	295.2	216.7	190.6	171.9	149.5	168.2	179.4	179.4
66°	10478.7	3681.0	695.1	272.8	209.3	179.4	164.4	149.5	164.4	171.9	175.6
67.5°	9563.2	2903.7	515.7	239.2	194.3	164.4	153.2	142.0	157.0	164.4	164.4
70°	7477.9	1730.3	310.2	186.9	168.2	145.7	138.3	130.8	142.0	145.7	145.7
72.5°	4682.5	822.2	198.1	138.3	142.0	138.3	115.8	123.3	127.1	130.8	130.8
75°	2268.4	325.1	134.5	100.9	115.8	130.8	93.4	108.4	112.1	119.6	115.8
77.5°	631.6	157.0	86.0	74.7	100.9	100.9	71.0	86.0	100.9	127.1	115.8
80°	183.1	100.9	56.1	56.1	71.0	71.0	48.6	59.8	67.3	74.7	78.5
82.5°	127.1	67.3	37.4	41.1	41.1	44.8	29.9	29.9	37.4	37.4	41.1
85°	100.9	29.9	22.4	26.2	18.7	22.4	14.9	14.9	18.7	14.9	14.9
87.5°	41.1	14.9	14.9	14.9	11.2	11.2	7.5	3.7	3.7	3.7	3.7
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)