

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461738

Luminaire Tested: USSL-70-8540-U-T3RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461738
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T3RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE III ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

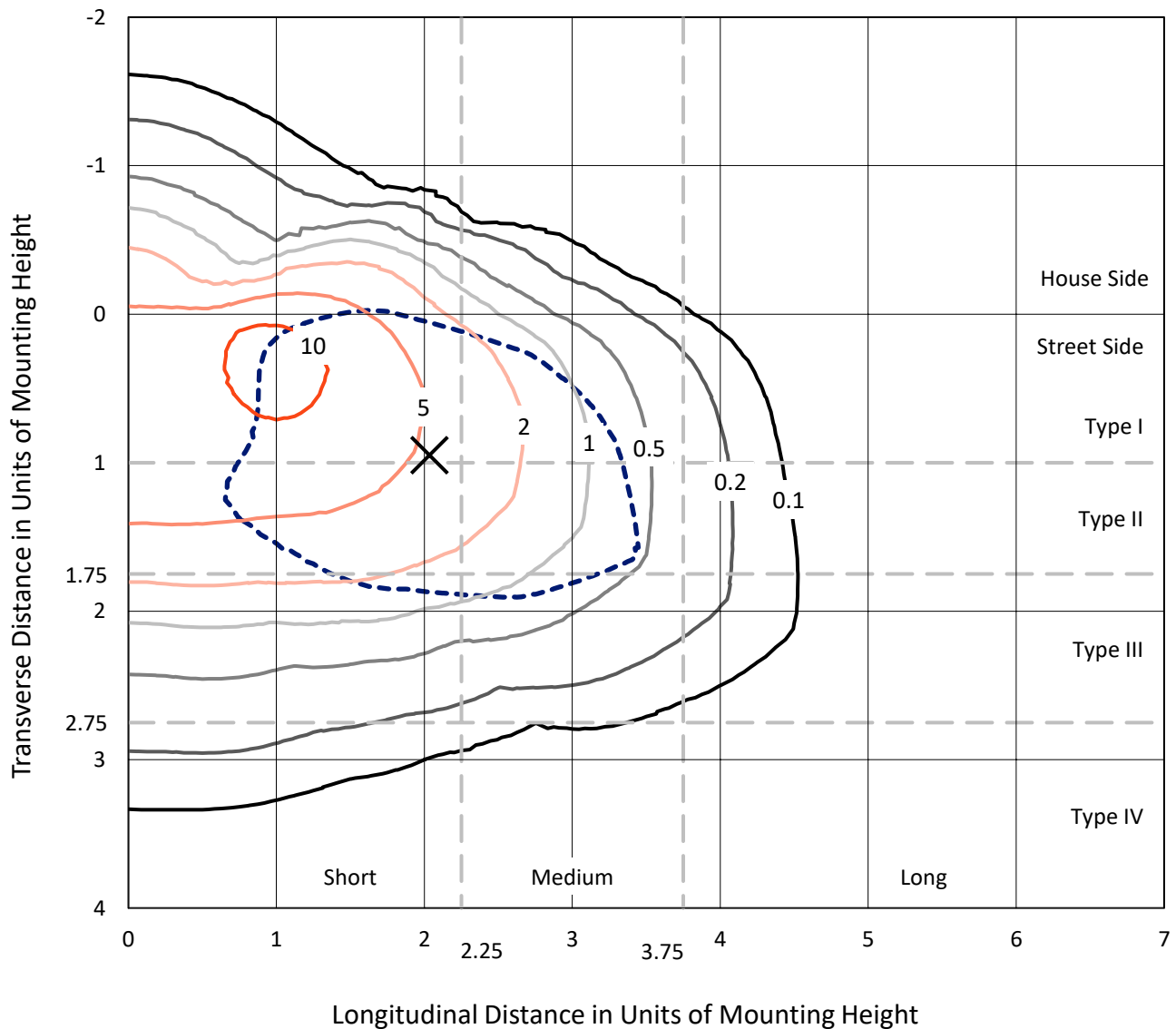
Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

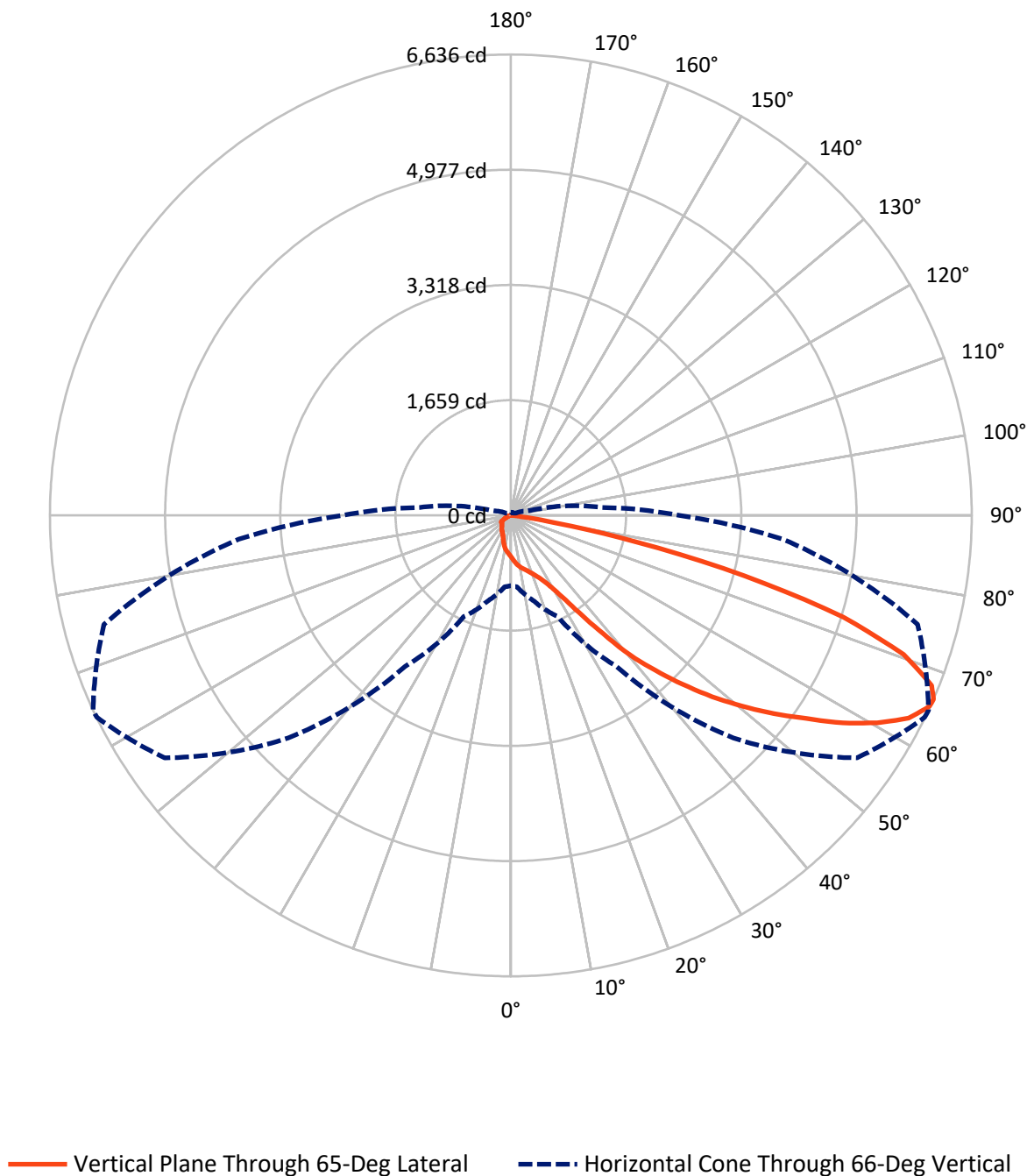


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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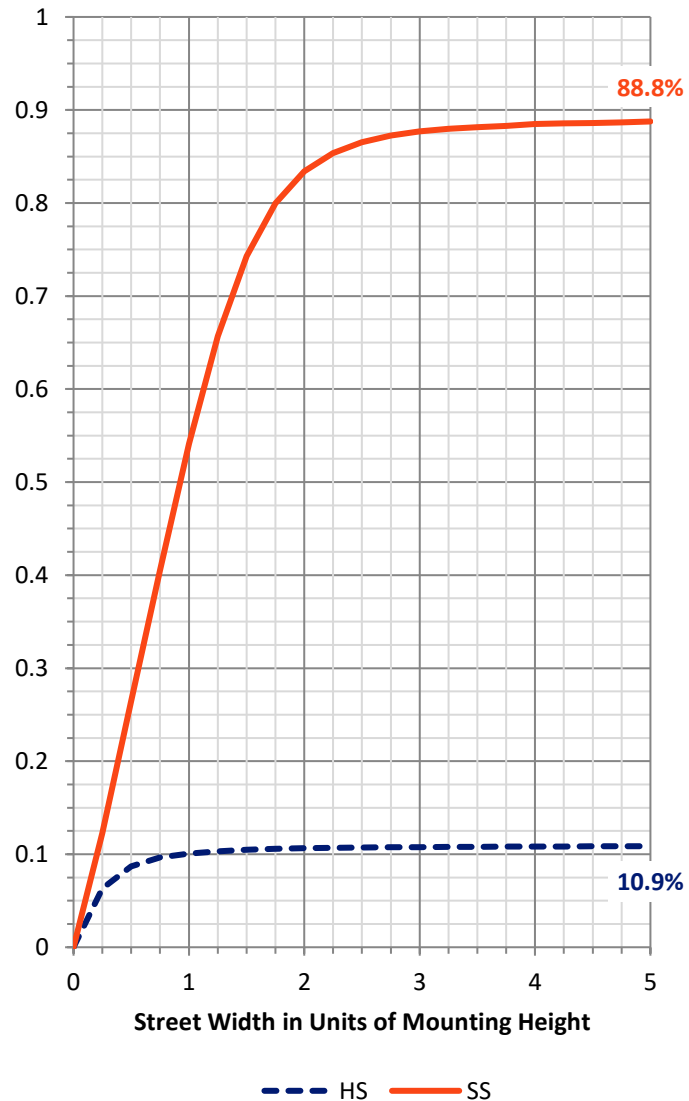
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.2	0.0	783.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	6360.9	0.0	6360.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	7144.2	0.0	7144.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	0.8
10°-20°	166.8	2.3
20°-30°	304.1	4.3
30°-40°	603.4	8.4
40°-50°	1252.0	17.5
50°-60°	1950.8	27.3
60°-70°	1986.7	27.8
70°-80°	771.5	10.8
80°-90°	52.4	0.7
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°	7144.2	100.0
0°-180°	7144.2	100.0

Coefficient of Utilization



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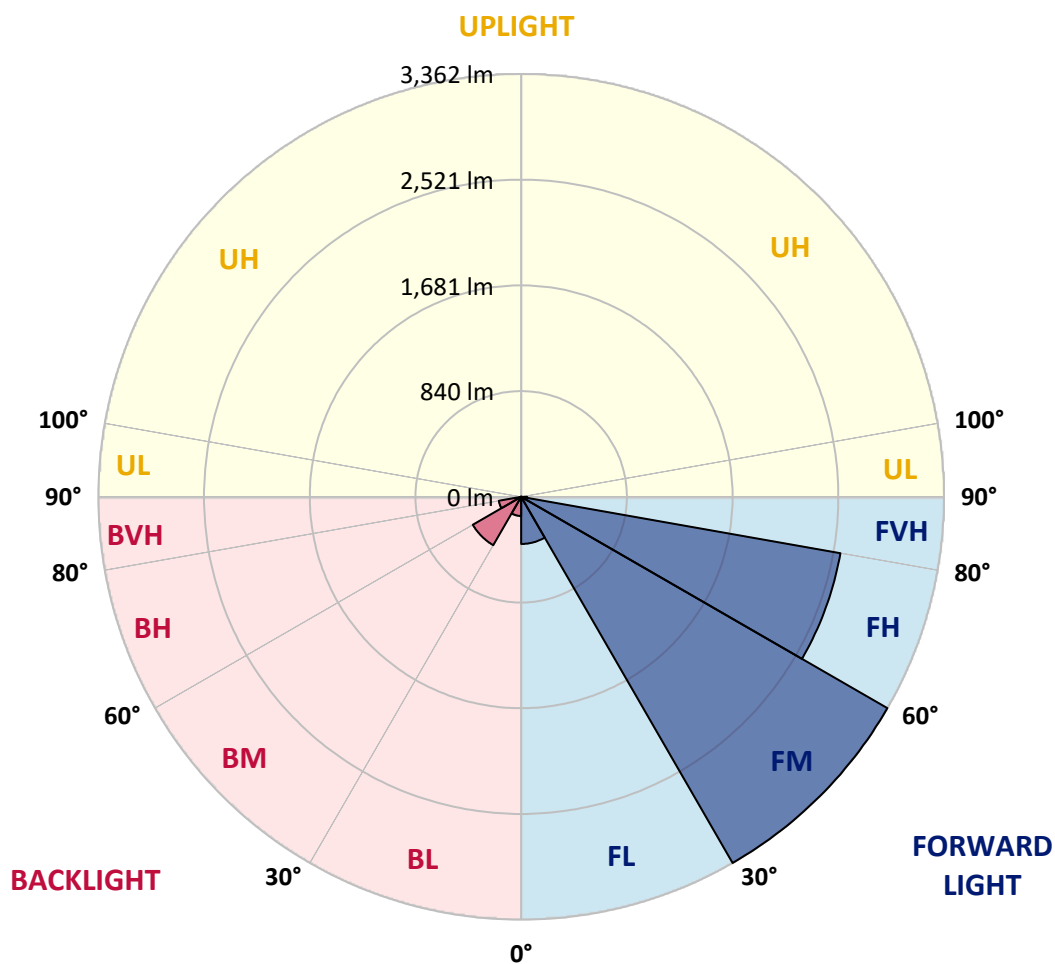
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.9	5.2			
FM	(30°-60°)	3361.9	47.1			
FH	(60°-80°)	2577.5	36.1			G2/5000
FVH	(80°-90°)	46.6	0.7			G1/100
BL	(0°-30°)	152.6	2.1	B1/500		
BM	(30°-60°)	444.2	6.2	B1/1000		
BH	(60°-80°)	180.6	2.5	B1/500		G1/500
BVH	(80°-90°)	5.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7
2.5°	690.6	688.2	685.8	681.4	672.2	664.0	649.9	636.4	637.3	619.9	604.9
5°	736.6	734.2	733.7	732.2	728.4	719.2	703.7	683.3	681.9	650.9	617.5
7.5°	745.8	744.4	744.8	744.4	745.8	744.4	741.5	721.1	722.1	686.2	633.9
10°	756.0	752.6	755.5	757.9	760.3	762.8	761.3	754.5	756.0	720.6	655.7
12.5°	769.1	766.1	770.0	774.4	779.7	784.6	786.5	780.7	785.5	760.8	683.8
15°	782.1	779.7	785.5	793.3	803.4	811.2	814.1	812.2	815.1	802.0	715.3
17.5°	797.6	795.2	803.4	816.0	829.6	843.6	849.4	848.5	852.4	846.5	750.7
20°	817.5	815.1	826.7	844.6	865.9	883.3	895.0	891.6	895.5	895.0	796.7
22.5°	851.4	849.0	861.1	881.4	910.5	934.2	948.2	944.9	949.7	949.2	845.6
25°	904.7	902.7	917.7	938.1	964.2	998.1	1017.0	1012.2	1016.5	1016.0	911.0
27.5°	981.2	980.7	986.5	1006.4	1036.4	1076.1	1108.5	1101.8	1109.5	1111.0	989.9
30°	1093.5	1084.8	1078.5	1090.1	1122.1	1180.7	1228.2	1238.8	1248.0	1255.8	1118.7
32.5°	1282.9	1259.6	1239.3	1208.8	1222.8	1301.8	1393.8	1447.1	1451.4	1491.6	1312.4
35°	1535.7	1511.5	1462.1	1407.8	1383.1	1458.2	1620.4	1750.2	1763.8	1849.5	1596.2
37.5°	1807.9	1795.3	1724.6	1657.7	1615.6	1674.7	1895.5	2164.3	2159.9	2270.8	1922.2
40°	2153.2	2145.4	2071.3	1961.4	1869.9	1926.5	2224.4	2585.1	2644.7	2692.7	2292.6
42.5°	2417.1	2394.3	2354.1	2311.0	2198.2	2202.6	2569.2	3010.4	3047.6	3120.3	2654.9
45°	2579.8	2569.2	2594.8	2621.5	2569.7	2528.5	2953.7	3438.5	3465.1	3563.9	3010.4
47.5°	2721.2	2720.3	2754.2	2860.2	2886.4	2913.0	3382.8	3855.9	3900.5	4008.0	3334.8
50°	2797.3	2805.5	2895.6	3046.2	3156.6	3301.4	3845.8	4291.3	4311.7	4407.5	3647.7
52.5°	2748.8	2762.4	2944.5	3182.3	3370.2	3671.4	4304.9	4716.5	4740.2	4802.7	3918.4
55°	2563.4	2571.6	2836.0	3217.2	3555.2	4089.4	4763.5	5132.5	5158.2	5177.1	4194.5
57.5°	2214.7	2239.4	2595.3	3082.0	3685.5	4450.6	5236.6	5605.7	5636.2	5551.9	4426.4
60°	1891.6	1914.9	2274.2	2770.1	3647.7	4761.6	5689.0	6054.6	6060.9	5884.6	4498.1
62.5°	1500.3	1532.8	1887.3	2344.5	3400.2	4916.0	6004.7	6414.4	6427.0	6097.2	4377.0
65°	1104.2	1139.5	1439.8	1813.2	2912.5	4755.3	6134.5	6621.7	6625.1	6115.2	4092.8
66°	1011.2	1032.5	1272.7	1608.8	2654.4	4531.5	6084.6	6629.0	6635.8	6063.3	3930.5
67.5°	908.5	925.5	1112.4	1299.8	2196.7	4061.8	5796.0	6522.9	6534.5	5848.3	3676.7
70°	710.0	726.4	864.5	958.9	1508.1	2850.5	4949.0	5953.9	6000.4	5170.3	3124.2
72.5°	480.9	493.5	568.6	614.1	905.6	1587.0	3708.2	4936.9	5006.6	4001.2	2298.4
75°	291.1	296.9	311.9	343.4	452.8	761.8	2214.2	3424.4	3477.7	2540.1	1362.3
77.5°	212.1	210.2	215.0	214.5	225.2	297.8	1046.6	1852.9	1859.7	1123.6	574.9
80°	167.1	158.4	160.8	160.8	150.6	137.5	327.4	567.6	628.6	326.4	170.0
82.5°	133.2	126.9	128.3	125.4	110.9	91.5	102.7	147.7	147.7	97.3	58.1
85°	95.4	89.1	92.5	93.5	70.7	66.8	59.1	66.3	66.8	52.3	44.6
87.5°	47.5	47.9	51.3	56.7	46.5	37.8	31.5	32.0	32.9	29.1	25.7
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°	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7	594.7
2.5°	596.6	589.4	575.8	565.2	552.1	542.9	534.7	527.4	525.9	523.0	520.1
5°	601.5	587.4	561.8	538.0	514.3	494.5	477.0	462.0	454.3	444.6	443.6
7.5°	609.2	588.9	550.2	513.3	474.1	438.8	407.3	389.4	376.3	371.5	369.5
10°	622.3	594.2	541.4	482.8	421.8	376.3	351.6	335.6	329.8	328.8	328.8
12.5°	640.7	604.4	531.3	446.5	374.8	333.7	317.2	315.8	315.8	316.2	315.3
15°	662.5	618.0	515.8	406.8	335.1	309.5	305.6	304.6	304.1	304.6	305.1
17.5°	685.8	631.0	496.4	368.1	307.5	298.3	295.4	294.0	294.4	294.9	294.0
20°	715.8	648.0	470.2	331.3	294.9	288.2	284.8	283.8	283.8	284.3	284.3
22.5°	749.7	664.4	438.8	304.6	284.8	278.0	273.6	271.2	271.2	272.7	272.7
25°	792.3	683.3	405.4	284.8	273.1	266.4	259.6	256.2	257.2	258.1	257.2
27.5°	844.6	708.5	370.5	270.7	260.5	252.8	243.6	239.7	240.2	244.1	244.1
30°	933.2	745.8	339.0	257.2	246.0	235.9	225.7	222.3	223.7	229.1	231.0
32.5°	1063.0	810.7	312.4	243.1	229.6	215.0	204.9	201.0	205.8	214.5	215.0
35°	1282.4	931.8	296.4	227.6	210.2	194.2	181.1	176.8	183.5	190.8	192.3
37.5°	1540.0	1102.7	301.7	213.6	192.3	174.3	160.3	155.5	157.9	165.1	165.1
40°	1829.2	1305.7	340.0	200.5	175.8	156.4	142.4	137.5	138.5	140.4	142.4
42.5°	2095.5	1517.3	405.8	188.4	161.3	140.0	128.3	123.0	123.5	124.0	124.0
45°	2389.5	1735.2	484.8	179.2	147.7	126.9	115.3	112.8	112.8	113.3	113.8
47.5°	2646.2	1937.7	571.0	173.9	135.1	114.3	105.1	104.1	104.1	105.1	105.6
50°	2893.6	2130.9	658.6	170.5	123.0	103.6	96.4	95.4	96.4	97.8	98.3
52.5°	3110.6	2316.4	756.9	169.0	112.4	94.9	88.6	87.2	87.7	89.1	89.6
55°	3317.4	2499.9	870.3	168.5	101.2	86.2	80.4	78.5	78.9	79.9	79.4
57.5°	3477.7	2588.1	938.1	155.0	92.0	78.0	72.2	68.8	69.7	69.7	70.7
60°	3450.6	2484.9	861.6	126.4	82.3	68.8	63.4	60.1	61.5	61.5	62.5
62.5°	3129.0	2074.7	614.6	100.7	72.2	60.5	55.7	53.3	54.2	54.7	54.2
65°	2634.5	1522.1	327.4	81.4	61.5	52.3	48.9	46.5	47.5	47.0	47.0
66°	2420.5	1314.4	248.4	76.0	57.1	49.9	46.5	44.6	44.6	44.1	43.6
67.5°	2098.9	1051.9	157.9	67.8	51.3	47.0	43.1	40.7	40.2	39.7	39.7
70°	1560.4	698.3	87.7	53.3	43.6	40.7	37.8	34.9	33.9	33.4	33.9
72.5°	1121.6	458.1	59.1	41.2	37.3	35.8	32.4	29.1	28.6	29.1	29.1
75°	659.6	248.0	43.6	30.5	30.5	30.5	27.6	24.2	24.2	26.6	26.6
77.5°	308.5	117.2	32.9	24.7	24.7	26.2	22.8	20.3	21.8	24.7	25.2
80°	117.2	53.3	22.8	19.4	19.4	21.8	17.9	17.9	18.9	19.9	18.4
82.5°	49.9	29.5	16.0	14.5	15.0	16.5	14.0	14.5	15.0	9.2	10.7
85°	39.2	17.4	8.7	8.2	8.7	9.7	7.7	8.7	7.3	2.4	4.8
87.5°	20.8	8.2	4.4	3.9	3.4	3.4	2.9	3.9	3.4	1.5	1.5
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)