

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: P1461842

Luminaire Tested: USSL-70-8540-U-T4RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461842
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-8540-U-T4RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 70W 85CRI 4000k FIXTURE w/ TYPE IV 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: 6956.9 lumens
Efficiency: N/A
Efficacy: 95.3 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

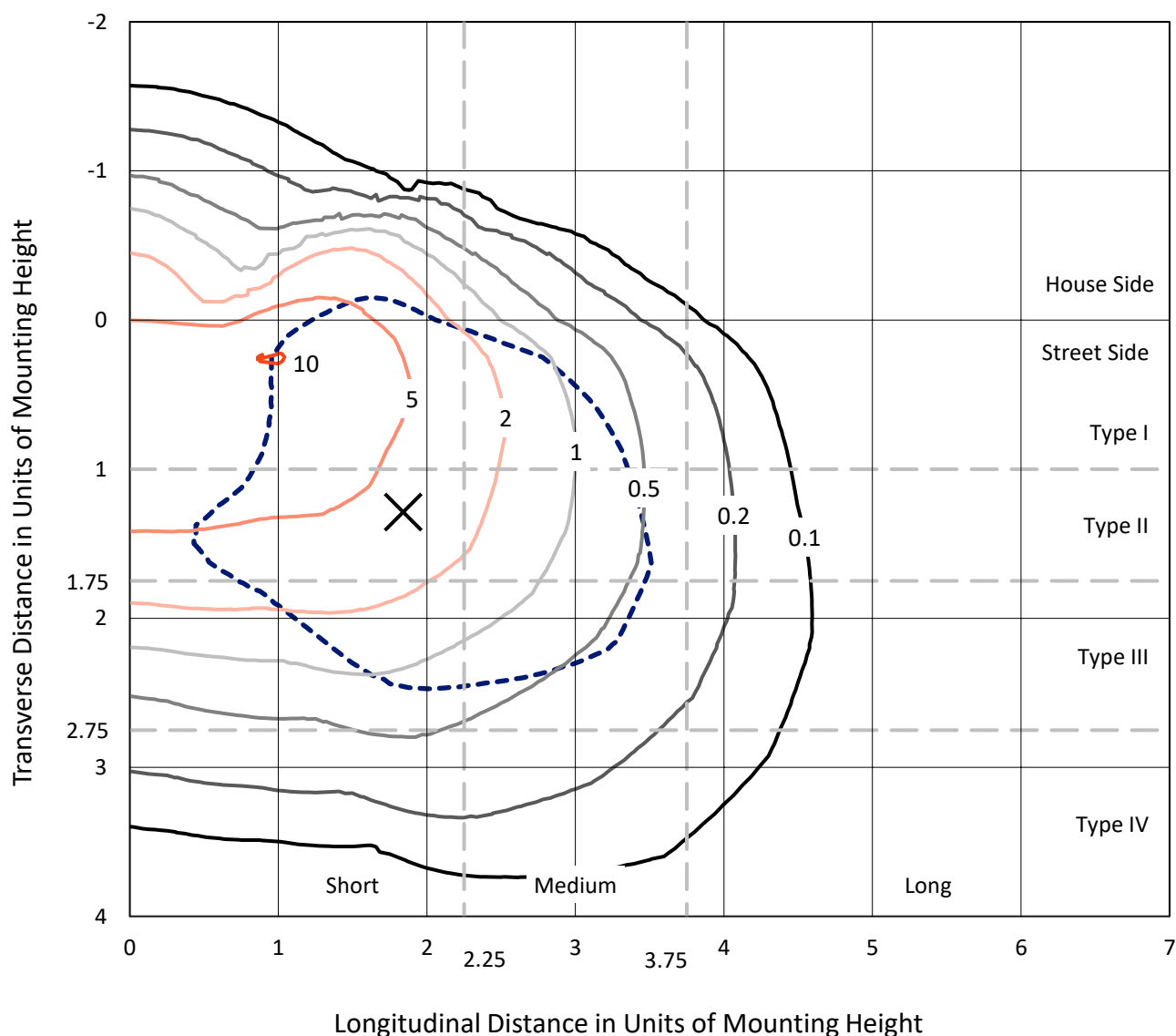
Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1461842

CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

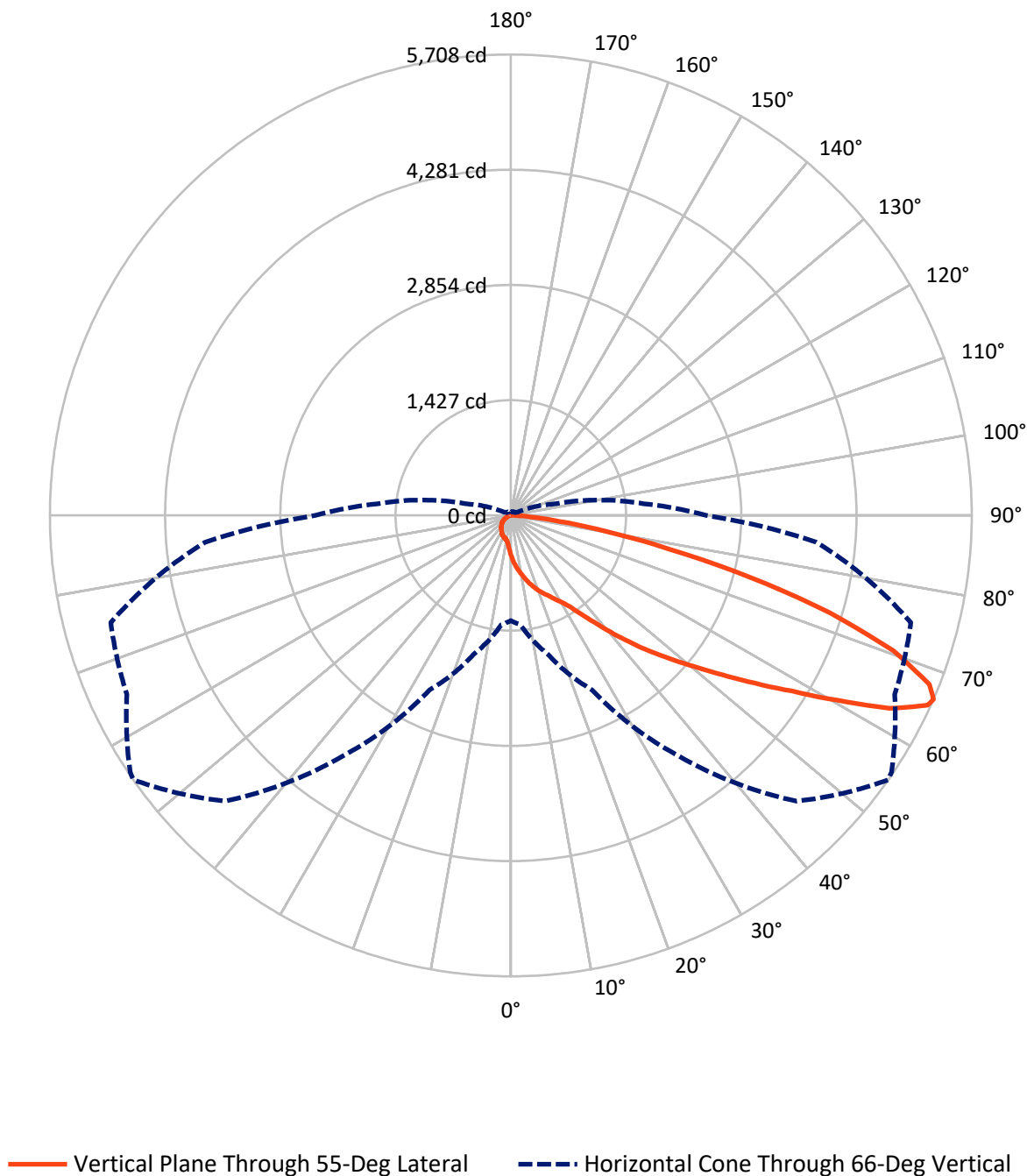


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1461842

CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1461842

CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

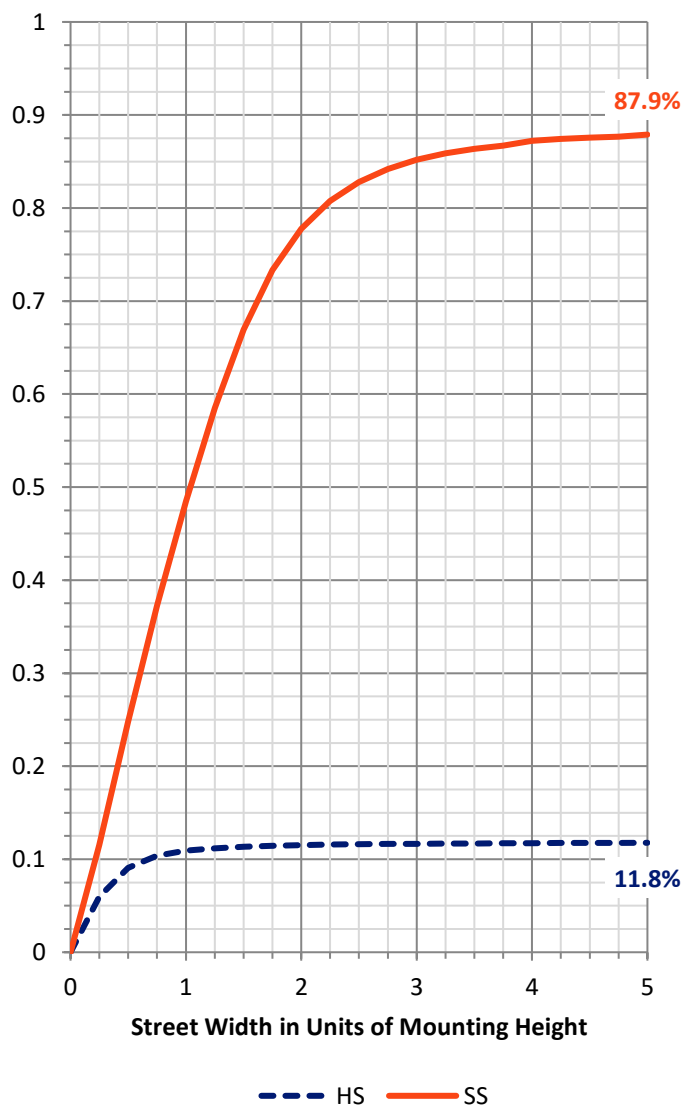
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.1	0.0	826.1
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	6130.9	0.0	6130.9
	% Fixture	88.1	0.0	88.1
Total	Lumens	6956.9	0.0	6956.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	0.7
10°-20°	166.8	2.4
20°-30°	309.2	4.4
30°-40°	537.6	7.7
40°-50°	1039.7	14.9
50°-60°	1779.0	25.6
60°-70°	2018.1	29.0
70°-80°	963.5	13.9
80°-90°	93.4	1.3
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°	6956.9	100.0
0°-180°	6956.9	100.0

Coefficient of Utilization



REPORT NUMBER: P1461842

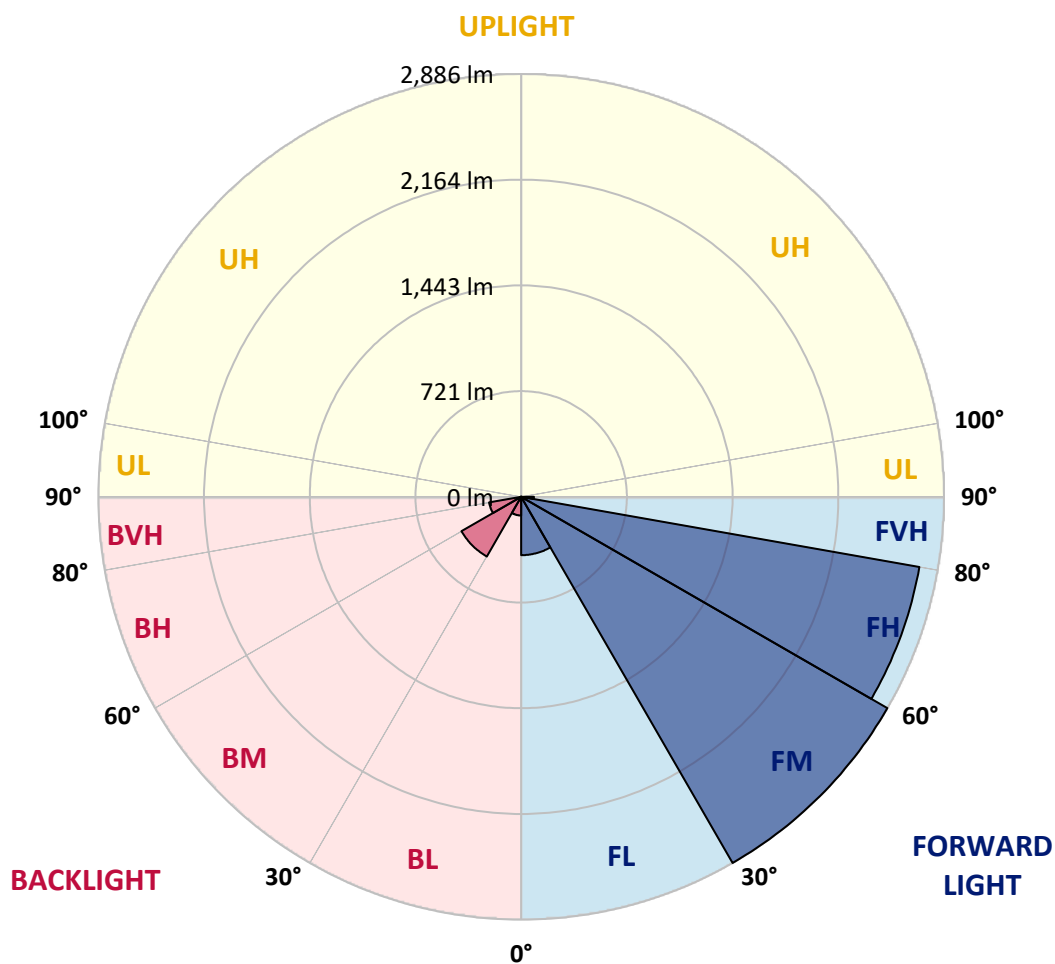
CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.2	5.7			
FM	(30°-60°)	2885.7	41.5			
FH	(60°-80°)	2759.5	39.7			G2/5000
FVH	(80°-90°)	87.4	1.3			G1/100
BL	(0°-30°)	127.3	1.8	B1/500		
BM	(30°-60°)	470.6	6.8	B1/1000		
BH	(60°-80°)	222.2	3.2	B1/500		G1/500
BVH	(80°-90°)	6.0	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



REPORT NUMBER: P1461842

CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	602.0	608.7	603.4	598.1	591.3	577.3	565.7	562.8	548.7	529.9	509.0
5°	700.7	702.1	696.3	683.2	672.1	647.4	625.2	623.2	595.2	558.9	520.2
7.5°	787.3	787.8	778.1	766.5	745.2	719.1	685.7	679.4	639.7	590.3	531.8
10°	868.1	867.1	860.3	846.8	822.1	785.3	744.2	739.9	687.6	623.2	547.3
12.5°	927.1	925.2	922.8	908.7	888.9	855.5	807.6	800.3	741.3	658.1	562.8
15°	967.8	965.8	965.4	959.1	944.5	921.8	873.4	868.1	799.4	703.6	582.1
17.5°	994.4	994.4	995.4	993.4	986.6	969.7	934.9	932.0	864.2	748.1	605.8
20°	1024.4	1022.9	1026.3	1027.3	1023.4	1015.2	996.8	992.4	929.5	807.1	632.9
22.5°	1063.6	1062.1	1063.6	1066.0	1066.0	1060.7	1051.0	1048.6	1005.5	875.8	667.3
25°	1111.5	1110.0	1111.5	1113.9	1114.4	1117.3	1107.1	1107.6	1077.6	949.4	709.4
27.5°	1171.5	1171.5	1170.0	1171.0	1175.8	1179.7	1177.8	1176.8	1149.2	1039.9	758.2
30°	1241.6	1239.2	1241.6	1239.7	1243.1	1246.0	1246.5	1248.4	1233.4	1133.7	827.4
32.5°	1313.7	1313.3	1323.9	1328.3	1329.7	1341.3	1348.6	1355.4	1350.0	1262.0	925.7
35°	1409.1	1407.1	1417.8	1432.3	1445.4	1463.8	1502.5	1496.2	1526.7	1487.9	1088.7
37.5°	1527.6	1523.8	1537.8	1556.7	1579.4	1615.7	1677.6	1680.0	1759.9	1806.3	1386.3
40°	1696.5	1690.2	1692.6	1737.1	1763.8	1805.9	1895.9	1899.7	2048.3	2171.2	1743.0
42.5°	1863.9	1859.6	1870.7	1878.4	1908.9	2006.7	2132.0	2133.4	2355.6	2544.8	2148.0
45°	2052.6	2049.3	2048.3	2050.2	2058.0	2184.7	2386.5	2404.4	2657.0	2923.6	2569.9
47.5°	2256.8	2242.8	2248.6	2244.3	2248.6	2383.6	2648.3	2653.6	2975.9	3279.3	2975.9
50°	2437.8	2437.3	2446.5	2455.7	2470.2	2640.1	2940.6	2979.3	3261.9	3631.1	3371.2
52.5°	2581.0	2580.6	2637.7	2675.4	2716.0	2939.6	3274.9	3302.5	3590.4	3999.3	3779.6
55°	2624.1	2637.2	2780.9	2918.8	3018.0	3304.5	3665.4	3676.6	3932.0	4413.0	4167.2
57.5°	2535.6	2561.7	2809.0	3075.6	3361.5	3780.6	4103.8	4090.8	4318.7	4882.4	4462.4
60°	2301.4	2335.7	2692.8	3109.0	3643.2	4318.7	4645.3	4639.0	4793.8	5286.9	4538.4
62.5°	1925.9	1977.2	2403.9	2934.3	3801.4	4793.4	5261.3	5234.7	5175.6	5439.4	4357.4
65°	1481.2	1522.8	1973.3	2558.8	3726.4	5031.4	5669.2	5654.7	5292.2	5254.0	3986.7
66°	1302.6	1358.7	1782.1	2385.1	3645.1	5004.3	5707.9	5686.1	5246.3	5128.2	3799.5
67.5°	1081.0	1141.0	1532.5	2108.3	3469.9	4810.3	5589.4	5597.1	5101.6	4863.5	3455.4
70°	837.6	890.8	1232.9	1717.3	3103.2	4137.7	5026.1	5069.7	4680.1	4222.4	2887.3
72.5°	556.0	603.4	827.9	1247.9	2583.9	3255.1	4135.8	4210.3	4109.2	3384.3	2229.7
75°	299.0	322.8	451.9	735.0	1852.3	2419.9	3060.6	3137.0	3086.7	2298.0	1397.0
77.5°	189.7	183.4	205.2	331.9	1050.5	1737.6	2009.1	2075.9	1894.9	1175.8	632.4
80°	136.9	125.3	128.7	170.8	438.9	1109.5	1179.2	1151.6	918.4	413.2	194.0
82.5°	95.8	90.5	88.1	102.6	162.6	572.0	609.2	572.9	323.2	129.7	63.4
85°	62.4	58.1	56.6	61.9	70.6	249.2	243.9	233.2	118.1	58.1	35.8
87.5°	32.4	32.4	32.4	35.8	36.3	85.6	73.6	71.1	39.2	23.2	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1461842

CATALOG NUMBER: USSL-70-8540-U-T4RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	498.9	488.2	469.9	448.6	429.7	416.6	403.1	393.4	388.6	386.6	386.1
5°	499.4	478.1	437.9	401.6	373.1	357.1	345.0	336.3	332.4	329.5	330.0
7.5°	500.8	468.9	409.4	363.9	333.9	320.3	314.5	313.1	313.6	314.0	313.1
10°	502.8	460.2	382.8	333.9	311.6	304.8	305.3	307.8	308.7	309.7	309.2
12.5°	507.6	451.5	360.0	312.1	299.5	298.6	299.5	301.9	303.4	304.4	304.8
15°	513.4	444.7	338.7	298.1	291.8	291.8	292.3	294.7	296.6	298.1	298.1
17.5°	521.1	437.4	319.4	287.9	285.0	284.0	284.0	286.5	287.9	289.8	289.4
20°	531.8	430.7	302.4	279.7	276.3	275.3	275.3	276.8	279.2	280.7	279.7
22.5°	547.3	426.3	288.4	271.9	267.6	265.7	265.2	266.6	268.6	271.0	271.5
25°	567.1	423.4	276.3	261.8	256.9	255.0	254.0	255.0	257.4	260.3	260.3
27.5°	593.2	425.8	265.2	251.6	244.8	241.5	240.5	241.9	245.8	249.7	249.7
30°	630.5	436.0	256.0	240.0	230.8	225.5	223.1	225.0	230.8	237.1	238.1
32.5°	685.2	457.3	250.7	230.8	218.7	209.5	203.2	206.1	213.4	222.1	223.1
35°	794.1	504.7	247.3	222.6	206.1	194.0	185.8	184.8	195.0	205.2	208.6
37.5°	1012.8	636.3	247.3	213.4	195.0	179.5	167.4	165.0	174.7	187.3	189.7
40°	1301.2	847.3	287.4	205.2	184.4	165.5	150.0	146.6	152.9	166.5	169.4
42.5°	1627.3	1112.0	381.3	199.8	173.7	152.4	135.5	131.1	136.0	145.2	147.6
45°	2003.8	1417.8	542.4	204.7	163.6	138.9	121.9	116.6	120.5	124.4	125.3
47.5°	2365.7	1733.3	763.6	224.0	153.9	126.3	109.4	106.0	106.5	106.9	106.5
50°	2721.4	2056.5	1035.5	266.6	142.7	114.7	99.7	94.8	94.4	92.9	92.4
52.5°	3077.0	2390.9	1321.5	313.1	131.6	104.0	91.0	85.6	83.2	81.8	82.7
55°	3409.5	2718.0	1589.1	329.5	119.5	94.4	82.7	76.5	73.6	71.6	72.1
57.5°	3570.6	2903.8	1704.2	298.1	106.5	85.6	75.0	68.2	65.3	63.9	63.9
60°	3506.2	2818.1	1529.6	213.4	94.4	76.5	67.3	61.0	58.6	57.1	57.1
62.5°	3150.1	2417.0	1127.0	141.8	81.3	67.3	60.0	55.2	52.7	51.8	51.8
65°	2644.4	1886.2	676.5	102.6	69.2	60.0	55.2	50.3	47.9	46.0	46.0
66°	2416.0	1655.4	536.1	93.4	64.8	57.1	53.2	48.9	45.5	43.5	43.5
67.5°	2055.5	1339.4	346.5	81.8	58.6	53.7	50.3	46.0	42.6	39.7	39.7
70°	1561.0	909.7	156.3	64.8	50.3	48.9	45.0	39.7	37.3	34.8	34.4
72.5°	1125.0	584.0	78.9	50.8	42.6	43.1	37.3	34.4	31.0	28.5	28.5
75°	715.2	316.0	49.8	39.2	36.3	36.8	31.0	28.1	25.6	23.7	24.2
77.5°	305.8	122.9	36.3	30.5	30.5	31.0	26.1	23.2	21.8	19.8	19.8
80°	96.3	52.7	26.1	23.2	24.7	25.6	21.8	20.3	17.9	14.0	14.5
82.5°	45.5	30.5	17.9	17.4	17.9	20.3	16.9	15.0	13.1	5.8	4.4
85°	29.5	15.5	9.7	9.2	10.2	12.1	11.6	8.2	5.8	1.9	1.9
87.5°	13.1	6.3	3.9	3.9	3.9	4.4	3.9	2.9	2.4	1.0	1.0
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)