

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: P1461893

Luminaire Tested: USSL-50-8540-U-T4RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461893
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T4RE
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7537.1 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

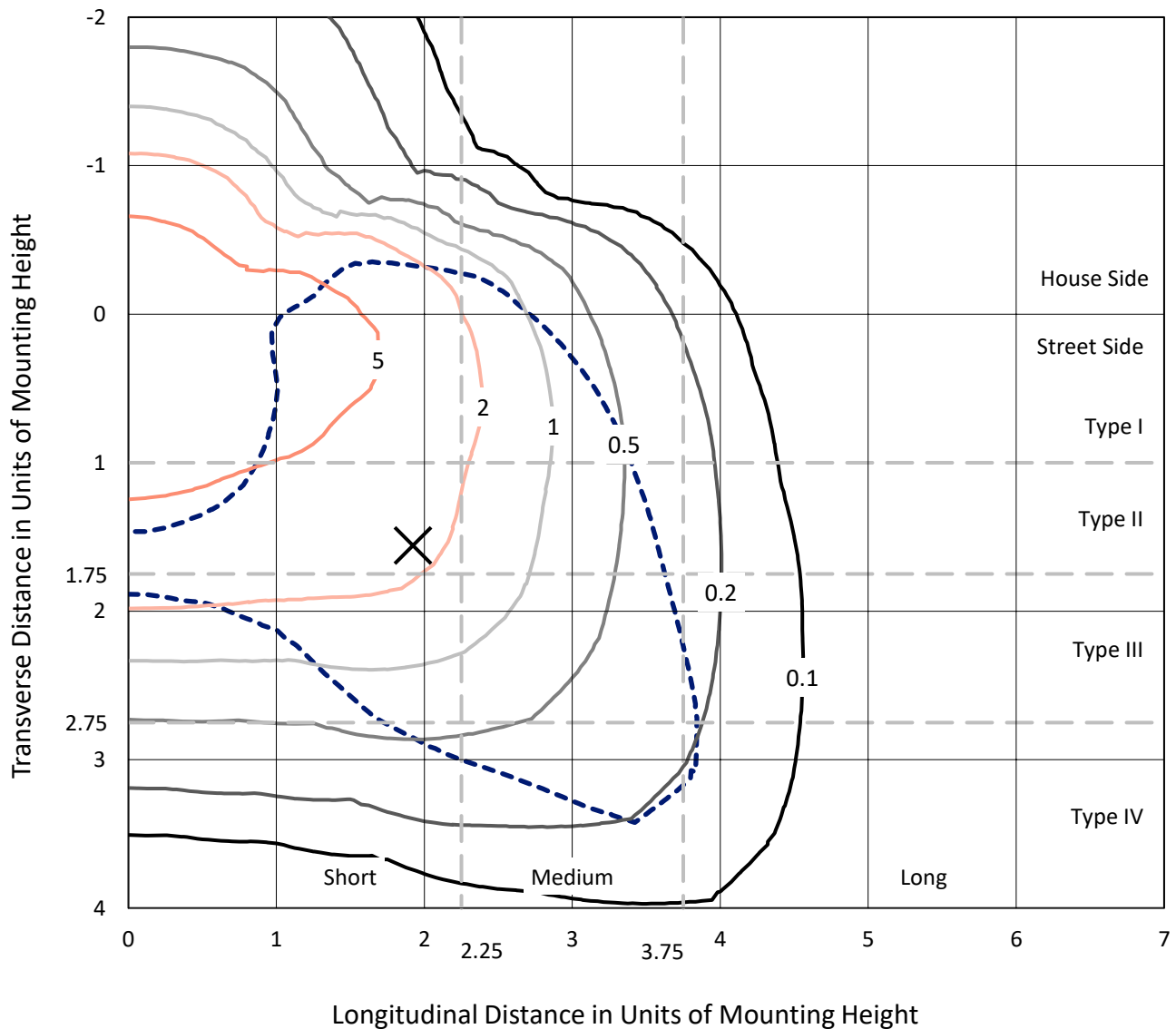
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1461893

CATALOG NUMBER: USSL-50-8540-U-T4RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

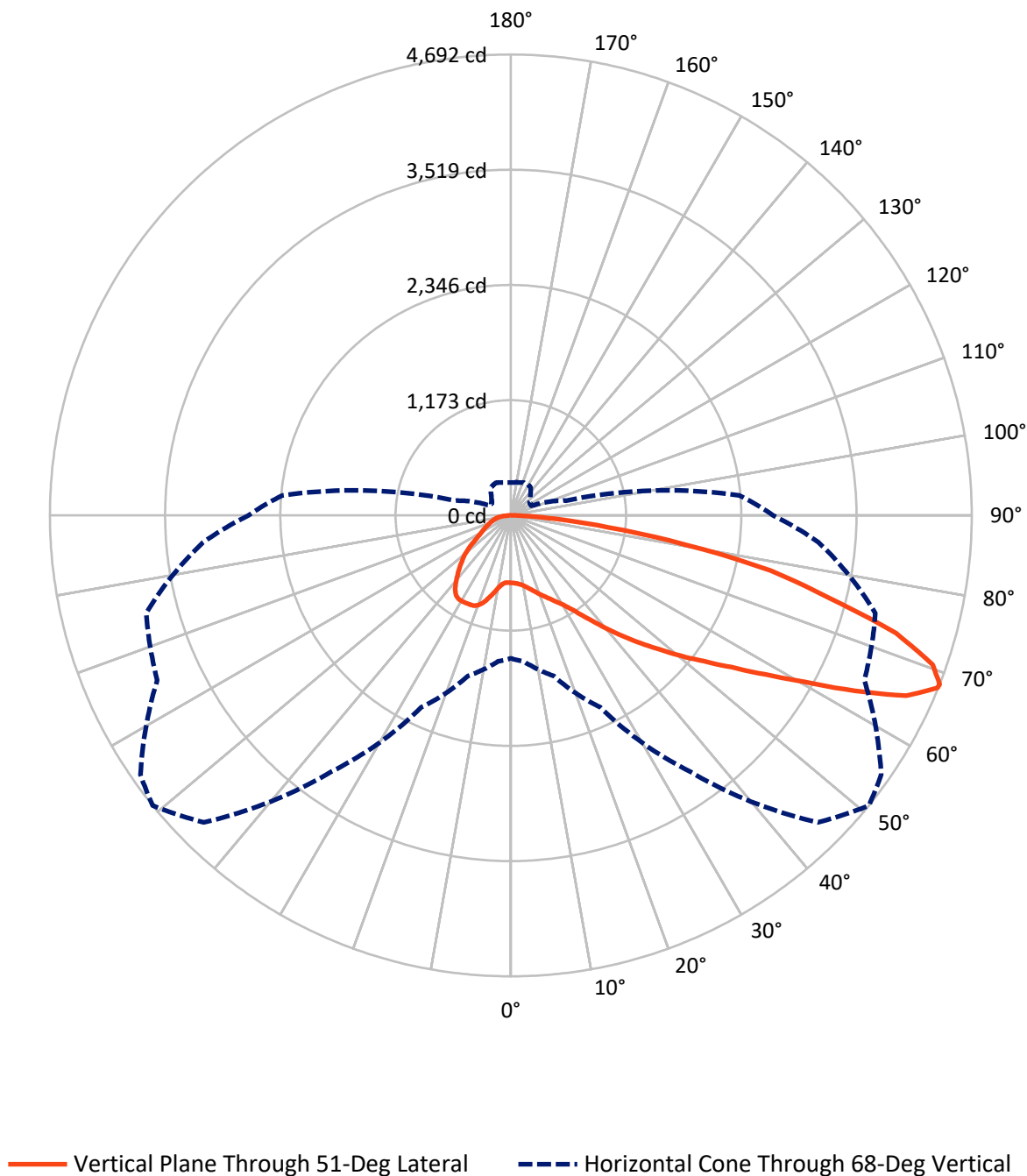


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P1461893

CATALOG NUMBER: USSL-50-8540-U-T4RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1461893

CATALOG NUMBER: USSL-50-8540-U-T4RE

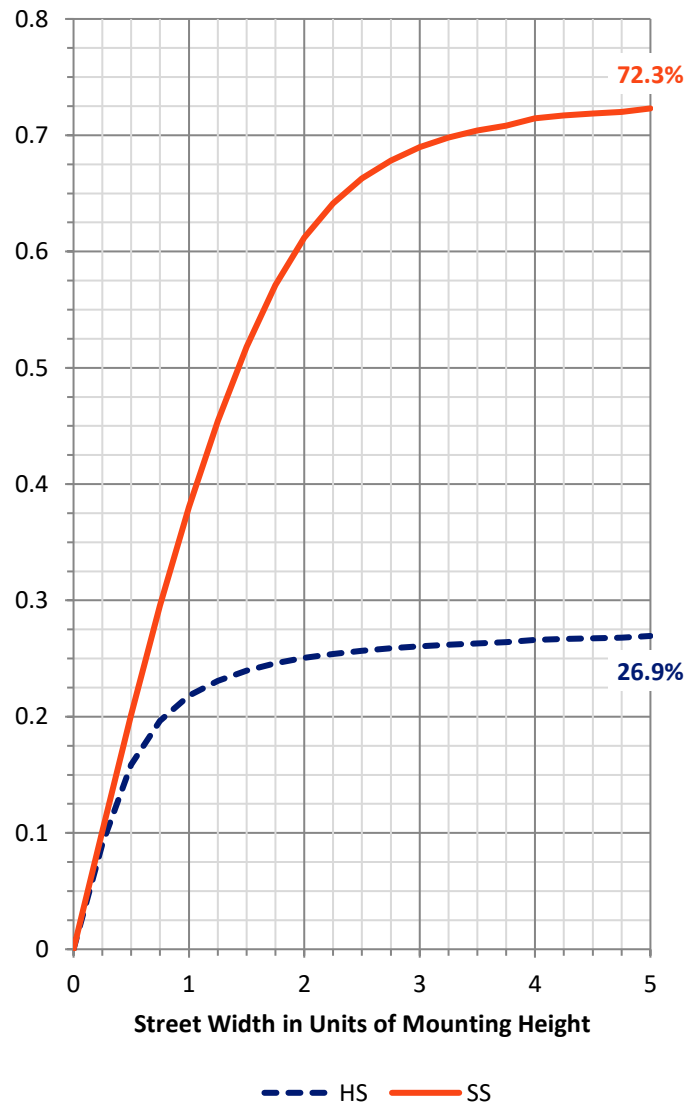
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.5	0.0	2060.5
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	5476.6	0.0	5476.6
	% Fixture	72.7	0.0	72.7
Total	Lumens	7537.1	0.0	7537.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	0.9
10°-20°	236.8	3.1
20°-30°	456.2	6.1
30°-40°	730.1	9.7
40°-50°	1141.5	15.1
50°-60°	1644.0	21.8
60°-70°	1968.3	26.1
70°-80°	1123.2	14.9
80°-90°	169.0	2.2
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°	7537.1	100.0
0°-180°	7537.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1461893

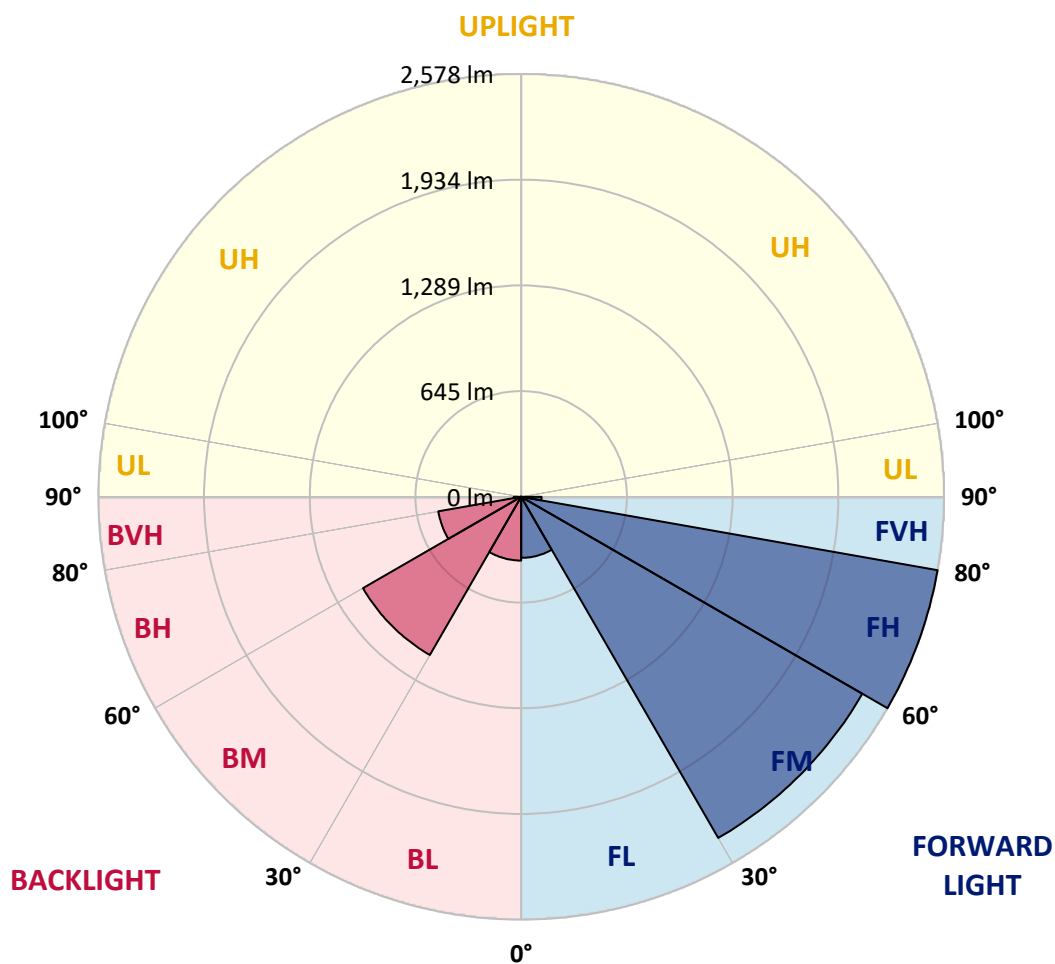
CATALOG NUMBER: USSL-50-8540-U-T4RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.2	4.9			
FM	(30°-60°)	2401.9	31.9			
FH	(60°-80°)	2578.4	34.2			G2/5000
FVH	(80°-90°)	124.1	1.6			G2/225
BL	(0°-30°)	388.7	5.2	B1/500		
BM	(30°-60°)	1113.7	14.8	B2/2500		
BH	(60°-80°)	513.1	6.8	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P1461893

CATALOG NUMBER: USSL-50-8540-U-T4RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	693.8	693.4	692.0	694.1	692.0	691.7	689.9	691.0	688.1	688.5	688.5
5°	706.0	705.3	705.0	703.9	701.5	701.1	697.6	699.4	696.9	695.2	693.1
7.5°	727.1	725.7	723.3	720.8	716.6	712.0	709.2	711.0	707.8	705.7	702.9
10°	759.8	758.4	754.1	749.6	742.6	733.8	727.8	726.8	723.3	720.1	716.9
12.5°	796.6	795.2	792.4	787.2	775.2	762.9	753.8	751.3	742.9	738.3	737.3
15°	830.3	827.9	827.9	820.9	811.0	796.6	785.4	781.5	767.1	762.6	762.2
17.5°	856.7	854.2	853.9	851.8	842.3	829.3	819.5	815.6	801.9	793.8	795.2
20°	888.3	885.8	885.1	883.7	878.1	866.1	859.5	856.3	839.5	828.6	834.2
22.5°	933.9	932.2	929.0	922.7	914.9	907.6	899.1	898.1	884.4	875.3	886.5
25°	987.6	983.4	982.0	971.8	962.0	951.5	944.4	945.8	933.2	925.5	940.2
27.5°	1054.7	1049.8	1045.2	1035.0	1016.4	1006.2	998.2	999.6	987.3	986.9	1015.0
30°	1130.2	1128.8	1120.3	1105.6	1082.4	1069.8	1057.5	1060.3	1054.0	1058.2	1105.2
32.5°	1215.5	1215.8	1205.0	1188.1	1164.2	1148.1	1138.9	1140.3	1144.6	1164.2	1220.8
35°	1324.3	1318.0	1318.4	1299.0	1263.9	1249.9	1246.4	1248.5	1263.2	1329.2	1398.8
37.5°	1444.4	1439.1	1439.1	1424.7	1391.0	1367.2	1374.2	1380.1	1431.1	1554.3	1628.0
40°	1573.6	1566.2	1578.2	1573.2	1533.9	1525.8	1522.0	1543.1	1635.7	1805.7	1905.7
42.5°	1669.8	1670.9	1677.9	1685.2	1665.2	1675.4	1684.9	1709.1	1844.6	2081.6	2182.4
45°	1760.4	1761.1	1767.1	1778.3	1786.0	1814.1	1856.6	1891.3	2076.4	2322.8	2430.3
47.5°	1857.3	1853.8	1863.6	1891.3	1902.2	1975.2	2038.1	2098.8	2281.8	2562.3	2662.7
50°	1961.2	1961.6	1972.1	2008.6	2042.7	2154.7	2249.1	2316.2	2505.8	2801.7	2875.5
52.5°	2117.1	2103.7	2113.9	2140.6	2196.4	2347.4	2467.1	2545.1	2730.1	3028.5	3107.5
55°	2291.2	2293.7	2308.8	2327.0	2403.6	2593.2	2726.2	2815.1	2974.1	3302.4	3377.9
57.5°	2458.4	2445.4	2487.1	2546.1	2634.6	2899.3	3054.9	3124.4	3239.9	3630.3	3676.6
60°	2501.2	2504.3	2576.7	2728.3	2921.8	3291.8	3440.4	3475.1	3579.7	4044.9	3929.1
62.5°	2308.8	2318.3	2483.6	2786.3	3185.1	3745.8	3933.3	3935.4	3950.1	4241.9	3942.4
65°	1884.7	1904.3	2127.3	2578.1	3303.1	4191.3	4424.8	4407.6	4108.5	4168.2	3698.8
67.5°	1525.8	1551.1	1756.2	2242.4	3212.9	4416.4	4686.7	4599.3	4016.5	3924.2	3250.1
68°	1455.6	1490.7	1692.3	2154.7	3184.4	4419.9	4692.4	4602.8	3971.6	3842.4	3143.3
70°	1211.3	1248.5	1441.2	1916.3	3067.5	4300.5	4556.5	4482.8	3729.3	3453.4	2720.3
72.5°	759.8	782.2	1012.2	1526.2	2795.4	3863.1	4100.1	4081.8	3338.5	2823.5	2062.0
75°	326.2	337.0	502.4	920.9	2154.3	3262.4	3331.2	3343.5	2647.2	1998.4	1306.1
77.5°	213.8	214.2	232.4	407.3	1304.0	2617.4	2706.2	2501.9	1775.1	1064.5	611.3
80°	179.8	179.1	178.0	195.2	577.2	1759.3	1803.6	1600.6	903.0	431.8	210.3
82.5°	152.0	148.5	141.1	146.4	225.1	898.8	998.9	878.1	414.6	155.9	94.4
85°	106.7	102.9	93.0	100.8	113.8	391.1	445.2	386.9	147.1	90.9	55.8
87.5°	46.0	38.6	40.0	47.4	50.9	116.6	122.2	86.0	50.2	37.6	22.5
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: P1461893

CATALOG NUMBER: USSL-50-8540-U-T4RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
2.5°	687.1	687.1	686.0	685.7	684.3	684.3	682.5	682.5	682.9	681.5	681.8
5°	692.4	691.3	690.2	688.5	687.4	687.4	688.5	689.9	691.0	691.3	691.0
7.5°	701.1	701.1	700.4	700.1	702.9	708.5	715.5	719.4	727.5	729.9	732.7
10°	716.9	716.6	718.3	725.4	737.3	752.0	765.0	776.3	788.2	790.0	792.8
12.5°	735.2	739.4	748.9	766.8	790.7	810.3	829.6	847.5	858.1	865.1	863.3
15°	764.0	771.0	792.4	824.0	847.9	874.9	896.0	911.4	922.3	926.2	929.7
17.5°	801.9	814.2	847.5	884.1	911.8	932.2	947.2	951.5	956.4	958.5	959.9
20°	847.5	871.4	913.2	945.8	964.5	970.1	972.9	971.5	973.9	977.1	978.8
22.5°	904.4	936.0	982.7	998.9	995.0	986.6	985.2	987.3	993.2	995.0	997.8
25°	972.2	1002.7	1045.6	1033.3	1003.1	992.2	1001.7	1002.7	1003.4	1002.7	1005.2
27.5°	1051.2	1081.7	1095.1	1039.2	999.6	1004.5	1012.6	1001.3	987.3	977.8	980.6
30°	1137.9	1160.0	1126.3	1029.4	1001.0	1011.1	998.5	962.0	939.2	926.5	928.3
32.5°	1249.5	1248.5	1140.0	1024.5	1010.1	994.6	947.2	905.8	879.1	864.0	864.7
35°	1391.4	1350.3	1150.9	1038.5	1008.0	950.4	894.9	850.3	829.3	817.0	818.4
37.5°	1580.3	1466.2	1175.1	1058.9	972.9	894.6	840.5	813.8	802.9	794.2	796.3
40°	1827.1	1625.9	1247.4	1063.5	907.6	830.3	808.6	795.2	784.7	774.9	778.4
42.5°	2036.7	1789.2	1388.6	1031.2	826.1	779.8	787.5	777.3	761.2	743.6	745.4
45°	2245.6	1934.5	1555.3	960.9	742.6	742.2	760.1	745.0	722.5	695.5	696.2
47.5°	2421.5	2077.1	1723.5	875.3	666.4	694.5	716.9	696.9	659.7	626.0	622.8
50°	2582.6	2238.9	1864.0	778.7	601.4	635.5	647.4	613.7	584.2	564.9	563.2
52.5°	2755.4	2431.3	1976.3	693.4	531.2	553.7	563.9	553.3	540.7	529.1	526.6
55°	2977.6	2682.4	2093.6	633.4	456.4	477.5	498.2	516.1	508.4	502.4	498.9
57.5°	3239.9	3001.8	2130.1	556.1	390.1	411.1	463.1	490.5	484.5	480.3	478.9
60°	3437.2	3230.8	1924.7	432.2	336.0	368.6	441.0	471.9	459.6	448.7	445.5
62.5°	3429.8	3171.4	1496.7	327.9	299.8	340.2	418.5	443.1	424.5	414.6	410.4
65°	3172.8	2893.4	1054.0	271.7	267.5	312.8	388.3	407.3	390.1	378.5	376.4
67.5°	2770.8	2465.0	654.4	235.9	239.4	284.4	356.4	374.3	353.9	343.4	344.1
68°	2670.1	2334.4	581.4	228.6	233.1	280.2	349.7	365.1	346.5	336.7	336.0
70°	2281.8	1928.2	384.1	208.2	213.8	260.2	324.8	336.0	320.5	312.5	310.7
72.5°	1685.6	1307.5	221.5	184.0	191.7	235.2	291.1	302.6	299.8	301.9	305.5
75°	1042.4	754.8	163.6	162.6	170.6	214.9	263.7	285.1	291.4	301.2	303.7
77.5°	497.5	364.1	135.2	140.4	150.6	189.2	239.8	273.5	274.2	275.6	277.4
80°	164.0	139.0	114.1	115.5	130.3	166.4	217.0	241.6	225.1	220.8	215.6
82.5°	86.7	89.5	92.0	93.0	108.5	137.3	170.3	178.7	164.3	115.5	114.1
85°	50.6	53.4	59.0	63.9	74.4	94.8	122.9	123.2	104.6	51.6	45.3
87.5°	16.9	20.4	20.0	23.9	28.1	37.9	52.0	53.7	43.2	17.9	10.2
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)