

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: P1503017

Luminaire Tested: PRV-P-50-8540-U-T3RE

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503017
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-50-8540-U-T3RE
Description: PREVAIL PETITE DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE III
ROADWAY ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (10) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5818.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

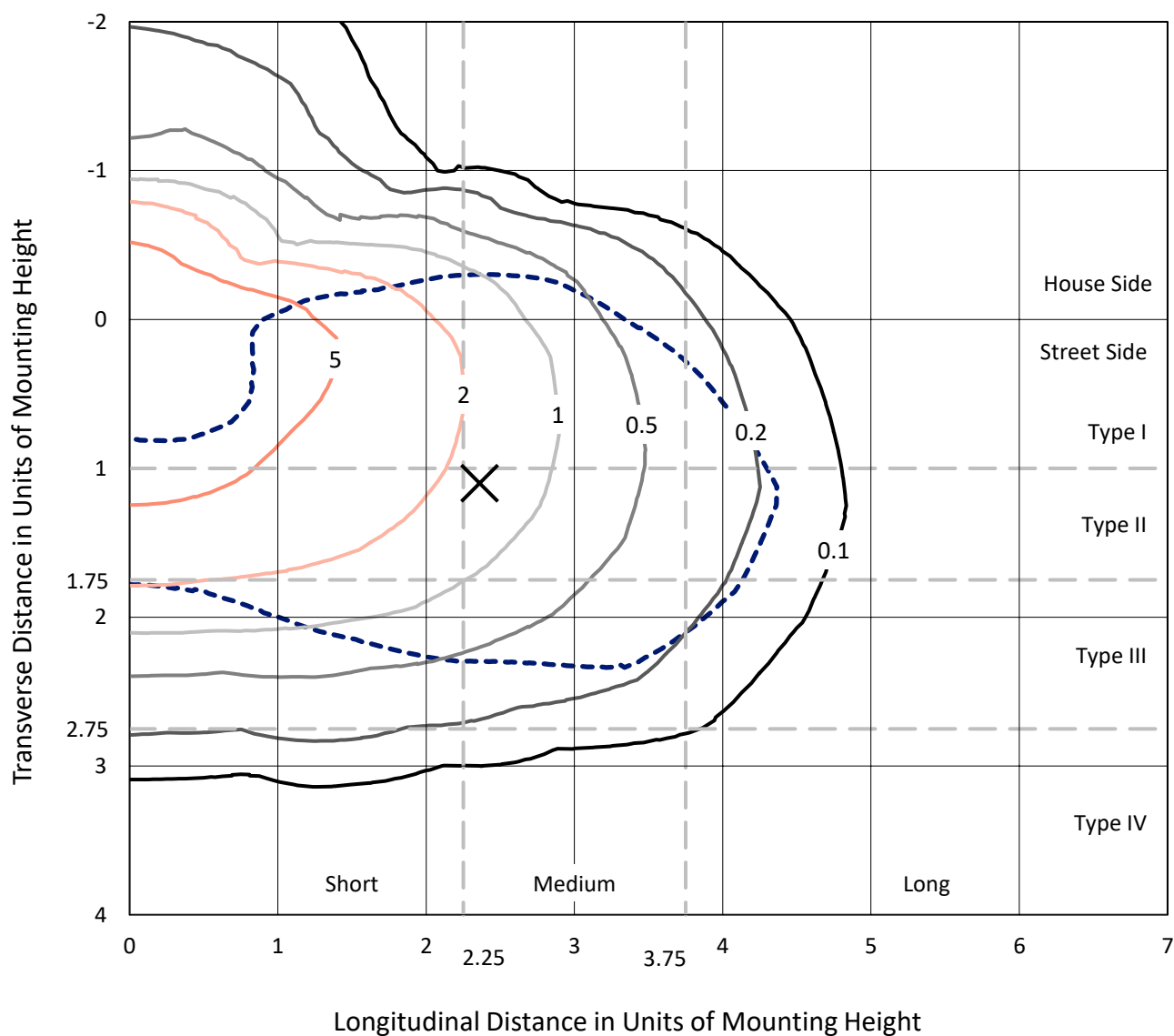
Input Watts (W): 52.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1503017

CATALOG NUMBER: PRV-P-50-8540-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

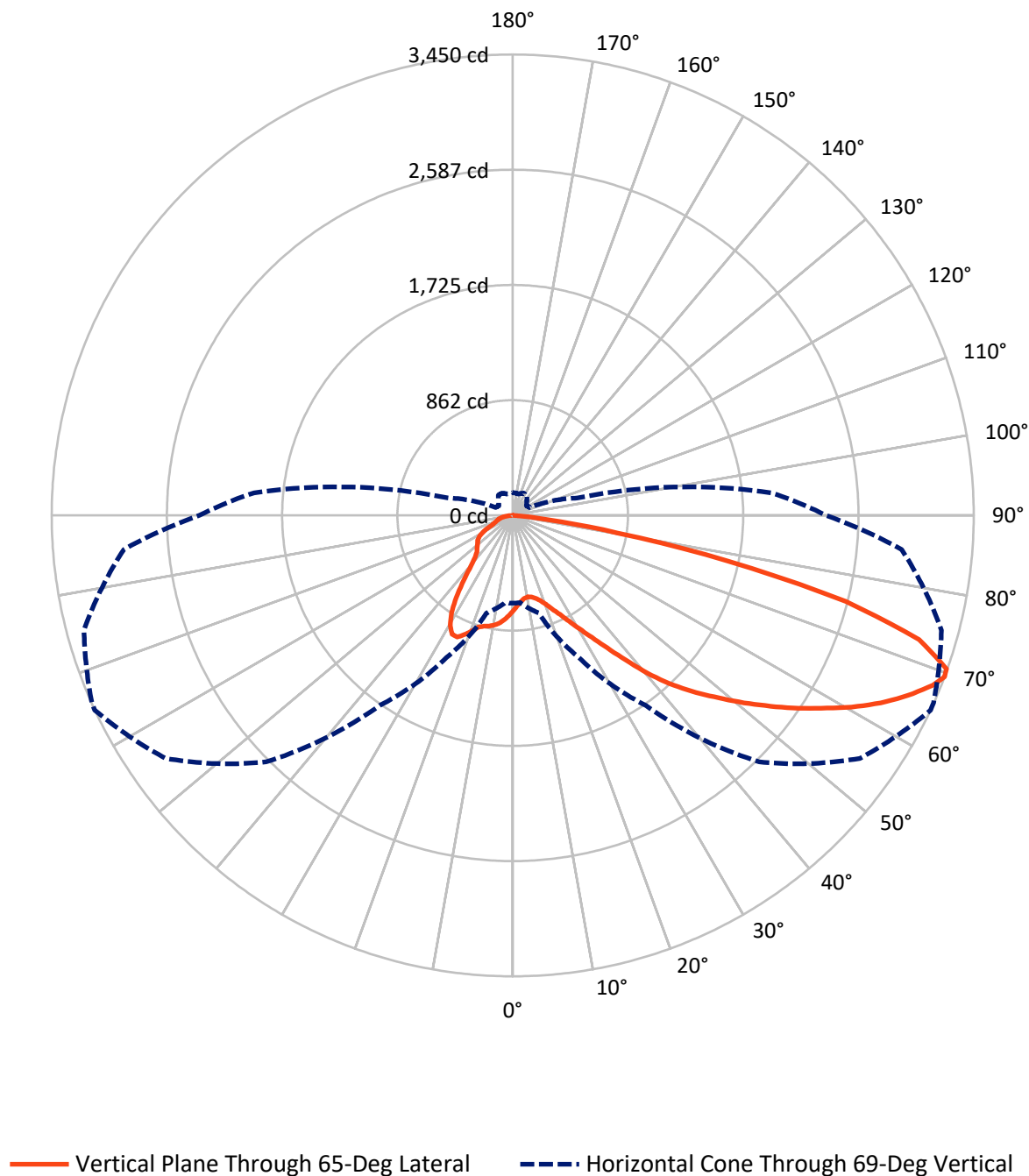


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type III - Medium - N/A

REPORT NUMBER: P1503017

CATALOG NUMBER: PRV-P-50-8540-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1503017

CATALOG NUMBER: PRV-P-50-8540-U-T3RE

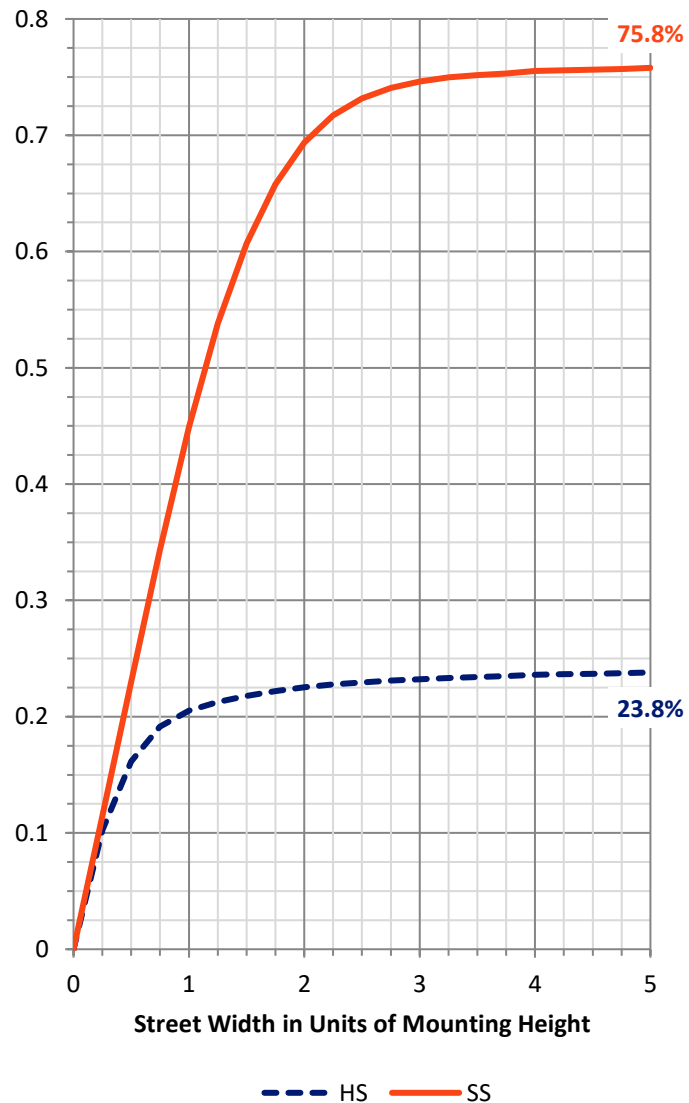
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.0	0.0	1397.0
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	4421.8	0.0	4421.8
	% Fixture	76.0	0.0	76.0
Total	Lumens	5818.8	0.0	5818.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.2
10°-20°	224.9	3.9
20°-30°	414.7	7.1
30°-40°	646.0	11.1
40°-50°	952.6	16.4
50°-60°	1265.5	21.7
60°-70°	1399.8	24.1
70°-80°	778.6	13.4
80°-90°	69.0	1.2
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°	5818.8	100.0
0°-180°	5818.8	100.0

Coefficient of Utilization



REPORT NUMBER: P1503017

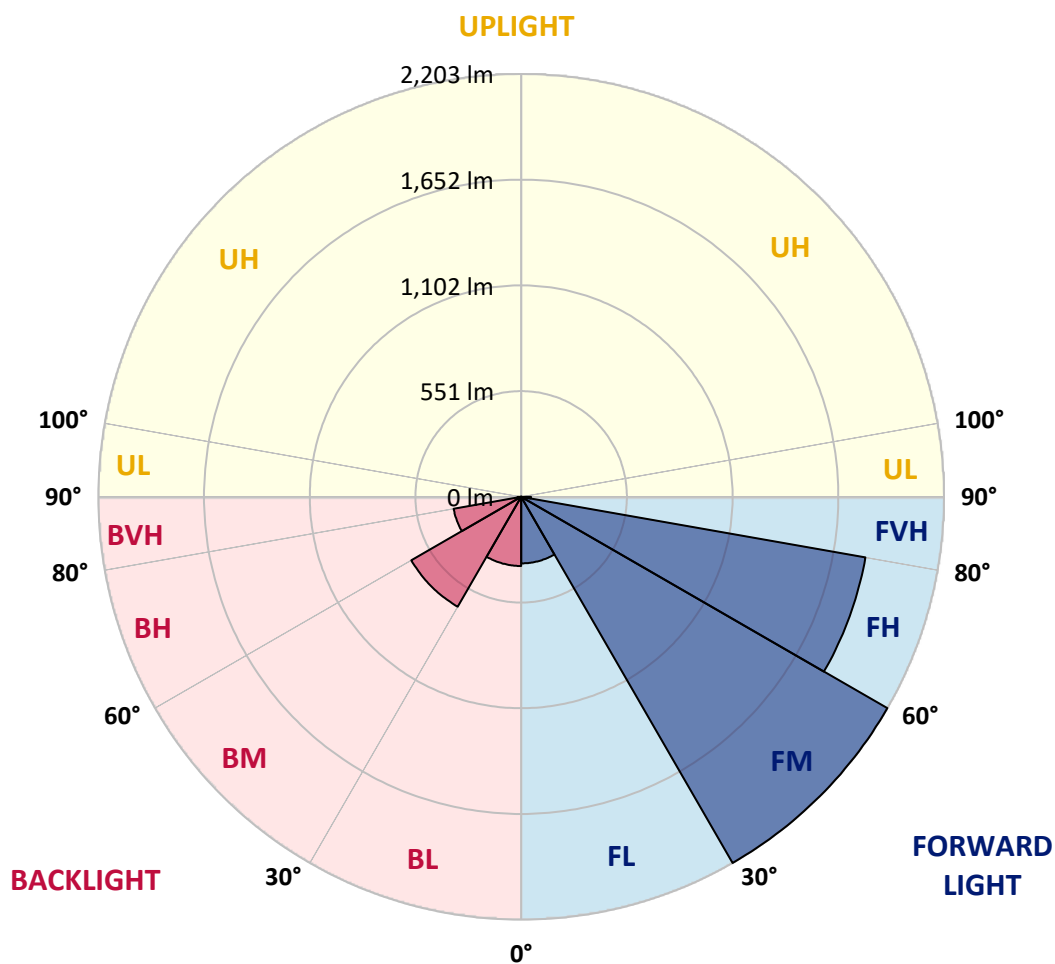
CATALOG NUMBER: PRV-P-50-8540-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.8	6.0			
FM	(30°-60°)	2203.1	37.9			
FH	(60°-80°)	1821.3	31.3			G2/5000
FVH	(80°-90°)	50.6	0.9			G1/100
BL	(0°-30°)	360.5	6.2	B1/500		
BM	(30°-60°)	661.0	11.4	B1/1000		
BH	(60°-80°)	357.1	6.1	B1/500		G1/500
BVH	(80°-90°)	18.4	0.3			G1/100
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 Medium



REPORT NUMBER: P1503017

CATALOG NUMBER: PRV-P-50-8540-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6
2.5°	631.9	628.1	633.1	639.3	649.3	654.3	665.5	675.5	678.0	689.2	704.1
5°	577.0	577.0	582.0	588.2	598.2	608.2	626.9	646.8	650.5	674.2	705.4
7.5°	573.3	572.0	574.5	577.0	580.8	587.0	601.9	626.9	630.6	666.7	711.6
10°	600.7	600.7	598.2	598.2	593.2	592.0	598.2	619.4	623.1	666.7	726.6
12.5°	646.8	646.8	643.1	636.8	625.6	615.7	611.9	625.6	628.1	674.2	752.7
15°	701.6	702.9	696.7	685.4	669.2	649.3	635.6	643.1	645.6	687.9	782.7
17.5°	765.2	767.7	757.7	744.0	719.1	692.9	671.7	670.5	670.5	712.9	823.8
20°	836.2	832.5	822.5	808.8	776.4	746.5	719.1	710.4	709.1	750.2	874.9
22.5°	919.7	921.0	899.8	873.6	843.7	807.6	775.2	762.7	762.7	798.9	937.2
25°	1025.7	1021.9	993.3	955.9	914.8	876.1	838.7	821.3	826.3	863.7	1018.2
27.5°	1136.6	1131.6	1095.5	1046.9	992.0	947.2	912.3	896.1	897.3	943.4	1106.7
30°	1252.5	1248.8	1202.6	1142.8	1079.3	1028.2	992.0	983.3	985.8	1044.4	1212.6
32.5°	1378.4	1365.9	1314.8	1252.5	1179.0	1120.4	1090.5	1088.0	1089.2	1160.3	1327.3
35°	1522.9	1504.2	1443.2	1373.4	1291.1	1232.5	1201.4	1216.3	1223.8	1321.0	1448.2
37.5°	1661.3	1646.3	1582.7	1506.7	1424.5	1357.2	1329.8	1370.9	1383.3	1486.8	1622.6
40°	1792.1	1784.6	1719.8	1635.1	1567.8	1495.5	1468.1	1552.8	1562.8	1676.2	1782.1
42.5°	1913.0	1905.5	1853.2	1777.2	1709.9	1622.6	1610.2	1719.8	1731.1	1858.2	1944.2
45°	1995.3	1992.8	1965.3	1910.5	1856.9	1777.2	1747.3	1878.1	1899.3	2023.9	2077.5
47.5°	2042.6	2042.6	2043.9	2030.2	2002.7	1924.2	1909.3	2028.9	2052.6	2171.0	2219.6
50°	2058.8	2057.6	2077.5	2111.2	2123.6	2077.5	2073.8	2194.7	2210.9	2331.7	2352.9
52.5°	2030.2	2035.1	2080.0	2152.3	2224.6	2220.8	2249.5	2364.2	2384.1	2481.3	2465.1
55°	1959.1	1969.1	2040.1	2168.5	2299.3	2352.9	2412.8	2544.9	2562.3	2638.3	2568.5
57.5°	1875.6	1873.1	1955.4	2144.8	2355.4	2490.0	2592.2	2721.8	2731.8	2785.4	2668.2
60°	1772.2	1779.7	1847.0	2071.3	2387.8	2624.6	2774.2	2912.5	2912.5	2932.4	2756.7
62.5°	1580.3	1598.9	1699.9	1960.4	2361.7	2721.8	2949.9	3090.7	3089.5	3072.0	2835.2
65°	1198.9	1217.6	1374.6	1763.5	2271.9	2786.6	3097.0	3250.2	3257.7	3206.6	2918.7
67.5°	848.7	852.4	973.3	1412.0	1981.6	2740.5	3182.9	3391.1	3386.1	3291.4	2952.4
69°	656.8	655.5	756.5	1172.7	1736.0	2608.4	3170.5	3449.6	3447.1	3321.3	2921.2
70°	545.9	539.6	620.6	1033.1	1519.2	2426.5	3087.0	3443.4	3443.4	3313.8	2856.4
72.5°	297.9	305.3	341.5	664.3	1000.7	1837.0	2703.1	3180.5	3204.1	3067.0	2431.4
75°	210.6	205.6	198.2	289.1	483.5	1064.3	2077.5	2574.8	2629.6	2507.5	1809.6
77.5°	190.7	184.4	157.0	139.6	179.5	401.3	1354.7	1646.3	1692.4	1752.2	1177.7
80°	167.0	164.5	130.9	102.2	115.9	118.4	549.6	792.6	845.0	874.9	513.5
82.5°	128.4	133.3	105.9	67.3	74.8	76.0	88.5	258.0	289.1	285.4	134.6
85°	54.8	61.1	59.8	34.9	38.6	41.1	39.9	47.4	57.3	43.6	31.2
87.5°	1.2	1.2	1.2	5.0	6.2	6.2	6.2	7.5	6.2	6.2	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

REPORT NUMBER: P1503017

CATALOG NUMBER: PRV-P-50-8540-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6
2.5°	711.6	719.1	734.0	746.5	760.2	764.0	772.7	772.7	781.4	783.9	783.9
5°	720.3	735.3	761.5	782.7	796.4	798.9	801.3	798.9	800.1	800.1	798.9
7.5°	734.0	756.5	790.1	811.3	815.1	803.8	797.6	792.6	795.1	796.4	795.1
10°	759.0	785.1	822.5	832.5	818.8	805.1	811.3	827.5	843.7	852.4	856.2
12.5°	791.4	822.5	857.4	846.2	828.8	837.5	872.4	897.3	914.8	922.2	927.2
15°	830.0	866.1	884.8	856.2	861.2	904.8	929.7	935.9	928.5	926.0	929.7
17.5°	874.9	911.0	906.0	873.6	923.5	948.4	932.2	909.8	888.6	882.4	884.8
20°	931.0	959.6	923.5	917.2	967.1	939.7	887.3	849.9	831.3	830.0	831.3
22.5°	992.0	1008.2	942.2	962.1	970.8	882.4	810.1	787.6	790.1	797.6	802.6
25°	1061.8	1058.1	963.4	1000.7	918.5	790.1	745.3	745.3	750.2	757.7	759.0
27.5°	1147.8	1112.9	1005.7	998.3	830.0	707.9	697.9	700.4	700.4	707.9	711.6
30°	1225.1	1161.5	1054.3	948.4	701.6	643.1	648.1	650.5	645.6	644.3	650.5
32.5°	1309.8	1206.4	1104.2	862.4	599.5	588.2	590.7	595.7	589.5	584.5	588.2
35°	1403.3	1247.5	1135.3	746.5	535.9	532.2	534.6	532.2	527.2	519.7	523.4
37.5°	1514.2	1309.8	1144.1	606.9	482.3	483.5	481.1	464.9	449.9	428.7	438.7
40°	1638.8	1415.7	1129.1	487.3	438.7	439.9	420.0	387.6	349.0	321.5	325.3
42.5°	1744.8	1521.7	1098.0	417.5	403.8	400.0	365.2	312.8	277.9	256.7	258.0
45°	1843.2	1630.1	1061.8	381.4	381.4	367.6	310.3	274.2	245.5	223.1	223.1
47.5°	1936.7	1732.3	1015.7	365.2	360.2	327.8	281.7	249.3	226.8	204.4	201.9
50°	2021.4	1824.5	954.6	347.7	339.0	290.4	259.2	230.6	218.1	194.4	191.9
52.5°	2097.5	1888.1	898.6	331.5	312.8	258.0	236.8	220.6	228.1	200.6	195.7
55°	2164.8	1918.0	868.6	321.5	270.4	221.8	220.6	228.1	246.8	215.6	206.9
57.5°	2223.3	1924.2	867.4	301.6	228.1	191.9	209.4	220.6	269.2	226.8	219.3
60°	2275.7	1924.2	913.5	270.4	189.4	175.7	201.9	206.9	233.1	216.8	216.8
62.5°	2334.2	1955.4	983.3	234.3	162.0	165.8	203.1	200.6	203.1	211.9	216.8
65°	2409.0	2032.6	926.0	174.5	144.6	159.5	195.7	198.2	194.4	199.4	206.9
67.5°	2419.0	2027.7	684.2	150.8	132.1	153.3	189.4	194.4	173.2	174.5	183.2
69°	2344.2	1941.7	501.0	140.8	125.9	148.3	185.7	183.2	165.8	169.5	169.5
70°	2250.7	1851.9	412.5	135.8	122.1	145.8	180.7	179.5	165.8	165.8	158.3
72.5°	1881.8	1489.3	224.3	120.9	113.4	137.1	170.7	162.0	174.5	152.0	139.6
75°	1390.8	1013.2	113.4	108.4	103.4	125.9	158.3	140.8	186.9	129.6	124.6
77.5°	923.5	563.3	94.7	96.0	91.0	112.2	135.8	118.4	133.3	94.7	88.5
80°	411.3	244.3	78.5	79.8	76.0	89.7	109.7	89.7	83.5	49.9	52.3
82.5°	110.9	86.0	62.3	59.8	57.3	61.1	67.3	58.6	41.1	17.4	6.2
85°	34.9	33.6	31.2	33.6	29.9	26.2	28.7	22.4	13.7	2.5	0.0
87.5°	2.5	2.5	3.7	2.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0
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)