

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: P1462364

Luminaire Tested: PRV-P-90-8540-U-T2R-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1462364
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T2R-HSS
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE II
ROADWAY DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (20) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7580.2 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 94.5
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

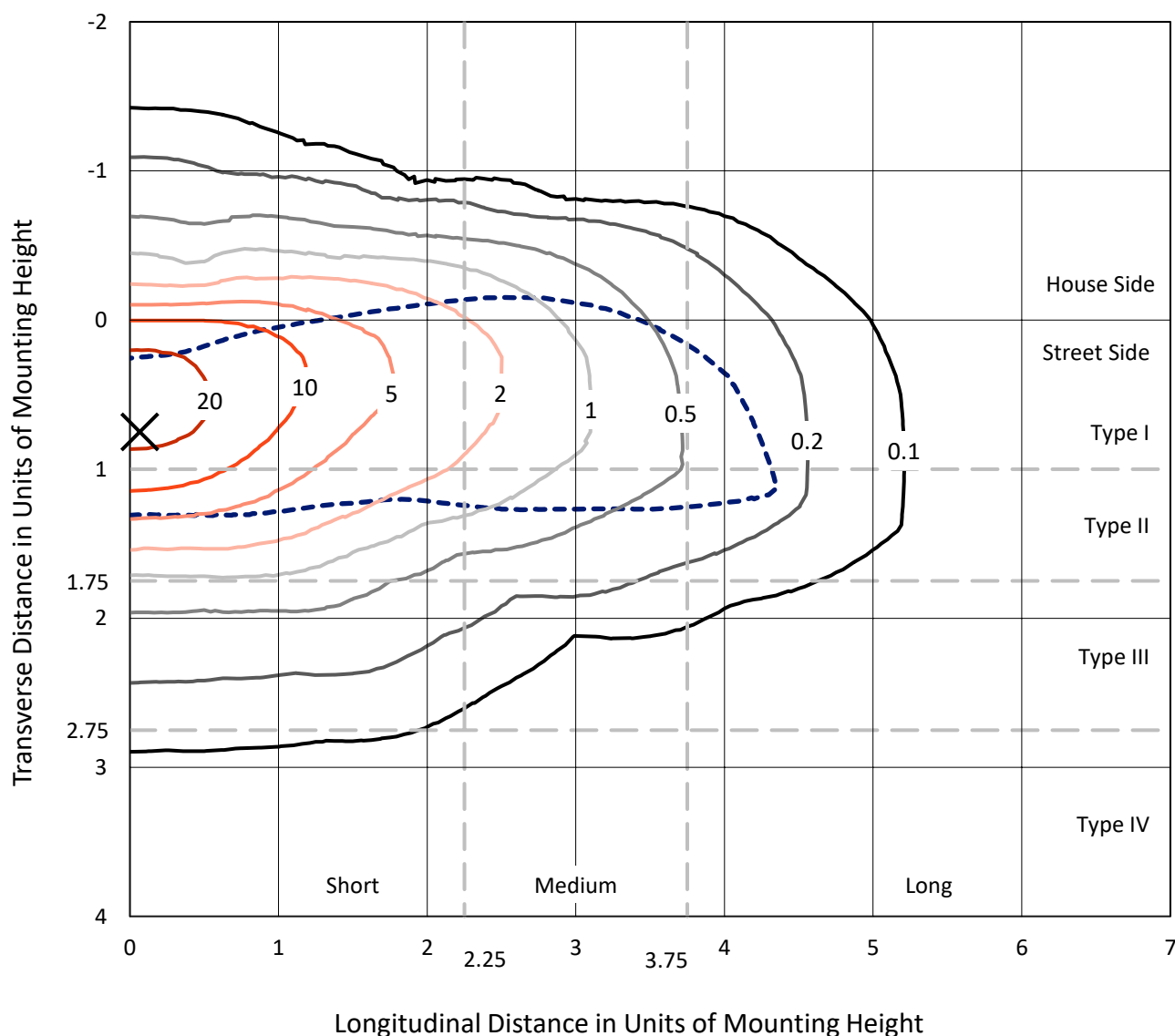
REPORT NUMBER: P1462364

CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



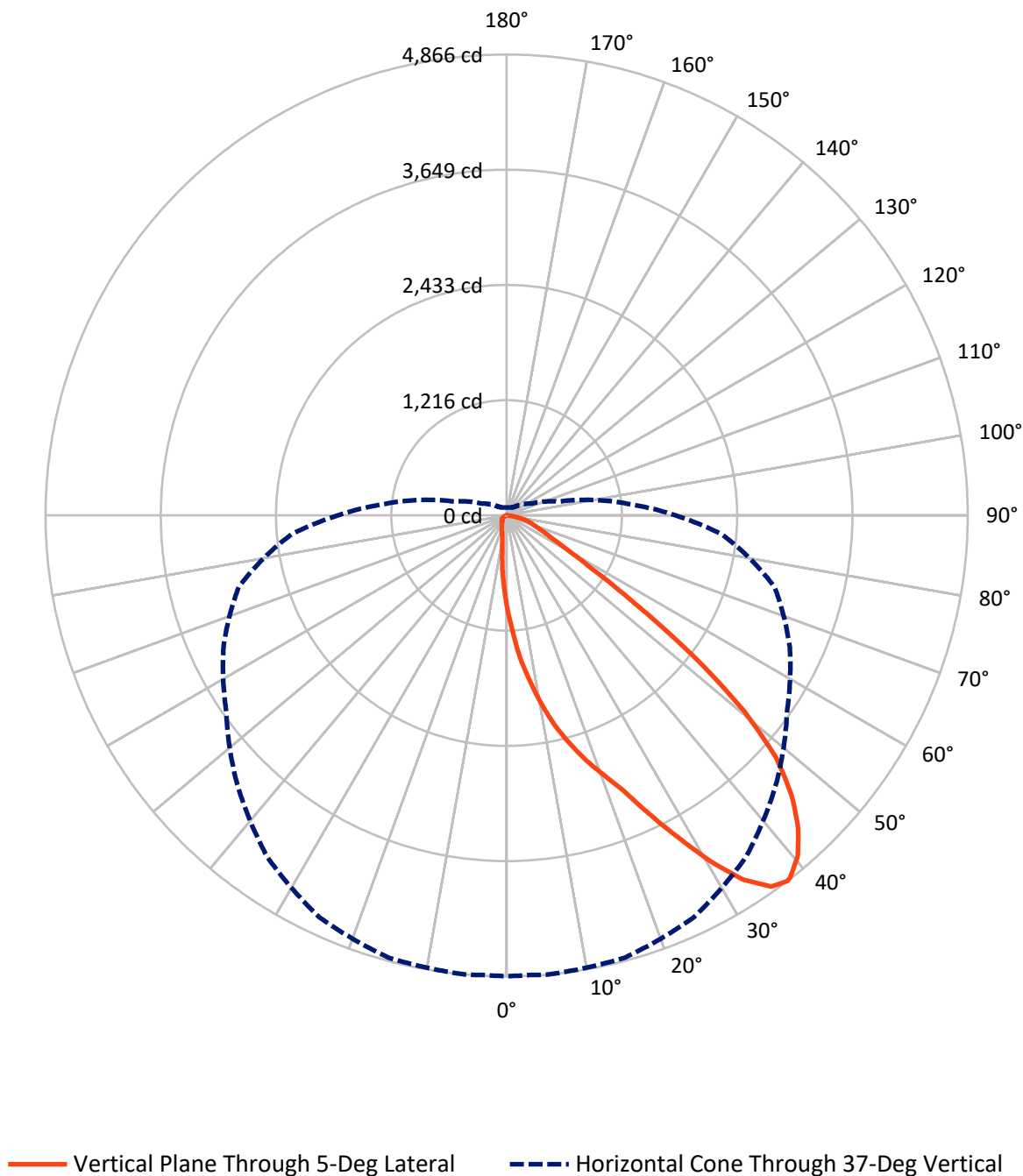
Based on 10 foot mounting height. Maximum calculated value = 27.6 fc

Type II - Short - N/A

REPORT NUMBER: P1462364

CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1462364

CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

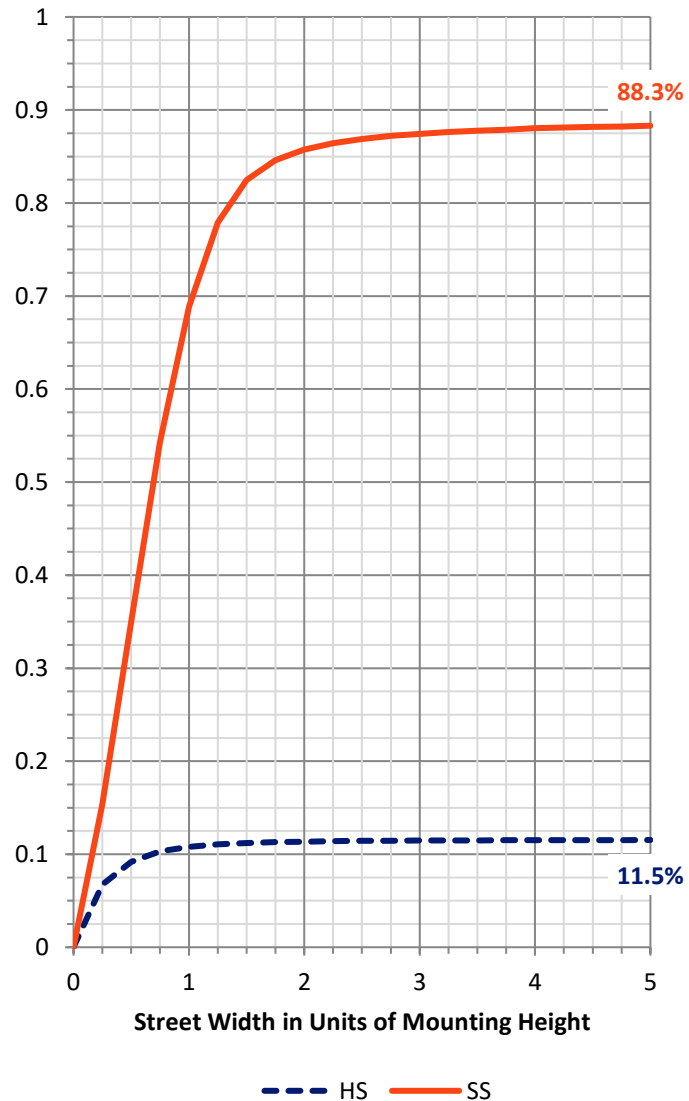
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.4	0.0	880.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	6699.8	0.0	6699.8
	% Fixture	88.4	0.0	88.4
Total	Lumens	7580.2	0.0	7580.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	351.0	4.6
20°-30°	727.0	9.6
30°-40°	1263.9	16.7
40°-50°	1650.4	21.8
50°-60°	1558.6	20.6
60°-70°	1185.4	15.6
70°-80°	661.5	8.7
80°-90°	82.8	1.1
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°	7580.2	100.0
0°-180°	7580.2	100.0

Coefficient of Utilization



REPORT NUMBER: P1462364

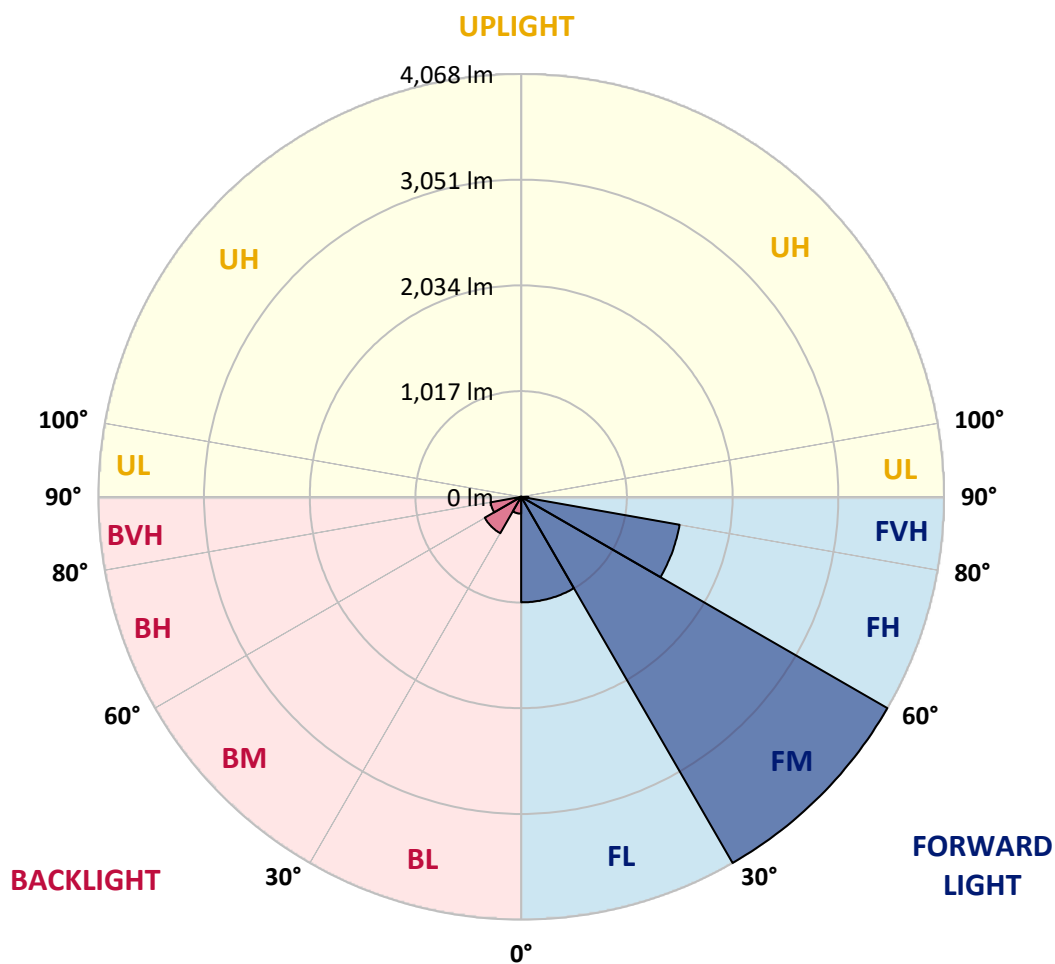
CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.4	13.4			
FM	(30°-60°)	4068.2	53.7			
FH	(60°-80°)	1547.5	20.4			G1/1800
FVH	(80°-90°)	68.8	0.9			G1/100
BL	(0°-30°)	162.1	2.1	B1/500		
BM	(30°-60°)	404.8	5.3	B1/1000		
BH	(60°-80°)	299.4	4.0	B1/500		G1/500
BVH	(80°-90°)	14.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P1462364

CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7
2.5°	1247.5	1226.0	1229.3	1239.2	1227.6	1201.1	1164.7	1136.5	1096.7	1055.3	1012.3
5°	1501.0	1507.6	1515.9	1509.3	1474.5	1441.3	1368.4	1305.5	1216.0	1126.6	1042.1
7.5°	1759.4	1754.5	1764.4	1757.8	1714.7	1655.1	1562.3	1461.2	1340.3	1207.7	1076.9
10°	2026.2	2016.2	2026.2	2003.0	1961.6	1878.7	1766.1	1643.5	1487.7	1297.2	1126.6
12.5°	2268.0	2271.4	2278.0	2258.1	2190.2	2099.1	1964.9	1814.1	1625.2	1411.5	1173.0
15°	2495.0	2501.6	2500.0	2486.7	2423.8	2319.4	2170.3	1991.4	1776.0	1525.8	1237.6
17.5°	2713.7	2717.0	2718.7	2698.8	2640.8	2523.2	2367.4	2162.0	1928.4	1651.7	1313.8
20°	2932.4	2919.1	2924.1	2900.9	2828.0	2718.7	2556.3	2355.9	2089.1	1789.3	1398.3
22.5°	3141.1	3144.4	3152.7	3116.3	3035.1	2907.5	2733.6	2524.8	2258.1	1940.0	1497.7
25°	3469.2	3464.2	3485.7	3422.8	3267.0	3099.7	2924.1	2718.7	2438.7	2097.4	1613.6
27.5°	3851.9	3846.9	3845.2	3782.3	3585.1	3343.3	3108.0	2881.0	2620.9	2268.0	1736.2
30°	4257.8	4254.4	4234.6	4150.1	3908.2	3613.3	3315.1	3053.3	2796.5	2423.8	1863.8
32.5°	4589.1	4577.5	4582.5	4499.6	4246.2	3901.6	3553.7	3238.9	2963.9	2602.7	2001.3
35°	4817.7	4806.1	4812.8	4743.2	4527.8	4213.0	3803.8	3424.4	3139.5	2789.9	2147.1
37°	4864.1	4857.5	4865.8	4831.0	4678.6	4401.9	4019.2	3611.6	3296.9	2927.4	2276.3
37.5°	4855.8	4849.2	4857.5	4832.6	4695.1	4416.8	4044.0	3646.4	3335.0	2972.2	2304.5
40°	4720.0	4715.0	4729.9	4746.5	4688.5	4544.4	4242.9	3853.5	3538.7	3174.3	2468.5
42.5°	4494.7	4503.0	4511.2	4549.3	4537.7	4496.3	4338.9	4032.4	3721.0	3373.1	2611.0
45°	4201.4	4196.5	4218.0	4269.4	4289.2	4310.8	4315.7	4150.1	3903.2	3573.5	2755.1
47.5°	3833.6	3840.3	3830.3	3914.8	3994.3	4078.8	4171.6	4173.3	4039.1	3793.9	2924.1
50°	3245.5	3215.7	3243.9	3421.1	3651.4	3812.1	3938.0	4093.7	4141.8	4019.2	3099.7
52.5°	2453.6	2455.3	2460.2	2736.9	3113.0	3484.1	3701.1	3928.1	4165.0	4216.3	3296.9
55°	1706.4	1650.1	1643.5	1979.8	2493.4	3043.4	3427.7	3704.4	4098.7	4400.2	3504.0
57.5°	1053.7	1027.2	1052.0	1293.9	1883.7	2463.5	3045.0	3500.6	3974.5	4537.7	3726.0
60°	714.0	720.7	733.9	874.7	1317.1	1892.0	2548.0	3286.9	3838.6	4625.6	3933.0
62.5°	545.1	546.7	550.0	619.6	916.2	1380.0	1946.6	2889.3	3744.2	4582.5	4052.3
65°	440.7	444.0	445.7	480.4	639.5	1023.9	1399.9	2316.1	3619.9	4382.0	4085.5
67.5°	366.1	362.8	366.1	397.6	490.4	772.0	1008.9	1679.9	3344.9	4201.4	4019.2
70°	303.2	303.2	303.2	336.3	400.9	598.1	732.3	1136.5	2834.6	4067.2	3802.2
72.5°	260.1	260.1	261.8	285.0	338.0	472.2	553.3	752.1	2205.1	3813.8	3353.2
75°	215.4	215.4	217.0	240.2	285.0	369.4	429.1	526.8	1537.4	3282.0	2712.0
77.5°	154.1	154.1	152.4	183.9	227.0	271.7	314.8	371.1	949.3	2437.0	2036.1
80°	87.8	92.8	94.4	107.7	159.0	192.2	217.0	251.8	498.7	1403.2	1176.3
82.5°	43.1	51.4	51.4	67.9	96.1	116.0	130.9	152.4	222.0	568.3	515.2
85°	16.6	18.2	21.5	24.9	34.8	46.4	54.7	56.3	69.6	142.5	139.2
87.5°	1.7	1.7	1.7	3.3	5.0	8.3	8.3	8.3	11.6	9.9	6.6
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: P1462364

CATALOG NUMBER: PRV-P-90-8540-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7	985.7
2.5°	992.4	970.8	931.1	891.3	856.5	825.0	803.5	775.3	763.7	753.8	748.8
5°	997.3	957.6	879.7	803.5	738.9	682.6	629.6	604.7	568.3	560.0	550.0
7.5°	1010.6	949.3	831.7	722.3	624.6	540.1	470.5	424.1	387.7	369.4	372.8
10°	1033.8	951.0	786.9	637.8	515.2	412.5	334.7	296.6	273.4	263.4	265.1
12.5°	1057.0	951.0	748.8	566.6	415.8	309.8	260.1	236.9	227.0	220.3	218.7
15°	1093.4	959.2	712.4	488.7	328.0	251.8	218.7	203.8	195.5	190.5	192.2
17.5°	1134.9	969.2	677.6	417.5	268.4	217.0	195.5	182.2	174.0	170.6	169.0
20°	1181.2	990.7	641.1	354.5	230.3	193.8	175.6	164.0	154.1	152.4	152.4
22.5°	1244.2	1017.2	611.3	309.8	205.4	175.6	159.0	149.1	140.8	137.5	137.5
25°	1320.4	1053.7	591.4	276.7	188.9	160.7	144.1	134.2	127.6	124.3	124.3
27.5°	1406.6	1101.7	576.5	261.8	178.9	149.1	134.2	124.3	117.6	114.3	114.3
30°	1496.0	1156.4	566.6	260.1	175.6	139.2	124.3	114.3	107.7	104.4	104.4
32.5°	1593.8	1211.1	564.9	268.4	180.6	132.5	116.0	106.0	99.4	94.4	96.1
35°	1689.9	1270.7	564.9	281.6	190.5	130.9	107.7	97.7	91.1	87.8	87.8
37°	1781.0	1320.4	561.6	293.2	200.5	130.9	102.7	92.8	86.1	82.8	82.8
37.5°	1799.2	1332.0	560.0	294.9	202.1	132.5	101.1	91.1	84.5	82.8	81.2
40°	1918.5	1403.2	561.6	303.2	210.4	132.5	94.4	84.5	79.5	76.2	76.2
42.5°	2029.5	1467.9	566.6	308.1	213.7	130.9	87.8	79.5	74.6	71.2	71.2
45°	2114.0	1506.0	563.3	308.1	212.1	125.9	82.8	74.6	71.2	67.9	67.9
47.5°	2216.7	1559.0	560.0	308.1	203.8	119.3	77.9	71.2	67.9	64.6	64.6
50°	2321.1	1621.9	568.3	306.5	188.9	109.3	72.9	67.9	64.6	63.0	61.3
52.5°	2443.7	1688.2	578.2	303.2	174.0	97.7	69.6	64.6	61.3	58.0	58.0
55°	2581.2	1757.8	594.8	294.9	154.1	86.1	66.3	63.0	56.3	53.0	53.0
57.5°	2727.0	1834.0	609.7	276.7	134.2	76.2	64.6	58.0	49.7	43.1	43.1
60°	2876.1	1930.1	619.6	241.9	116.0	69.6	61.3	53.0	41.4	36.4	36.4
62.5°	2987.1	2031.1	621.3	178.9	96.1	64.6	58.0	46.4	36.4	33.1	31.5
65°	3068.2	2117.3	598.1	122.6	77.9	59.6	54.7	41.4	31.5	26.5	26.5
67.5°	3074.9	2167.0	530.1	84.5	64.6	56.3	49.7	36.4	19.9	16.6	14.9
70°	2975.5	2112.3	405.9	69.6	56.3	49.7	39.8	26.5	16.6	13.3	13.3
72.5°	2670.6	1895.3	261.8	61.3	49.7	43.1	34.8	23.2	14.9	9.9	9.9
75°	2183.6	1535.8	172.3	54.7	41.4	34.8	28.2	18.2	11.6	6.6	6.6
77.5°	1617.0	1012.3	111.0	46.4	33.1	28.2	21.5	13.3	8.3	5.0	3.3
80°	951.0	560.0	71.2	36.4	26.5	21.5	14.9	8.3	5.0	1.7	1.7
82.5°	419.1	227.0	44.7	24.9	14.9	13.3	6.6	3.3	1.7	0.0	0.0
85°	102.7	51.4	16.6	6.6	5.0	3.3	1.7	1.7	0.0	0.0	0.0
87.5°	6.6	6.6	5.0	5.0	3.3	3.3	1.7	1.7	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)