

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: P1502967

Luminaire Tested: PRV-P-90-8540-U-T2RE-HSS

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1502967
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T2RE-HSS
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE II
ROADWAY ILLUMINANCE 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: 8042.5 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

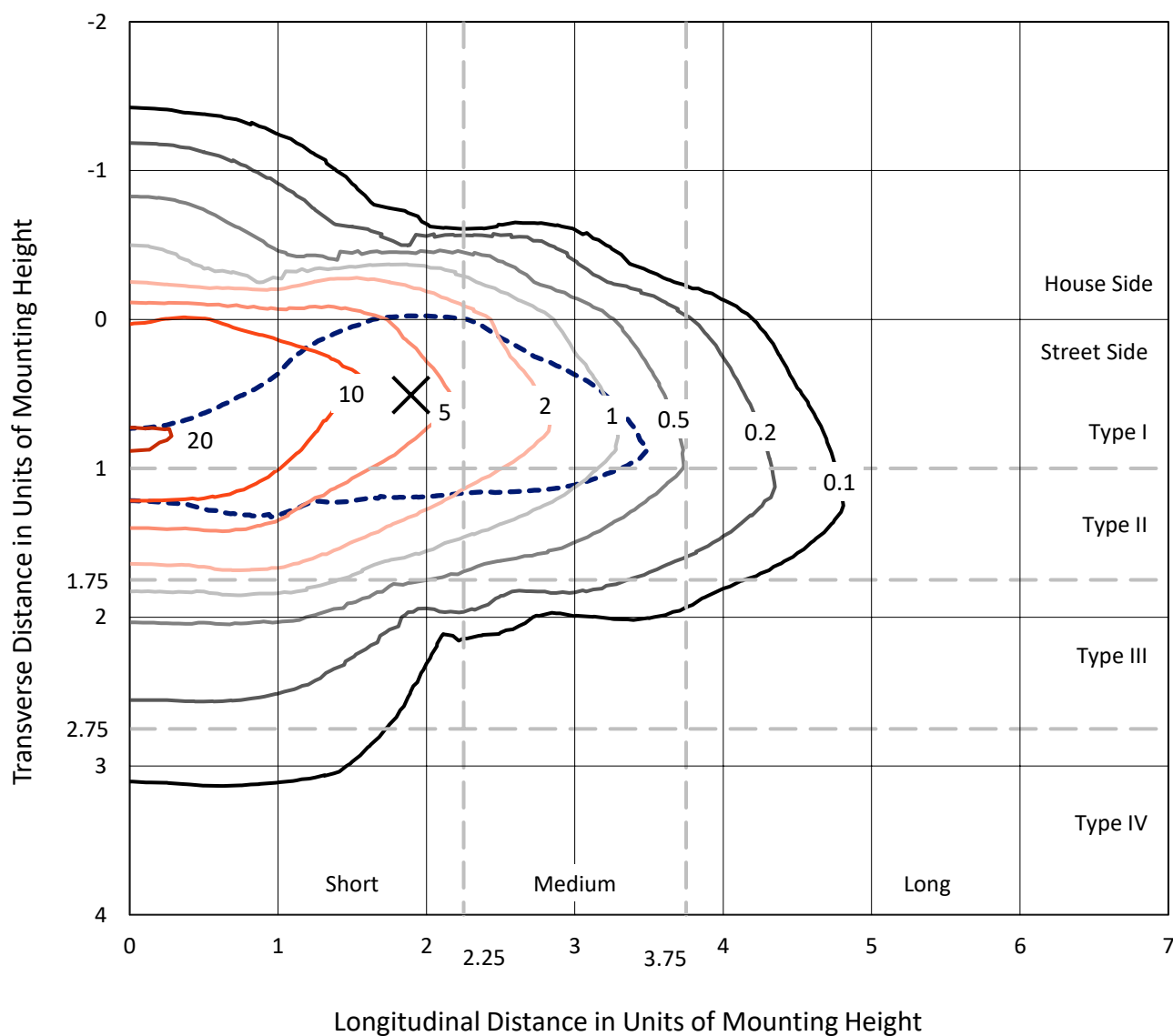
REPORT NUMBER: P1502967

CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

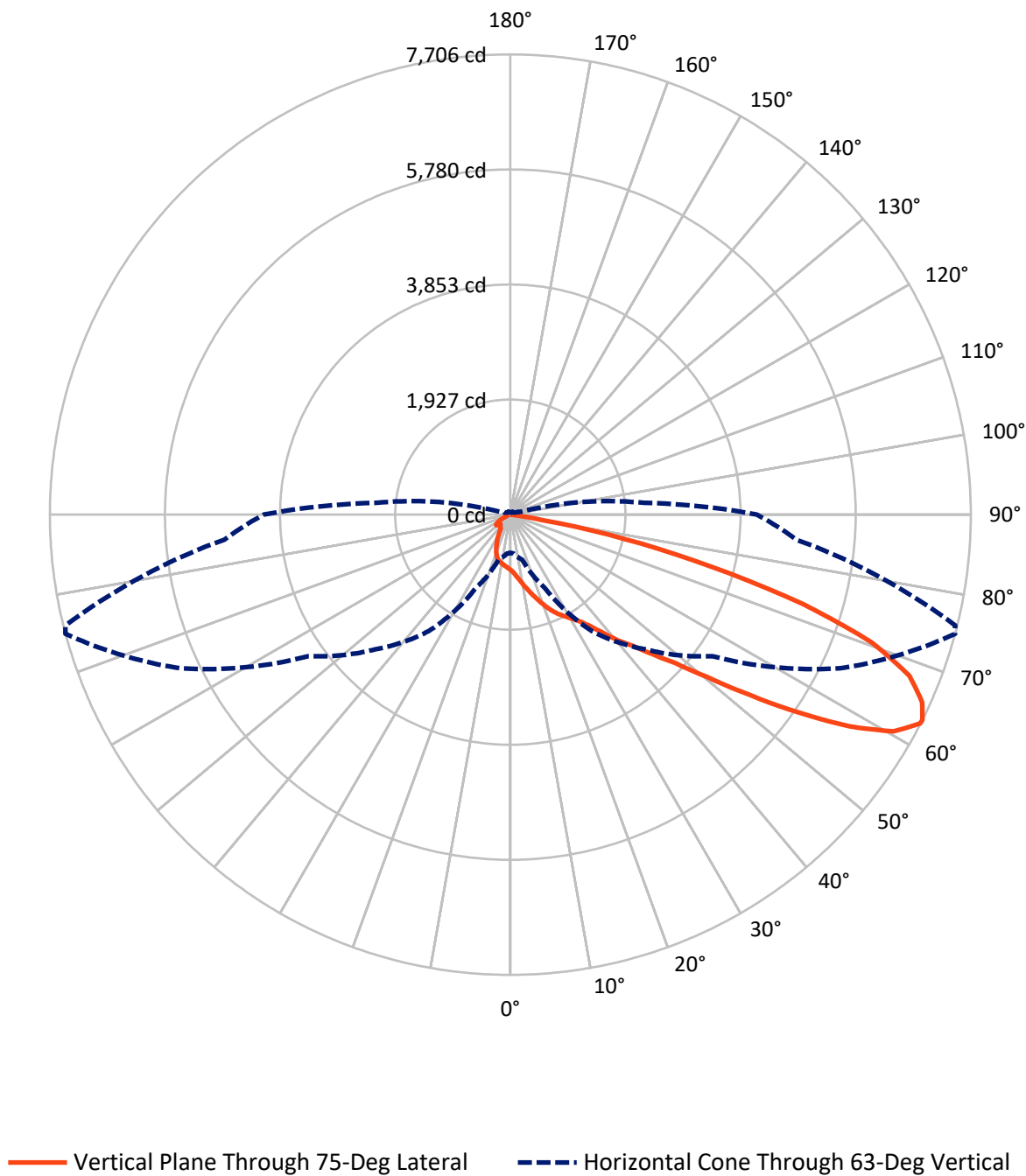


Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
Type II - Short - N/A

REPORT NUMBER: P1502967

CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1502967

CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

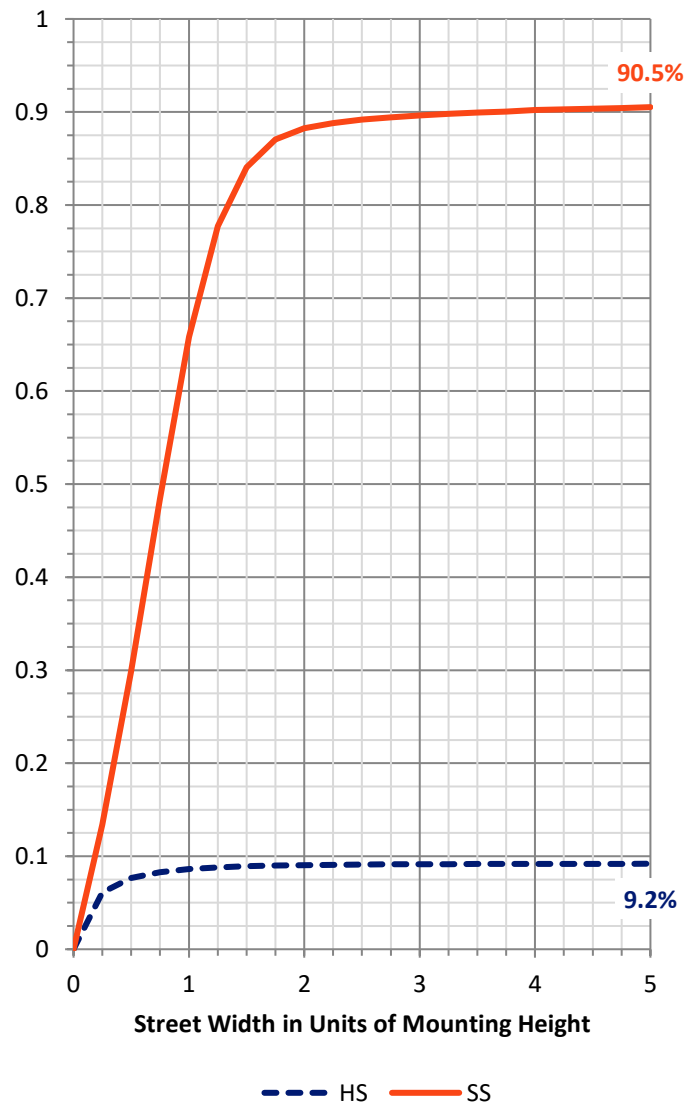
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.3	0.0	745.3
	% Fixture	9.3	0.0	9.3
Street Side	Lumens	7297.2	0.0	7297.2
	% Fixture	90.7	0.0	90.7
Total	Lumens	8042.5	0.0	8042.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.1
10°-20°	252.5	3.1
20°-30°	483.0	6.0
30°-40°	1005.8	12.5
40°-50°	1788.4	22.2
50°-60°	2136.7	26.6
60°-70°	1649.0	20.5
70°-80°	594.1	7.4
80°-90°	44.6	0.6
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°	8042.5	100.0
0°-180°	8042.5	100.0

Coefficient of Utilization



REPORT NUMBER: P1502967

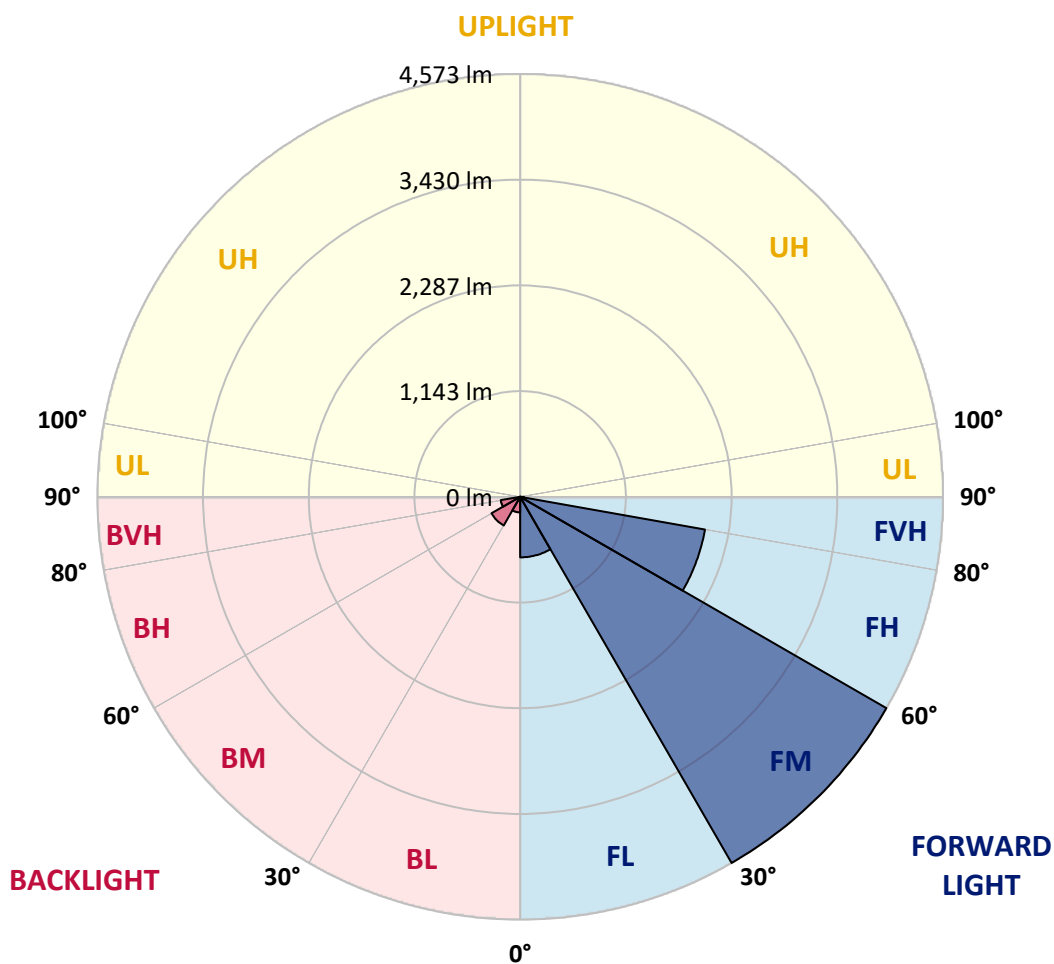
CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.0	8.1			
FM	(30°-60°)	4573.1	56.9			
FH	(60°-80°)	2029.6	25.2			G2/5000
FVH	(80°-90°)	39.5	0.5			G1/100
BL	(0°-30°)	169.0	2.1	B1/500		
BM	(30°-60°)	357.8	4.4	B1/1000		
BH	(60°-80°)	213.4	2.7	B1/500		G1/500
BVH	(80°-90°)	5.0	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 II Short



REPORT NUMBER: P1502967

CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	1085.1	1085.1	1089.8	1080.4	1066.4	1038.2	1021.7	991.2	967.7	965.4	944.2
5°	1242.5	1249.6	1251.9	1242.5	1226.1	1190.8	1146.2	1082.8	1028.8	1019.4	974.8
7.5°	1249.6	1254.3	1268.4	1287.1	1298.9	1289.5	1261.3	1195.5	1101.6	1092.2	1017.0
10°	1195.5	1195.5	1209.6	1233.1	1280.1	1327.1	1341.2	1296.5	1190.8	1176.7	1073.4
12.5°	1209.6	1209.6	1223.7	1237.8	1268.4	1305.9	1388.1	1383.4	1284.8	1270.7	1146.2
15°	1261.3	1261.3	1275.4	1294.2	1313.0	1331.8	1397.5	1468.0	1390.5	1378.7	1219.0
17.5°	1310.6	1308.3	1331.8	1367.0	1395.2	1397.5	1432.8	1531.4	1498.5	1489.1	1301.2
20°	1360.0	1364.7	1395.2	1446.9	1496.2	1510.3	1515.0	1590.1	1616.0	1606.6	1399.9
22.5°	1428.1	1435.1	1472.7	1545.5	1608.9	1639.5	1634.8	1658.3	1733.4	1719.3	1493.8
25°	1538.5	1540.8	1608.9	1698.2	1766.3	1803.9	1785.1	1745.2	1836.8	1825.0	1583.1
27.5°	1756.9	1773.3	1822.7	1923.7	2003.5	2008.2	1975.3	1864.9	1923.7	1919.0	1658.3
30°	2339.4	2304.2	2252.5	2238.4	2283.0	2273.6	2222.0	2022.3	2015.3	2008.2	1733.4
32.5°	2980.6	2985.3	2893.7	2710.5	2649.4	2574.3	2489.7	2240.8	2128.0	2128.0	1815.6
35°	3603.1	3565.5	3532.6	3332.9	3112.2	2945.4	2818.6	2503.8	2283.0	2278.3	1921.3
37.5°	4157.4	4124.5	4089.3	3953.0	3690.0	3375.2	3152.1	2818.6	2503.8	2496.8	2048.2
40°	4556.7	4549.6	4528.5	4460.4	4225.5	3861.4	3530.2	3126.3	2764.5	2748.1	2200.8
42.5°	4906.6	4911.3	4906.6	4911.3	4761.0	4364.1	3917.8	3441.0	3006.5	2992.4	2379.3
45°	5181.5	5183.8	5244.9	5296.5	5223.7	4843.2	4296.0	3816.8	3330.6	3321.2	2611.9
47.5°	4918.4	4930.1	5143.9	5477.4	5576.1	5249.6	4692.9	4192.6	3713.5	3715.8	2877.3
50°	4129.2	4190.3	4599.0	5256.6	5667.7	5571.4	5049.9	4606.0	4272.5	4281.9	3295.4
52.5°	3100.4	3163.8	3614.8	4627.1	5392.8	5606.6	5374.1	5045.2	5017.0	5002.9	3718.2
55°	2355.8	2395.8	2839.7	3781.6	4721.1	5254.3	5547.9	5559.6	5843.8	5839.1	4140.9
57.5°	1679.4	1735.8	2095.1	3215.5	3995.3	4608.3	5444.5	6078.7	6687.0	6665.9	4474.5
60°	1092.2	1096.9	1381.1	2463.9	3490.3	3802.7	5002.9	6334.7	7368.2	7368.2	4721.1
62.5°	699.9	721.1	857.3	1517.3	2640.1	3293.0	4331.2	6184.4	7697.0	7664.1	4822.1
63°	638.9	655.3	784.5	1341.2	2379.3	3187.3	4131.5	6088.1	7706.4	7673.5	4805.6
65°	488.6	497.9	573.1	810.3	1500.9	2456.8	3643.0	5461.0	7574.9	7591.3	4660.0
67.5°	427.5	429.8	472.1	563.7	718.7	1237.8	2874.9	4603.7	7203.8	7267.2	4270.1
70°	394.6	399.3	446.3	483.9	462.7	406.3	1745.2	3826.2	6426.3	6600.1	3769.8
72.5°	338.2	347.6	396.9	453.3	375.8	246.6	645.9	2893.7	5125.1	5294.2	3072.2
75°	272.5	281.9	324.1	382.9	340.6	204.3	202.0	1611.3	3469.2	3457.4	1996.5
77.5°	206.7	213.7	260.7	293.6	300.6	187.9	162.1	692.9	1947.2	1874.3	913.7
80°	143.3	152.7	192.6	213.7	232.5	173.8	136.2	199.6	547.3	519.1	211.4
82.5°	75.2	77.5	122.1	138.6	155.0	143.3	105.7	117.4	103.3	98.6	56.4
85°	25.8	30.5	49.3	56.4	63.4	70.5	65.8	70.5	61.1	58.7	37.6
87.5°	4.7	4.7	7.0	9.4	9.4	9.4	11.7	11.7	9.4	9.4	7.0
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: P1502967

CATALOG NUMBER: PRV-P-90-8540-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	932.5	920.7	899.6	878.5	855.0	833.8	817.4	810.3	796.2	793.9	784.5
5°	951.3	925.4	873.8	819.7	770.4	723.4	688.2	653.0	631.8	624.8	627.1
7.5°	977.1	939.5	852.6	763.4	676.5	601.3	540.2	486.2	458.0	446.3	443.9
10°	1019.4	963.0	831.5	697.6	573.1	467.4	387.6	340.6	310.0	307.7	300.6
12.5°	1078.1	998.2	812.7	622.4	460.4	347.6	284.2	251.3	239.6	234.9	234.9
15°	1141.5	1040.5	791.5	535.5	354.7	260.7	225.5	218.4	213.7	211.4	211.4
17.5°	1212.0	1080.4	749.3	443.9	272.5	216.1	204.3	199.6	195.0	192.6	192.6
20°	1287.1	1113.3	695.2	357.0	218.4	195.0	185.6	178.5	173.8	173.8	171.5
22.5°	1352.9	1134.5	627.1	274.8	197.3	180.9	171.5	164.4	162.1	159.7	159.7
25°	1414.0	1139.2	554.3	220.8	183.2	166.8	155.0	150.3	148.0	148.0	145.6
27.5°	1461.0	1129.8	481.5	195.0	169.1	155.0	143.3	138.6	138.6	136.2	136.2
30°	1498.5	1111.0	399.3	183.2	159.7	143.3	133.9	131.5	129.2	129.2	129.2
32.5°	1540.8	1092.2	326.5	178.5	152.7	136.2	129.2	126.8	124.5	122.1	122.1
35°	1583.1	1087.5	286.6	178.5	148.0	133.9	126.8	122.1	119.8	117.4	117.4
37.5°	1632.4	1089.8	272.5	183.2	148.0	131.5	124.5	119.8	117.4	112.7	112.7
40°	1700.5	1087.5	260.7	183.2	145.6	129.2	122.1	117.4	112.7	108.0	108.0
42.5°	1789.8	1111.0	246.6	178.5	143.3	126.8	119.8	112.7	105.7	101.0	101.0
45°	1954.2	1181.4	232.5	169.1	138.6	122.1	112.7	105.7	98.6	91.6	91.6
47.5°	2191.4	1343.5	225.5	159.7	131.5	115.1	103.3	94.0	89.3	84.6	84.6
50°	2597.8	1634.8	249.0	145.6	122.1	105.7	94.0	84.6	77.5	72.8	72.8
52.5°	3015.9	1963.6	288.9	136.2	112.7	94.0	82.2	72.8	65.8	61.1	61.1
55°	3391.7	2231.4	291.3	124.5	101.0	84.6	72.8	63.4	54.0	51.7	51.7
57.5°	3722.9	2379.3	263.1	108.0	89.3	75.2	63.4	54.0	44.6	42.3	42.3
60°	4011.8	2353.5	225.5	94.0	77.5	65.8	58.7	49.3	39.9	37.6	39.9
62.5°	4138.6	2278.3	187.9	77.5	68.1	58.7	56.4	49.3	35.2	32.9	32.9
63°	4124.5	2247.8	178.5	75.2	65.8	58.7	56.4	47.0	35.2	32.9	32.9
65°	4011.8	2109.2	138.6	65.8	58.7	54.0	54.0	42.3	32.9	28.2	30.5
67.5°	3687.6	1785.1	101.0	56.4	54.0	49.3	47.0	35.2	23.5	18.8	18.8
70°	3008.8	1244.9	77.5	51.7	49.3	42.3	32.9	25.8	18.8	14.1	14.1
72.5°	2151.5	648.3	68.1	44.6	44.6	32.9	25.8	21.1	16.4	9.4	9.4
75°	1261.3	298.3	61.1	39.9	37.6	25.8	21.1	16.4	11.7	7.0	7.0
77.5°	549.6	133.9	54.0	35.2	28.2	23.5	18.8	14.1	9.4	4.7	2.3
80°	124.5	63.4	42.3	28.2	23.5	18.8	14.1	11.7	7.0	0.0	0.0
82.5°	49.3	42.3	30.5	18.8	14.1	9.4	7.0	7.0	2.3	0.0	0.0
85°	30.5	23.5	14.1	9.4	7.0	4.7	4.7	2.3	0.0	0.0	0.0
87.5°	7.0	4.7	4.7	4.7	2.3	2.3	2.3	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)