

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P381254

Luminaire Tested: **PRV-PA2A-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9103.2 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

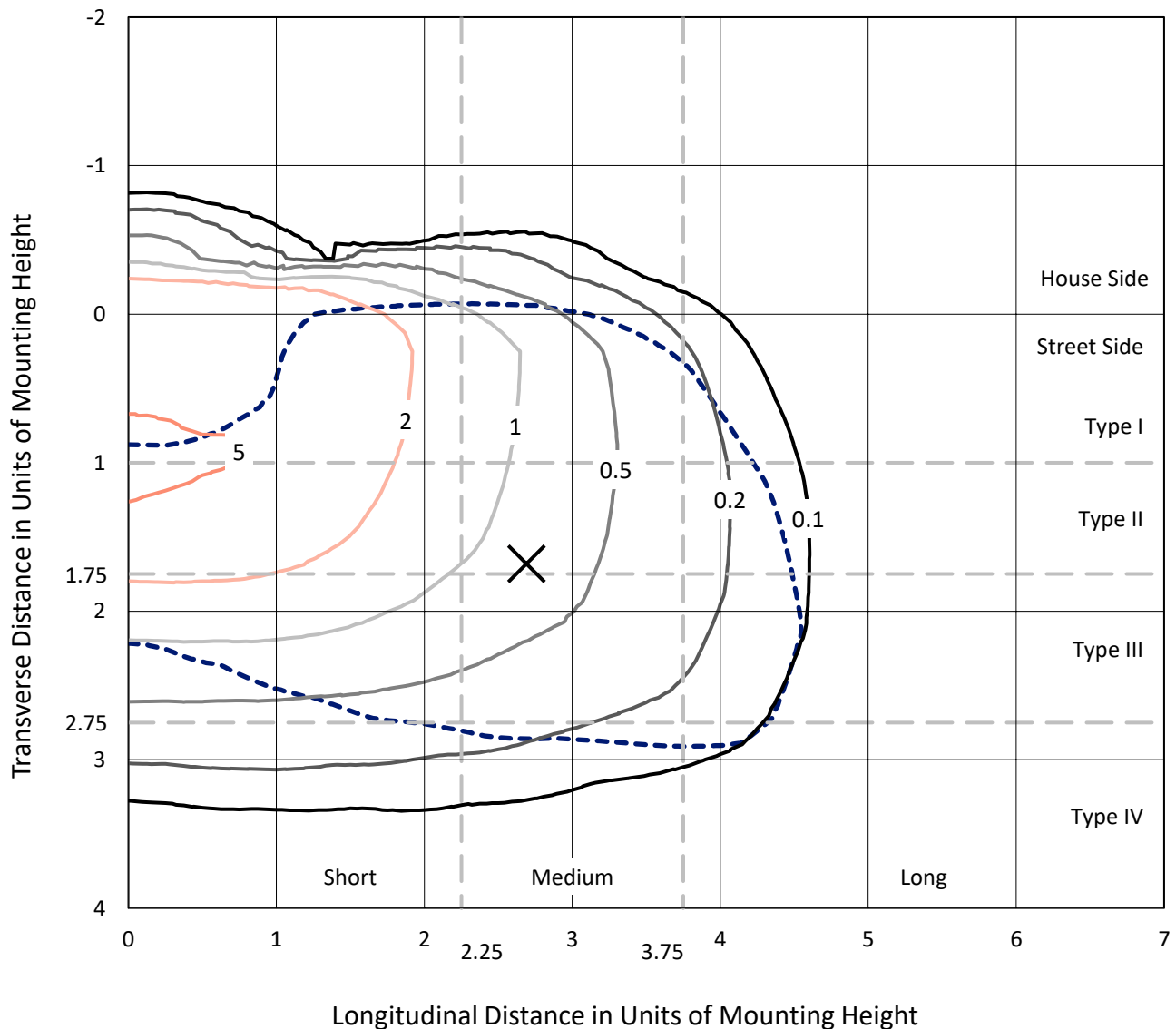


REPORT NUMBER: P381254

CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

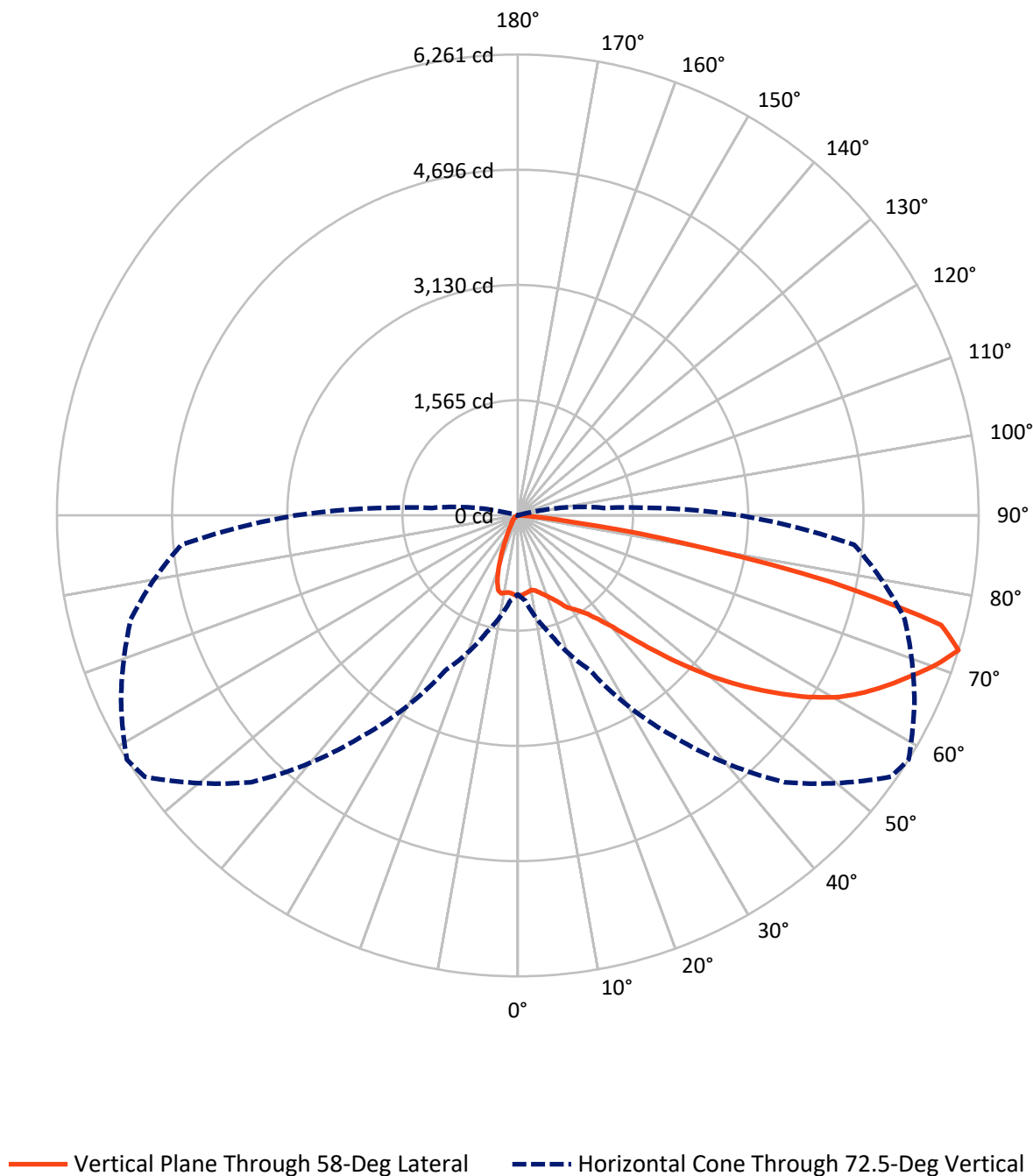


Based on 15 foot mounting height. Maximum calculated value = 6 fc
Type IV - Medium - N/A

REPORT NUMBER: P381254

CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381254

CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

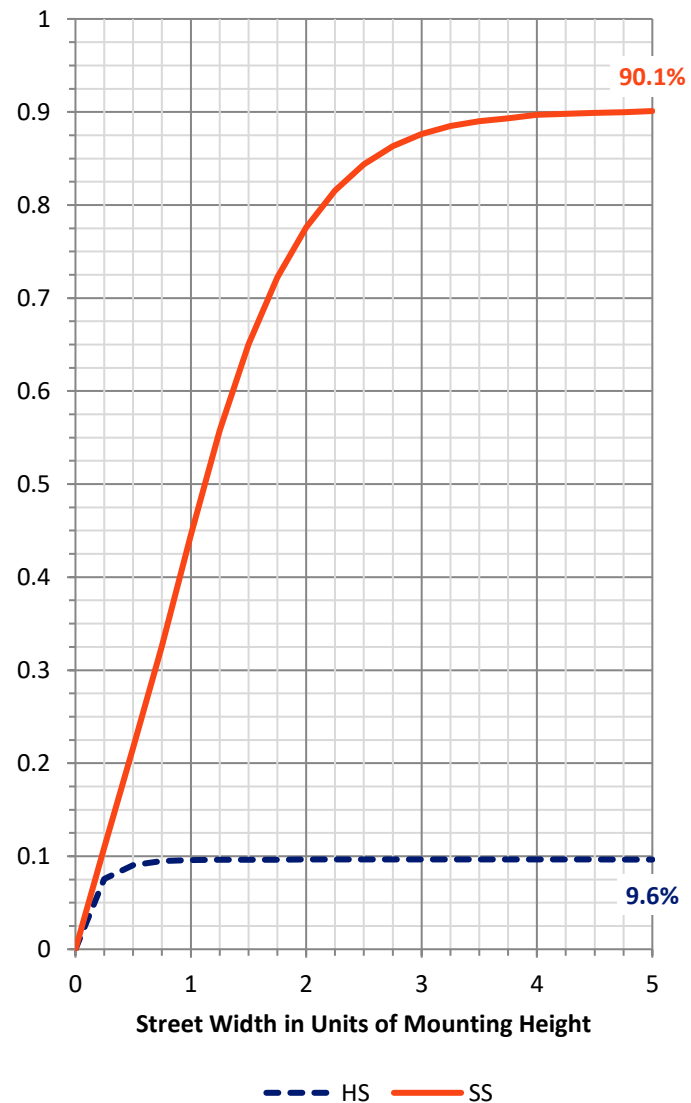
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.2	0.0	885.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	8217.9	0.0	8217.9
	% Fixture	90.3	0.0	90.3
Total	Lumens	9103.2	0.0	9103.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.1
10°-20°	261.1	2.9
20°-30°	410.2	4.5
30°-40°	707.4	7.8
40°-50°	1345.8	14.8
50°-60°	2131.4	23.4
60°-70°	2487.1	27.3
70°-80°	1557.7	17.1
80°-90°	102.2	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°	9103.2	100.0
0°-180°	9103.2	100.0

Coefficient of Utilization



REPORT NUMBER: P381254

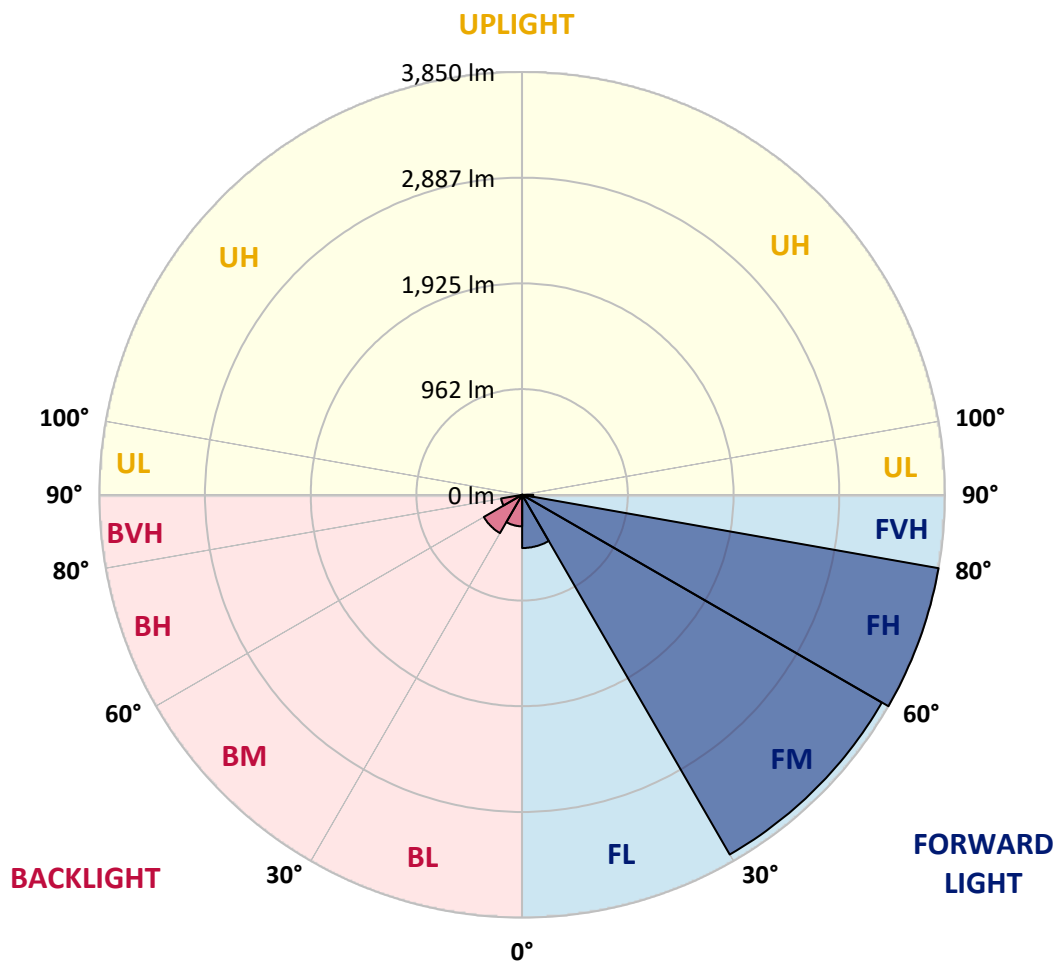
CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.9	5.3			
FM	(30°-60°)	3781.8	41.5			
FH	(60°-80°)	3850.0	42.3			G2/5000
FVH	(80°-90°)	101.3	1.1			G2/225
BL	(0°-30°)	286.7	3.1	B1/500		
BM	(30°-60°)	402.8	4.4	B1/1000		
BH	(60°-80°)	194.8	2.1	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			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 IV Medium



REPORT NUMBER: P381254

CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1087.4	1082.6	1080.9	1079.3	1080.9	1082.6	1077.6	1082.6	1079.3	1080.9	1084.2
5°	1048.4	1043.5	1041.9	1043.5	1048.4	1056.5	1059.8	1064.6	1064.6	1069.5	1071.1
7.5°	1004.4	1001.1	999.5	1002.8	1012.6	1030.4	1040.2	1046.7	1053.3	1063.0	1072.8
10°	980.0	978.4	976.7	981.6	991.4	1007.6	1020.7	1030.4	1054.9	1082.6	1100.4
12.5°	963.7	963.7	967.0	976.7	989.8	1002.8	1033.7	1046.7	1084.2	1126.5	1150.9
15°	950.7	950.7	955.6	973.5	991.4	1022.3	1067.9	1082.6	1126.5	1178.6	1211.1
17.5°	940.9	944.2	947.4	965.4	999.5	1051.6	1105.4	1126.5	1180.2	1237.2	1273.0
20°	942.6	945.8	947.4	965.4	1014.2	1085.8	1154.2	1178.6	1240.4	1300.7	1336.5
22.5°	952.3	957.2	958.9	983.3	1040.2	1121.6	1209.5	1237.2	1303.9	1367.4	1395.1
25°	993.0	996.3	986.5	1007.6	1077.6	1177.0	1281.1	1310.4	1377.2	1435.8	1458.6
27.5°	1131.4	1134.6	1080.9	1056.5	1107.0	1222.6	1369.1	1409.8	1492.8	1531.9	1535.1
30°	1430.9	1434.2	1328.4	1212.8	1177.0	1261.6	1417.9	1474.9	1582.3	1626.3	1606.7
32.5°	1816.7	1813.5	1668.6	1497.6	1343.0	1330.0	1487.9	1548.1	1665.4	1707.6	1693.0
35°	2204.1	2209.1	2085.4	1828.1	1606.7	1458.6	1577.4	1647.4	1789.1	1849.3	1823.2
37.5°	2469.5	2502.1	2448.4	2170.0	1930.7	1696.3	1722.3	1797.2	1974.6	2056.1	2000.7
40°	2843.9	2835.8	2705.6	2500.4	2288.9	2047.9	1956.7	1992.6	2196.1	2305.1	2218.9
42.5°	3346.9	3330.7	3109.3	2909.1	2673.0	2476.0	2290.4	2283.9	2450.0	2577.0	2451.7
45°	3802.8	3778.4	3626.9	3433.2	3174.4	2948.2	2697.4	2640.4	2756.0	2863.5	2717.0
47.5°	4165.8	4125.1	4017.7	3915.1	3851.7	3500.0	3123.9	3037.6	3096.3	3176.0	2969.3
50°	4595.6	4483.2	4326.9	4265.1	4396.9	4125.1	3534.1	3451.2	3447.9	3493.5	3229.8
52.5°	4790.9	4587.4	4499.5	4551.7	4784.4	4706.3	3976.9	3858.2	3810.9	3815.8	3472.3
55°	4554.9	4532.1	4579.3	4742.1	5046.5	5000.9	4401.9	4255.4	4185.4	4097.4	3705.1
57.5°	4286.3	4356.3	4543.5	4854.4	5378.6	5308.6	4820.2	4654.2	4525.6	4323.7	3963.9
60°	4038.8	4110.4	4419.7	4880.4	5560.9	5604.9	5168.6	5010.7	4820.2	4554.9	4248.8
62.5°	3662.8	3718.2	4152.8	4843.0	5481.2	5777.4	5411.2	5292.3	5114.9	4774.7	4576.0
65°	3239.5	3275.4	3705.1	4543.5	5324.9	5757.9	5611.4	5544.7	5372.1	5004.2	4900.0
67.5°	2775.6	2817.9	3176.0	4004.7	5018.8	5666.7	5800.2	5793.7	5596.7	5258.2	5134.4
70°	2241.7	2244.9	2541.1	3320.9	4484.9	5484.4	6034.7	6049.3	5811.6	5448.6	5144.2
72.5°	1072.8	1160.7	1647.4	2318.1	3644.9	5126.3	6187.7	6260.9	5946.7	5442.1	4589.1
75°	245.8	253.9	480.2	1102.1	2137.4	3934.7	5805.1	5941.9	5617.9	4706.3	3233.0
77.5°	89.5	94.4	135.1	322.4	822.1	2033.2	4154.4	4354.7	4152.8	3042.6	1528.6
80°	60.2	58.6	70.0	143.3	377.6	576.3	2124.4	2243.2	2047.9	1038.6	366.3
82.5°	30.9	32.6	48.9	79.8	253.9	200.2	709.8	771.6	634.9	208.4	68.4
85°	14.6	14.6	27.6	50.5	107.4	70.0	157.9	190.4	170.9	91.1	22.8
87.5°	14.6	14.6	26.1	32.6	55.4	29.3	39.1	48.9	45.6	48.9	8.1
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: P381254

CATALOG NUMBER: PRV-PA2A-8540-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1084.2	1082.6	1080.9	1084.2	1082.6	1085.8	1085.8	1089.1	1089.1	1085.8	1084.2
5°	1069.5	1066.3	1063.0	1063.0	1061.4	1064.6	1074.4	1082.6	1084.2	1079.3	1077.6
7.5°	1071.1	1071.1	1067.9	1061.4	1050.0	1050.0	1050.0	1059.8	1064.6	1061.4	1059.8
10°	1100.4	1102.1	1093.9	1079.3	1059.8	1041.9	1007.6	957.2	910.0	897.0	892.1
12.5°	1150.9	1152.6	1136.3	1110.2	1069.5	963.7	833.5	713.0	620.2	594.2	589.3
15°	1211.1	1212.8	1183.5	1141.1	1017.4	771.6	577.9	441.1	359.8	340.2	338.6
17.5°	1273.0	1269.8	1225.8	1144.4	862.8	547.0	351.6	281.6	260.4	255.6	257.2
20°	1333.2	1323.5	1263.3	1084.2	664.2	358.1	257.2	240.9	236.1	232.8	232.8
22.5°	1388.6	1369.1	1294.2	965.4	465.6	257.2	229.5	226.3	219.8	214.9	213.3
25°	1443.9	1416.3	1313.7	810.7	312.6	224.6	216.5	210.0	201.9	195.4	193.7
27.5°	1510.7	1471.6	1303.9	615.4	234.4	208.4	201.9	192.1	180.7	170.9	167.6
30°	1574.2	1530.2	1248.6	424.9	200.2	192.1	182.4	167.6	153.0	141.6	138.4
32.5°	1653.9	1603.5	1149.3	278.4	174.2	167.6	157.9	140.0	120.5	107.4	104.2
35°	1767.9	1710.9	1022.3	195.4	153.0	141.6	128.6	109.1	87.9	78.1	76.5
37.5°	1927.4	1850.9	862.8	157.9	135.1	118.9	99.3	79.8	65.1	57.0	55.4
40°	2122.8	2005.6	685.4	140.0	120.5	99.3	74.9	57.0	47.2	40.7	40.7
42.5°	2334.4	2150.4	504.6	128.6	105.8	81.4	55.4	40.7	34.2	30.9	29.3
45°	2552.6	2279.1	340.2	118.9	92.8	61.9	39.1	27.6	22.8	22.8	21.1
47.5°	2778.9	2365.4	219.8	107.4	78.1	45.6	26.1	19.5	16.3	16.3	16.3
50°	3003.5	2410.9	156.3	97.6	63.5	30.9	19.5	14.6	13.0	13.0	13.0
52.5°	3166.3	2381.7	125.4	84.6	48.9	22.8	14.6	11.4	9.8	9.8	9.8
55°	3307.9	2331.1	109.1	73.3	35.8	16.3	11.4	9.8	8.1	8.1	8.1
57.5°	3452.8	2266.1	97.6	61.9	26.1	11.4	8.1	6.5	6.5	6.5	6.5
60°	3584.7	2155.4	84.6	48.9	17.9	8.1	6.5	4.9	4.9	4.9	4.9
62.5°	3713.2	2060.9	73.3	37.4	13.0	6.5	3.3	3.3	1.6	1.6	1.6
65°	3786.5	1933.9	58.6	24.4	8.1	4.9	1.6	1.6	0.0	0.0	0.0
67.5°	3763.7	1782.6	40.7	14.6	4.9	3.3	1.6	0.0	0.0	0.0	0.0
70°	3605.8	1579.1	24.4	8.1	4.9	3.3	1.6	0.0	0.0	0.0	0.0
72.5°	3019.8	1168.9	14.6	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0
75°	2017.0	537.2	8.1	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	923.0	161.1	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	185.6	42.4	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.1	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.6	0.0	0.0	0.0	0.0	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)