

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: P381191

Luminaire Tested: **PRV-PA2B-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12210.1 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 151
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

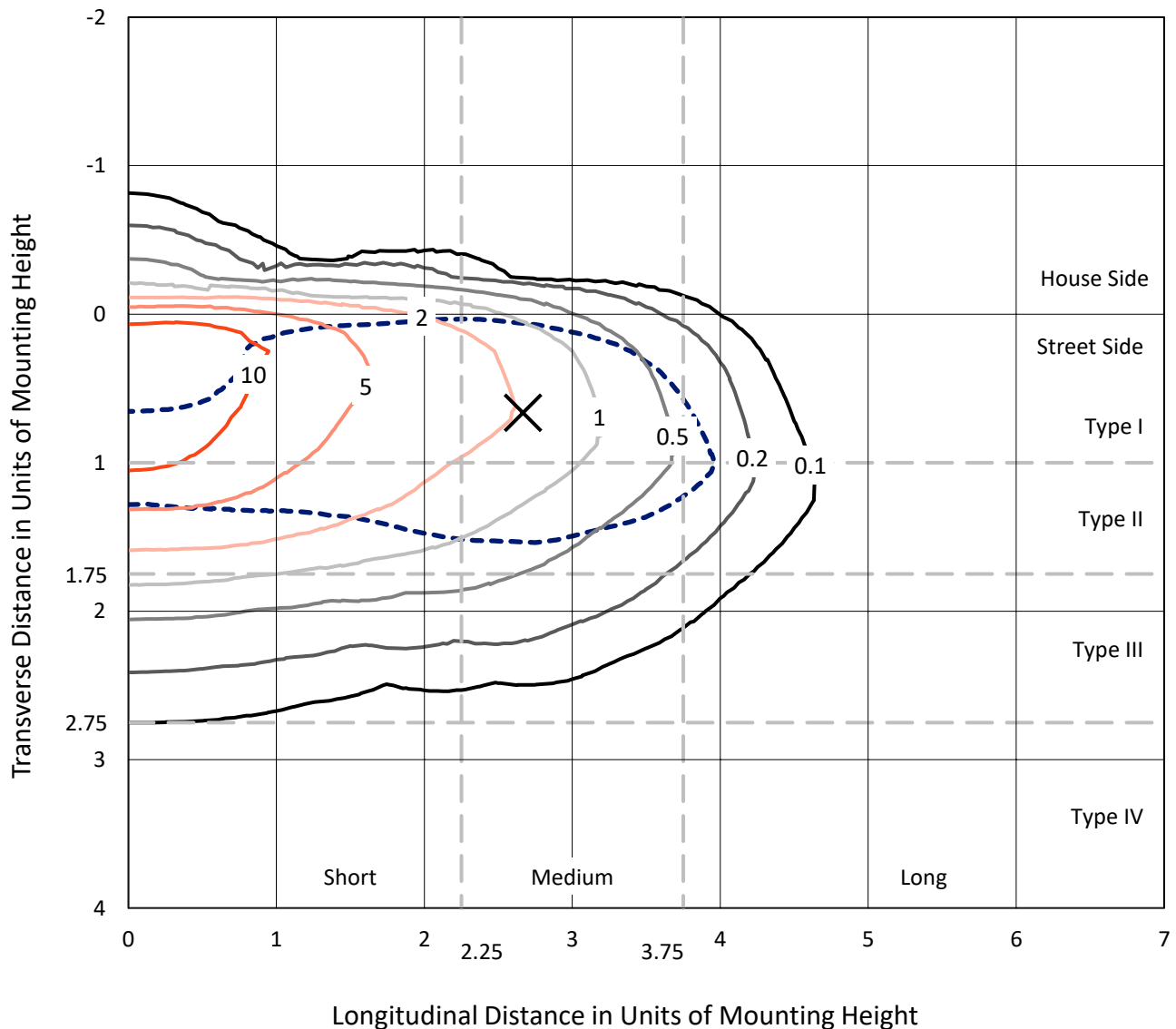


REPORT NUMBER: P381191

CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

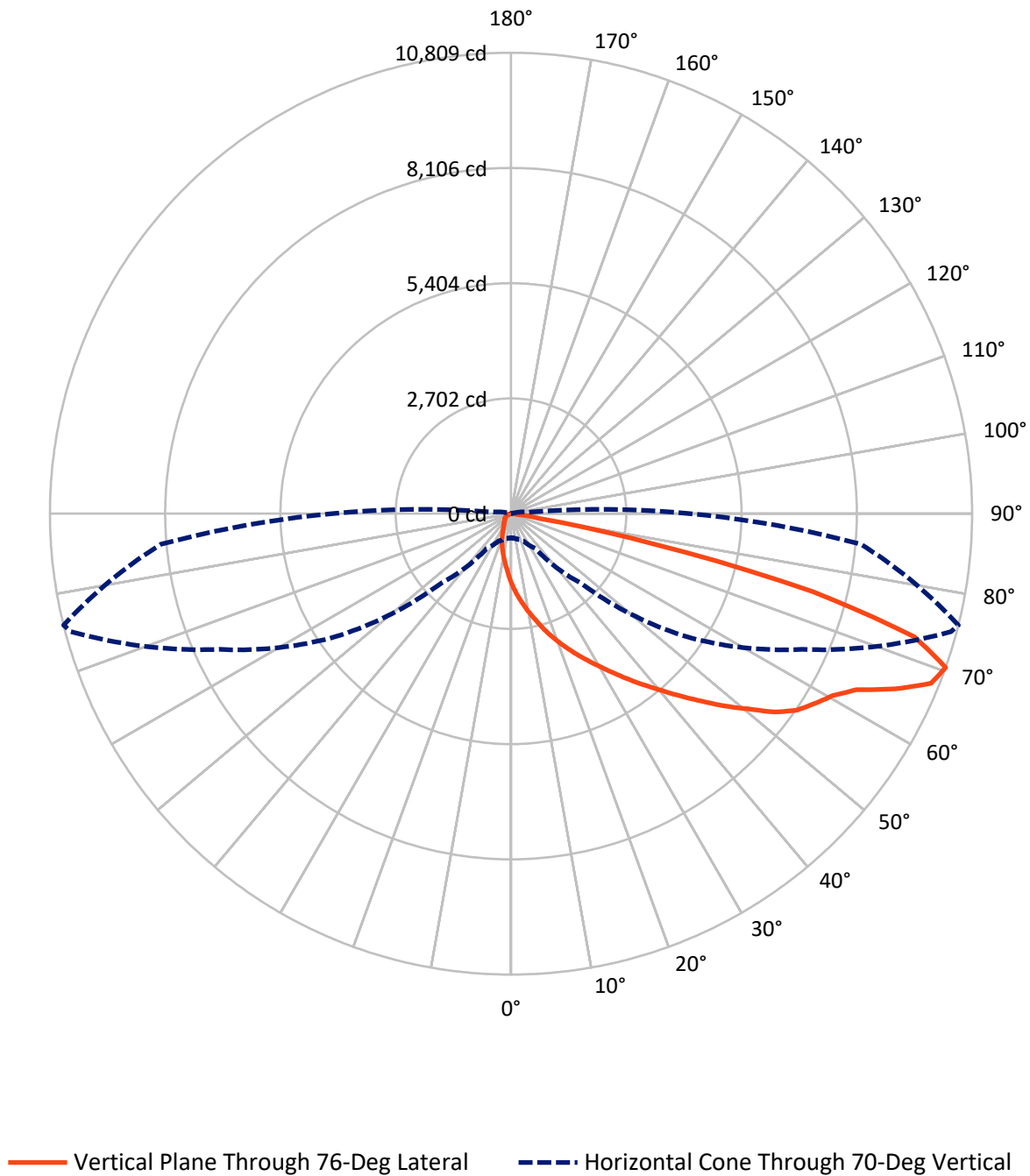


Based on 15 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P381191

CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381191

CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

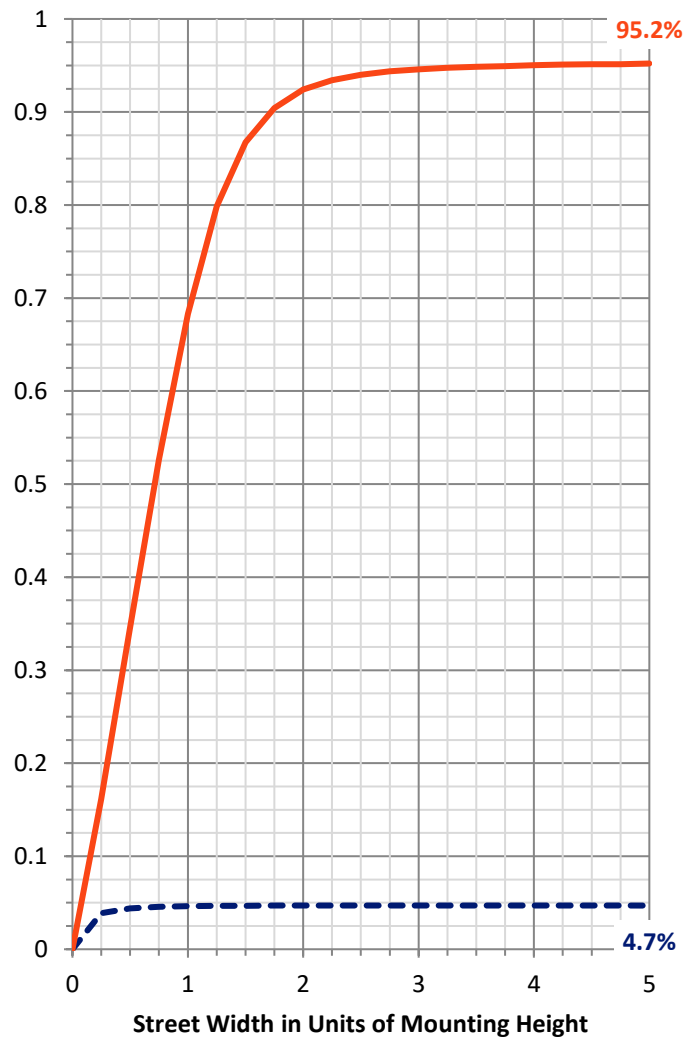
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.9	0.0	575.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11634.2	0.0	11634.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	12210.1	0.0	12210.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.3
10°-20°	496.9	4.1
20°-30°	925.5	7.6
30°-40°	1637.0	13.4
40°-50°	2503.3	20.5
50°-60°	2838.2	23.2
60°-70°	2433.0	19.9
70°-80°	1178.4	9.7
80°-90°	43.7	0.4
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°	12210.1	100.0
0°-180°	12210.1	100.0

Coefficient of Utilization



REPORT NUMBER: P381191

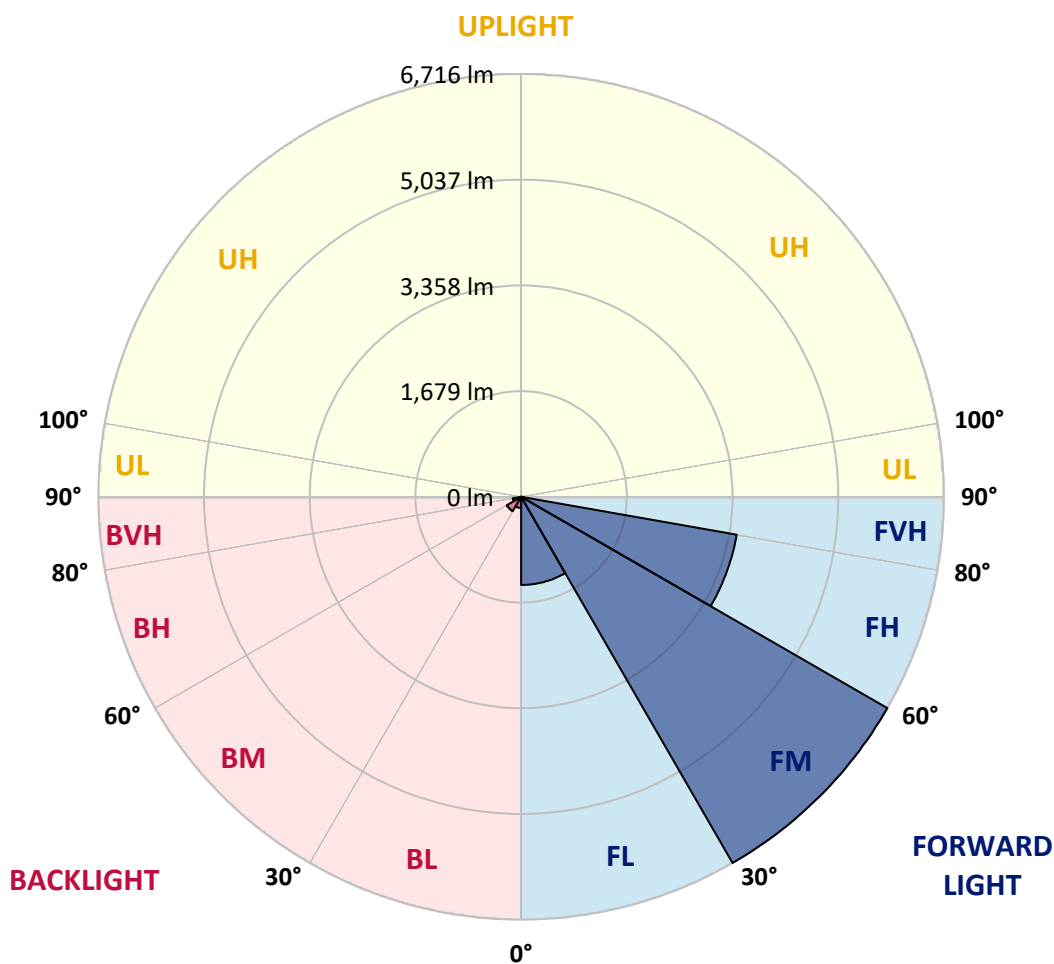
CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.8	11.5			
FM	(30°-60°)	6715.7	55.0			
FH	(60°-80°)	3475.9	28.5			G2/5000
FVH	(80°-90°)	43.0	0.4			G1/100
BL	(0°-30°)	176.6	1.4	B1/500		
BM	(30°-60°)	262.9	2.2	B1/1000		
BH	(60°-80°)	135.6	1.1	B1/500		G1/500
BVH	(80°-90°)	0.7	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 II Medium



REPORT NUMBER: P381191

CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	2234.1	2221.9	2209.7	2163.0	2120.3	2081.6	2008.5	1912.9	1827.5	1809.2	1709.6
5°	2624.4	2610.1	2591.9	2545.1	2490.3	2425.2	2317.4	2171.1	2020.6	1988.1	1803.1
7.5°	2888.6	2876.4	2850.0	2827.6	2772.8	2709.8	2589.9	2419.1	2211.7	2171.1	1910.8
10°	3069.6	3061.5	3057.4	3039.1	2998.4	2947.6	2827.6	2648.8	2404.8	2358.1	2024.7
12.5°	3134.7	3134.7	3154.9	3185.5	3191.6	3175.3	3065.5	2886.6	2608.1	2559.3	2158.9
15°	3047.2	3057.4	3102.1	3199.7	3301.4	3368.4	3299.3	3132.6	2831.7	2778.9	2317.4
17.5°	3022.8	3033.0	3063.5	3148.8	3285.1	3464.0	3498.5	3370.4	3043.1	2998.4	2480.1
20°	3091.9	3102.1	3128.6	3201.7	3305.4	3486.3	3630.6	3600.2	3266.8	3220.0	2644.7
22.5°	3256.6	3262.7	3262.7	3319.6	3411.1	3545.3	3714.0	3817.7	3496.5	3445.7	2807.4
25°	3610.3	3598.1	3549.3	3520.8	3579.8	3689.6	3819.7	4008.7	3752.6	3683.5	2982.1
27.5°	4073.8	4114.4	3996.6	3860.3	3815.6	3878.7	3968.1	4177.5	4000.7	3927.4	3140.8
30°	4701.9	4685.7	4531.2	4336.0	4142.9	4120.5	4151.1	4321.8	4248.6	4179.5	3317.6
32.5°	5218.3	5248.8	5086.1	4848.3	4559.6	4423.5	4390.9	4494.6	4512.9	4468.2	3526.9
35°	5748.9	5781.4	5622.8	5358.5	5015.0	4787.3	4693.9	4708.0	4840.2	4783.3	3746.5
37.5°	6224.5	6253.0	6096.4	5826.1	5482.6	5204.1	5069.9	4960.1	5157.3	5106.5	3978.3
40°	6586.4	6590.4	6484.7	6242.9	5917.6	5628.9	5476.5	5261.0	5492.7	5458.1	4220.1
42.5°	6842.6	6850.6	6773.4	6566.1	6265.2	5996.8	5872.9	5616.7	5879.0	5848.5	4500.7
45°	6962.4	6976.7	6968.5	6777.5	6527.4	6295.7	6255.1	5994.8	6301.8	6273.3	4823.9
47.5°	6848.6	6848.6	6952.3	6925.9	6696.1	6541.7	6588.4	6389.2	6761.2	6734.8	5153.2
50°	6375.0	6381.1	6592.5	6895.4	6761.2	6726.7	6873.0	6775.5	7177.9	7194.2	5547.6
52.5°	5130.8	5120.7	5834.2	6415.7	6716.5	6810.0	7135.2	7169.9	7678.0	7726.8	5939.9
55°	3834.0	3827.9	4510.9	5565.9	6403.5	6767.3	7281.6	7521.5	8104.9	8135.4	6232.7
57.5°	3035.0	3018.8	3394.9	4486.4	5696.0	6576.3	7287.7	7588.6	8342.8	8395.6	6517.3
60°	2333.7	2319.5	2600.0	3337.9	4693.9	6068.0	7112.9	7592.7	8572.4	8666.0	6899.5
62.5°	1669.0	1685.3	1900.7	2394.6	3610.3	5350.4	6885.2	7649.6	8981.1	9086.8	7442.2
65°	1126.2	1118.0	1297.0	1630.4	2567.5	4384.8	6535.5	7769.5	9717.0	9902.0	8092.7
67.5°	782.6	788.7	870.1	1061.1	1630.4	3366.4	5954.2	7836.6	10477.2	10621.6	8548.1
70°	565.1	573.2	617.9	713.5	996.1	2282.8	5033.3	7529.6	10682.5	10808.6	8231.0
72.5°	372.0	388.3	455.4	506.2	636.3	1429.1	3707.9	6486.8	9798.3	9891.8	6905.5
75°	201.2	205.3	292.8	378.1	453.4	890.3	2211.7	4374.7	7330.4	7299.9	4553.5
77.5°	156.5	162.6	181.0	270.4	304.9	489.9	874.1	1975.9	3472.1	3378.6	1553.1
80°	95.5	99.6	126.1	160.6	213.4	284.6	256.1	536.7	705.4	660.7	227.7
82.5°	56.9	61.0	75.2	134.2	168.7	134.2	89.4	130.1	132.2	130.1	56.9
85°	10.2	10.2	52.9	93.5	89.4	38.6	52.9	42.7	38.6	40.6	12.2
87.5°	0.0	0.0	20.4	28.4	40.6	14.3	20.4	10.2	10.2	10.2	6.1
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: P381191

CATALOG NUMBER: PRV-PA2B-8540-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	1648.6	1579.5	1437.2	1313.2	1189.2	1097.8	1028.6	957.5	933.1	902.6	886.3
5°	1677.1	1540.9	1258.4	1032.7	841.6	695.2	601.7	544.8	508.2	481.8	475.7
7.5°	1719.8	1510.4	1114.0	809.1	599.7	453.4	376.1	337.5	317.1	304.9	300.8
10°	1770.6	1483.9	971.7	630.2	422.8	319.2	276.5	260.2	252.0	248.0	245.9
12.5°	1841.8	1473.8	851.7	485.9	319.2	262.2	239.9	229.7	223.6	217.5	215.5
15°	1935.3	1477.8	742.0	376.1	264.3	233.8	215.5	205.3	197.2	191.1	191.1
17.5°	2032.8	1483.9	634.2	304.9	239.9	213.4	193.1	178.9	172.8	166.7	164.7
20°	2124.3	1481.9	530.6	260.2	217.5	191.1	170.8	156.5	146.3	140.2	140.2
22.5°	2211.7	1469.8	433.0	233.8	199.2	168.7	146.3	132.2	124.0	117.9	117.9
25°	2305.2	1445.3	353.7	213.4	176.9	148.4	126.1	111.8	105.7	99.6	99.6
27.5°	2378.4	1404.7	288.7	195.1	156.5	128.1	107.7	95.5	89.4	85.3	85.3
30°	2457.7	1345.7	239.9	174.8	136.2	109.8	91.5	81.3	75.2	73.2	73.2
32.5°	2545.1	1280.7	205.3	154.5	115.9	93.5	77.3	71.2	65.1	63.0	63.0
35°	2646.8	1223.8	185.0	134.2	101.6	79.3	67.1	61.0	56.9	56.9	56.9
37.5°	2762.7	1164.8	166.7	117.9	87.4	67.1	56.9	54.9	52.9	50.8	50.8
40°	2888.6	1101.8	150.4	103.7	75.2	56.9	48.8	48.8	46.7	46.7	46.7
42.5°	3031.0	1046.9	136.2	91.5	65.1	48.8	42.7	42.7	40.6	40.6	40.6
45°	3185.5	996.1	124.0	81.3	56.9	42.7	38.6	36.6	34.5	34.5	34.5
47.5°	3368.4	967.6	113.8	71.2	48.8	36.6	32.5	30.5	28.4	26.5	26.5
50°	3602.2	979.8	103.7	59.0	42.7	30.5	26.5	24.4	22.4	20.4	20.4
52.5°	3787.1	973.7	89.4	50.8	34.5	24.4	20.4	18.3	16.3	14.3	14.3
55°	3921.3	949.3	77.3	42.7	26.5	20.4	16.3	12.2	10.2	10.2	10.2
57.5°	4053.5	925.0	65.1	34.5	20.4	14.3	10.2	8.1	8.1	8.1	8.1
60°	4258.8	890.3	56.9	28.4	16.3	10.2	6.1	6.1	4.1	4.1	4.1
62.5°	4508.8	847.7	46.7	24.4	12.2	8.1	4.1	4.1	0.0	0.0	0.0
65°	4783.3	772.5	38.6	18.3	10.2	6.1	4.1	0.0	0.0	0.0	0.0
67.5°	4720.2	620.0	32.5	12.2	8.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4175.4	418.7	26.5	10.2	6.1	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	3270.8	248.0	18.3	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
75°	2093.8	124.0	12.2	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	701.3	61.0	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.6	20.4	4.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	8.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	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)