

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: P380871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15460.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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



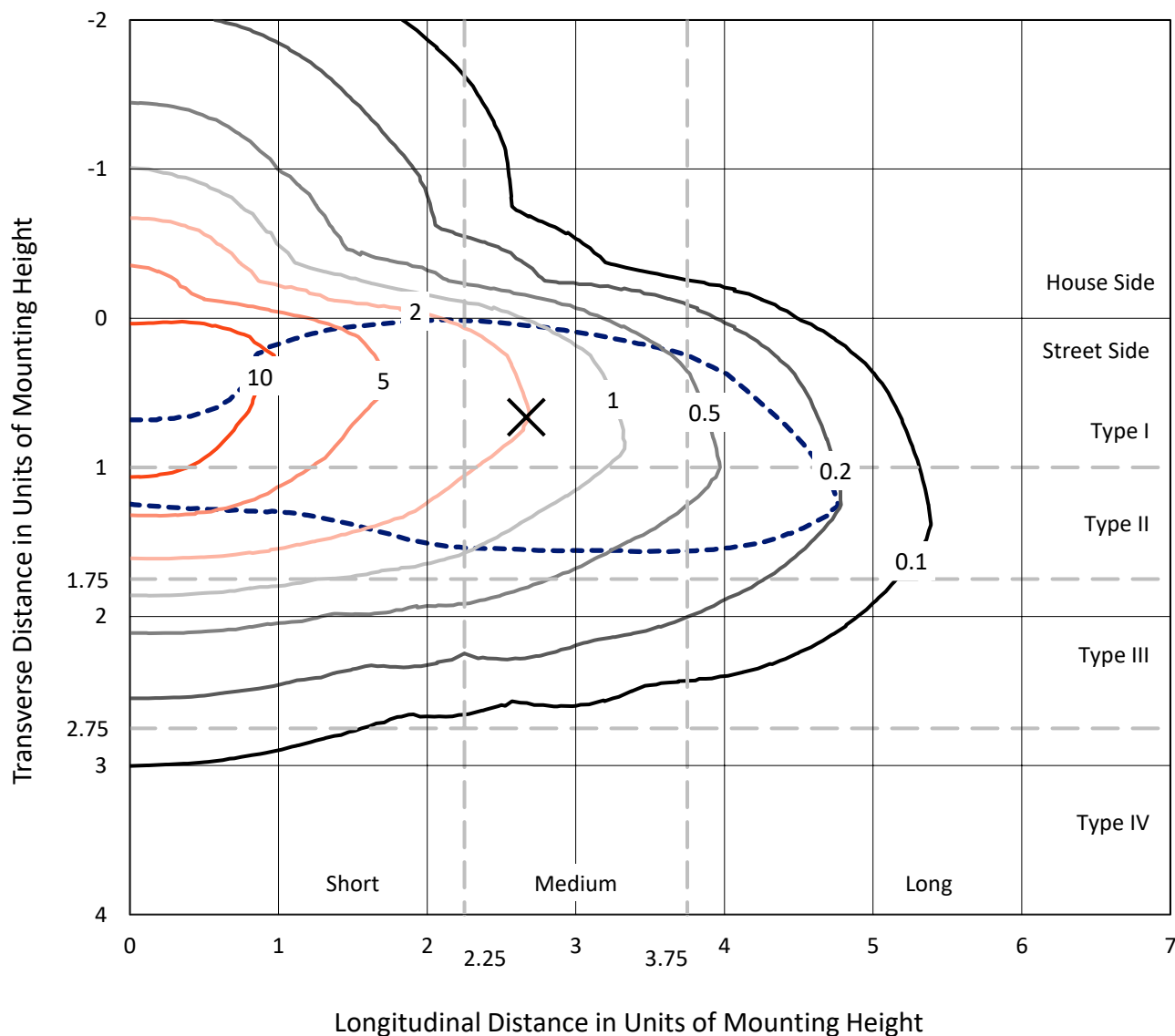
REPORT NUMBER: P380871

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

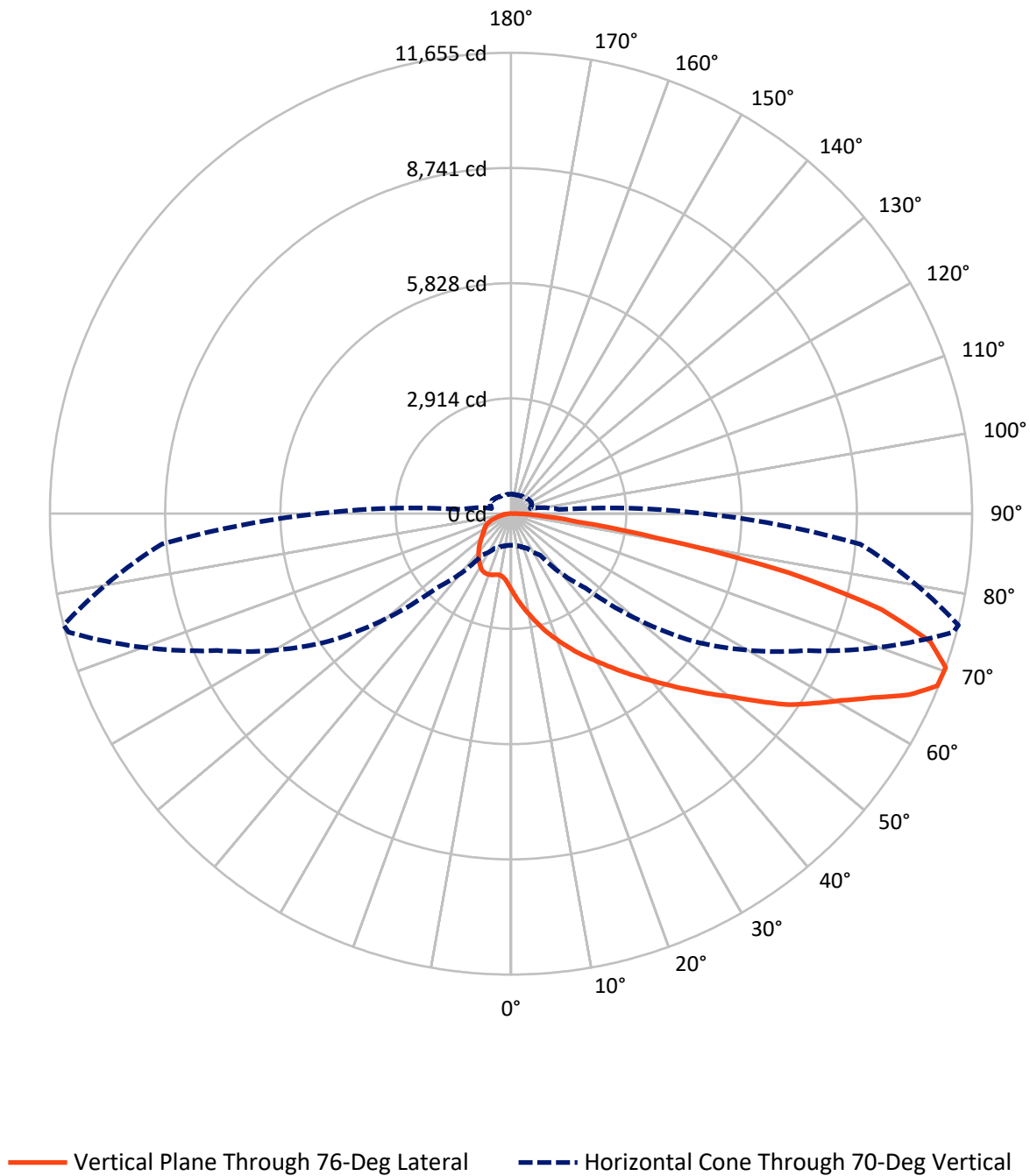


Based on 15 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P380871

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

Luminous Intensity Polar Plot



REPORT NUMBER: P380871

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

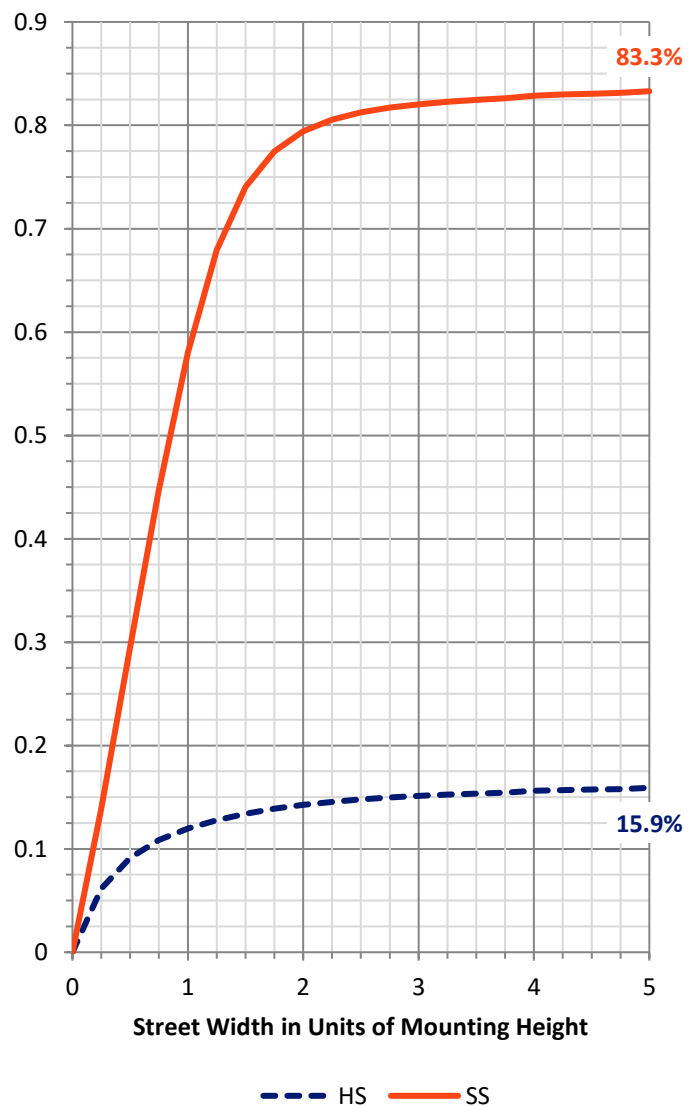
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.1	0.0	2524.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12936.3	0.0	12936.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	15460.3	0.0	15460.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.3
10°-20°	682.7	4.4
20°-30°	1221.5	7.9
30°-40°	1976.0	12.8
40°-50°	2858.6	18.5
50°-60°	3271.8	21.2
60°-70°	3009.7	19.5
70°-80°	1861.2	12.0
80°-90°	377.9	2.4
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°	15460.3	100.0
0°-180°	15460.3	100.0

Coefficient of Utilization



REPORT NUMBER: P380871

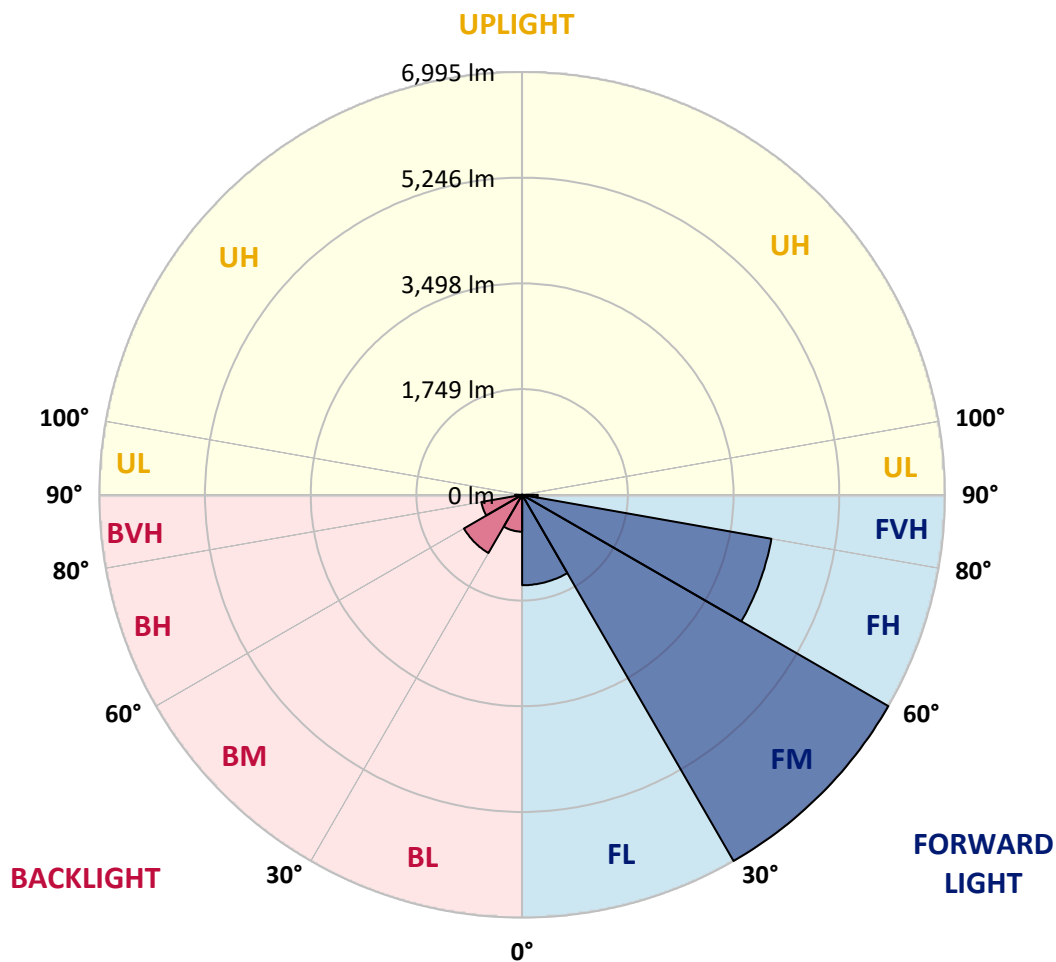
CATALOG NUMBER: PRV-PA2B-8540-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1495.5	9.7			
FM	(30°-60°)	6995.1	45.2			
FH	(60°-80°)	4186.2	27.1			G2/5000
FVH	(80°-90°)	259.5	1.7			G3/500
BL	(0°-30°)	609.6	3.9	B2/1000		
BM	(30°-60°)	1111.3	7.2	B2/2500		
BH	(60°-80°)	684.6	4.4	B2/1000		G2/1000
BVH	(80°-90°)	118.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



REPORT NUMBER: P380871

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4
2.5°	2464.0	2445.7	2443.7	2415.2	2388.8	2317.6	2266.8	2177.4	2087.9	2085.8	1996.4
5°	2848.2	2829.9	2819.7	2785.2	2740.5	2646.9	2555.5	2417.2	2264.7	2254.6	2085.8
7.5°	3108.4	3092.2	3071.9	3057.6	3014.9	2931.6	2819.7	2655.1	2445.7	2425.3	2189.5
10°	3283.3	3273.1	3269.0	3258.9	3232.5	3165.4	3057.6	2882.8	2626.7	2604.3	2299.4
12.5°	3358.5	3354.5	3372.8	3401.2	3411.4	3384.9	3281.2	3116.6	2825.8	2801.5	2431.4
15°	3271.1	3275.1	3322.0	3419.5	3523.2	3580.1	3519.1	3358.5	3051.5	3017.0	2585.9
17.5°	3230.4	3236.5	3269.0	3362.6	3508.9	3685.8	3714.3	3588.3	3269.0	3220.2	2748.6
20°	3301.6	3309.7	3334.1	3407.3	3508.9	3698.0	3846.4	3807.8	3482.5	3431.7	2905.2
22.5°	3482.5	3492.7	3490.7	3537.4	3606.6	3736.6	3919.6	4015.1	3706.2	3649.2	3067.8
25°	3868.8	3860.7	3791.5	3769.2	3787.4	3870.8	4017.2	4214.4	3940.0	3883.1	3238.6
27.5°	4393.3	4383.2	4257.1	4143.2	4041.6	4078.2	4155.5	4375.0	4177.8	4112.8	3401.2
30°	4954.4	4942.2	4795.9	4610.9	4385.2	4332.3	4322.2	4515.3	4417.7	4348.5	3574.0
32.5°	5501.3	5491.1	5334.6	5119.1	4808.0	4649.5	4551.9	4671.8	4690.1	4623.1	3763.1
35°	5999.3	5999.3	5865.2	5609.0	5257.3	5017.5	4856.9	4864.9	5003.2	4925.9	3978.6
37.5°	6442.6	6440.6	6294.1	6042.1	5704.6	5430.1	5230.9	5098.7	5302.1	5235.0	4204.2
40°	6794.2	6780.1	6672.3	6452.7	6113.2	5840.8	5639.6	5373.2	5635.5	5574.5	4444.2
42.5°	7050.4	7042.3	6969.1	6778.0	6454.7	6198.6	6060.3	5718.8	6013.6	5952.6	4724.7
45°	7150.0	7166.3	7166.3	6985.4	6729.3	6495.5	6434.5	6099.0	6422.2	6361.2	5025.6
47.5°	6989.4	7032.1	7119.6	7131.7	6906.1	6747.5	6767.9	6481.2	6843.1	6810.5	5354.9
50°	6487.3	6566.6	6757.7	7103.3	6977.2	6940.7	7052.5	6871.5	7294.4	7284.2	5755.4
52.5°	5192.3	5385.4	5981.1	6601.2	6928.5	7030.1	7335.1	7310.6	7875.8	7892.1	6277.9
55°	3982.7	4055.9	4745.0	5800.2	6629.6	7001.7	7524.2	7739.6	8506.0	8526.4	6757.7
57.5°	3220.2	3269.0	3645.2	4745.0	5948.5	6847.1	7672.5	7989.7	8989.9	9042.8	7184.7
60°	2551.4	2622.6	2874.6	3630.9	4995.1	6475.1	7776.2	8268.2	9510.4	9589.6	7694.9
62.5°	1896.8	1931.3	2169.2	2689.7	3954.2	5806.3	7721.3	8571.1	10148.7	10244.3	8308.9
65°	1349.9	1380.4	1549.2	1913.0	2923.5	4901.6	7402.2	8796.8	10949.7	11047.3	8926.9
67.5°	1010.4	1022.6	1118.1	1337.7	1969.9	3807.8	6755.6	8758.2	11535.2	11622.6	9174.9
70°	799.0	803.0	849.8	967.7	1280.8	2651.0	5623.3	8191.0	11577.9	11655.2	8861.8
72.5°	662.7	660.7	687.2	744.1	892.5	1677.2	4165.6	7137.8	11029.0	11081.9	7987.6
75°	546.8	550.9	569.2	601.7	681.1	1106.0	2699.8	5694.4	9729.9	9673.0	6702.8
77.5°	459.5	457.4	465.6	494.0	550.9	794.9	1581.7	4114.8	7211.0	7182.6	4399.4
80°	370.0	374.0	386.3	410.7	463.5	605.8	935.2	2567.7	3868.8	3765.1	2102.1
82.5°	248.1	286.7	311.1	339.5	400.5	447.2	593.7	1305.2	1730.1	1703.7	953.5
85°	117.9	156.5	231.8	264.3	325.3	280.5	402.5	622.1	866.1	855.9	343.6
87.5°	24.4	24.4	124.0	148.4	201.2	120.0	223.6	270.4	418.8	392.4	140.3
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: P380871

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4	1933.4
2.5°	1943.6	1888.7	1778.9	1691.4	1602.0	1551.2	1488.2	1457.6	1451.5	1435.3	1447.5
5°	1978.1	1870.4	1663.0	1526.8	1435.3	1390.6	1368.2	1360.1	1358.0	1354.0	1354.0
7.5°	2024.8	1860.2	1589.8	1451.5	1392.6	1378.4	1384.5	1396.6	1398.7	1402.7	1400.7
10°	2081.8	1862.2	1549.2	1433.3	1404.8	1406.8	1427.2	1443.5	1451.5	1457.6	1455.6
12.5°	2161.1	1886.6	1543.1	1445.5	1433.3	1441.4	1461.7	1478.0	1486.1	1488.2	1488.2
15°	2264.7	1937.5	1557.3	1471.9	1461.7	1467.8	1480.0	1486.1	1488.2	1486.1	1486.1
17.5°	2378.6	1998.5	1577.6	1488.2	1471.9	1465.8	1461.7	1455.6	1443.5	1435.3	1435.3
20°	2488.4	2053.3	1587.8	1486.1	1457.6	1433.3	1408.9	1378.4	1358.0	1341.7	1341.7
22.5°	2598.2	2104.2	1587.8	1463.7	1419.0	1372.3	1321.5	1272.7	1242.2	1221.8	1221.8
25°	2714.0	2152.9	1575.6	1425.1	1358.0	1290.9	1221.8	1160.9	1130.3	1110.0	1106.0
27.5°	2811.7	2181.4	1543.1	1370.2	1282.8	1197.4	1118.1	1055.1	1032.8	1014.5	1014.5
30°	2915.3	2199.7	1482.1	1299.1	1197.4	1099.9	1018.5	967.7	943.3	916.9	914.9
32.5°	3031.2	2211.9	1412.9	1223.8	1110.0	1006.3	937.3	896.5	843.7	815.3	811.2
35°	3165.4	2228.2	1339.7	1138.5	1022.6	929.1	888.4	821.4	770.5	746.1	744.1
37.5°	3307.7	2240.4	1260.5	1063.2	943.3	878.3	837.6	758.3	713.5	677.0	672.9
40°	3458.1	2240.4	1179.1	990.1	880.3	855.9	778.6	707.5	632.3	614.0	609.9
42.5°	3624.8	2236.3	1097.8	918.9	821.4	805.1	744.1	668.8	630.2	614.0	609.9
45°	3801.7	2222.1	1020.6	837.6	760.4	727.8	681.1	660.7	644.5	644.5	644.5
47.5°	4003.0	2209.9	933.2	764.4	715.6	679.0	644.5	632.3	630.2	636.3	642.5
50°	4261.2	2205.8	860.0	711.5	681.1	638.4	634.3	624.1	626.2	626.2	626.2
52.5°	4574.2	2169.2	790.8	672.9	646.5	595.7	607.8	618.0	622.1	620.1	618.0
55°	4803.9	2104.2	731.9	646.5	622.1	579.4	595.7	611.9	616.0	609.9	609.9
57.5°	5011.4	2012.7	685.1	626.2	605.8	569.2	587.6	603.8	599.7	597.7	595.7
60°	5249.2	1925.2	648.6	616.0	589.6	565.2	581.5	591.6	585.5	581.5	579.4
62.5°	5507.4	1839.9	622.1	616.0	577.4	563.1	575.3	579.4	567.2	563.1	563.1
65°	5627.3	1705.7	593.7	616.0	571.3	559.1	563.1	559.1	546.8	546.8	544.8
67.5°	5430.1	1484.1	557.0	607.8	579.4	553.0	544.8	538.8	524.5	524.5	520.5
70°	4885.3	1219.8	504.2	581.5	581.5	550.9	520.5	506.2	489.9	496.0	487.9
72.5°	4173.8	967.7	439.1	536.7	569.2	548.9	494.0	471.7	457.4	463.5	451.3
75°	3380.8	750.2	361.9	465.6	538.8	538.8	467.6	437.1	420.9	420.9	406.6
77.5°	2155.0	555.0	294.8	386.3	483.8	524.5	445.2	398.5	374.0	368.0	357.8
80°	1067.3	390.3	241.9	307.0	412.7	492.0	428.9	353.8	319.2	307.0	288.7
82.5°	567.2	270.4	193.2	239.9	329.3	443.2	408.6	305.0	262.2	244.0	223.6
85°	254.2	166.7	154.5	183.0	250.1	363.9	368.0	250.1	201.2	239.9	176.9
87.5°	93.5	75.2	75.2	93.5	144.3	152.5	260.2	160.6	128.1	87.4	69.1
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)