

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: P381319

Luminaire Tested: **PRV-PA2B-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11018.4 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - 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

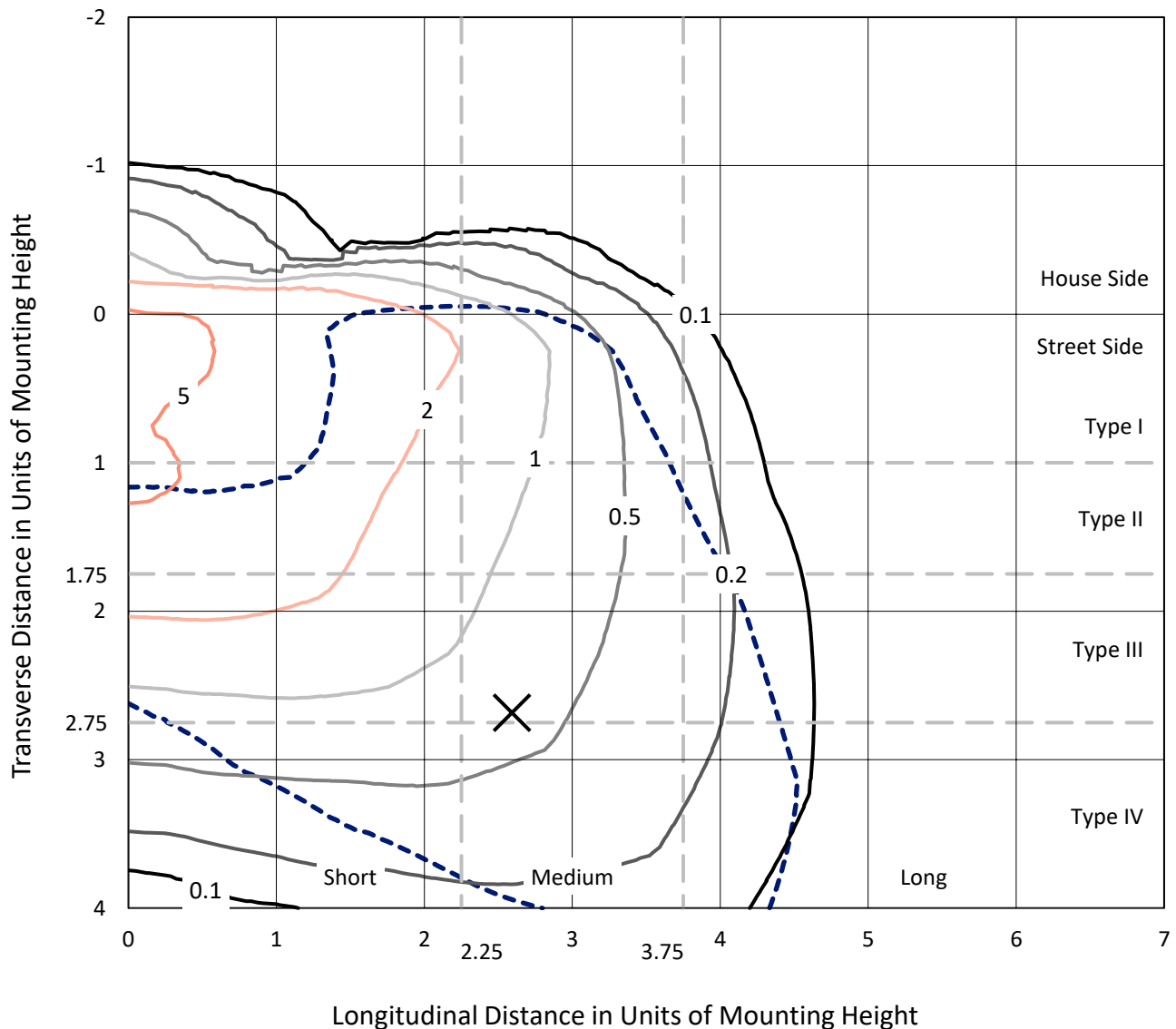


REPORT NUMBER: P381319

CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

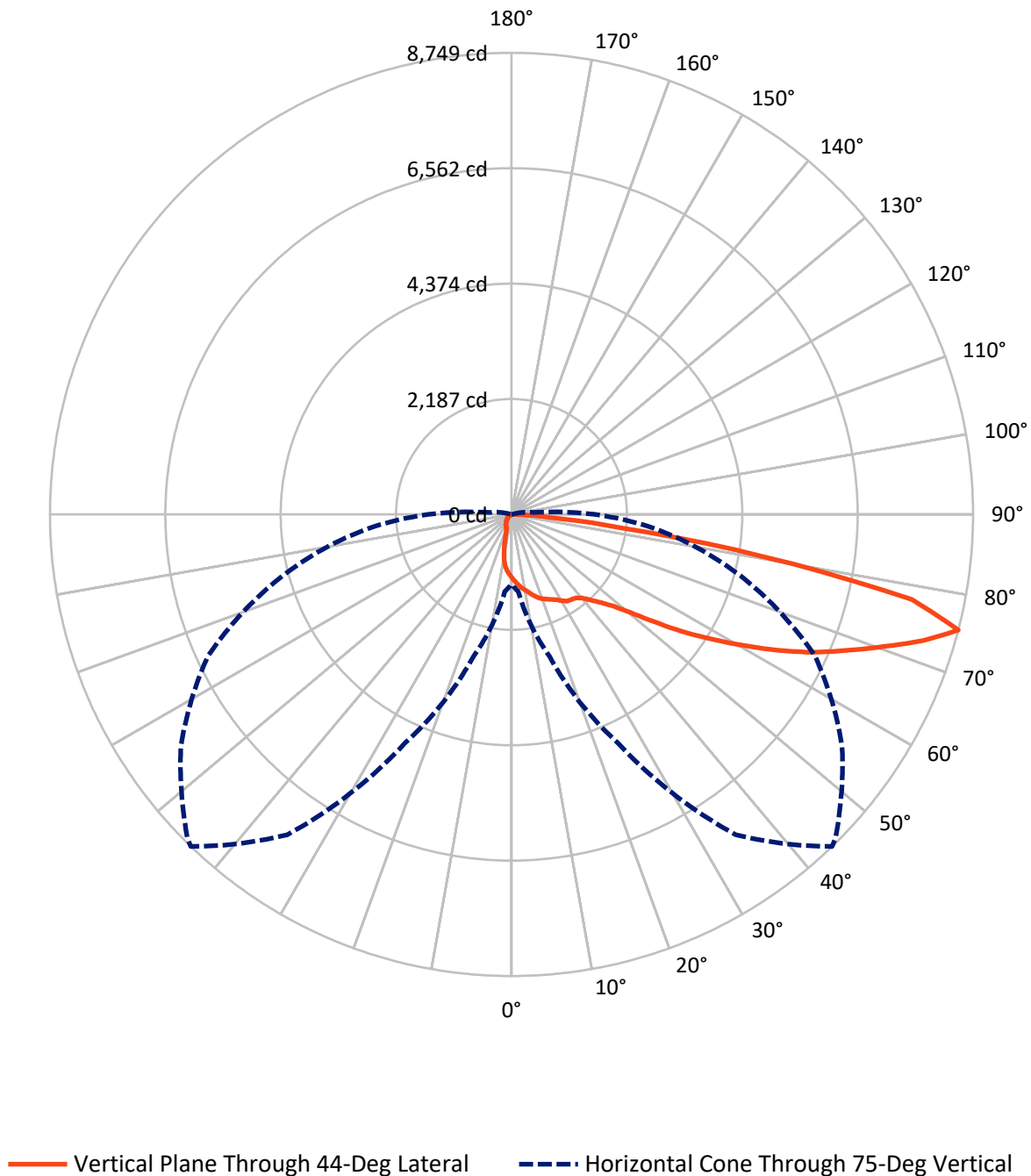


Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Medium - N/A

REPORT NUMBER: P381319

CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381319

CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

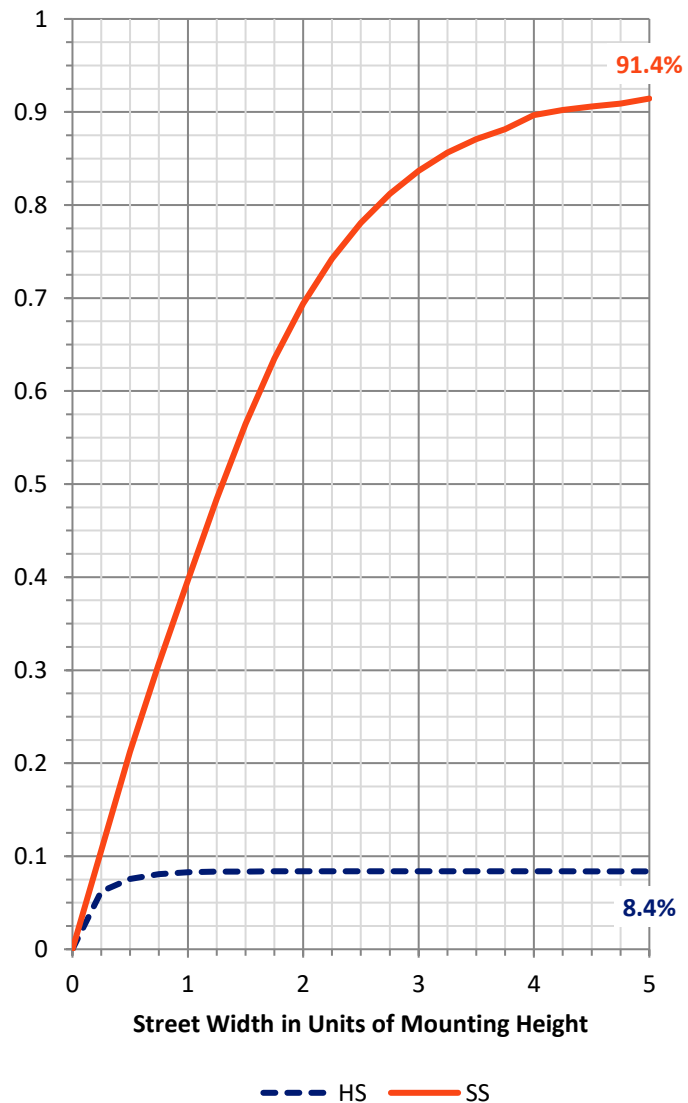
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.2	0.0	929.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10089.2	0.0	10089.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	11018.4	0.0	11018.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.0
10°-20°	316.9	2.9
20°-30°	523.0	4.7
30°-40°	759.1	6.9
40°-50°	1234.0	11.2
50°-60°	2175.4	19.7
60°-70°	3126.5	28.4
70°-80°	2503.6	22.7
80°-90°	266.7	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°	11018.4	100.0
0°-180°	11018.4	100.0

Coefficient of Utilization



REPORT NUMBER: P381319

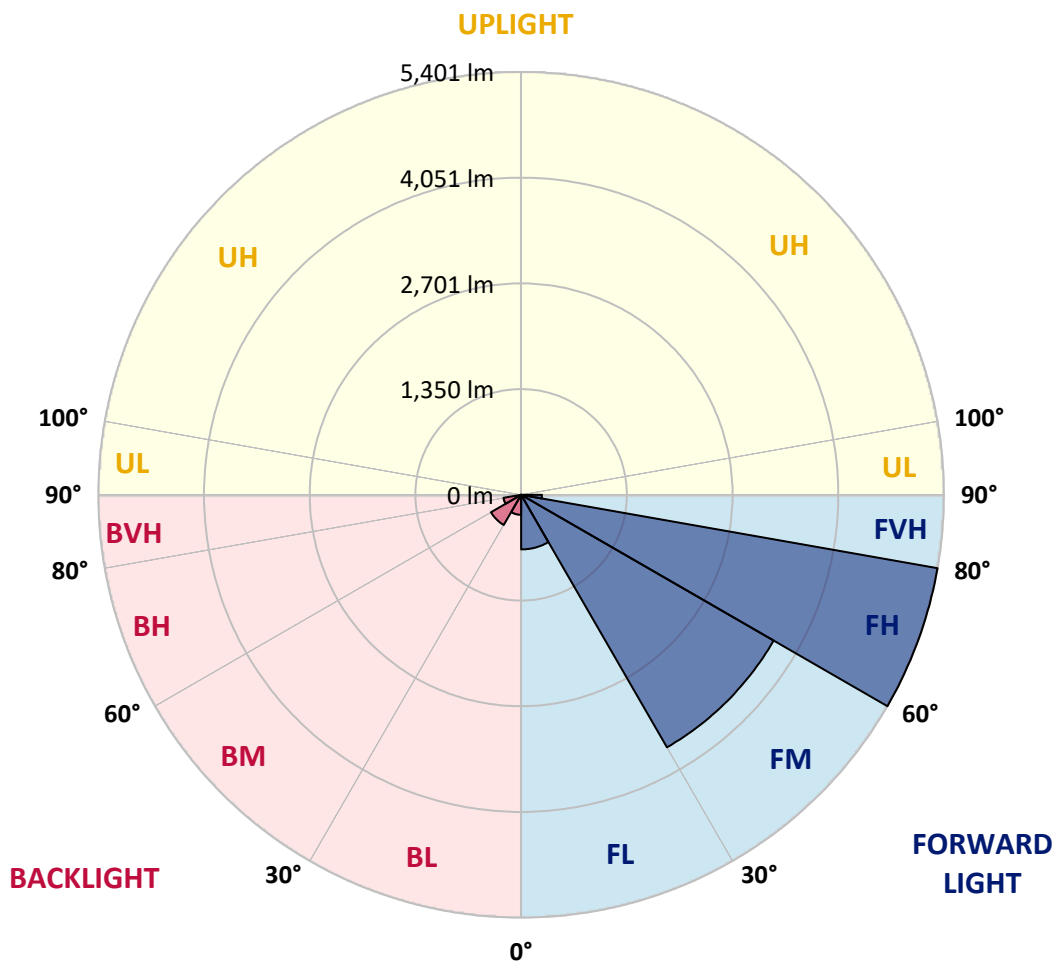
CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.8	6.3			
FM	(30°-60°)	3724.3	33.8			
FH	(60°-80°)	5401.0	49.0			G3/7500
FVH	(80°-90°)	266.1	2.4			G3/500
BL	(0°-30°)	255.3	2.3	B1/500		
BM	(30°-60°)	444.2	4.0	B1/1000		
BH	(60°-80°)	229.1	2.1	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-G3

Type IV Medium



REPORT NUMBER: P381319

CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1307.1	1305.0	1298.9	1288.7	1278.6	1268.5	1266.4	1250.1	1231.8	1217.6	1205.4
5°	1422.9	1420.9	1410.7	1388.3	1366.0	1339.6	1337.5	1298.9	1264.4	1225.7	1193.2
7.5°	1542.8	1538.8	1520.5	1485.9	1447.3	1406.7	1402.6	1345.7	1294.8	1244.0	1197.3
10°	1636.3	1632.2	1605.9	1565.2	1512.4	1461.5	1455.4	1396.5	1345.7	1280.6	1217.6
12.5°	1727.8	1719.7	1685.1	1640.4	1575.4	1526.6	1520.5	1459.5	1398.5	1331.4	1254.2
15°	1813.2	1803.0	1770.5	1713.6	1644.5	1597.7	1593.6	1528.6	1465.6	1388.3	1303.0
17.5°	1872.2	1868.1	1829.5	1766.4	1699.3	1660.7	1656.7	1589.6	1526.6	1445.3	1353.8
20°	1902.6	1902.6	1866.0	1796.9	1735.9	1709.5	1703.4	1640.4	1579.4	1502.2	1406.7
22.5°	1908.7	1914.8	1886.4	1811.2	1766.4	1744.1	1740.0	1685.1	1626.2	1555.0	1465.6
25°	1920.9	1920.9	1906.7	1825.4	1792.8	1786.7	1784.8	1735.9	1683.1	1612.0	1524.6
27.5°	1935.2	1935.2	1925.0	1845.7	1833.6	1831.5	1829.5	1807.1	1764.4	1681.1	1593.6
30°	1971.8	1973.8	1965.6	1886.4	1878.3	1900.6	1904.6	1892.4	1839.6	1735.9	1664.8
32.5°	2063.2	2045.0	2022.6	1914.8	1929.1	1957.5	1959.5	1935.2	1878.3	1794.9	1750.2
35°	2292.9	2185.2	2083.6	1939.3	1945.3	1973.8	1977.9	1975.8	1941.3	1870.1	1847.7
37.5°	2506.4	2353.9	2209.5	1996.1	1975.8	2006.3	2014.4	2049.0	2022.6	1973.8	1979.9
40°	2630.3	2571.4	2469.7	2152.6	2036.8	2083.6	2091.7	2144.6	2134.4	2114.0	2152.6
42.5°	3012.5	3016.6	2906.8	2386.4	2148.6	2223.8	2234.0	2276.7	2290.9	2301.1	2394.6
45°	3455.6	3469.9	3443.4	2807.2	2360.0	2384.4	2398.6	2455.6	2508.4	2573.4	2744.2
47.5°	3988.2	3976.0	3878.4	3321.5	2727.9	2591.7	2601.9	2711.7	2803.1	2945.4	3189.3
50°	4459.8	4490.3	4305.3	3801.2	3246.2	2919.0	2908.8	3016.6	3181.3	3380.4	3687.4
52.5°	4935.5	4890.8	4640.7	4276.8	3860.1	3364.2	3333.7	3392.6	3624.4	3860.1	4175.2
55°	5061.5	5065.5	4980.2	4797.2	4372.4	3904.9	3854.1	3850.0	4138.6	4299.2	4687.4
57.5°	5309.4	5319.6	5340.0	5376.5	5175.3	4445.6	4392.7	4335.8	4616.3	4709.8	5201.8
60°	5561.6	5573.7	5697.7	5894.9	5760.8	5029.0	4972.0	4837.9	4994.4	5120.4	5742.4
62.5°	5529.0	5614.4	5974.2	6366.5	6350.2	5669.3	5598.1	5274.9	5374.5	5484.3	6238.5
65°	4992.4	5083.9	5892.9	6496.6	6941.8	6301.4	6185.6	5726.2	5732.3	5864.4	6716.1
67.5°	4512.7	4612.3	5384.7	6441.7	7332.0	6868.6	6748.7	6179.5	6084.0	6303.5	6972.2
70°	4236.2	4335.8	4980.2	6271.0	7441.8	7496.7	7393.0	6697.9	6502.7	6704.0	6685.6
72.5°	3315.4	3471.9	4463.9	5945.7	7559.7	8169.5	8088.2	7354.4	6858.5	6285.2	5090.0
75°	1321.2	1465.6	2786.9	4785.1	7411.3	8748.9	8685.8	7649.1	6348.2	4488.2	2606.0
77.5°	398.4	426.9	774.5	2366.1	5433.5	7756.9	7736.6	6431.6	4492.3	2083.6	711.4
80°	132.1	146.3	237.8	652.5	2479.9	4846.0	4937.5	4098.0	2040.9	477.7	144.3
82.5°	54.9	61.0	120.0	262.2	878.1	2087.6	2057.1	1835.6	711.4	296.8	52.9
85°	14.3	18.3	54.9	150.4	321.2	719.6	756.1	615.9	402.5	245.9	16.3
87.5°	0.0	0.0	26.4	61.0	144.3	217.5	227.7	187.0	227.7	184.9	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: P381319

CATALOG NUMBER: PRV-PA2B-8540-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1195.2	1185.1	1166.7	1154.6	1138.3	1134.3	1126.1	1115.9	1113.9	1103.8	1105.8
5°	1174.9	1158.7	1126.1	1103.8	1077.3	1069.2	1055.0	1044.8	1036.7	1022.4	1024.5
7.5°	1170.8	1146.5	1101.8	1059.1	1016.3	985.9	943.2	908.6	880.2	849.7	855.7
10°	1185.1	1154.6	1091.6	1032.6	955.4	857.8	746.0	672.8	636.3	599.6	603.7
12.5°	1213.6	1176.9	1095.7	1006.2	849.7	683.0	528.5	428.9	402.5	386.3	388.3
15°	1256.2	1211.5	1107.9	955.4	707.4	493.9	351.6	309.0	319.2	325.3	325.3
17.5°	1301.0	1250.1	1118.0	863.9	546.8	345.5	286.6	282.6	296.8	311.0	311.0
20°	1355.8	1290.8	1120.0	748.1	394.3	280.5	270.4	270.4	280.5	296.8	296.8
22.5°	1408.7	1335.5	1101.8	615.9	300.8	260.2	260.2	260.2	266.3	282.6	284.6
25°	1471.7	1390.4	1063.1	475.7	258.2	248.0	248.0	250.0	254.1	268.3	270.4
27.5°	1538.8	1447.3	998.1	347.6	235.8	233.7	235.8	237.8	239.8	254.1	258.2
30°	1616.0	1510.3	914.7	260.2	215.5	215.5	221.6	225.7	225.7	237.8	241.9
32.5°	1705.5	1593.6	815.1	215.5	195.1	193.1	203.3	209.4	209.4	219.6	223.6
35°	1817.3	1679.1	695.2	191.1	178.9	174.8	178.9	189.0	193.1	201.2	203.3
37.5°	1965.6	1780.7	567.1	176.9	166.7	158.6	158.6	160.6	168.7	176.9	178.9
40°	2154.7	1892.4	441.1	166.7	154.5	146.3	140.2	138.2	136.2	142.3	146.3
42.5°	2392.5	2018.5	329.3	156.5	144.3	132.1	124.0	115.9	105.7	103.7	105.7
45°	2697.4	2173.0	243.9	148.4	138.2	120.0	105.7	91.5	73.2	67.1	69.1
47.5°	3057.2	2333.6	191.1	140.2	134.1	105.7	87.4	63.0	44.7	40.6	42.7
50°	3439.4	2488.1	162.6	130.1	126.1	91.5	63.0	38.6	26.4	26.4	28.4
52.5°	3764.6	2575.4	148.4	122.0	113.8	75.2	40.6	22.4	16.3	16.3	18.3
55°	4079.7	2622.2	138.2	113.8	97.6	52.9	22.4	14.3	10.2	10.2	10.2
57.5°	4404.9	2642.5	126.1	103.7	77.3	32.5	12.2	8.1	6.1	6.1	6.1
60°	4693.5	2603.9	107.7	85.3	50.8	16.3	6.1	6.1	4.1	2.0	2.0
62.5°	4935.5	2530.7	75.2	61.0	30.5	8.1	4.1	2.0	0.0	0.0	0.0
65°	5083.9	2412.8	48.8	40.6	18.3	6.1	2.0	0.0	0.0	0.0	0.0
67.5°	5041.2	2191.3	30.5	26.4	8.1	4.1	2.0	0.0	0.0	0.0	0.0
70°	4549.2	1796.9	22.4	16.3	6.1	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	3278.8	1215.6	16.3	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1577.4	433.0	10.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.3	95.5	6.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.3	18.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	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)