

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: P381127

Luminaire Tested: **PRV-PA2B-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15443.9 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

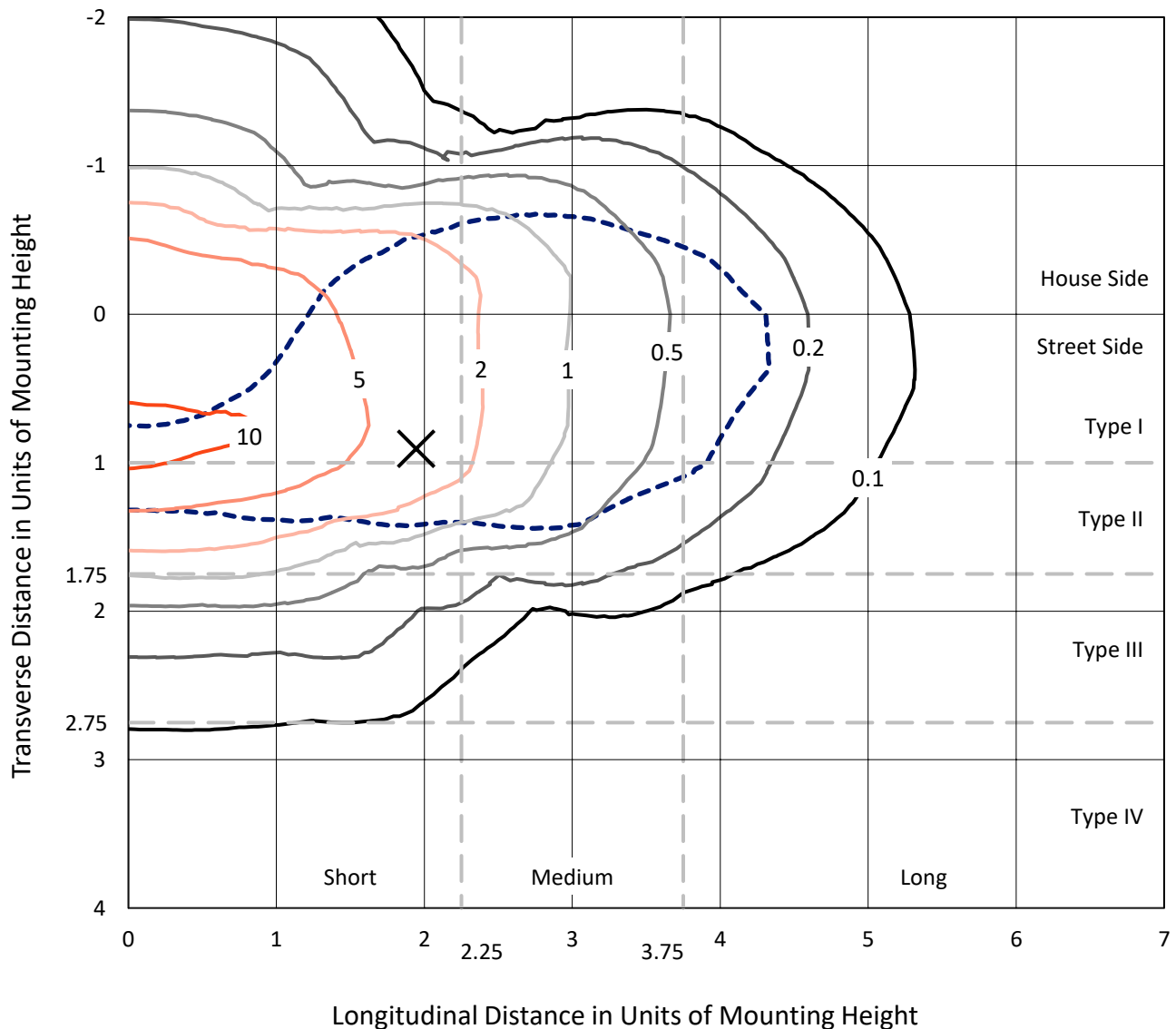


REPORT NUMBER: P381127

CATALOG NUMBER: PRV-PA2B-8540-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

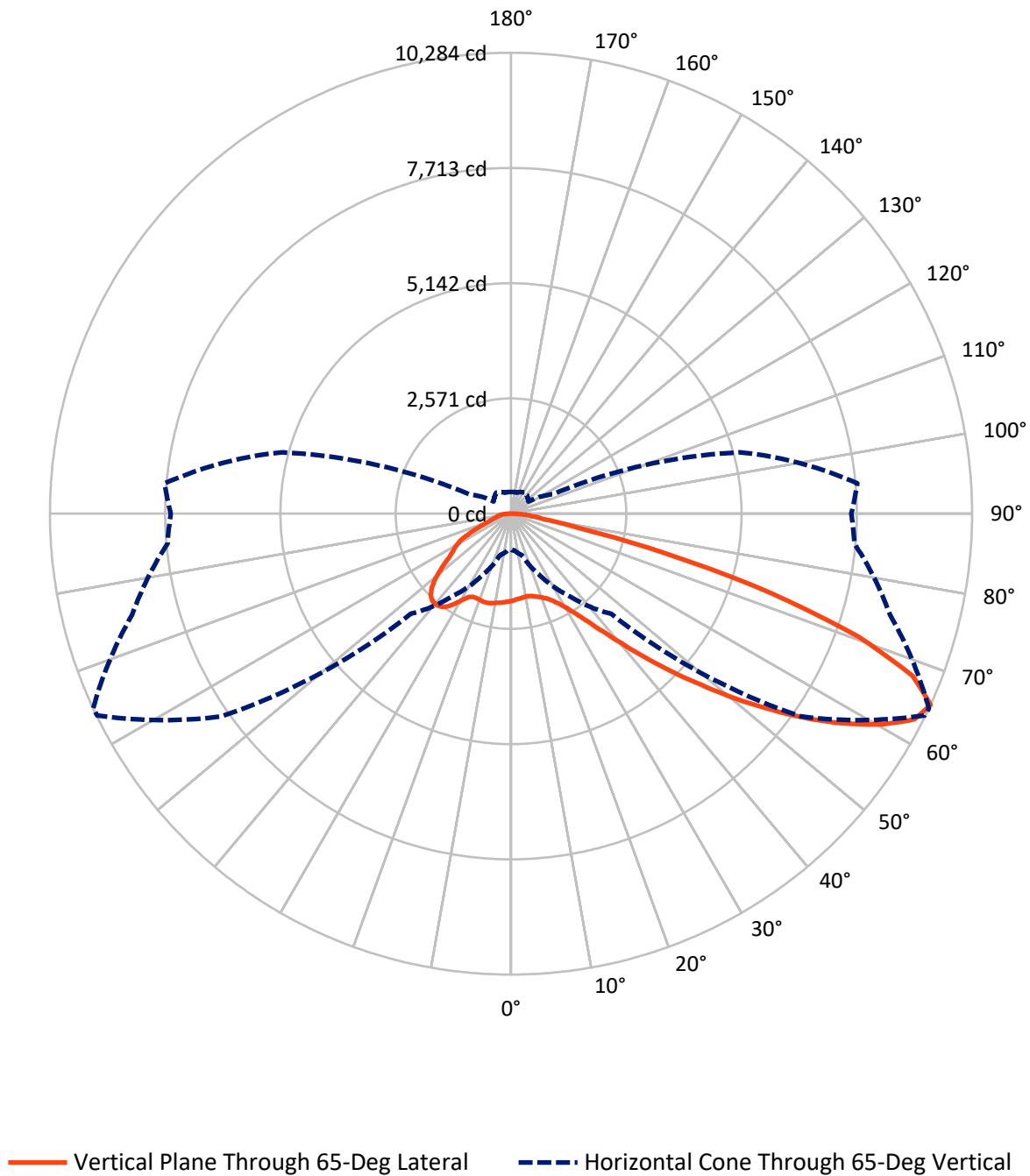


Based on 15 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

REPORT NUMBER: P381127

CATALOG NUMBER: PRV-PA2B-8540-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P381127

CATALOG NUMBER: PRV-PA2B-8540-U-T2U

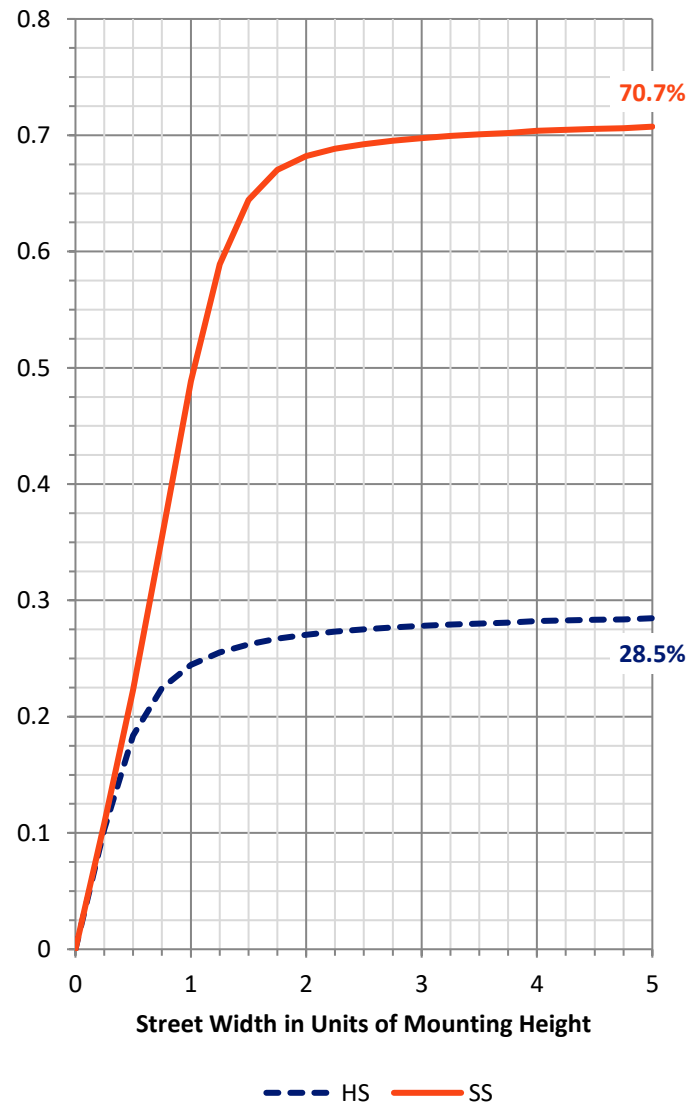
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4465.0	0.0	4465.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	10978.8	0.0	10978.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	15443.9	0.0	15443.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	1.2
10°-20°	555.1	3.6
20°-30°	986.0	6.4
30°-40°	1668.0	10.8
40°-50°	2903.8	18.8
50°-60°	3752.6	24.3
60°-70°	3283.7	21.3
70°-80°	1786.1	11.6
80°-90°	322.7	2.1
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°	15443.9	100.0
0°-180°	15443.9	100.0

Coefficient of Utilization



REPORT NUMBER: P381127

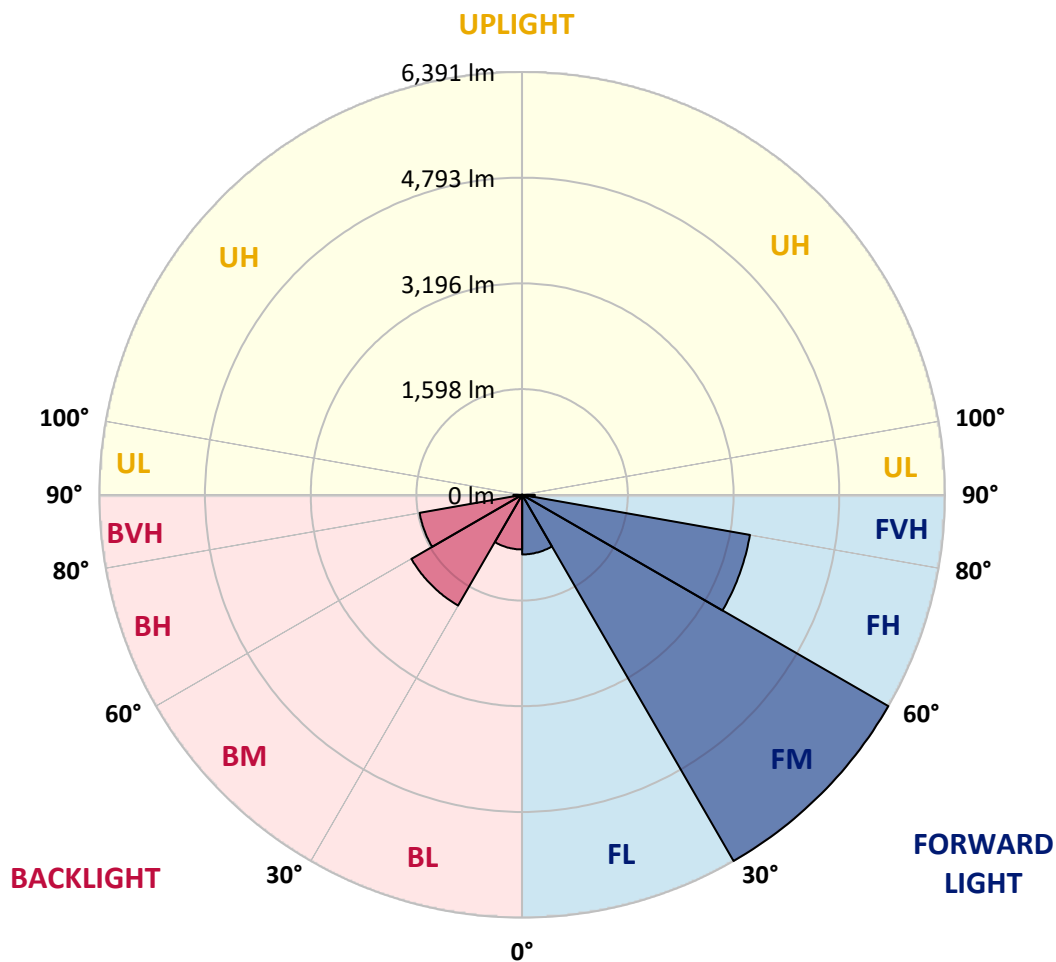
CATALOG NUMBER: PRV-PA2B-8540-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.1	5.8			
FM	(30°-60°)	6391.1	41.4			
FH	(60°-80°)	3496.7	22.6			G2/5000
FVH	(80°-90°)	189.9	1.2			G2/225
BL	(0°-30°)	825.9	5.3	B2/1000		
BM	(30°-60°)	1933.3	12.5	B2/2500		
BH	(60°-80°)	1573.1	10.2	B3/2500		G3/2500
BVH	(80°-90°)	132.8	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P381127

CATALOG NUMBER: PRV-PA2B-8540-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	1916.9	1914.9	1910.8	1914.9	1916.9	1921.0	1919.0	1923.0	1921.0	1927.1	1937.2
5°	1868.2	1864.1	1862.1	1872.2	1878.3	1888.4	1892.5	1906.8	1904.7	1914.9	1931.2
7.5°	1813.3	1813.3	1811.2	1823.5	1831.5	1849.8	1864.1	1888.4	1890.5	1908.8	1927.1
10°	1770.6	1772.6	1770.6	1780.7	1792.9	1815.3	1839.7	1874.3	1876.3	1902.7	1921.0
12.5°	1754.3	1754.3	1754.3	1768.6	1784.8	1815.3	1843.7	1880.4	1884.4	1912.9	1929.2
15°	1776.6	1778.7	1774.7	1788.8	1807.2	1843.7	1870.2	1908.8	1912.9	1939.3	1949.4
17.5°	1855.9	1864.1	1853.9	1862.1	1858.0	1886.4	1910.8	1949.4	1951.5	1973.9	1977.9
20°	2012.5	2020.6	2004.3	1994.1	1957.6	1955.5	1965.7	1996.2	1996.2	2010.4	2000.3
22.5°	2254.3	2262.5	2234.1	2195.5	2108.0	2065.3	2042.9	2057.2	2055.1	2061.2	2034.9
25°	2575.5	2573.5	2539.0	2467.8	2327.5	2223.9	2169.0	2146.6	2146.6	2134.5	2101.9
27.5°	2974.0	2943.5	2882.5	2797.1	2602.0	2457.7	2339.8	2282.8	2272.7	2236.1	2175.1
30°	3398.8	3376.5	3289.1	3165.0	2939.5	2754.4	2559.3	2445.5	2439.4	2360.0	2268.6
32.5°	3898.9	3862.3	3764.7	3616.4	3346.0	3085.8	2841.8	2669.1	2658.9	2532.8	2406.9
35°	4541.2	4510.8	4321.7	4173.3	3825.7	3484.2	3195.6	2965.8	2957.7	2803.2	2642.6
37.5°	5311.7	5232.4	5049.5	4771.0	4405.1	4000.6	3634.6	3346.0	3335.8	3165.0	2961.8
40°	5998.8	5927.6	5765.0	5508.9	5116.5	4667.3	4171.3	3821.7	3811.5	3604.1	3348.0
42.5°	6507.0	6458.2	6352.5	6204.1	5923.6	5651.1	4856.3	4396.9	4378.6	4110.3	3791.1
45°	6801.8	6763.1	6702.2	6738.7	6734.7	6683.8	5673.5	5082.0	5023.0	4675.4	4285.1
47.5°	6730.6	6696.1	6720.4	7005.0	7397.3	7692.1	6624.9	5783.3	5704.0	5250.7	4811.6
50°	6216.3	6230.5	6358.6	6903.4	7783.6	8438.2	7679.9	6582.2	6476.5	5830.1	5311.7
52.5°	5279.1	5313.8	5624.8	6387.0	7740.9	8922.0	8633.3	7407.5	7267.3	6395.2	5767.0
55°	4193.7	4281.1	4683.6	5484.5	7183.9	8956.5	9352.9	8236.9	8082.4	6925.7	6163.5
57.5°	3102.0	3232.1	3697.6	4433.5	6116.7	8409.7	9712.7	9029.7	8842.7	7452.2	6582.2
60°	1967.8	2047.0	2583.7	3451.7	4681.6	7072.1	9666.0	9704.6	9542.0	7976.7	7019.3
62.5°	1256.2	1294.9	1565.2	2461.8	3272.8	5236.5	9155.7	10214.8	10105.0	8454.4	7434.0
65°	807.0	823.2	961.5	1514.4	2227.9	3161.0	7885.2	10269.7	10283.9	8753.2	7690.1
67.5°	656.6	664.7	715.5	935.1	1575.4	1746.2	5492.6	9489.1	9661.9	8676.0	7602.7
70°	597.7	607.8	660.7	746.0	1219.7	1205.4	2658.9	7940.1	8222.7	8230.8	7214.4
72.5°	504.1	518.3	589.5	705.4	943.2	951.3	1126.2	5655.2	6071.9	7356.7	6631.0
75°	420.8	428.9	489.9	622.0	798.9	760.3	790.8	2998.3	3600.1	5899.2	6011.0
77.5°	341.5	349.6	394.4	496.0	709.5	591.6	622.0	1242.1	1534.8	4004.6	4913.2
80°	243.9	252.0	302.9	386.3	536.7	532.6	461.4	685.0	744.0	2164.9	3191.5
82.5°	174.8	181.0	229.7	276.5	372.0	534.6	347.6	465.5	487.9	959.5	1286.8
85°	117.9	117.9	158.6	183.0	239.8	337.5	280.5	315.1	329.3	455.3	347.6
87.5°	50.8	50.8	85.3	93.5	126.1	156.5	209.4	158.6	162.6	245.9	142.3
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: P381127

CATALOG NUMBER: PRV-PA2B-8540-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5	1951.5
2.5°	1943.3	1945.4	1949.4	1961.6	1969.8	1982.0	1988.0	1996.2	1996.2	1992.1	1994.1
5°	1939.3	1945.4	1959.6	1982.0	1996.2	2018.6	2034.9	2047.0	2051.1	2047.0	2049.0
7.5°	1937.2	1947.4	1971.8	2004.3	2024.7	2053.1	2075.5	2089.7	2099.8	2095.8	2097.8
10°	1931.2	1947.4	1977.9	2018.6	2049.0	2077.5	2097.8	2103.9	2110.0	2106.0	2103.9
12.5°	1939.3	1957.6	1990.1	2038.9	2073.5	2095.8	2101.9	2091.8	2077.5	2069.4	2067.4
15°	1955.5	1973.9	2006.4	2057.2	2087.7	2095.8	2081.6	2049.0	2016.5	1998.2	1996.2
17.5°	1977.9	1990.1	2016.5	2061.2	2085.7	2075.5	2047.0	2008.4	1984.0	1969.8	1971.8
20°	1992.1	1992.1	2012.5	2047.0	2067.4	2059.2	2024.7	1982.0	1943.3	1925.1	1919.0
22.5°	2012.5	2002.3	2004.3	2034.9	2063.3	2051.1	1977.9	1902.7	1847.8	1827.5	1825.5
25°	2067.4	2038.9	2020.6	2038.9	2106.0	2006.4	1860.0	1772.6	1721.8	1703.5	1705.5
27.5°	2134.5	2095.8	2057.2	2087.7	2140.6	1904.7	1709.6	1610.0	1579.5	1565.2	1571.3
30°	2201.5	2150.7	2099.8	2209.6	2116.1	1746.2	1516.4	1418.9	1392.5	1382.3	1390.5
32.5°	2325.5	2242.2	2181.2	2372.3	2040.9	1565.2	1307.1	1217.6	1193.2	1181.1	1177.0
35°	2532.8	2427.1	2366.1	2514.6	1935.2	1364.0	1116.0	1053.0	1026.6	1000.1	996.1
37.5°	2831.7	2703.6	2648.7	2595.9	1786.8	1164.8	969.7	927.0	888.3	847.7	845.6
40°	3189.5	3022.8	2982.1	2632.4	1581.5	977.8	868.0	827.3	778.5	739.9	742.0
42.5°	3602.1	3388.7	3301.3	2622.3	1327.4	878.1	794.8	750.1	707.4	672.8	670.8
45°	4043.3	3801.3	3600.1	2551.2	1075.4	809.1	750.1	697.3	654.6	615.9	611.8
47.5°	4531.1	4260.8	3876.6	2412.9	888.3	760.3	723.6	648.5	609.8	585.4	585.4
50°	5023.0	4699.8	4130.6	2203.5	778.5	723.6	685.0	622.0	591.6	571.2	571.2
52.5°	5443.8	5157.2	4340.0	1953.5	709.5	693.2	658.7	609.8	577.3	559.0	556.9
55°	5852.5	5582.1	4527.1	1705.5	652.6	652.6	652.6	599.7	563.1	546.8	544.8
57.5°	6259.0	6029.3	4722.2	1542.9	601.7	617.9	640.3	587.5	550.9	536.7	534.6
60°	6718.4	6565.9	4947.9	1429.1	556.9	581.4	624.1	573.2	530.6	518.3	516.3
62.5°	7206.3	7206.3	5153.2	1268.5	516.3	550.9	599.7	555.0	512.2	502.1	500.1
65°	7588.4	7753.1	5285.2	1028.6	475.7	520.4	571.2	530.6	487.9	485.9	481.8
67.5°	7633.2	7891.3	5201.9	776.5	439.1	487.9	542.8	504.1	463.5	463.5	457.4
70°	7312.0	7574.2	4941.7	581.4	412.6	455.3	506.1	471.6	433.0	437.1	426.9
72.5°	6775.3	6840.4	4295.3	459.4	382.2	420.8	461.4	435.0	400.4	400.4	386.3
75°	6067.9	5706.0	3120.3	384.2	345.5	380.1	416.7	394.4	363.9	353.7	345.5
77.5°	4829.9	4134.7	1813.3	331.4	315.1	341.5	365.9	349.6	323.2	300.8	300.8
80°	2943.5	2423.1	800.9	286.7	278.5	298.8	315.1	296.8	274.4	252.0	245.9
82.5°	1120.1	935.1	388.3	245.9	243.9	256.1	268.3	250.0	233.8	223.6	193.1
85°	306.9	282.6	266.3	205.3	201.2	199.2	213.4	205.3	183.0	150.4	134.1
87.5°	115.9	132.2	144.3	126.1	134.1	124.0	142.3	130.1	115.9	75.2	67.1
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)