

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: P511171

Luminaire Tested: **PRV-P-PA1B-8540-U-T3-HSS**

Issue Date: 4/7/2021

Test Information

Test Method: LM-79-08
Report Number: P511171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-P-PA1B-8540-U-T3-HSS
Description: PREVAIL AREA AND WALL LUMINAIRE
(1) 85 CRI, 4000K, 670mA LIGHT ENGINE 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: 4358.2 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 52.8
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

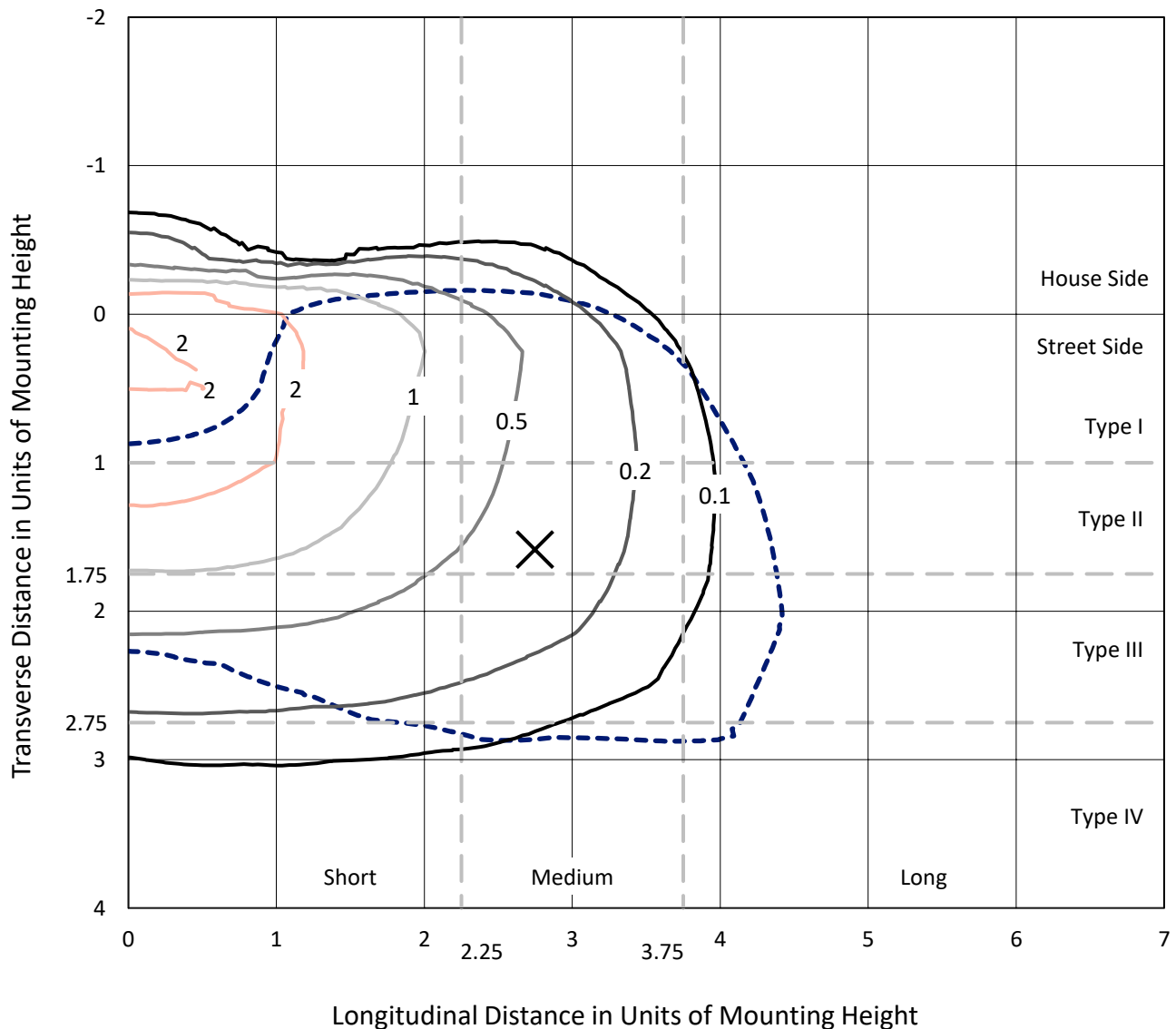


REPORT NUMBER: P511171

CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

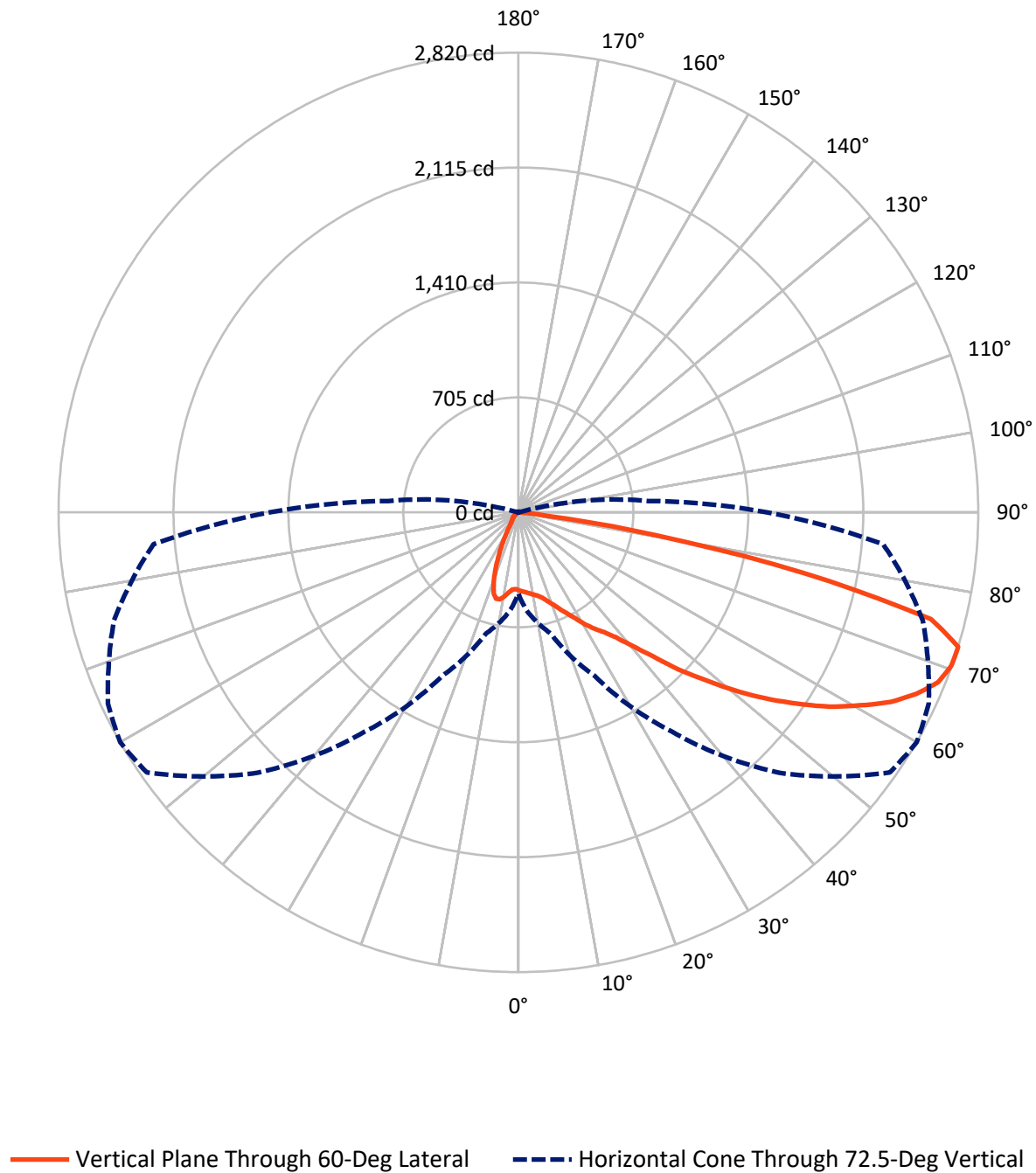


Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P511171

CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P511171

CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

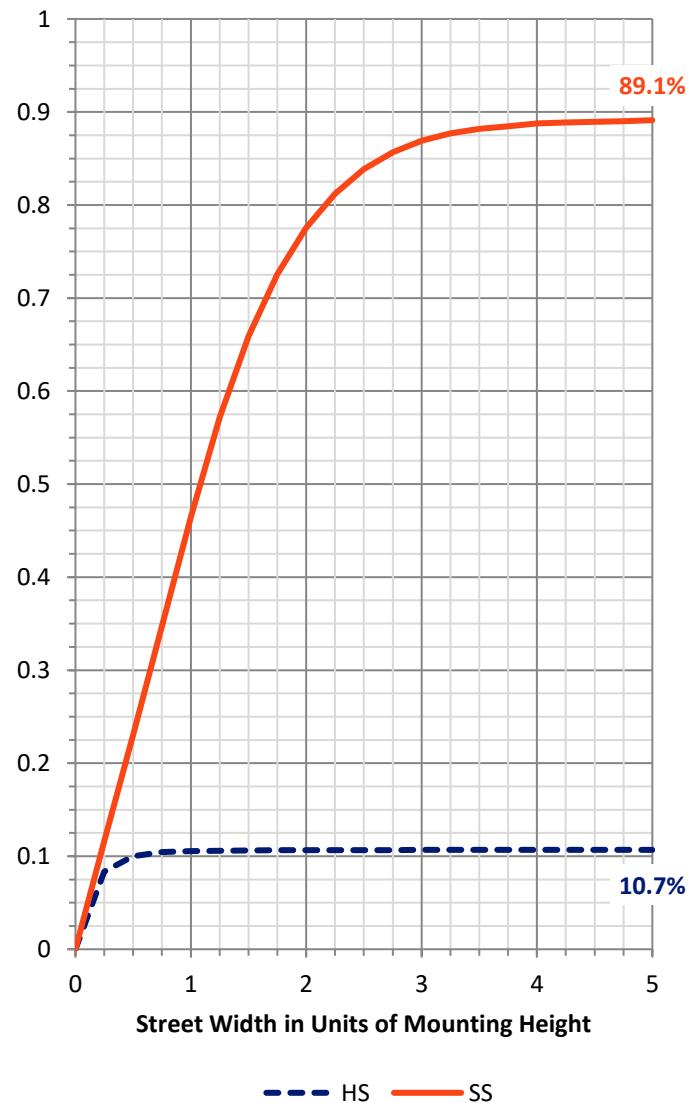
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.8	0.0	469.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3888.4	0.0	3888.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	4358.2	0.0	4358.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	126.6	2.9
20°-30°	209.0	4.8
30°-40°	368.9	8.5
40°-50°	647.5	14.9
50°-60°	1015.0	23.3
60°-70°	1196.1	27.4
70°-80°	714.6	16.4
80°-90°	34.1	0.8
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°	4358.2	100.0
0°-180°	4358.2	100.0

Coefficient of Utilization



REPORT NUMBER: P511171

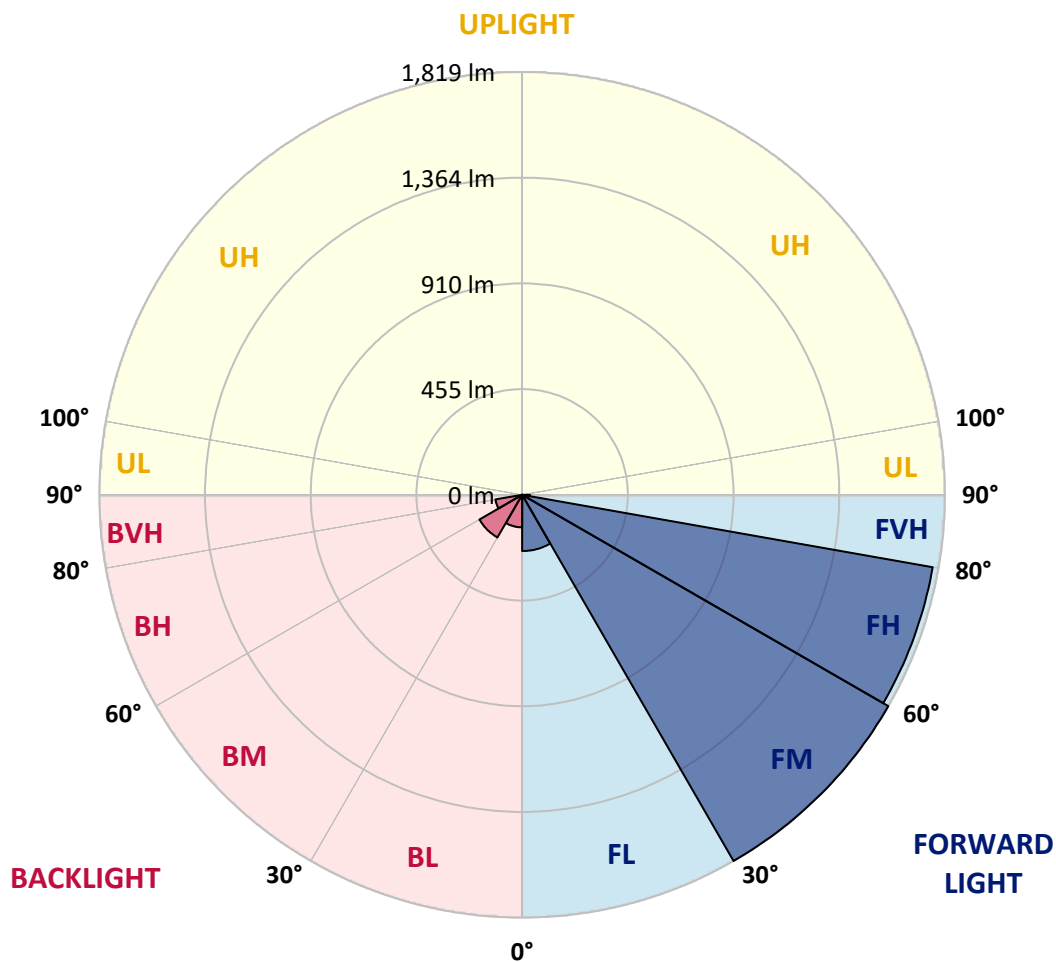
CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.9	5.6			
FM	(30°-60°)	1819.3	41.7			
FH	(60°-80°)	1793.8	41.2			G1/1800
FVH	(80°-90°)	33.3	0.8			G1/100
BL	(0°-30°)	140.0	3.2	B1/500		
BM	(30°-60°)	212.1	4.9	B0/220		
BH	(60°-80°)	116.9	2.7	B1/500		G1/500
BVH	(80°-90°)	0.8	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-G1

Type IV Medium



REPORT NUMBER: P511171

CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6
2.5°	491.3	492.7	487.5	492.7	490.1	490.1	488.8	486.2	483.7	482.4	482.4
5°	483.7	483.7	479.8	488.8	491.3	492.7	493.9	492.7	493.9	487.5	487.5
7.5°	446.5	447.9	451.7	463.2	474.7	488.8	502.8	502.8	505.4	506.7	504.2
10°	435.0	435.0	435.0	450.4	460.6	485.0	504.2	513.1	519.5	524.6	531.0
12.5°	431.2	429.9	435.0	453.0	468.3	488.8	515.7	524.6	534.9	550.2	559.1
15°	431.2	431.2	432.5	453.0	474.7	502.8	529.8	542.5	554.1	575.8	588.6
17.5°	442.7	441.5	442.7	459.4	479.8	516.9	557.9	570.7	583.5	603.9	623.1
20°	454.2	453.0	451.7	469.6	490.1	533.6	583.5	602.7	624.4	639.8	656.4
22.5°	474.7	473.4	468.3	479.8	502.8	554.1	615.4	641.0	662.8	678.2	692.3
25°	545.1	541.3	523.4	510.5	527.2	574.5	648.7	684.6	711.4	722.9	730.6
27.5°	669.2	674.3	634.7	583.5	561.7	605.3	688.4	731.9	761.3	770.3	761.3
30°	842.0	834.3	785.7	716.5	642.4	643.6	740.9	792.1	826.6	830.4	807.4
32.5°	994.3	992.9	941.8	866.2	755.0	711.4	784.4	848.4	889.3	889.3	850.9
35°	1127.3	1120.9	1073.6	1009.6	903.3	809.9	840.7	902.1	954.6	952.0	905.9
37.5°	1232.2	1229.6	1201.5	1142.6	1054.4	940.5	914.9	973.7	1042.9	1039.0	982.7
40°	1343.5	1346.1	1337.1	1278.2	1186.2	1095.3	1033.9	1074.8	1142.6	1147.8	1088.9
42.5°	1484.3	1488.2	1470.2	1413.9	1332.0	1252.7	1196.4	1202.8	1268.1	1275.7	1192.6
45°	1655.7	1654.5	1634.0	1580.3	1500.9	1424.1	1381.9	1371.7	1402.4	1420.3	1335.9
47.5°	1787.6	1790.1	1791.4	1772.2	1691.6	1637.9	1570.0	1533.0	1567.5	1577.7	1477.9
50°	1892.5	1929.5	1915.5	1934.7	1897.6	1865.6	1758.1	1715.9	1741.5	1754.3	1641.7
52.5°	1968.0	1997.4	2012.8	2070.3	2083.1	2111.3	1947.5	1896.3	1902.7	1910.4	1790.1
55°	1942.4	1960.3	2046.1	2148.4	2255.9	2346.7	2116.4	2070.3	2069.1	2071.6	1973.1
57.5°	1866.9	1893.8	2040.9	2170.2	2376.2	2509.2	2300.7	2249.5	2249.5	2211.1	2161.2
60°	1776.0	1792.7	1974.3	2159.9	2441.4	2611.6	2446.6	2404.3	2403.0	2350.6	2364.7
62.5°	1664.7	1673.7	1831.0	2095.9	2414.5	2603.9	2589.9	2563.0	2550.2	2467.0	2524.5
65°	1521.4	1522.7	1657.1	1974.3	2341.6	2589.9	2681.9	2683.3	2674.3	2571.9	2664.1
67.5°	1289.8	1315.4	1430.5	1769.7	2208.5	2559.2	2739.6	2777.9	2763.8	2637.2	2689.7
70°	989.1	1021.1	1173.3	1468.9	2003.8	2481.1	2790.8	2817.6	2795.9	2646.1	2596.3
72.5°	497.8	607.8	770.3	1106.8	1641.7	2258.4	2781.8	2820.1	2776.7	2568.1	2245.6
75°	81.9	90.8	207.3	510.5	1030.0	1810.6	2577.0	2614.1	2546.3	2142.0	1453.6
77.5°	51.2	55.0	84.5	214.9	350.6	876.5	1846.4	1786.3	1783.8	1282.2	619.3
80°	30.7	32.0	44.8	97.2	188.1	185.6	895.7	853.5	767.7	330.1	126.7
82.5°	17.9	19.2	33.3	49.9	103.7	62.7	136.9	177.9	190.7	66.6	25.6
85°	1.3	1.3	10.3	23.0	24.3	14.1	16.6	28.2	25.6	32.0	11.5
87.5°	0.0	0.0	0.0	1.3	2.6	2.6	3.8	3.8	3.8	5.1	3.8
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: P511171

CATALOG NUMBER: PRV-P-PA1B-8540-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6
2.5°	478.6	481.2	474.7	473.4	468.3	469.6	470.9	469.6	469.6	470.9	472.1
5°	485.0	483.7	478.6	477.3	473.4	476.0	477.3	478.6	481.2	479.8	479.8
7.5°	500.3	501.6	496.5	496.5	493.9	493.9	491.3	488.8	487.5	485.0	490.1
10°	529.8	531.0	527.2	525.9	520.8	509.3	486.2	458.1	428.7	417.1	420.9
12.5°	556.6	564.3	559.1	555.3	534.9	486.2	404.3	332.7	290.5	264.9	267.4
15°	588.6	595.0	592.4	578.4	514.4	390.2	272.6	194.5	163.8	147.1	152.3
17.5°	621.9	628.3	623.1	588.6	447.9	267.4	158.6	119.0	111.3	107.5	108.8
20°	657.7	664.1	652.6	564.3	341.6	167.6	107.5	102.3	101.1	101.1	101.1
22.5°	693.5	699.9	682.0	509.3	235.4	110.0	98.5	96.0	94.7	92.2	93.4
25°	724.2	738.3	702.5	428.7	143.3	96.0	92.2	89.6	85.7	83.2	84.5
27.5°	760.1	772.8	696.1	330.1	101.1	89.6	84.5	79.3	75.5	72.9	72.9
30°	801.0	813.8	665.4	216.3	88.3	81.9	75.5	69.1	62.7	60.1	60.1
32.5°	843.2	853.5	615.4	131.8	79.3	72.9	65.2	56.3	49.9	46.0	46.0
35°	898.3	899.5	555.3	88.3	70.4	62.7	53.7	44.8	37.1	34.5	34.5
37.5°	971.2	962.2	481.2	72.9	61.4	52.5	42.2	33.3	28.2	25.6	26.9
40°	1069.7	1028.8	394.1	64.0	53.7	43.5	32.0	24.3	20.4	20.4	20.4
42.5°	1173.3	1096.6	298.2	58.9	47.4	34.5	23.0	17.9	16.6	16.6	16.6
45°	1296.2	1161.8	194.5	52.5	39.7	26.9	16.6	12.8	12.8	14.1	14.1
47.5°	1419.0	1219.4	116.4	46.0	33.3	20.4	12.8	10.3	10.3	11.5	12.8
50°	1557.2	1269.3	78.1	41.0	28.2	15.3	10.3	8.9	8.9	11.5	11.5
52.5°	1696.7	1300.0	61.4	34.5	21.8	12.8	8.9	7.7	7.7	10.3	10.3
55°	1814.4	1325.6	52.5	29.4	16.6	10.3	8.9	7.7	7.7	8.9	10.3
57.5°	1927.0	1334.6	44.8	24.3	12.8	10.3	7.7	6.4	6.4	8.9	8.9
60°	2016.6	1328.2	38.4	19.2	11.5	8.9	6.4	5.1	5.1	7.7	8.9
62.5°	2078.0	1306.4	29.4	14.1	10.3	8.9	6.4	3.8	5.1	6.4	7.7
65°	2110.0	1260.4	21.8	11.5	8.9	7.7	5.1	3.8	3.8	5.1	5.1
67.5°	2051.1	1187.4	16.6	8.9	7.7	7.7	5.1	2.6	2.6	3.8	3.8
70°	1886.1	1078.7	14.1	7.7	6.4	6.4	3.8	2.6	1.3	2.6	2.6
72.5°	1521.4	801.0	11.5	6.4	5.1	5.1	3.8	1.3	1.3	1.3	2.6
75°	930.3	262.3	7.7	5.1	3.8	3.8	2.6	1.3	1.3	1.3	1.3
77.5°	363.4	65.2	5.1	2.6	2.6	2.6	1.3	1.3	0.0	1.3	1.3
80°	67.8	12.8	2.6	2.6	1.3	1.3	1.3	0.0	0.0	1.3	1.3
82.5°	16.6	3.8	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0	1.3
85°	5.1	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	1.3	1.3	1.3	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)