

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: P380997

Luminaire Tested: **PRV-PA1B-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1B-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 85 CRI, 4000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 74
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

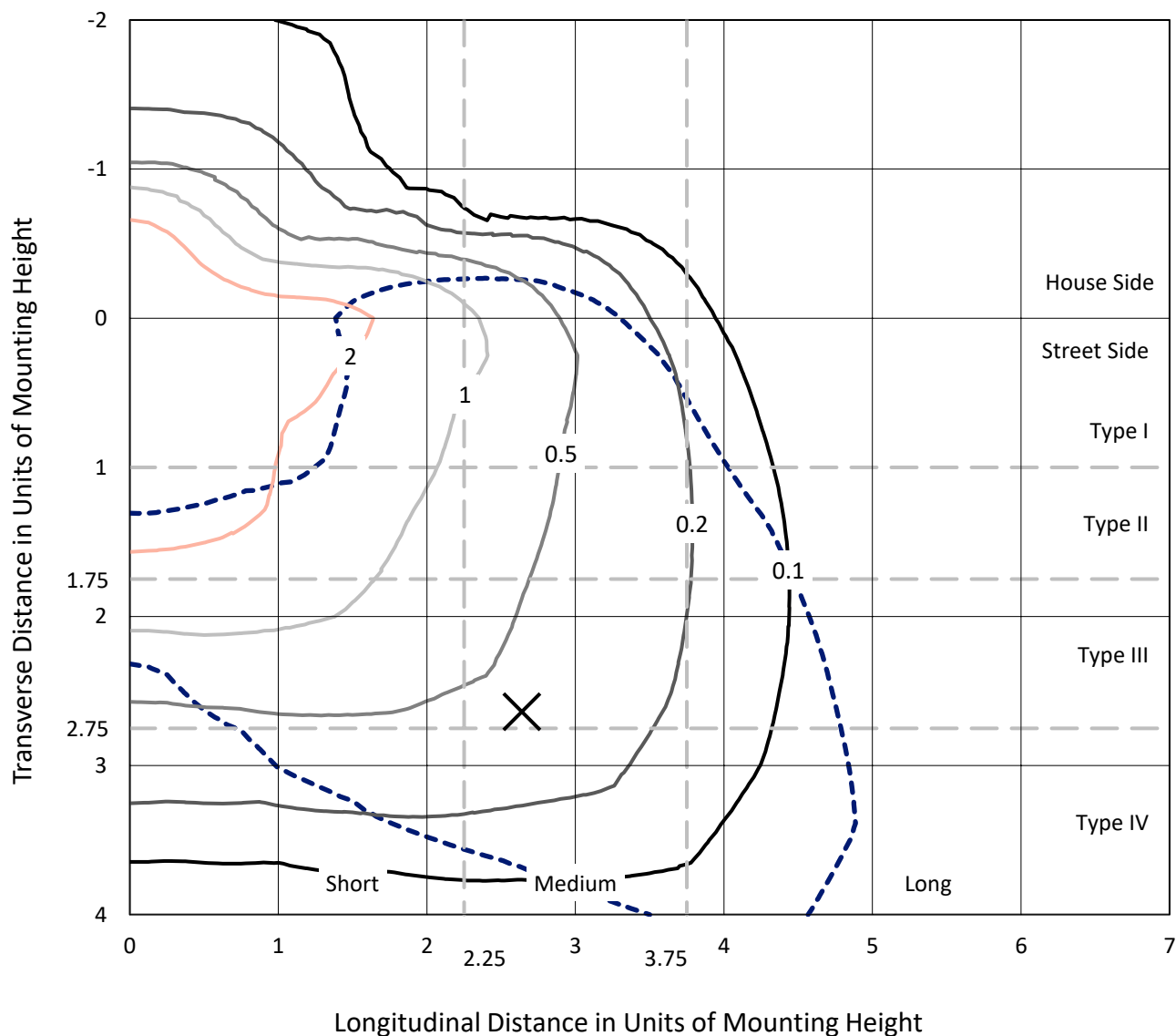


REPORT NUMBER: P380997

CATALOG NUMBER: PRV-PA1B-8540-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

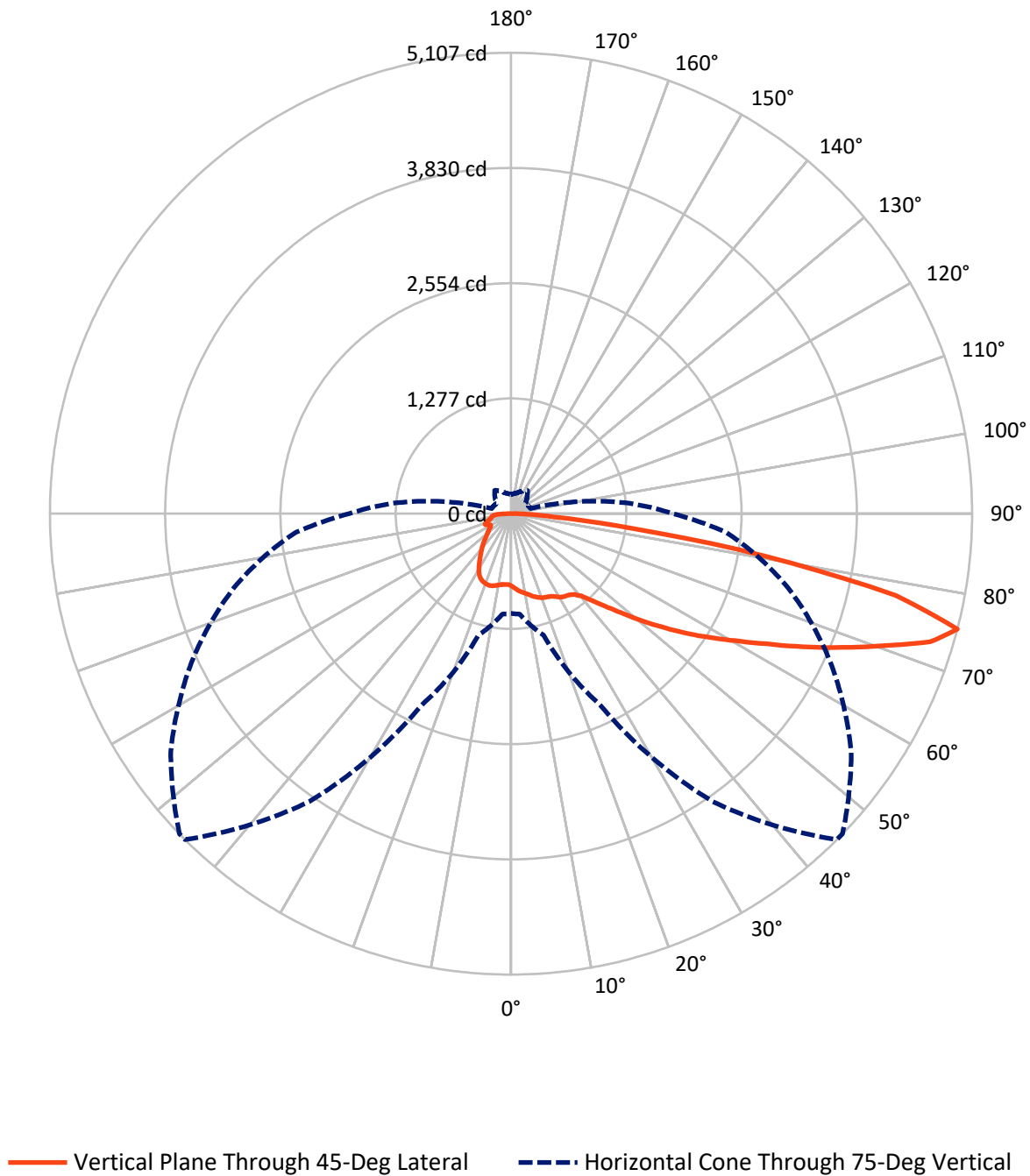


Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P380997

CATALOG NUMBER: PRV-PA1B-8540-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P380997

CATALOG NUMBER: PRV-PA1B-8540-U-T4W

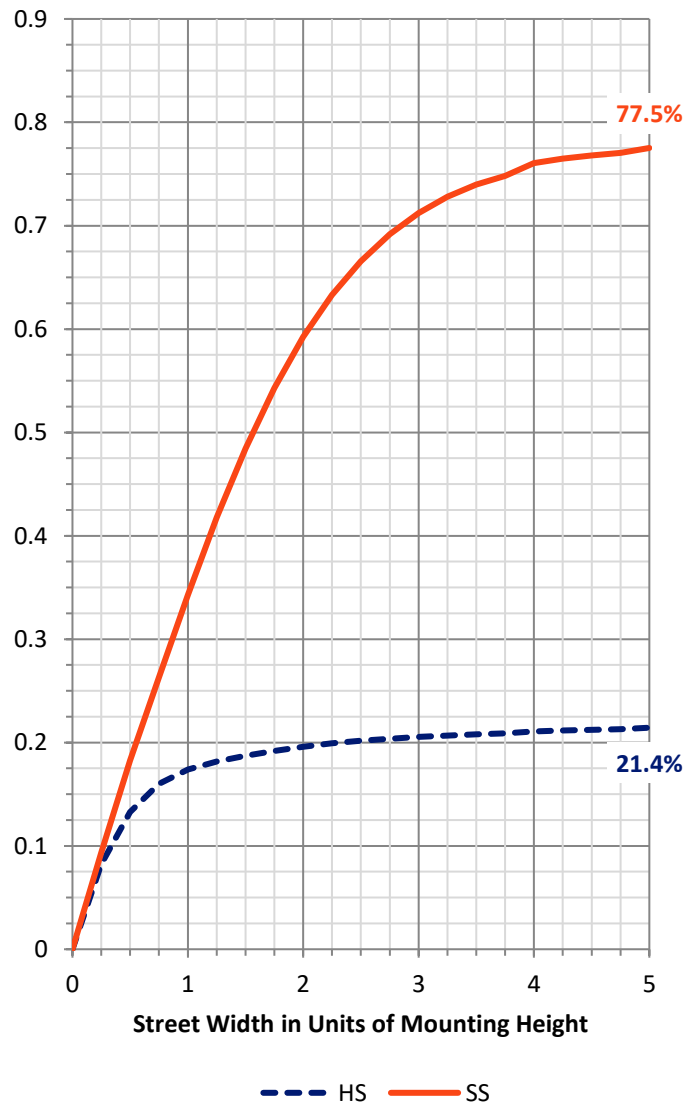
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.1	0.0	1685.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5939.8	0.0	5939.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	7624.9	0.0	7624.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.0
10°-20°	252.0	3.3
20°-30°	429.7	5.6
30°-40°	602.0	7.9
40°-50°	884.5	11.6
50°-60°	1407.6	18.5
60°-70°	2002.3	26.3
70°-80°	1676.6	22.0
80°-90°	291.0	3.8
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°	7624.9	100.0
0°-180°	7624.9	100.0

Coefficient of Utilization



REPORT NUMBER: P380997

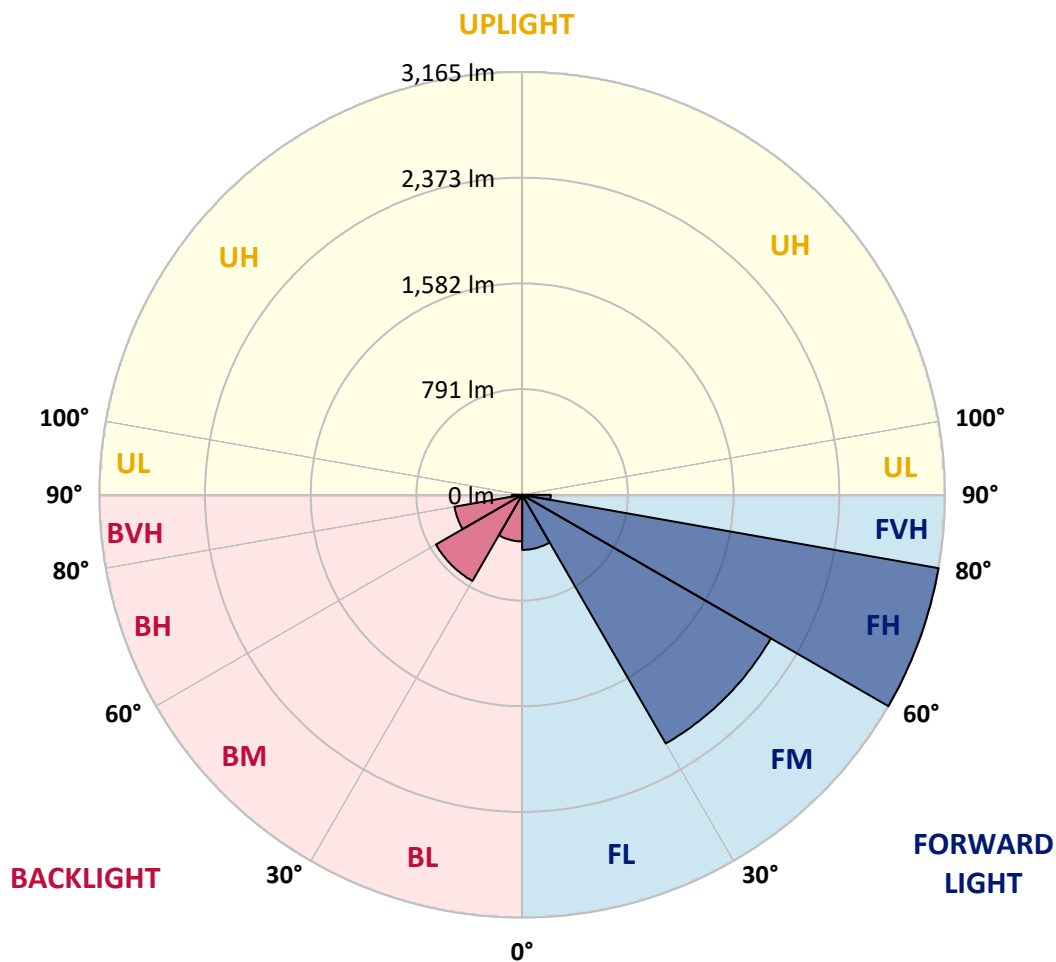
CATALOG NUMBER: PRV-PA1B-8540-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.2	5.4			
FM	(30°-60°)	2149.2	28.2			
FH	(60°-80°)	3164.5	41.5			G2/5000
FVH	(80°-90°)	213.9	2.8			G2/225
BL	(0°-30°)	348.7	4.6	B1/500		
BM	(30°-60°)	744.9	9.8	B1/1000		
BH	(60°-80°)	514.4	6.7	B2/1000		G2/1000
BVH	(80°-90°)	77.1	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



REPORT NUMBER: P380997

CATALOG NUMBER: PRV-PA1B-8540-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8
2.5°	846.7	842.6	840.5	840.5	832.3	827.2	826.2	819.1	813.0	806.9	801.8
5°	895.5	892.5	886.4	881.3	870.1	855.8	853.8	838.4	823.2	808.9	796.7
7.5°	940.4	934.3	927.1	916.9	898.6	879.2	876.2	854.8	833.3	812.0	795.7
10°	978.0	971.9	961.8	947.5	924.0	900.6	897.6	875.2	852.8	827.2	803.8
12.5°	1013.7	1008.6	993.3	974.0	946.5	925.0	922.0	902.6	879.2	850.7	820.1
15°	1044.3	1039.2	1022.9	1000.4	968.9	952.6	948.5	930.1	906.7	876.2	844.6
17.5°	1059.6	1059.6	1042.3	1017.7	988.2	976.0	973.0	950.6	929.1	899.6	868.0
20°	1064.6	1066.7	1054.5	1024.9	999.4	994.3	991.3	973.0	948.5	919.9	890.4
22.5°	1067.7	1071.8	1061.6	1028.0	1006.5	1003.5	1001.5	989.2	969.9	942.4	912.8
25°	1077.9	1077.9	1070.8	1033.1	1015.7	1014.7	1014.7	1007.6	994.3	970.9	941.4
27.5°	1093.1	1092.1	1083.0	1044.3	1036.1	1039.2	1038.2	1037.2	1028.0	1004.5	973.0
30°	1118.7	1118.7	1108.5	1066.7	1061.6	1074.8	1075.8	1077.9	1063.6	1027.0	1001.5
32.5°	1157.4	1153.3	1143.1	1089.1	1080.9	1093.1	1095.2	1094.2	1081.9	1047.3	1035.1
35°	1276.5	1267.4	1230.7	1139.0	1098.2	1105.4	1106.4	1111.5	1113.6	1086.0	1079.9
37.5°	1485.4	1473.2	1417.2	1257.2	1153.3	1136.0	1135.0	1148.2	1159.4	1135.0	1135.0
40°	1712.6	1702.4	1669.8	1460.9	1255.1	1198.1	1194.0	1206.3	1220.5	1203.2	1208.3
42.5°	1908.2	1916.4	1919.4	1677.0	1408.0	1314.3	1303.1	1285.7	1308.2	1292.9	1313.2
45°	2054.9	2050.8	2106.9	1898.0	1605.6	1459.9	1444.6	1397.8	1426.3	1425.3	1470.2
47.5°	2210.8	2203.7	2227.1	2105.9	1830.8	1638.2	1614.8	1545.5	1588.3	1617.8	1692.2
50°	2358.6	2360.6	2368.7	2269.9	2075.3	1855.2	1825.7	1733.0	1794.1	1856.3	1961.2
52.5°	2551.1	2536.8	2526.6	2461.4	2349.3	2081.4	2062.0	1956.1	2041.7	2115.0	2254.6
55°	2719.2	2710.0	2703.9	2700.8	2578.6	2331.0	2310.6	2200.6	2323.9	2375.9	2581.6
57.5°	2898.5	2893.4	2926.0	2978.0	2929.0	2584.7	2563.3	2457.4	2594.9	2631.6	2936.2
60°	3029.9	3033.0	3122.6	3255.1	3221.4	2859.8	2834.3	2740.6	2858.7	2891.4	3290.7
62.5°	3030.9	3061.5	3269.3	3506.7	3545.4	3176.6	3147.0	3045.2	3129.7	3129.7	3608.6
65°	2741.6	2776.2	3242.9	3568.8	3873.5	3553.6	3525.1	3365.1	3396.7	3353.9	3907.1
67.5°	2453.3	2494.0	2933.1	3573.9	4103.7	3957.0	3923.4	3685.0	3631.0	3523.0	4115.9
70°	2261.8	2290.3	2657.0	3507.8	4242.3	4378.8	4353.3	3988.6	3815.4	3664.6	4072.1
72.5°	1904.1	1893.9	2244.4	3192.9	4319.7	4857.7	4836.3	4318.7	3975.4	3597.4	3473.1
75°	1105.4	1117.7	1392.7	2339.1	3893.9	5107.3	5105.2	4600.9	3905.1	3177.6	2393.2
77.5°	318.9	328.1	457.4	1028.0	2462.5	4356.4	4496.0	4207.6	3300.9	2264.8	1240.9
80°	139.6	146.7	198.6	342.3	1060.6	2845.5	2967.7	2845.5	1990.7	1039.2	486.9
82.5°	82.5	87.6	129.4	211.9	508.4	1354.0	1519.0	1326.5	858.9	441.1	201.7
85°	46.9	48.9	74.4	134.5	319.9	473.7	531.8	498.2	418.7	250.6	105.9
87.5°	21.4	22.4	36.6	63.2	179.3	160.0	166.1	220.0	242.5	152.8	53.0
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: P380997

CATALOG NUMBER: PRV-PA1B-8540-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8	800.8
2.5°	799.8	796.7	790.6	788.6	785.5	786.5	787.5	787.5	788.6	785.5	785.5
5°	791.6	786.5	780.4	780.4	780.4	788.6	795.7	799.8	801.8	801.8	799.8
7.5°	788.6	782.5	775.3	777.4	779.4	789.6	802.8	816.0	820.1	820.1	818.1
10°	794.7	788.6	783.5	786.5	791.6	799.8	809.9	822.2	832.3	833.3	832.3
12.5°	808.9	801.8	796.7	802.8	808.9	814.0	819.1	824.2	837.4	839.5	839.5
15°	832.3	825.2	819.1	824.2	826.2	826.2	826.2	826.2	839.5	841.5	841.5
17.5°	855.8	849.7	843.6	844.6	838.4	830.3	827.2	826.2	833.3	839.5	840.5
20°	878.2	873.1	867.0	856.8	841.5	826.2	821.1	821.1	825.2	834.4	834.4
22.5°	902.6	896.5	886.4	862.9	837.4	816.0	811.0	814.0	819.1	831.3	830.3
25°	930.1	922.0	904.7	860.9	824.2	798.7	799.8	808.9	818.1	831.3	831.3
27.5°	960.7	949.5	914.9	844.6	794.7	770.2	779.4	800.8	814.0	828.3	830.3
30°	994.3	984.2	923.0	816.0	746.7	724.4	746.7	781.4	801.8	815.0	818.1
32.5°	1035.1	1027.0	930.1	779.4	684.7	665.3	697.9	740.6	773.3	788.6	791.6
35°	1086.0	1077.9	939.4	737.6	626.6	606.2	635.7	679.6	722.3	741.7	747.8
37.5°	1152.3	1140.0	947.5	692.8	577.7	554.2	568.5	608.2	646.9	673.5	680.6
40°	1236.8	1217.5	954.6	641.8	534.9	508.4	513.5	532.8	555.2	578.7	587.9
42.5°	1356.0	1317.3	955.7	587.9	491.1	466.6	464.6	470.7	470.7	470.7	473.7
45°	1522.1	1448.7	957.7	536.9	446.2	420.8	414.7	412.6	397.3	367.8	365.7
47.5°	1732.0	1620.9	966.8	494.2	399.4	376.9	368.8	360.6	332.1	301.5	295.4
50°	2001.0	1820.6	985.2	453.4	359.6	344.4	334.2	314.8	283.2	259.8	253.7
52.5°	2310.6	2058.0	1002.5	410.6	330.1	319.9	307.6	284.2	250.6	236.4	234.4
55°	2666.2	2322.8	1037.2	372.9	304.6	297.5	286.3	263.9	238.4	228.2	227.2
57.5°	3029.9	2619.4	1086.0	339.3	280.2	276.1	276.1	256.7	240.5	236.4	236.4
60°	3380.4	2874.0	1048.4	307.6	257.8	259.8	279.1	274.0	261.8	266.9	270.0
62.5°	3652.4	3023.8	850.7	282.2	241.5	259.8	309.7	309.7	295.4	293.4	293.4
65°	3768.6	3021.8	598.1	262.9	235.4	285.2	345.4	329.1	291.4	277.1	274.0
67.5°	3739.0	2889.3	412.6	249.6	233.3	311.8	361.7	315.9	273.0	260.8	251.7
70°	3479.2	2609.1	317.9	237.4	230.3	300.5	356.6	300.5	258.8	247.6	239.4
72.5°	2806.8	2092.6	263.9	225.2	218.0	278.1	339.3	286.3	247.6	235.4	227.2
75°	1790.0	1316.3	223.2	208.8	194.6	249.6	315.9	272.0	235.4	219.0	212.9
77.5°	860.9	567.4	194.6	189.5	175.2	231.3	292.4	253.7	219.0	205.8	201.7
80°	348.4	259.8	169.1	170.1	161.0	220.0	276.1	236.4	202.7	188.5	181.3
82.5°	181.3	150.8	142.7	146.7	146.7	209.8	263.9	222.1	188.5	182.4	158.9
85°	97.8	93.7	110.0	118.2	127.3	189.5	245.5	206.8	172.2	147.8	142.7
87.5°	47.9	61.2	62.2	71.3	88.6	151.8	206.8	173.2	143.7	119.2	117.1
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)