

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: P381252

Luminaire Tested: **PRV-PA1A-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA1A-8540-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY 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: 4378.5 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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

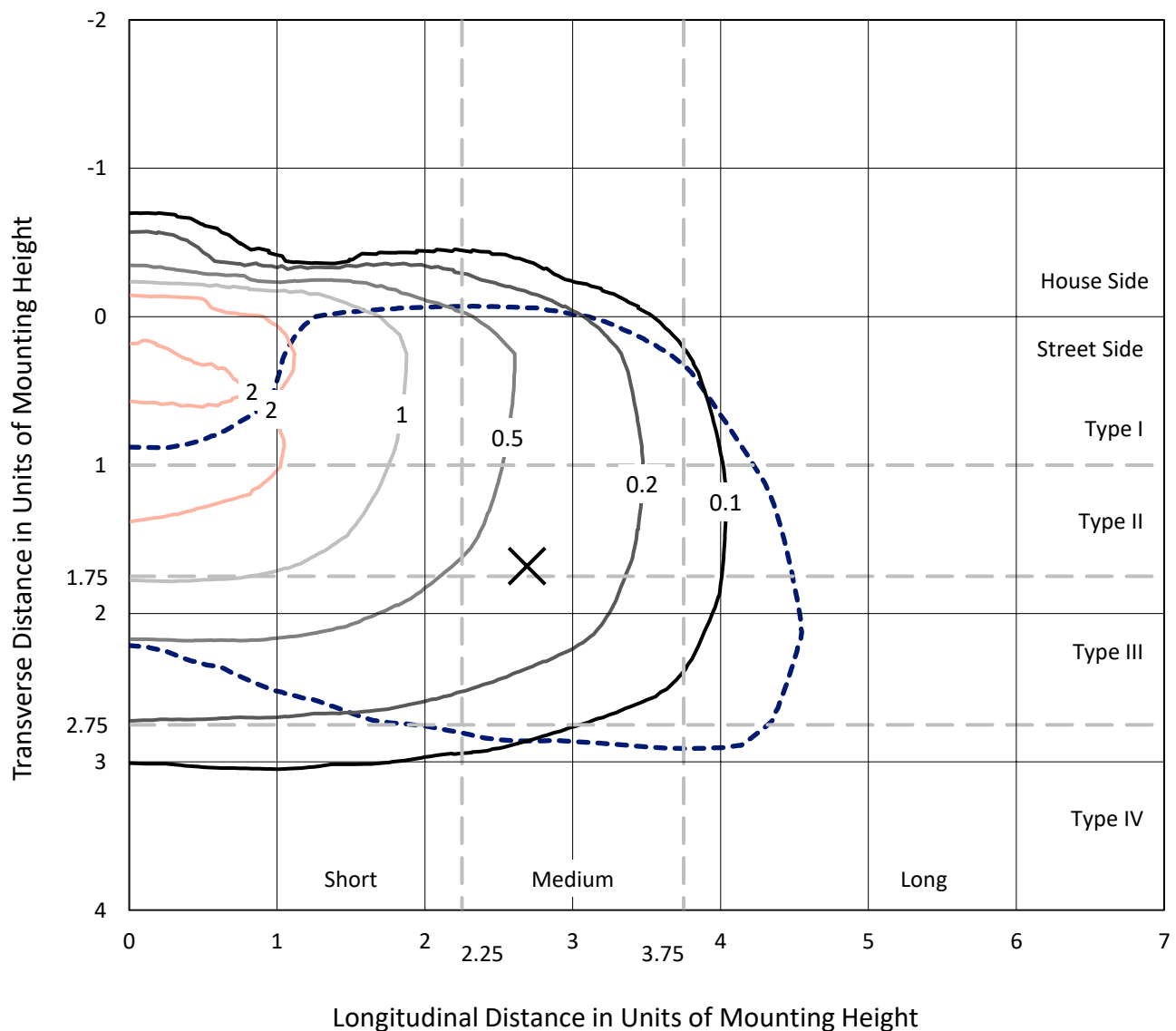


REPORT NUMBER: P381252

CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

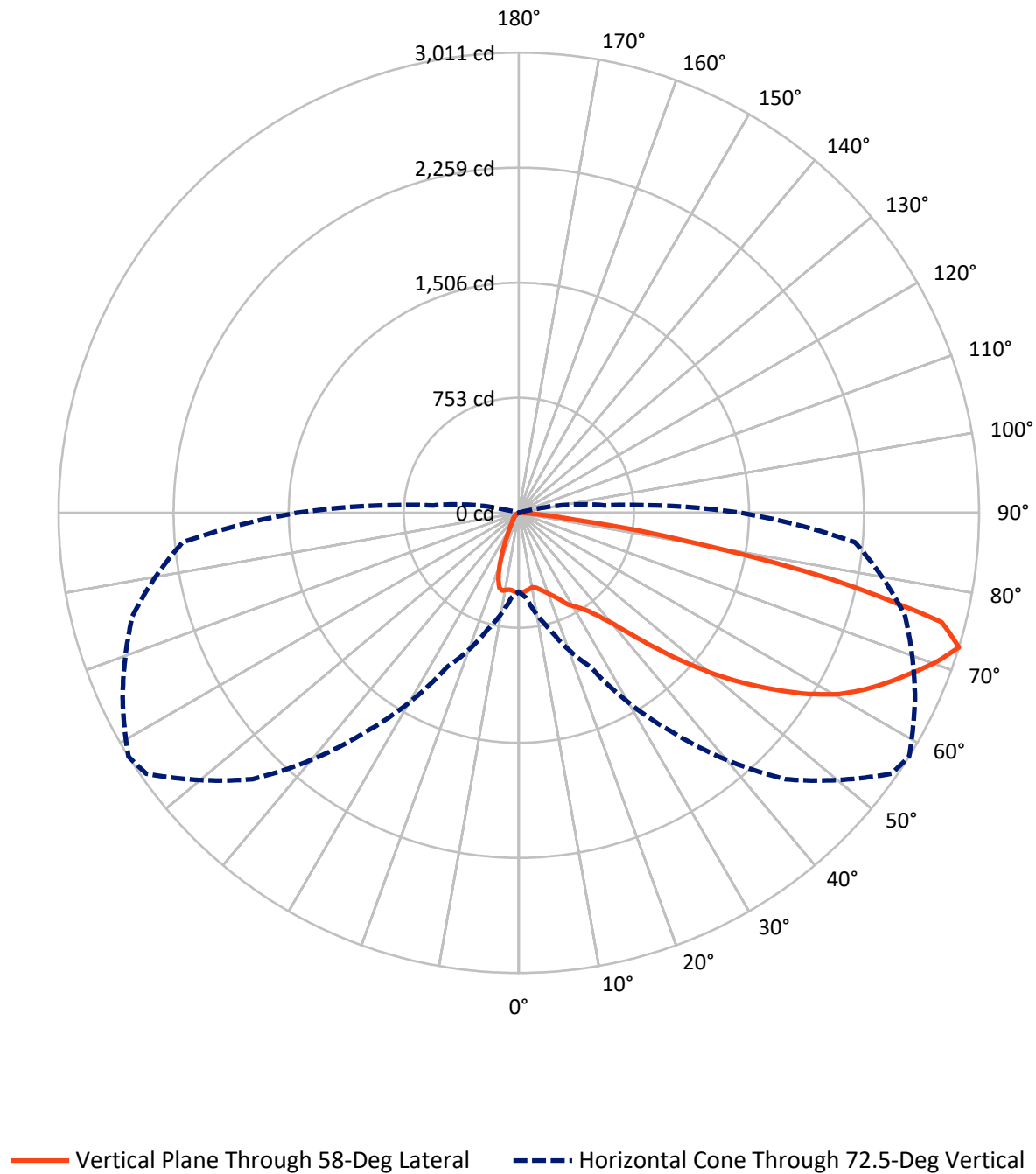


Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P381252

CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P381252

CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

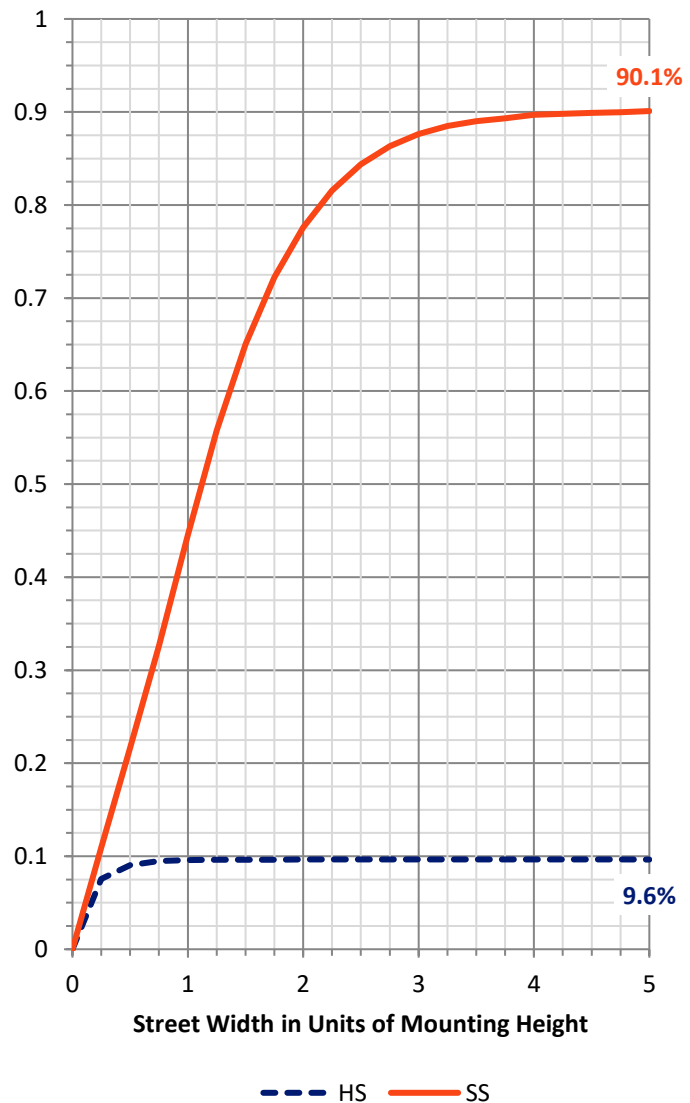
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	425.8	0.0	425.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3952.7	0.0	3952.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	4378.5	0.0	4378.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.1
10°-20°	125.6	2.9
20°-30°	197.3	4.5
30°-40°	340.2	7.8
40°-50°	647.3	14.8
50°-60°	1025.2	23.4
60°-70°	1196.3	27.3
70°-80°	749.2	17.1
80°-90°	49.2	1.1
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°	4378.5	100.0
0°-180°	4378.5	100.0

Coefficient of Utilization



REPORT NUMBER: P381252

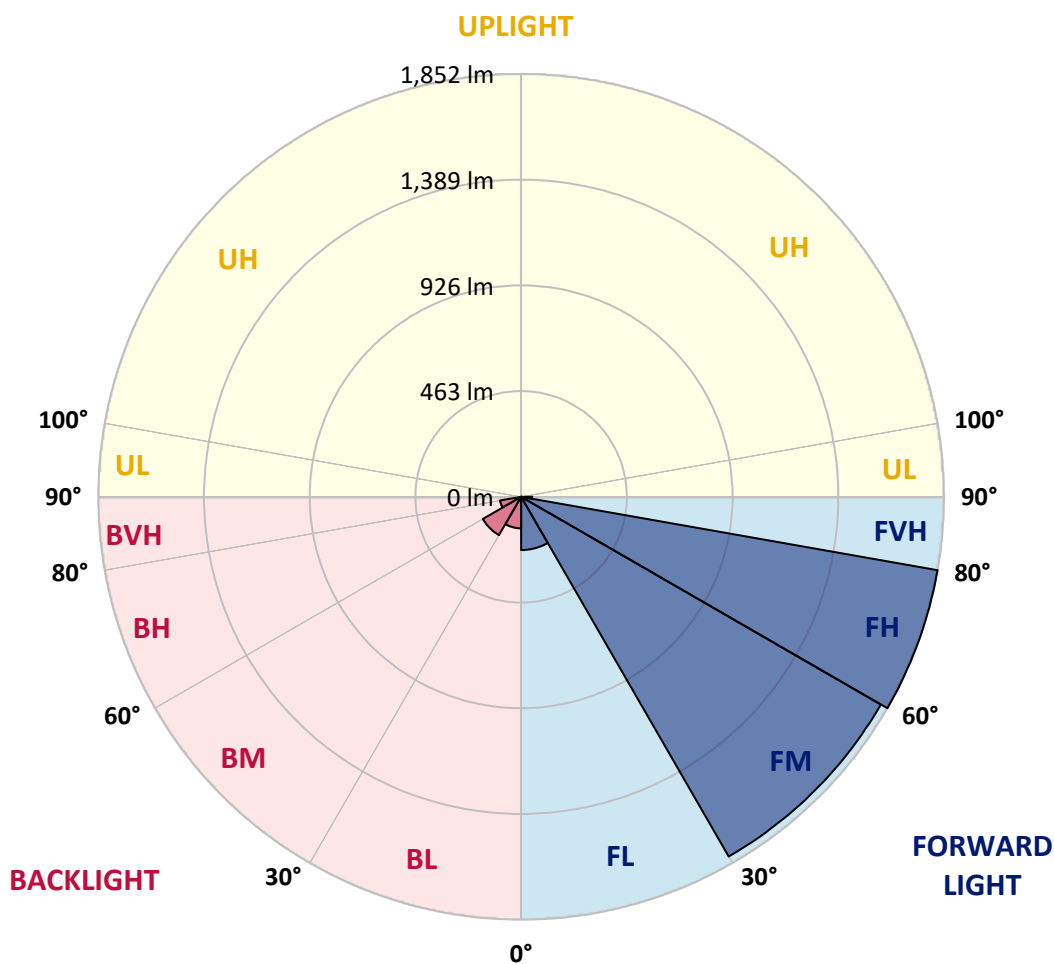
CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.2	5.3			
FM	(30°-60°)	1819.0	41.5			
FH	(60°-80°)	1851.8	42.3			G2/5000
FVH	(80°-90°)	48.7	1.1			G1/100
BL	(0°-30°)	137.9	3.1	B1/500		
BM	(30°-60°)	193.7	4.4	B0/220		
BH	(60°-80°)	93.7	2.1	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G2

Type IV Medium



REPORT NUMBER: P381252

CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4
2.5°	523.0	520.7	519.9	519.1	519.9	520.7	518.3	520.7	519.1	519.9	521.5
5°	504.3	501.9	501.1	501.9	504.3	508.2	509.7	512.1	512.1	514.4	515.2
7.5°	483.1	481.5	480.8	482.3	487.0	495.6	500.3	503.5	506.6	511.3	516.0
10°	471.4	470.6	469.8	472.1	476.8	484.7	490.9	495.6	507.4	520.7	529.3
12.5°	463.5	463.5	465.1	469.8	476.1	482.3	497.2	503.5	521.5	541.8	553.6
15°	457.3	457.3	459.6	468.2	476.8	491.7	513.6	520.7	541.8	566.9	582.6
17.5°	452.6	454.1	455.7	464.3	480.8	505.8	531.7	541.8	567.7	595.1	612.3
20°	453.4	454.9	455.7	464.3	487.8	522.3	555.1	566.9	596.6	625.6	642.8
22.5°	458.1	460.4	461.2	472.9	500.3	539.5	581.8	595.1	627.2	657.7	671.0
25°	477.6	479.2	474.5	484.7	518.3	566.1	616.2	630.3	662.4	690.6	701.6
27.5°	544.2	545.8	519.9	508.2	532.4	588.0	658.5	678.1	718.0	736.8	738.4
30°	688.3	689.8	638.9	583.3	566.1	606.8	682.0	709.4	761.1	782.2	772.8
32.5°	873.8	872.3	802.6	720.4	646.0	639.7	715.7	744.6	801.0	821.4	814.3
35°	1060.2	1062.5	1003.0	879.3	772.8	701.6	758.7	792.4	860.5	889.5	877.0
37.5°	1187.8	1203.5	1177.6	1043.7	928.6	815.9	828.4	864.4	949.8	988.9	962.3
40°	1367.9	1364.0	1301.3	1202.7	1100.9	985.0	941.2	958.4	1056.3	1108.7	1067.2
42.5°	1609.8	1602.0	1495.5	1399.2	1285.7	1190.9	1101.7	1098.5	1178.4	1239.5	1179.2
45°	1829.1	1817.3	1744.5	1651.3	1526.9	1418.0	1297.4	1270.0	1325.6	1377.3	1306.8
47.5°	2003.7	1984.1	1932.4	1883.1	1852.6	1683.4	1502.6	1461.1	1489.3	1527.6	1428.2
50°	2210.4	2156.4	2081.2	2051.5	2114.9	1984.1	1699.9	1660.0	1658.4	1680.3	1553.5
52.5°	2304.4	2206.5	2164.2	2189.3	2301.2	2263.7	1912.9	1855.7	1833.0	1835.4	1670.1
55°	2190.8	2179.9	2202.6	2280.9	2427.3	2405.4	2117.2	2046.8	2013.1	1970.8	1782.1
57.5°	2061.6	2095.3	2185.4	2334.9	2587.0	2553.4	2318.5	2238.6	2176.7	2079.6	1906.6
60°	1942.6	1977.1	2125.8	2347.4	2674.7	2695.9	2486.0	2410.1	2318.5	2190.8	2043.6
62.5°	1761.8	1788.4	1997.4	2329.4	2636.4	2778.9	2602.7	2545.5	2460.2	2296.5	2201.0
65°	1558.2	1575.4	1782.1	2185.4	2561.2	2769.5	2699.0	2666.9	2583.9	2406.9	2356.8
67.5°	1335.0	1355.4	1527.6	1926.2	2414.0	2725.6	2789.8	2786.7	2692.0	2529.1	2469.6
70°	1078.2	1079.8	1222.3	1597.3	2157.2	2637.9	2902.6	2909.6	2795.3	2620.7	2474.3
72.5°	516.0	558.3	792.4	1115.0	1753.1	2465.7	2976.2	3011.4	2860.3	2617.6	2207.3
75°	118.2	122.1	231.0	530.1	1028.1	1892.5	2792.2	2858.0	2702.1	2263.7	1555.0
77.5°	43.1	45.4	65.0	155.0	395.4	978.0	1998.2	2094.5	1997.4	1463.4	735.2
80°	29.0	28.2	33.7	68.9	181.7	277.2	1021.8	1079.0	985.0	499.6	176.2
82.5°	14.9	15.7	23.5	38.4	122.1	96.3	341.4	371.1	305.4	100.2	32.9
85°	7.0	7.0	13.3	24.3	51.7	33.7	76.0	91.6	82.2	43.8	11.0
87.5°	7.0	7.0	12.5	15.7	26.6	14.1	18.8	23.5	21.9	23.5	3.9
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: P381252

CATALOG NUMBER: PRV-PA1A-8540-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4
2.5°	521.5	520.7	519.9	521.5	520.7	522.3	522.3	523.8	523.8	522.3	521.5
5°	514.4	512.9	511.3	511.3	510.5	512.1	516.8	520.7	521.5	519.1	518.3
7.5°	515.2	515.2	513.6	510.5	505.0	505.0	505.0	509.7	512.1	510.5	509.7
10°	529.3	530.1	526.2	519.1	509.7	501.1	484.7	460.4	437.7	431.4	429.1
12.5°	553.6	554.4	546.5	534.0	514.4	463.5	400.9	343.0	298.3	285.8	283.4
15°	582.6	583.3	569.2	548.9	489.4	371.1	278.0	212.2	173.0	163.6	162.9
17.5°	612.3	610.7	589.6	550.4	415.0	263.1	169.1	135.5	125.3	122.9	123.7
20°	641.3	636.6	607.6	521.5	319.5	172.3	123.7	115.9	113.5	112.0	112.0
22.5°	667.9	658.5	622.5	464.3	223.9	123.7	110.4	108.8	105.7	103.4	102.6
25°	694.5	681.2	631.9	389.9	150.3	108.1	104.1	101.0	97.1	94.0	93.2
27.5°	726.6	707.8	627.2	296.0	112.8	100.2	97.1	92.4	86.9	82.2	80.6
30°	757.2	736.0	600.6	204.4	96.3	92.4	87.7	80.6	73.6	68.1	66.6
32.5°	795.5	771.3	552.8	133.9	83.8	80.6	76.0	67.3	57.9	51.7	50.1
35°	850.3	822.9	491.7	94.0	73.6	68.1	61.9	52.5	42.3	37.6	36.8
37.5°	927.1	890.3	415.0	76.0	65.0	57.2	47.8	38.4	31.3	27.4	26.6
40°	1021.0	964.7	329.6	67.3	57.9	47.8	36.0	27.4	22.7	19.6	19.6
42.5°	1122.8	1034.3	242.7	61.9	50.9	39.2	26.6	19.6	16.4	14.9	14.1
45°	1227.7	1096.2	163.6	57.2	44.6	29.8	18.8	13.3	11.0	11.0	10.2
47.5°	1336.6	1137.7	105.7	51.7	37.6	21.9	12.5	9.4	7.8	7.8	7.8
50°	1444.6	1159.6	75.2	47.0	30.5	14.9	9.4	7.0	6.3	6.3	6.3
52.5°	1522.9	1145.5	60.3	40.7	23.5	11.0	7.0	5.5	4.7	4.7	4.7
55°	1591.1	1121.3	52.5	35.2	17.2	7.8	5.5	4.7	3.9	3.9	3.9
57.5°	1660.7	1089.9	47.0	29.8	12.5	5.5	3.9	3.1	3.1	3.1	3.1
60°	1724.2	1036.7	40.7	23.5	8.6	3.9	3.1	2.3	2.3	2.3	2.3
62.5°	1786.0	991.3	35.2	18.0	6.3	3.1	1.6	1.6	0.8	0.8	0.8
65°	1821.3	930.2	28.2	11.7	3.9	2.3	0.8	0.8	0.0	0.0	0.0
67.5°	1810.3	857.4	19.6	7.0	2.3	1.6	0.8	0.0	0.0	0.0	0.0
70°	1734.3	759.5	11.7	3.9	2.3	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	1452.5	562.2	7.0	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	970.1	258.4	3.9	2.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	444.0	77.5	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.3	20.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	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)