

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: STREETWORKS

Report Number: P598532

Luminaire Tested: **PMM-SA4B-835-U-SLL**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-24)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4B-835-U-SLL  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13721 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

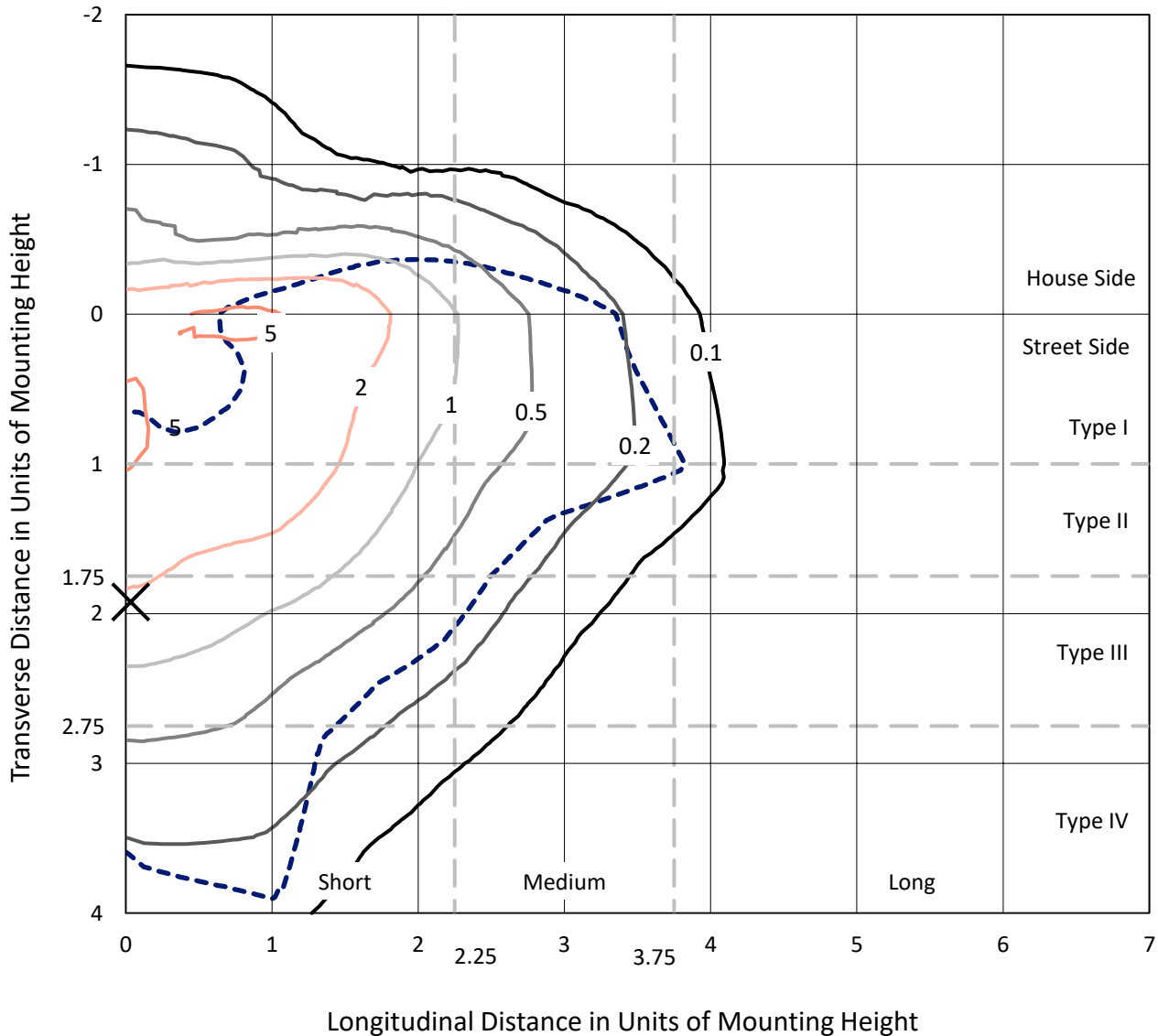
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

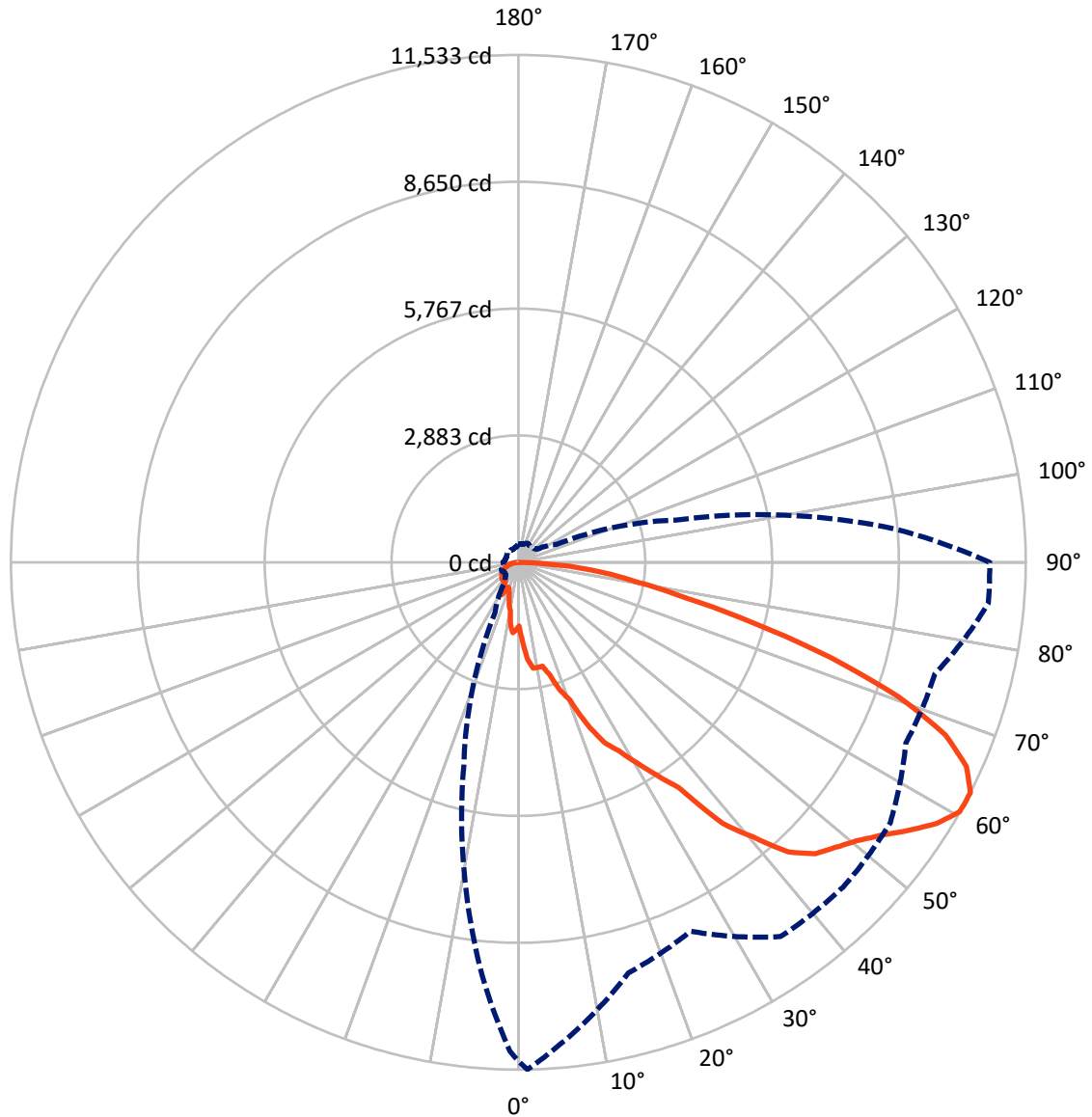
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 1-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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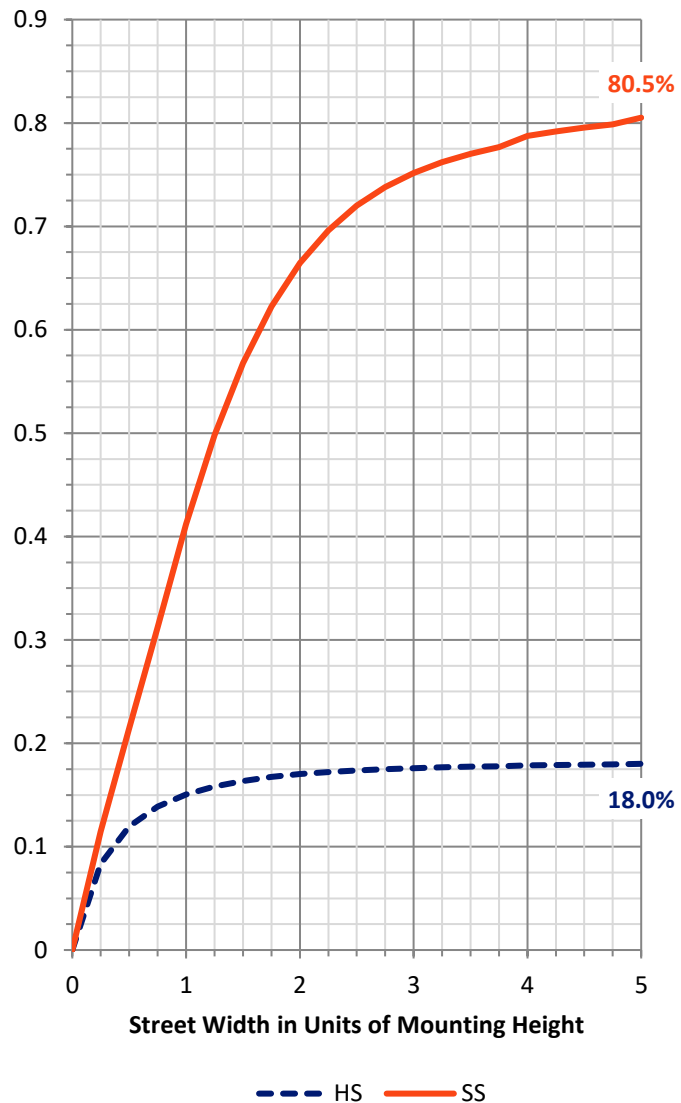
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2498.5	0.0	2498.5
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	11222.5	0.0	11222.5
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	13721.0	0.0	13721.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	1.2
10°-20°	482.0	3.5
20°-30°	850.9	6.2
30°-40°	1325.4	9.7
40°-50°	2182.5	15.9
50°-60°	3114.9	22.7
60°-70°	3303.1	24.1
70°-80°	1824.5	13.3
80°-90°	471.9	3.4
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°	13721.0	100.0
0°-180°	13721.0	100.0

**Coefficient of Utilization**



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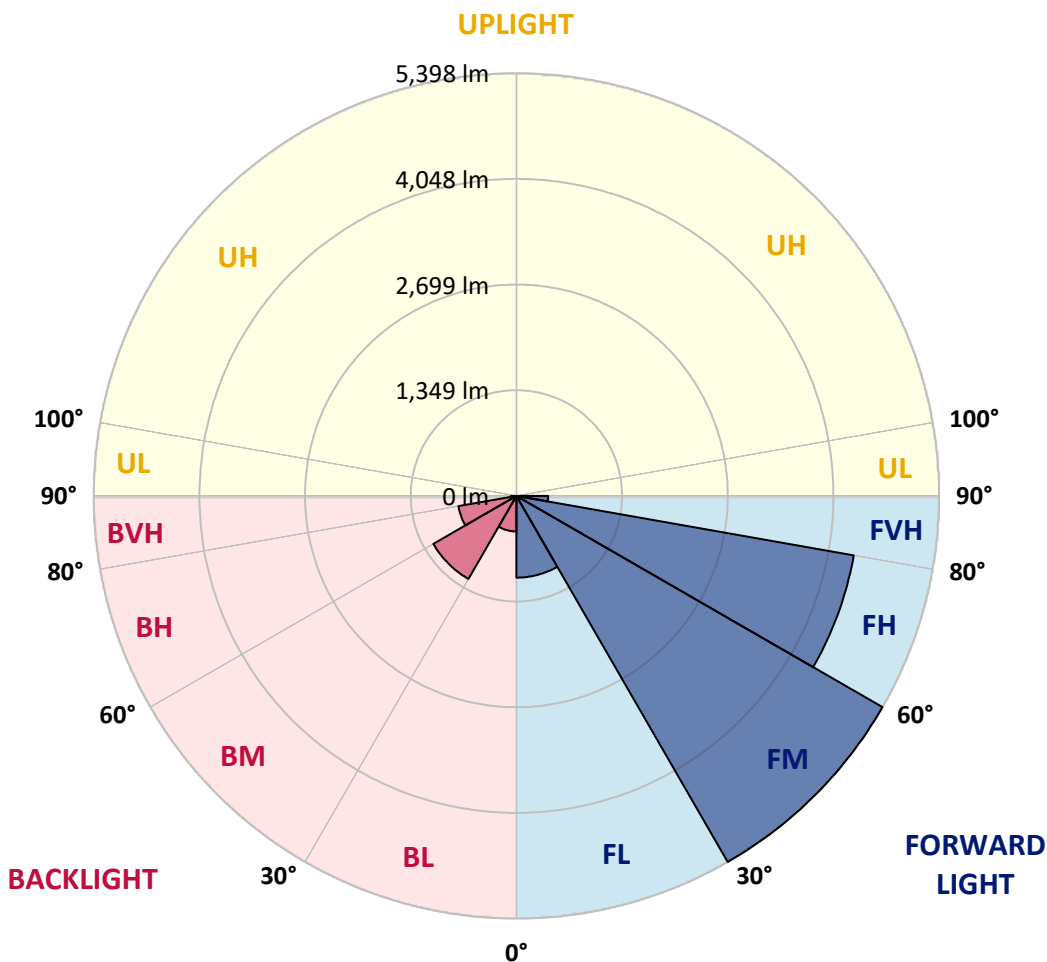
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.4	7.6			
FM (30°-60°)	5398.0	39.3			
FH (60°-80°)	4374.8	31.9			G2/5000
FVH (80°-90°)	405.3	3.0			G3/500
BL (0°-30°)	454.4	3.3	B1/500		
BM (30°-60°)	1224.8	8.9	B2/2500		
BH (60°-80°)	752.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	66.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1779.1	1794.4	1763.1	1727.8	1582.0	1722.5	1680.6	1758.5	1733.2	1564.1	1873.7
5°	2198.6	2226.6	2195.9	2301.8	2308.5	2335.8	2083.4	2240.5	2185.9	2172.0	2328.4
7.5°	2401.0	2429.6	2507.5	2696.0	2843.1	2710.0	2562.8	2530.2	2487.6	2376.4	2470.9
10°	2413.7	2429.6	2534.2	2933.7	3004.9	3099.5	3004.3	2779.9	2687.3	2445.6	2373.7
12.5°	2375.7	2425.6	2560.8	3047.5	3259.3	3362.5	3385.8	3136.1	2909.0	2633.4	2596.8
15°	2630.7	2648.7	2842.5	3128.8	3274.6	3361.8	3437.7	3283.9	3212.7	2994.3	2700.6
17.5°	2996.3	3046.2	3204.7	3310.5	3409.1	3425.7	3363.1	3303.2	3190.0	3481.7	3169.4
20°	3244.0	3340.5	3534.9	3554.9	3347.8	3384.5	3375.8	3379.8	3315.2	3854.5	3682.7
22.5°	3899.1	4003.7	4030.3	3914.5	3524.3	3357.2	3390.4	3487.0	3741.3	4203.4	4397.9
25°	4492.4	4533.0	4776.1	4477.8	3855.9	3491.7	3437.1	3686.7	4101.6	4790.7	4929.2
27.5°	4802.0	4854.6	5016.4	4367.2	3897.1	3318.5	3190.7	3570.9	3993.7	4514.4	5122.3
30°	5198.2	5282.1	5502.5	4477.8	4021.7	3431.7	3148.7	3512.3	3979.7	4695.5	5531.1
32.5°	5606.4	5769.5	5933.3	4867.3	4004.3	3604.8	3417.1	3446.4	4106.2	5075.0	5954.6
35°	6147.0	6290.8	6432.0	5092.3	4353.2	3749.3	3562.9	3873.2	4431.2	5515.1	6545.2
37.5°	7302.9	7530.6	7158.4	5732.9	4732.8	4400.5	4064.3	4248.0	4774.7	5882.0	7510.0
40°	8039.3	8210.4	7850.9	6169.0	5401.3	4839.3	4784.0	4799.4	5248.1	6196.3	8159.2
42.5°	8771.1	9002.8	8430.8	6767.6	6209.6	5745.5	5460.5	5441.2	5778.1	6760.9	8897.6
45°	9317.1	9453.6	8629.9	7272.3	7076.5	6732.3	6518.6	6179.6	6474.6	7151.8	9354.4
47.5°	9576.7	9687.9	8950.2	7565.9	7638.5	7656.5	8042.0	7464.0	7083.2	7416.1	9594.1
50°	9901.0	9953.6	9138.6	7824.3	8172.5	8962.2	9054.7	8075.3	7675.8	7704.4	9735.9
52.5°	10288.5	10310.5	9413.6	8122.6	8712.5	9821.1	9678.0	9111.3	8239.7	8231.1	10002.9
55°	10775.9	10762.6	9758.5	8524.1	9098.0	10331.8	10223.3	9810.5	8854.3	8667.2	10418.4
57.5°	11209.4	11201.4	10216.0	8893.6	9422.3	10594.1	10626.1	10516.9	9272.5	8979.5	10868.5
60°	11421.8	11523.7	10736.6	9297.8	9442.9	10712.7	10724.7	10550.9	9739.9	9380.3	10988.3
62.5°	11339.2	11533.0	10992.3	9661.3	9253.1	10389.1	10439.0	10319.2	9718.6	9801.1	10720.7
65°	10963.7	11187.4	10770.6	9855.1	9136.6	9847.1	9859.7	9556.8	9414.3	10080.1	10093.4
67.5°	10259.2	10469.0	10064.8	9546.1	8339.0	8386.2	8668.5	8693.2	8485.4	9869.7	9212.5
70°	9026.1	9173.9	8920.9	8783.1	6970.0	6693.0	6999.3	7130.5	7225.0	9110.0	8155.2
72.5°	7145.8	7431.4	7471.4	7561.3	5611.7	5150.3	5377.3	5182.9	5798.8	7753.7	6663.0
75°	5286.8	5527.8	5786.8	6288.2	4423.2	3855.9	3827.9	3728.7	4304.0	6235.6	4941.8
77.5°	3736.0	3889.8	4088.9	5023.1	3337.8	2969.6	2986.9	2886.4	3108.1	4712.8	3413.8
80°	2678.0	2758.6	2851.1	3309.2	2462.3	2562.1	2564.8	2469.6	2311.1	3200.7	2278.5
82.5°	1908.3	1970.9	2076.7	2182.6	1835.7	2100.1	2098.1	2092.1	1832.4	2163.3	1425.6
85°	1062.7	1146.6	1330.3	1709.9	1325.7	1501.5	1320.4	1454.2	1345.0	1440.2	721.8
87.5°	74.6	66.6	297.6	990.8	618.6	452.1	237.0	469.4	601.9	752.4	100.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1937.6	1960.9	1869.7	1732.5	1769.8	1729.2	1677.9	1598.0	1433.5	1535.4	1536.1
5°	2327.1	2238.5	2167.3	2100.1	1986.9	1815.7	1793.1	1655.9	1578.7	1619.3	1613.3
7.5°	2449.0	2323.1	2215.9	1975.5	1765.8	1500.1	1420.2	1339.0	1305.0	1403.6	1442.9
10°	2315.1	2183.9	2078.7	1786.4	1644.0	1478.2	1258.4	1145.9	1079.3	1105.3	1120.6
12.5°	2423.0	2289.2	1958.2	1795.1	1560.1	1458.9	1266.4	1101.3	1002.8	1026.7	998.1
15°	2526.9	2346.4	2015.5	1690.6	1500.1	1353.6	1197.8	1027.4	911.5	870.3	848.3
17.5°	2906.4	2606.8	2008.8	1632.0	1413.6	1245.1	1057.4	870.9	793.7	751.1	714.4
20°	3369.1	2951.7	2044.8	1571.4	1321.7	1109.3	904.9	731.8	677.8	649.9	639.9
22.5°	3919.8	3393.8	2250.5	1562.7	1235.1	1010.1	821.0	713.1	652.5	621.9	609.2
25°	4357.2	3851.2	2402.3	1621.3	1230.5	928.2	770.4	792.3	764.4	773.7	699.8
27.5°	4782.0	3975.7	2317.1	1595.3	1106.6	783.0	758.4	804.3	828.3	835.6	833.0
30°	5140.9	4501.7	2335.8	1448.9	934.8	637.9	580.6	603.2	669.2	773.7	793.7
32.5°	5666.3	4753.4	2494.9	1360.3	835.6	570.6	506.7	498.0	513.4	551.3	583.9
35°	6280.8	5332.7	2539.5	1337.0	767.0	540.7	496.0	476.1	484.1	512.7	519.4
37.5°	7426.8	5754.8	2704.6	1308.4	741.7	522.7	488.1	480.7	498.0	521.4	534.7
40°	8058.6	6513.9	2712.6	1283.7	709.1	515.4	493.4	490.1	500.7	532.7	540.7
42.5°	8900.9	6946.7	2837.8	1255.1	697.8	525.3	504.0	502.7	512.0	530.7	545.3
45°	9414.3	7236.3	2844.5	1238.5	695.1	569.3	518.0	513.4	511.4	522.7	536.0
47.5°	9745.2	7653.8	2925.7	1219.8	711.1	580.6	534.7	514.7	508.0	512.7	522.7
50°	10058.8	7987.4	3079.5	1217.2	727.8	569.3	564.0	514.0	500.7	498.7	506.0
52.5°	10443.7	8536.0	3269.3	1242.5	723.8	552.6	585.9	511.4	487.4	482.7	490.1
55°	11003.6	9124.0	3471.0	1221.1	682.5	520.7	564.6	509.4	473.4	464.8	471.4
57.5°	11366.5	9460.9	3696.7	1203.2	619.9	496.7	545.3	510.7	474.7	455.4	459.4
60°	11246.0	9279.8	3785.3	1093.3	560.6	478.1	499.4	500.0	462.8	444.8	448.1
62.5°	10713.3	8623.9	3702.7	965.5	516.7	451.4	452.1	480.1	428.1	415.5	420.8
65°	9968.9	7808.3	3368.5	882.2	496.0	423.5	412.8	421.5	381.5	372.2	382.9
67.5°	9055.4	6802.9	2871.1	794.3	488.7	385.5	372.9	369.5	344.2	333.6	344.2
70°	7909.5	5696.2	2295.1	732.4	460.8	344.2	334.3	330.9	309.6	301.6	310.9
72.5°	6357.4	4447.8	1771.1	685.1	430.1	306.3	297.6	293.6	275.7	264.3	275.7
75°	4521.7	3399.1	1315.7	612.6	386.9	267.7	257.7	252.4	235.7	225.1	235.0
77.5°	3213.3	2551.5	918.9	506.7	318.9	226.4	220.4	211.7	197.1	184.4	194.4
80°	2375.7	1823.1	592.6	390.8	243.7	181.1	177.8	171.8	157.8	142.5	149.8
82.5°	1564.1	1314.4	339.6	265.0	177.1	130.5	133.2	129.2	115.9	99.9	103.9
85°	700.5	778.4	180.4	145.8	115.2	78.6	85.9	83.2	73.2	57.9	59.3
87.5°	67.2	131.2	55.3	53.3	42.6	24.6	30.6	26.0	22.0	14.0	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1559.4	1465.5	1371.6	1428.9	1430.2	1445.5	1447.5	1390.9	1436.2	1470.8	1506.8
5°	1584.0	1522.8	1526.1	1470.8	1440.9	1479.5	1471.5	1456.2	1483.5	1521.4	1567.4
7.5°	1405.6	1365.6	1359.0	1305.7	1176.5	1147.9	1171.9	1181.9	1218.5	1277.1	1326.3
10°	1097.3	1176.5	1087.3	1066.7	1032.7	966.1	927.5	922.9	1000.8	1048.0	1089.3
12.5°	988.8	968.8	958.1	901.5	901.5	831.0	808.3	829.0	948.8	982.8	1036.0
15°	842.3	827.6	778.4	750.4	737.1	708.5	732.4	752.4	864.3	866.9	922.9
17.5°	699.1	690.5	643.9	638.5	625.2	612.6	634.5	682.5	743.1	732.4	758.4
20°	625.2	595.3	552.6	568.0	554.0	544.0	534.7	602.6	645.2	659.2	674.5
22.5°	606.6	552.0	526.7	512.7	513.4	497.4	499.4	556.0	620.6	629.2	619.9
25°	693.1	595.9	514.0	473.4	458.1	452.8	468.1	518.0	595.9	614.6	621.9
27.5°	811.0	647.2	529.3	460.1	429.5	432.1	454.1	488.7	580.6	613.9	622.6
30°	778.4	608.6	530.0	450.1	412.2	426.1	434.1	467.4	568.6	618.6	661.8
32.5°	600.6	547.3	533.3	458.1	442.8	420.8	432.1	464.1	533.3	564.6	566.6
35°	508.7	468.1	458.8	440.1	418.8	409.5	422.1	450.1	495.4	514.7	512.0
37.5°	504.7	460.1	423.5	415.5	406.8	404.2	411.5	437.5	483.4	517.4	510.0
40°	511.4	456.1	418.8	404.8	408.2	396.2	403.5	435.5	485.4	517.4	510.7
42.5°	503.4	451.4	412.8	402.2	405.5	388.8	397.5	430.8	480.1	518.0	505.4
45°	487.4	440.8	409.5	391.5	406.8	382.2	392.8	418.8	464.1	505.4	490.7
47.5°	471.4	428.1	395.5	384.2	399.5	375.5	380.2	402.8	448.1	488.7	476.1
50°	454.1	412.2	384.2	380.9	391.5	374.2	366.9	385.5	428.8	469.4	458.8
52.5°	435.5	398.8	376.2	374.9	384.9	365.5	354.9	369.5	408.2	448.8	440.1
55°	417.5	384.2	366.2	369.5	380.9	358.2	344.9	354.2	386.2	426.1	414.2
57.5°	399.5	367.5	352.9	362.2	370.9	348.9	332.3	337.6	363.5	402.8	388.8
60°	383.5	352.9	338.2	349.6	357.6	334.9	315.6	318.9	342.2	377.5	364.9
62.5°	362.9	336.9	317.6	332.3	338.2	316.3	295.6	299.6	318.3	351.6	342.2
65°	333.6	316.9	299.0	308.9	316.9	294.3	275.0	279.7	293.6	324.9	318.3
67.5°	308.3	292.3	280.3	288.3	289.6	272.3	255.0	257.7	269.0	298.3	291.0
70°	280.3	265.0	255.7	261.7	261.0	246.4	233.0	233.7	243.0	269.7	259.7
72.5°	249.7	235.0	230.4	233.7	231.0	217.7	205.1	209.7	215.7	235.7	227.7
75°	217.1	203.7	201.1	204.4	200.4	187.8	176.4	181.1	186.4	203.1	193.1
77.5°	183.1	171.1	171.8	172.5	167.1	158.5	147.2	151.8	155.1	166.5	156.5
80°	145.8	136.5	139.2	139.2	133.2	127.2	116.5	117.9	119.9	123.8	116.5
82.5°	106.5	106.5	106.5	107.2	94.5	96.5	87.2	86.6	84.6	83.9	79.2
85°	63.3	65.9	67.2	69.2	51.3	59.9	51.9	49.9	45.9	41.9	40.6
87.5°	14.0	18.0	18.0	17.3	0.0	6.7	3.3	5.3	1.3	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



REPORT NUMBER: P598532

CATALOG NUMBER: PMM-SA4B-835-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1465.5	1425.6	1500.1	1566.7	1556.1	1594.7	1504.8	1638.0	1779.1	1779.1
5°	1555.4	1521.4	1540.7	1579.4	1608.7	1743.2	1855.0	1966.2	2195.9	2198.6
7.5°	1311.7	1384.9	1402.3	1390.9	1516.8	1689.9	1874.3	2191.3	2385.7	2401.0
10°	1226.5	1259.8	1312.4	1341.7	1392.9	1563.4	1792.4	2168.6	2375.0	2413.7
12.5°	1111.3	1234.5	1314.4	1478.2	1518.8	1552.7	1916.9	2242.5	2385.0	2375.7
15°	985.4	1078.7	1193.8	1375.0	1478.2	1737.8	1990.9	2479.6	2560.1	2630.7
17.5°	785.7	854.3	1007.4	1213.8	1469.5	1708.5	2173.3	2772.5	2923.0	2996.3
20°	646.5	647.2	800.3	1074.0	1352.3	1586.0	2242.5	3015.6	3206.7	3244.0
22.5°	611.2	580.6	661.2	883.6	1223.1	1658.6	2382.4	3406.4	3805.3	3899.1
25°	591.9	554.6	605.2	779.7	1130.6	1696.6	2664.0	3943.8	4455.8	4492.4
27.5°	599.9	617.2	633.2	695.1	1013.4	1625.3	2598.8	4184.1	4732.8	4802.0
30°	653.9	681.8	645.2	666.5	916.9	1522.1	2715.3	4574.3	5081.7	5198.2
32.5°	544.0	533.3	530.0	576.6	820.3	1428.9	2959.6	5123.6	5459.9	5606.4
35°	490.7	474.1	480.7	534.0	773.0	1415.6	3096.8	5578.4	6057.1	6147.0
37.5°	488.7	469.4	478.1	518.0	789.7	1439.5	3316.5	6308.1	7110.5	7302.9
40°	484.1	473.4	478.1	508.0	772.4	1452.9	3443.0	6921.4	7844.2	8039.3
42.5°	483.4	478.1	482.7	516.0	754.4	1458.9	3618.2	7475.4	8617.3	8771.1
45°	481.4	486.7	486.7	522.7	746.4	1498.8	3721.4	7747.0	9127.3	9317.1
47.5°	472.1	488.1	514.0	520.7	713.8	1480.2	3867.2	8159.2	9398.3	9576.7
50°	460.1	486.1	548.7	507.4	708.5	1434.9	4037.6	8486.1	9745.9	9901.0
52.5°	444.1	482.7	540.7	481.4	699.1	1426.9	4276.7	8910.9	10151.4	10288.5
55°	421.5	470.7	516.0	455.4	676.5	1401.6	4642.2	9437.6	10682.0	10775.9
57.5°	400.8	452.8	480.1	440.8	622.6	1406.9	4896.6	9867.1	11127.5	11209.4
60°	382.2	450.8	428.8	425.5	567.3	1335.7	4979.1	9862.4	11293.3	11421.8
62.5°	362.2	425.5	392.8	404.8	518.7	1262.4	4804.0	9439.6	11114.2	11339.2
65°	336.2	364.9	362.9	390.2	520.0	1143.2	4402.5	8693.8	10667.4	10963.7
67.5°	305.6	322.9	334.3	366.2	536.7	1050.7	3756.7	7797.0	9907.0	10259.2
70°	274.3	291.6	304.3	334.9	552.0	1008.1	2990.3	6537.2	8668.5	9026.1
72.5°	242.4	260.3	270.3	297.0	531.3	916.9	2213.2	5086.3	6958.0	7145.8
75°	209.1	226.4	234.4	259.0	461.4	758.4	1528.1	3852.5	5096.3	5286.8
77.5°	175.1	193.8	196.4	216.4	352.2	579.9	979.4	2955.0	3608.8	3736.0
80°	139.8	158.5	158.5	169.1	247.7	398.8	586.6	2229.2	2628.1	2678.0
82.5°	100.5	120.5	119.2	119.9	171.1	247.0	339.6	1670.6	1899.0	1908.3
85°	59.3	73.2	72.6	66.6	101.2	133.2	183.8	1037.4	1060.0	1062.7
87.5°	11.3	17.3	15.3	6.7	28.0	39.3	53.3	192.4	76.6	74.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)