

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: P271888

Luminaire Tested: **MPW-AF-D-U-ASYM-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14376)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-AF-D-U-ASYM-7027-600
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2419.3 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

Input Watts (W): 34
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

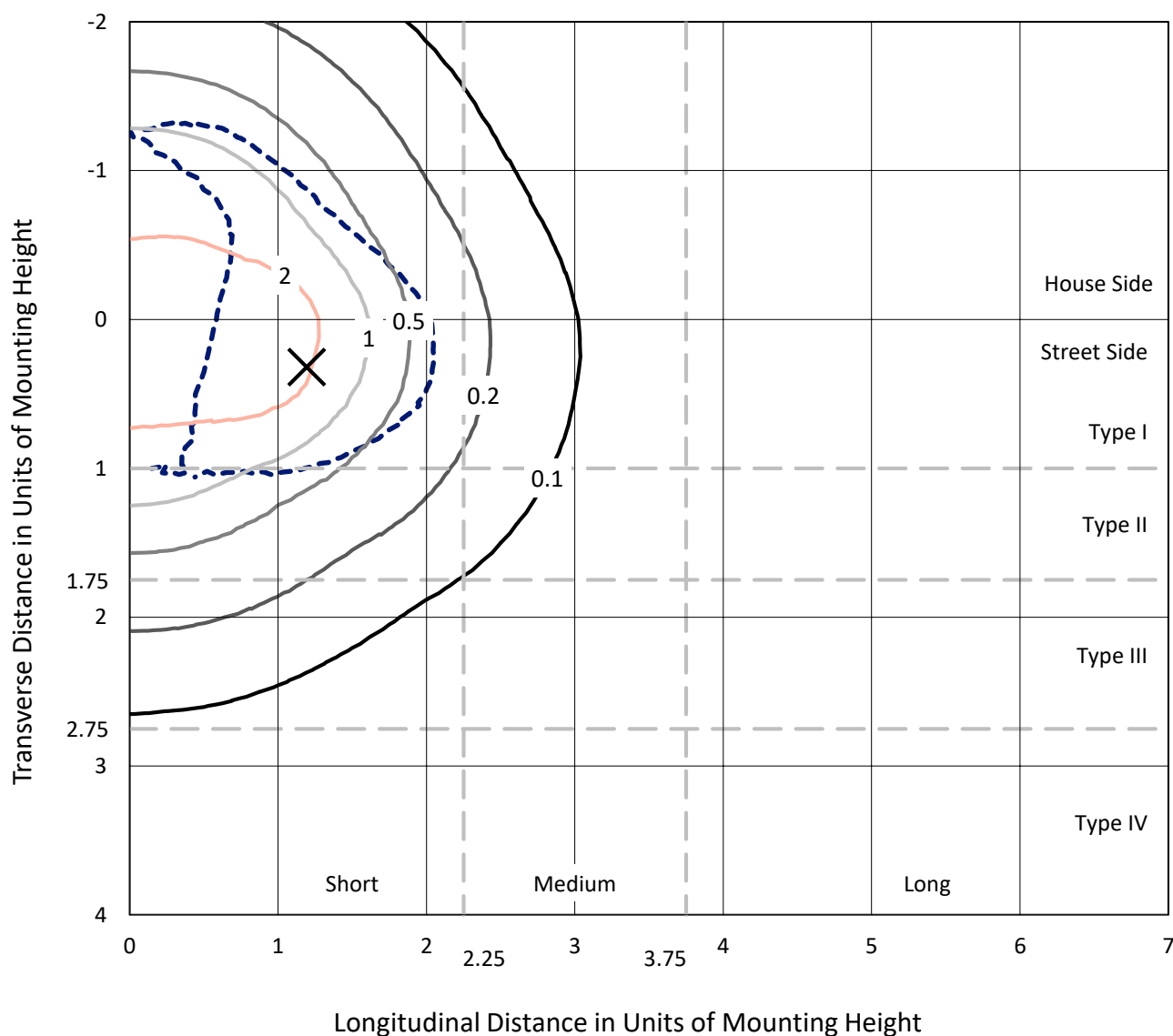


REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

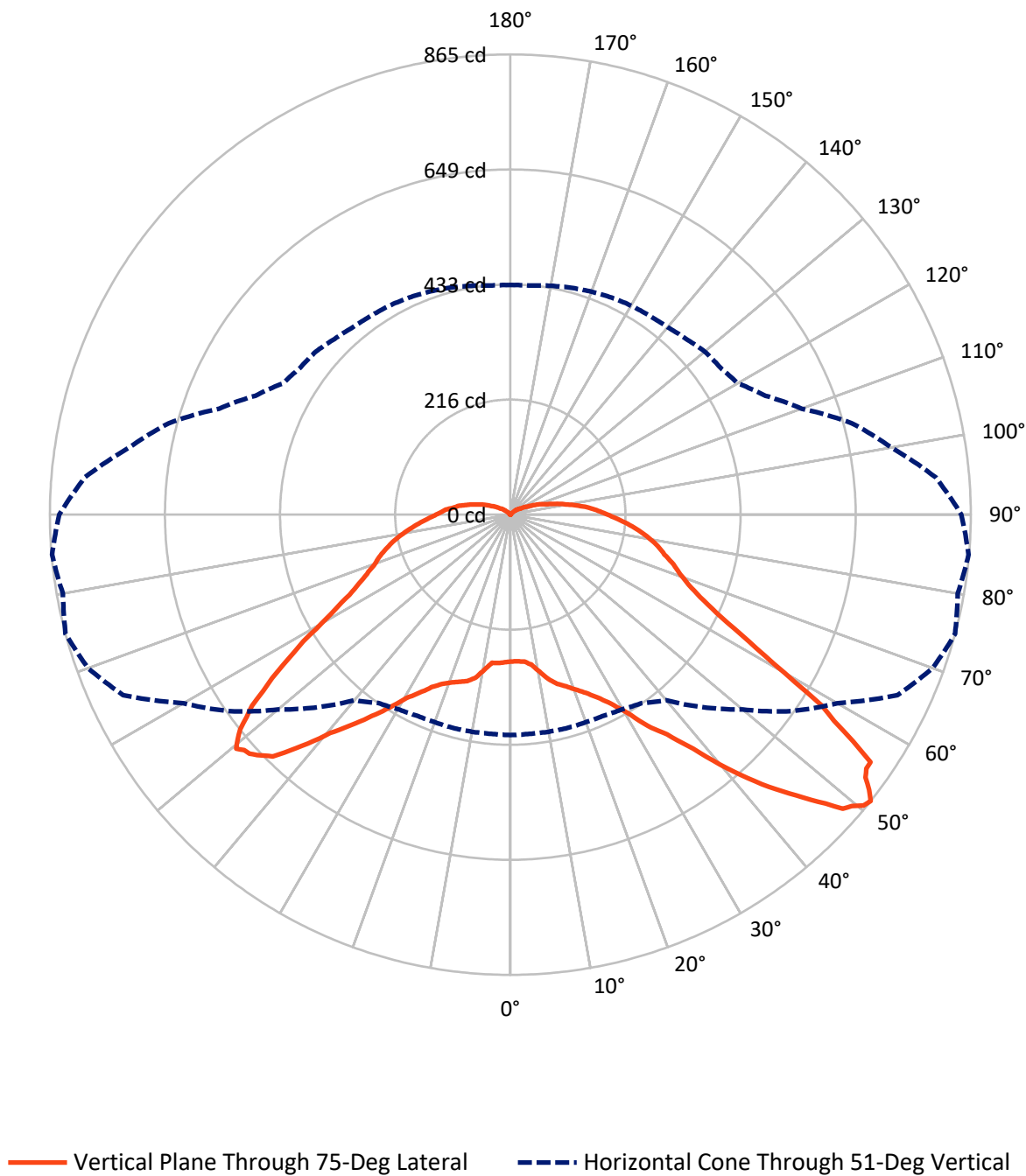


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

Luminous Intensity Polar Plot



REPORT NUMBER: P271888

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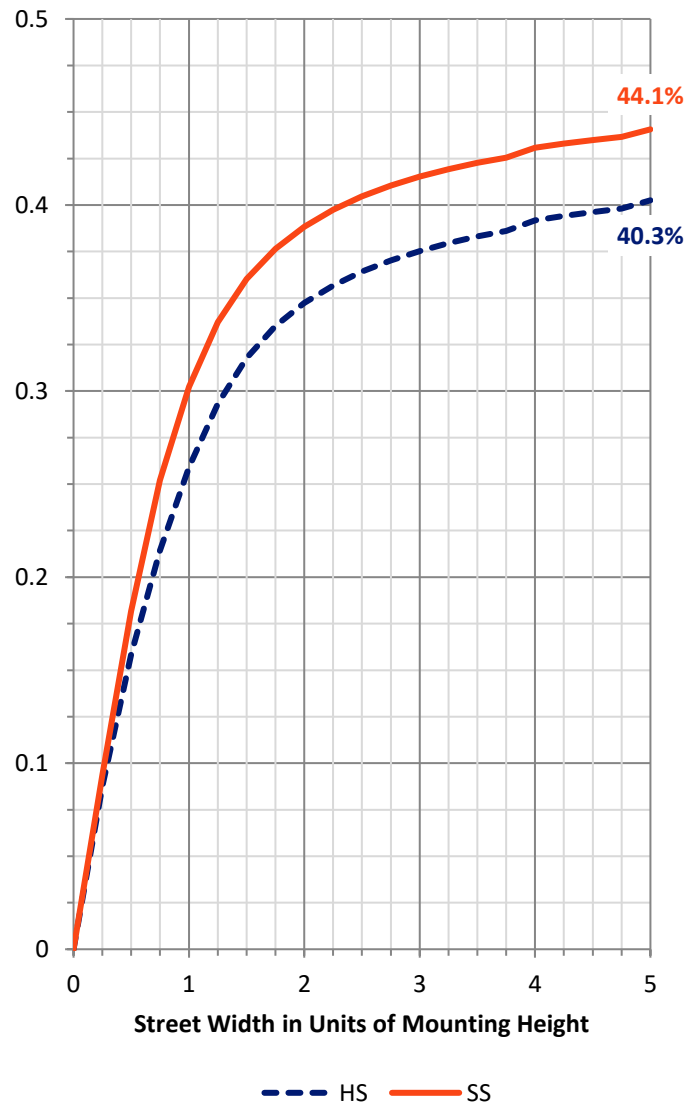
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.1	143.4	1172.5
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1113.7	133.1	1246.8
	% Fixture	46.0	5.5	51.5
Total	Lumens	2142.9	276.5	2419.3
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	1.1
10°-20°	87.4	3.6
20°-30°	160.0	6.6
30°-40°	264.1	10.9
40°-50°	411.0	17.0
50°-60°	443.9	18.3
60°-70°	309.1	12.8
70°-80°	249.5	10.3
80°-90°	191.3	7.9
90°-100°	136.4	5.6
100°-110°	82.2	3.4
110°-120°	39.2	1.6
120°-130°	15.6	0.6
130°-140°	3.0	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2142.9	88.6
0°-180°	2419.3	100.0

Coefficient of Utilization



REPORT NUMBER: P271888

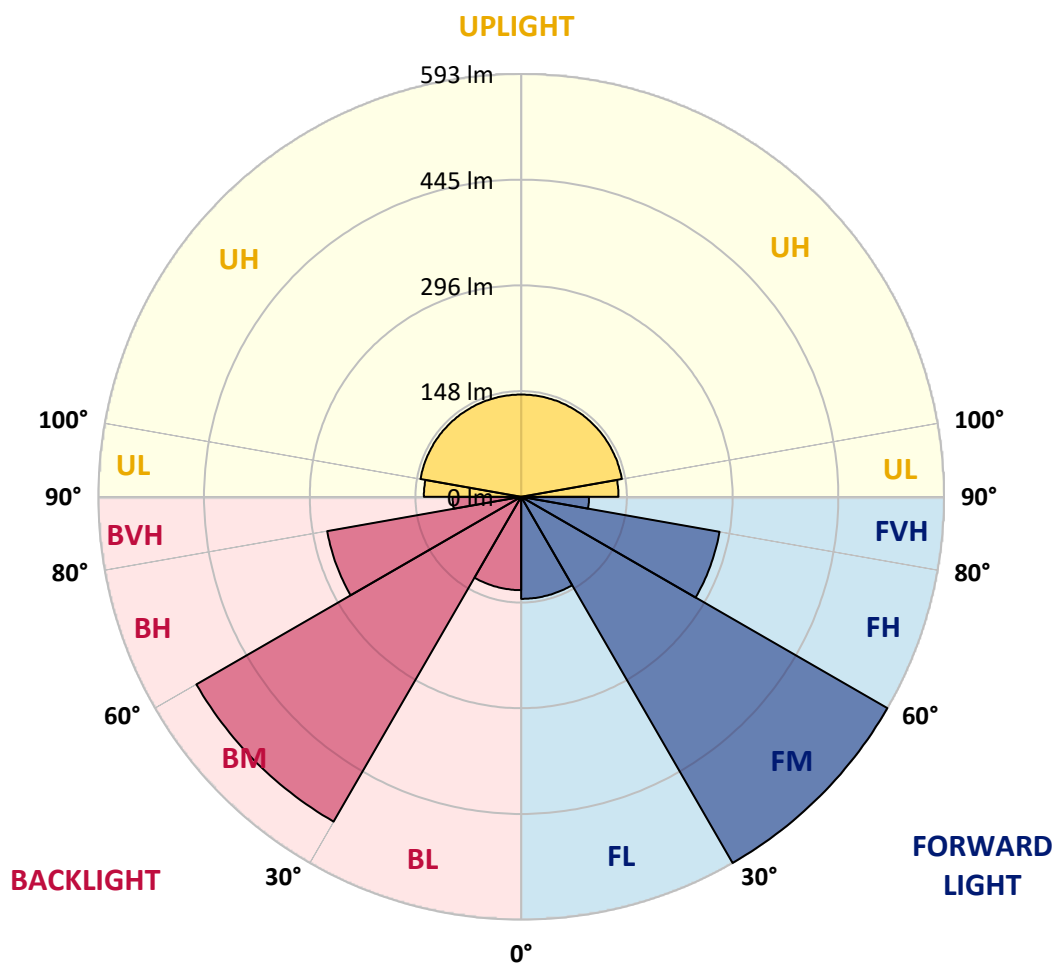
CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.1	5.9			
FM	(30°-60°)	592.9	24.5			
FH	(60°-80°)	282.5	11.7			G0/660
FVH	(80°-90°)	95.2	3.9			G1/100
BL	(0°-30°)	130.9	5.4	B1/500		
BM	(30°-60°)	526.0	21.7	B1/1000		
BH	(60°-80°)	276.2	11.4	B1/500		G1/500
BVH	(80°-90°)	96.1	4.0			G1/100
UL	(90°-100°)	136.4	5.6		U3/500	
UH	(100°-180°)	143.4	5.9		U3/500	

BUG Rating: B1-U3-G1

Type II Short





REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0
2.5°	274.4	274.4	274.4	274.4	275.2	274.4	275.2	274.4	275.2	275.2	276.0
5°	265.2	265.2	266.8	266.8	267.5	268.2	269.9	269.9	271.4	272.2	272.9
7.5°	269.9	270.6	270.6	269.9	270.6	272.2	272.9	274.4	276.8	278.4	280.6
10°	279.1	278.4	279.1	279.1	279.9	281.3	283.8	286.9	288.4	291.5	294.6
12.5°	290.0	290.0	291.5	291.5	293.0	295.4	299.2	300.8	303.1	307.0	310.1
15°	303.1	303.1	303.9	304.6	306.1	309.3	312.3	314.7	316.2	318.4	320.9
17.5°	317.8	319.3	320.1	321.6	322.4	324.6	326.3	327.1	327.8	328.6	330.9
20°	330.1	330.1	331.7	333.2	334.8	338.6	339.4	339.4	338.6	340.2	341.7
22.5°	330.1	329.4	333.2	338.6	342.5	346.4	348.7	350.2	351.8	351.0	353.3
25°	323.2	324.0	327.8	334.0	342.5	349.5	355.7	359.5	363.4	364.2	367.2
27.5°	333.2	333.2	337.1	342.5	349.5	357.2	364.9	372.7	378.1	383.5	387.3
30°	341.7	343.3	347.9	354.9	360.3	368.0	376.5	385.8	393.5	400.5	405.9
32.5°	357.2	358.0	361.1	365.7	373.4	382.7	392.8	403.6	415.2	423.7	432.2
35°	374.2	371.9	371.9	375.7	381.9	390.4	402.0	415.9	437.7	449.2	460.8
37.5°	387.3	387.3	388.1	390.4	393.5	399.7	410.5	427.5	453.0	479.3	490.9
40°	407.4	407.4	406.7	409.0	412.1	417.5	426.8	443.0	464.6	507.9	538.2
42.5°	422.1	421.3	422.1	425.3	426.0	429.9	439.1	457.0	480.1	520.3	572.8
45°	430.6	430.6	429.9	431.5	433.7	438.4	444.5	462.4	492.5	533.4	587.6
46°	431.5	431.5	430.6	432.2	434.5	438.4	443.9	460.8	494.1	537.4	588.4
47°	430.6	429.1	429.1	429.9	431.5	434.5	439.9	454.6	490.1	531.2	589.2
48°	428.3	427.5	428.3	429.9	429.9	433.7	438.4	452.3	485.5	530.4	599.2
49°	426.8	426.8	427.5	428.3	429.9	432.2	438.4	451.5	478.5	529.6	593.0
50°	423.7	423.7	424.4	426.0	425.3	426.0	432.2	442.2	467.0	523.4	585.2
51°	414.4	413.6	414.4	415.2	415.2	416.7	422.1	432.2	455.4	511.9	569.9
52°	402.8	402.8	403.6	405.1	405.9	407.4	412.1	421.3	443.0	499.5	555.9
53°	385.8	387.3	391.2	391.2	392.8	395.1	400.5	409.8	429.9	478.5	538.2
54°	377.3	378.8	382.7	385.0	386.6	391.2	396.6	404.3	421.3	462.4	532.0
55°	358.0	359.5	362.6	366.5	368.0	372.7	378.1	387.3	405.1	442.2	504.1
56°	343.3	344.1	347.9	350.2	351.0	353.3	358.0	364.2	379.6	409.8	468.6
57°	330.1	328.6	330.9	334.0	334.8	337.1	341.7	346.4	359.5	388.1	439.9
58°	310.8	307.7	310.8	313.1	314.7	317.0	321.6	325.5	337.1	363.4	409.0
59°	295.4	296.9	299.9	302.3	303.9	306.1	308.5	313.1	323.2	344.1	387.3
60°	284.5	285.3	286.9	289.2	290.7	293.0	295.4	299.2	308.5	327.1	365.7
61°	275.2	275.2	277.6	279.9	279.9	282.2	283.8	286.9	295.4	310.8	345.6
62°	267.5	266.0	268.2	271.4	271.4	273.7	274.4	277.6	284.5	297.7	329.4
63°	258.3	259.0	259.8	262.8	262.8	265.2	265.2	269.0	273.7	286.1	314.7
64°	249.7	252.1	251.3	253.6	254.4	255.2	256.6	259.0	263.7	276.0	301.5
65°	246.7	246.7	249.0	249.7	250.4	252.1	253.6	255.8	260.6	270.6	297.7
66°	242.0	242.0	243.5	245.1	245.1	246.7	249.0	251.3	255.2	264.4	289.2
67°	237.3	237.3	238.1	239.7	239.7	240.5	242.7	245.1	249.7	259.0	282.2
68°	232.8	232.8	233.5	234.3	234.3	235.1	237.3	240.5	245.1	253.6	276.0
69°	229.7	226.6	228.9	228.9	228.9	230.3	231.1	234.3	240.5	249.7	269.9
70°	221.9	222.7	223.5	224.1	224.1	223.5	224.1	228.1	233.5	242.7	262.8
72.5°	211.8	212.6	213.3	213.3	212.6	212.6	213.3	215.8	220.4	229.7	248.2



REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	197.2	198.6	198.6	198.6	197.2	197.2	198.0	199.4	202.6	211.1	227.3
77.5°	187.8	187.0	187.8	187.0	186.3	186.3	185.6	186.3	188.6	196.4	211.1
80°	177.1	174.7	175.5	173.9	173.9	173.2	171.7	171.7	173.9	183.3	194.8
82.5°	163.1	162.3	163.1	162.3	160.8	159.3	157.7	158.6	160.8	164.7	177.1
85°	150.7	152.4	151.5	149.9	147.7	146.2	144.5	145.3	146.2	149.2	160.8
87.5°	141.6	140.8	141.6	139.1	137.6	136.0	134.6	133.8	134.6	137.6	143.8
90°	132.9	132.9	132.2	131.4	129.2	128.4	126.0	125.2	125.2	128.4	136.0
92.5°	126.8	126.0	124.4	124.4	121.5	119.0	118.3	117.5	116.7	119.8	126.8
95°	116.7	116.0	116.0	115.3	112.8	111.3	109.9	109.1	109.9	111.3	117.5
97.5°	102.0	104.3	102.0	102.0	99.7	98.9	98.2	96.7	96.7	98.9	103.7
100°	95.8	95.1	94.3	93.5	92.7	92.0	91.3	90.5	90.5	92.7	95.8
102.5°	86.6	84.4	84.4	81.2	81.2	81.2	80.4	80.4	81.2	84.4	85.8
105°	72.7	72.0	72.0	71.1	71.1	70.3	70.3	69.6	71.1	72.0	75.0
107.5°	61.8	61.8	61.8	61.1	61.1	61.1	61.1	61.1	61.1	62.6	64.9
110°	52.6	51.8	52.6	51.8	52.6	51.8	51.8	51.8	53.4	54.1	58.0
112.5°	41.7	42.5	43.3	42.5	42.5	43.3	43.3	43.3	44.1	44.8	46.4
115°	34.8	32.5	32.5	33.2	32.5	33.2	33.2	34.8	34.8	36.3	36.3
117.5°	27.1	27.1	27.1	27.8	27.8	27.8	28.6	29.4	29.4	30.1	30.9
120°	20.1	20.9	19.3	21.6	20.1	20.9	20.9	21.6	24.0	22.4	23.2
122.5°	16.2	16.2	16.2	17.0	17.0	17.0	17.0	17.8	17.8	17.8	18.5
125°	13.1	13.9	14.7	14.7	13.9	14.7	14.7	14.7	15.5	17.0	17.0
127.5°	10.8	10.0	10.8	10.8	11.6	11.6	10.8	10.8	11.6	11.6	12.4
130°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.5	8.5	8.5	8.5
132.5°	2.3	3.1	3.1	3.1	3.1	3.9	3.1	3.9	3.9	3.1	3.9
135°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3	1.5	0.8	1.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.8	0.8	0.8	0.0	0.8	1.5	0.8	0.8	0.8	0.0	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0
2.5°	276.0	276.0	276.8	276.0	276.0	276.0	276.8	276.8	276.8	277.6	277.6
5°	272.9	275.2	275.2	276.8	277.6	278.4	279.1	278.4	279.1	279.1	279.9
7.5°	281.3	281.3	283.8	283.8	284.5	284.5	285.3	283.0	283.0	282.2	280.6
10°	297.7	299.2	299.9	300.8	299.9	299.2	297.7	297.7	297.7	296.1	295.4
12.5°	311.6	314.7	316.2	317.8	317.0	315.5	314.7	314.7	314.7	314.7	313.1
15°	324.0	326.3	328.6	330.1	329.4	330.1	327.8	327.8	327.8	325.5	323.2
17.5°	334.0	337.1	338.6	341.0	339.4	338.6	337.9	335.6	334.0	331.7	328.6
20°	344.8	347.1	349.5	351.8	351.0	349.5	347.1	344.8	341.7	339.4	334.8
22.5°	356.4	359.5	362.6	364.2	364.2	362.6	359.5	357.2	352.6	348.7	343.3
25°	370.3	374.2	378.1	379.6	380.4	378.8	374.2	371.1	367.2	361.8	356.4
27.5°	391.2	396.6	400.5	402.0	402.0	401.3	397.4	394.3	388.1	383.5	375.7
30°	411.3	420.6	427.5	434.5	431.5	428.3	426.0	421.3	413.6	405.9	395.8
32.5°	443.9	455.4	467.7	473.1	473.1	470.8	465.4	460.8	454.6	443.0	427.5
35°	476.2	490.9	505.7	507.9	507.3	506.5	501.7	501.7	495.5	477.0	459.2
37.5°	507.9	536.6	553.5	558.9	558.2	558.2	551.3	549.0	535.7	515.6	494.9
40°	546.6	586.9	620.1	629.4	627.1	623.2	613.9	609.2	592.3	561.4	532.0
42.5°	593.8	636.3	685.0	701.3	692.8	685.8	685.8	672.7	657.2	624.7	585.2
45°	634.7	670.3	742.2	766.2	753.0	739.1	744.5	739.1	720.6	679.6	637.1
46°	644.8	688.1	772.4	795.6	779.3	764.6	770.8	763.1	743.0	699.7	646.3
47°	659.4	704.3	794.8	821.9	804.1	781.6	797.2	787.1	760.8	715.2	656.4
48°	666.5	717.5	816.4	841.3	834.3	803.4	821.1	804.1	784.8	726.0	664.9
49°	662.6	715.9	818.0	851.2	843.5	822.7	835.1	817.2	782.4	736.8	668.0
50°	659.4	715.2	814.9	855.1	859.8	845.8	845.8	832.7	790.1	727.5	677.3
51°	644.1	709.0	802.5	844.2	865.2	853.6	864.3	847.4	802.5	726.8	664.2
52°	621.5	698.9	789.4	835.1	849.7	842.7	862.8	855.8	807.9	726.8	648.7
53°	600.8	688.9	765.4	818.7	830.3	818.0	834.3	838.8	784.0	719.8	624.7
54°	579.9	659.4	756.1	831.1	821.9	805.6	828.1	827.2	770.0	681.9	603.8
55°	551.3	620.9	718.3	801.0	821.1	806.4	824.1	808.7	735.3	647.0	570.5
56°	518.1	588.4	656.4	736.8	772.4	787.1	802.5	781.6	701.3	619.3	542.8
57°	482.4	539.6	597.6	666.5	721.4	732.9	743.8	732.2	654.1	579.9	511.9
58°	448.4	498.6	549.0	612.4	686.6	705.1	705.1	696.6	612.4	545.1	481.0
59°	425.3	469.4	511.9	571.3	621.5	631.7	637.9	633.2	572.1	511.0	456.2
60°	400.5	439.1	481.7	532.8	569.1	574.5	576.0	565.1	518.8	472.4	422.9
61°	377.3	413.6	448.4	493.3	526.5	533.4	533.4	519.6	481.0	436.0	396.6
62°	359.5	391.2	420.6	458.5	490.9	499.5	495.5	484.7	450.8	409.0	375.0
63°	343.3	372.7	398.9	429.9	456.2	463.9	460.0	452.3	422.9	387.3	357.2
64°	328.6	354.9	378.8	405.9	429.1	436.0	429.1	423.7	398.9	364.9	337.9
65°	321.6	346.4	367.2	390.4	408.2	412.1	407.4	398.9	378.8	351.0	324.6
66°	313.9	336.3	355.7	375.0	388.9	392.8	388.9	380.4	361.1	336.3	312.3
67°	305.4	326.3	344.8	362.6	374.2	376.5	374.2	366.5	347.1	324.0	301.5
68°	298.5	318.4	334.8	351.0	360.3	363.4	362.6	354.1	333.2	312.3	291.5
69°	292.3	310.8	327.8	341.0	350.2	351.0	351.0	343.3	324.0	303.9	283.8
70°	285.3	303.1	317.8	331.7	339.4	341.0	341.0	333.2	316.2	295.4	273.7
72.5°	271.4	286.9	302.3	313.1	320.9	323.2	325.5	317.8	298.5	279.1	259.0



REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	252.1	266.0	280.6	290.7	299.2	301.5	304.6	299.2	279.9	260.6	242.7
77.5°	232.8	246.7	261.4	273.7	283.0	286.1	288.4	283.0	263.7	245.9	226.6
80°	213.3	225.7	242.0	253.6	263.7	266.0	269.0	260.6	245.9	225.7	208.0
82.5°	195.7	207.1	221.9	233.5	243.5	247.4	245.9	239.7	223.5	205.6	190.2
85°	177.1	187.8	201.0	211.1	221.2	223.5	222.7	215.8	201.8	186.3	172.5
87.5°	161.5	171.7	182.4	189.5	198.6	200.2	199.4	192.5	180.9	168.5	156.1
90°	148.4	156.9	167.1	172.5	178.7	183.3	181.6	174.7	163.9	153.9	141.6
92.5°	139.1	145.3	153.1	158.6	162.3	165.5	165.5	159.3	149.9	140.0	130.6
95°	126.0	131.4	138.4	142.2	145.3	149.2	149.2	144.5	136.8	129.2	121.5
97.5°	111.3	115.3	119.0	122.2	124.4	127.6	126.0	123.7	119.0	112.8	107.4
100°	98.9	100.5	102.9	105.1	105.9	108.2	109.1	108.2	105.1	102.0	98.9
102.5°	88.1	89.7	89.7	90.5	90.5	89.7	90.5	89.7	88.9	89.7	86.6
105°	75.0	76.5	75.0	73.4	73.4	74.2	75.0	75.7	75.7	76.5	75.7
107.5°	66.5	66.5	65.8	64.2	64.2	64.2	64.2	64.2	65.8	66.5	65.8
110°	57.2	55.7	55.7	54.9	54.1	54.1	54.9	54.1	54.9	56.4	57.2
112.5°	47.3	46.4	45.6	44.8	43.3	44.1	45.6	45.6	47.3	47.9	47.9
115°	36.3	37.1	37.9	35.6	34.8	34.8	34.8	36.3	37.1	37.1	38.6
117.5°	30.9	31.7	30.9	30.9	30.1	30.1	30.9	30.9	32.5	34.0	34.0
120°	24.0	23.2	23.2	24.7	23.2	24.0	24.7	24.0	24.0	26.3	27.8
122.5°	19.3	20.1	20.1	19.3	20.1	20.9	20.1	20.9	20.1	20.9	21.6
125°	17.8	17.8	17.8	17.8	17.8	18.5	19.3	19.3	18.5	18.5	19.3
127.5°	13.1	13.9	13.9	14.7	14.7	14.7	15.5	15.5	14.7	14.7	14.7
130°	10.0	10.0	10.8	13.1	11.6	11.6	12.4	11.6	12.4	12.4	10.8
132.5°	3.9	4.6	4.6	5.4	6.2	7.0	7.0	7.0	6.2	7.0	6.2
135°	2.3	1.5	2.3	3.1	2.3	3.9	3.9	3.1	3.9	3.9	3.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.5	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.5	0.8
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0
2.5°	277.6	277.6	276.8	277.6	278.4	277.6	277.6	277.6	276.8	277.6	277.6
5°	279.9	279.9	280.6	279.9	280.6	280.6	280.6	279.9	279.1	279.1	277.6
7.5°	279.9	279.1	279.9	279.9	279.1	276.8	274.4	272.2	270.6	269.9	269.0
10°	293.7	291.5	288.4	284.5	280.6	276.8	273.7	269.9	266.0	264.4	261.4
12.5°	308.5	305.4	300.8	298.5	293.7	290.0	284.5	279.9	275.2	269.0	266.0
15°	320.1	317.8	313.9	309.3	302.3	296.1	290.0	284.5	279.9	276.0	272.2
17.5°	327.8	324.0	319.3	312.3	307.7	302.3	296.9	292.3	288.4	283.8	279.9
20°	331.7	327.1	322.4	318.4	313.9	308.5	304.6	299.2	294.6	288.4	284.5
22.5°	339.4	334.8	331.7	324.6	319.3	315.5	311.6	307.0	301.5	294.6	287.5
25°	350.2	344.8	338.6	333.2	329.4	324.6	318.4	310.1	303.9	297.7	293.0
27.5°	368.8	361.1	352.6	347.1	341.7	334.0	327.1	320.9	314.7	308.5	301.5
30°	384.3	371.9	363.4	356.4	346.4	340.2	333.2	326.3	319.3	313.9	309.3
32.5°	413.0	396.6	382.7	372.7	361.8	354.1	347.1	341.7	334.8	328.6	323.2
35°	439.1	420.6	403.6	388.1	378.1	370.3	361.8	354.1	347.1	341.0	336.3
37.5°	467.0	442.2	421.3	406.7	396.6	387.3	378.8	371.1	364.9	359.5	354.9
40°	501.7	469.4	445.3	429.1	416.7	406.7	397.4	388.9	383.5	378.1	374.2
42.5°	549.0	501.1	473.1	455.4	438.4	427.5	417.5	411.3	405.9	399.7	396.6
45°	580.7	530.4	490.9	468.6	454.6	445.3	439.1	432.2	430.6	424.4	419.1
46°	588.4	532.0	495.5	468.6	458.5	450.1	443.0	439.1	436.0	431.5	426.0
47°	587.6	530.4	493.3	468.6	459.2	453.0	447.6	446.9	440.7	436.0	433.7
48°	586.9	538.2	497.9	473.9	466.2	458.5	453.0	450.1	446.9	442.2	437.7
49°	585.2	535.0	498.6	478.5	471.6	463.2	457.0	453.0	449.2	445.3	441.4
50°	586.1	534.2	497.1	482.4	476.2	468.6	460.8	455.4	452.3	448.4	443.9
51°	582.2	528.8	493.3	481.7	477.0	467.0	460.0	456.2	453.8	450.1	446.1
52°	573.7	523.4	489.4	477.0	473.9	463.9	456.2	453.0	450.8	446.9	443.0
53°	551.3	501.7	470.0	461.5	457.7	450.8	448.4	446.9	445.3	443.0	438.4
54°	528.0	484.0	460.0	452.3	449.2	443.9	440.7	443.0	440.7	440.7	436.0
55°	508.7	467.7	448.4	441.4	438.4	433.7	430.6	431.5	431.5	430.6	426.0
56°	490.9	457.0	437.7	429.9	426.8	422.9	421.3	421.3	421.3	419.8	415.9
57°	467.7	439.1	426.8	421.3	418.3	414.4	414.4	413.6	412.1	409.8	408.2
58°	443.0	413.6	402.0	395.8	395.1	392.0	392.8	393.5	393.5	391.2	390.4
59°	418.3	392.8	381.2	377.3	374.2	374.2	375.0	375.7	376.5	376.5	374.2
60°	390.4	367.2	358.0	355.7	354.9	354.9	354.9	357.2	358.7	359.5	359.5
61°	369.6	348.7	339.4	337.1	337.1	337.1	337.9	340.2	341.0	341.7	341.0
62°	350.2	330.9	322.4	321.6	321.6	322.4	322.4	324.6	324.6	325.5	324.6
63°	331.7	314.7	308.5	306.1	307.7	307.7	307.0	309.3	311.6	310.8	309.3
64°	313.1	299.2	293.0	292.3	291.5	292.3	291.5	293.7	294.6	294.6	296.1
65°	303.9	290.7	283.8	282.2	283.8	283.0	285.3	286.1	286.9	287.5	286.9
66°	293.7	281.3	276.0	272.9	273.7	273.7	276.0	276.8	278.4	277.6	279.9
67°	285.3	272.2	266.8	265.2	265.2	265.2	266.0	268.2	269.0	270.6	270.6
68°	276.0	264.4	260.6	259.0	259.0	258.3	259.0	261.4	262.0	263.7	264.4
69°	268.2	257.5	253.6	251.3	252.9	251.3	252.1	255.8	255.2	256.6	261.4
70°	261.4	250.4	247.4	247.4	245.9	246.7	246.7	248.2	249.0	252.1	251.3
72.5°	248.2	238.9	234.3	235.1	235.1	235.1	235.9	237.3	238.1	240.5	242.0



REPORT NUMBER: P271888

CATALOG NUMBER: MPW-AF-D-U-ASYM-7027-600

REPORT N

CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	229.7	221.9	219.5	219.5	219.5	221.2	221.2	221.9	225.7	227.3	227.3	0°
77.5°	216.5	208.8	206.4	206.4	208.0	208.8	210.3	211.8	213.3	216.5	217.3	2.5°
80°	198.6	192.5	191.8	192.5	194.0	195.7	197.2	201.0	202.6	203.4	208.0	5°
82.5°	183.3	177.1	177.1	178.7	180.9	182.4	185.6	187.0	188.6	191.0	192.5	7.5°
85°	165.5	160.8	162.3	163.9	167.7	168.5	170.0	173.2	175.5	176.2	178.7	10°
87.5°	149.9	147.7	148.4	150.7	153.1	156.9	158.6	160.1	163.1	164.7	164.7	12.5°
90°	137.6	135.4	137.6	140.8	143.0	144.5	147.0	148.4	150.7	151.5	152.4	15°
92.5°	127.6	126.0	128.4	131.4	133.8	134.6	136.0	140.0	140.8	142.2	142.2	17.5°
95°	118.3	117.5	119.8	122.2	124.4	126.8	128.4	130.6	132.9	133.8	133.8	20°
97.5°	105.1	104.3	106.7	111.3	112.1	112.8	114.4	116.0	119.0	119.8	119.0	22.5°
100°	98.2	97.5	98.2	101.3	102.0	105.1	105.9	108.2	109.1	110.5	109.9	25°
102.5°	85.1	85.8	87.3	87.3	90.5	90.5	92.7	94.3	95.1	97.5	100.5	27.5°
105°	75.7	75.7	76.5	76.5	78.2	78.8	78.8	81.2	82.7	82.7	83.5	30°
107.5°	66.5	66.5	67.2	68.0	68.8	68.8	69.6	71.1	71.1	72.7	72.7	32.5°
110°	57.2	58.7	58.0	58.0	58.0	59.6	60.3	60.3	61.1	61.8	61.8	35°
112.5°	48.7	48.7	48.7	49.5	50.2	50.2	51.0	51.0	51.8	52.6	52.6	37.5°
115°	39.4	39.4	40.2	39.4	38.6	39.4	39.4	40.2	41.1	40.2	44.8	40°
117.5°	34.8	34.0	33.2	34.0	33.2	33.2	33.2	34.0	34.8	34.8	36.3	42.5°
120°	25.5	25.5	25.5	25.5	27.1	25.5	25.5	24.7	26.3	25.5	26.3	45°
122.5°	21.6	20.9	20.9	20.9	20.9	20.9	20.9	21.6	20.9	21.6	20.9	46°
125°	18.5	18.5	20.1	18.5	17.8	18.5	18.5	18.5	18.5	19.3	22.4	47°
127.5°	14.7	15.5	14.7	14.7	14.7	15.5	14.7	14.7	15.5	16.2	15.5	48°
130°	12.4	10.8	11.6	11.6	11.6	11.6	11.6	11.6	12.4	13.9	13.1	49°
132.5°	6.2	6.2	6.2	7.0	7.7	7.7	7.0	7.7	7.7	8.5	7.7	50°
135°	4.6	5.4	3.9	3.9	5.4	4.6	6.2	5.4	5.4	5.4	4.6	51°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52°
140°	1.5	1.5	0.8	0.8	0.8	1.5	0.8	1.5	0.8	1.5	1.5	53°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°



NUMBER: P271888

NUMBER: MPW-AF-D-U-ASYM-7027-600

REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
276.0	276.0	276.0	276.0
277.6	276.0	276.8	276.8
277.6	277.6	277.6	276.0
267.5	268.2	267.5	267.5
259.8	258.3	257.5	256.6
264.4	263.7	262.8	262.8
269.9	268.2	267.5	267.5
276.0	274.4	272.2	275.2
281.3	279.1	276.8	276.8
283.0	280.6	278.4	277.6
286.9	283.0	280.6	280.6
296.9	293.0	291.5	290.7
303.9	300.8	296.9	296.1
318.4	315.5	313.9	312.3
333.2	330.1	328.6	327.1
352.6	347.9	345.6	344.8
371.1	367.2	364.9	367.2
392.8	388.9	387.3	385.8
415.9	411.3	406.7	406.7
422.1	418.3	415.9	415.2
428.3	424.4	419.8	418.3
435.3	429.9	426.0	426.0
436.8	432.9	429.1	427.5
439.9	436.8	432.2	431.5
441.4	436.8	432.2	431.5
439.1	435.3	431.5	430.6
436.0	431.5	426.8	429.9
432.2	428.3	424.4	423.7
423.7	419.8	415.9	415.9
413.6	410.5	406.7	405.1
405.9	399.7	394.3	395.1
386.6	383.5	379.6	378.8
371.1	370.3	368.0	367.2
358.0	355.7	354.1	353.3
338.6	338.6	335.6	334.8
324.0	322.4	320.9	320.9
310.8	309.3	308.5	309.3
296.1	296.9	294.6	296.1
288.4	289.2	288.4	286.9
279.9	280.6	279.1	279.9
272.9	272.9	272.2	271.4
266.8	266.8	265.2	265.2
259.0	260.6	259.8	259.0
254.4	254.4	255.2	252.9
242.7	244.2	244.2	244.2

CANDELA DISTRIBUTION:

	165°
75°	228.9
77.5°	218.7
80°	206.4
82.5°	193.2
85°	179.4
87.5°	164.7
90°	153.9
92.5°	142.2
95°	135.4
97.5°	120.6
100°	111.3
102.5°	97.5
105°	83.5
107.5°	72.7
110°	61.8
112.5°	53.4
115°	41.7
117.5°	35.6
120°	27.1
122.5°	22.4
125°	20.1
127.5°	15.5
130°	12.4
132.5°	7.7
135°	6.2
137.5°	0.0
140°	1.5
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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MPW-AF-D-U-ASYM-7027-600

TION (continued):

[illegible]

(END OF REPORT)