

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: P314607

Luminaire Tested: **MPW-A3-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A3-D-U-ASYM
Description: WOODBRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3216 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

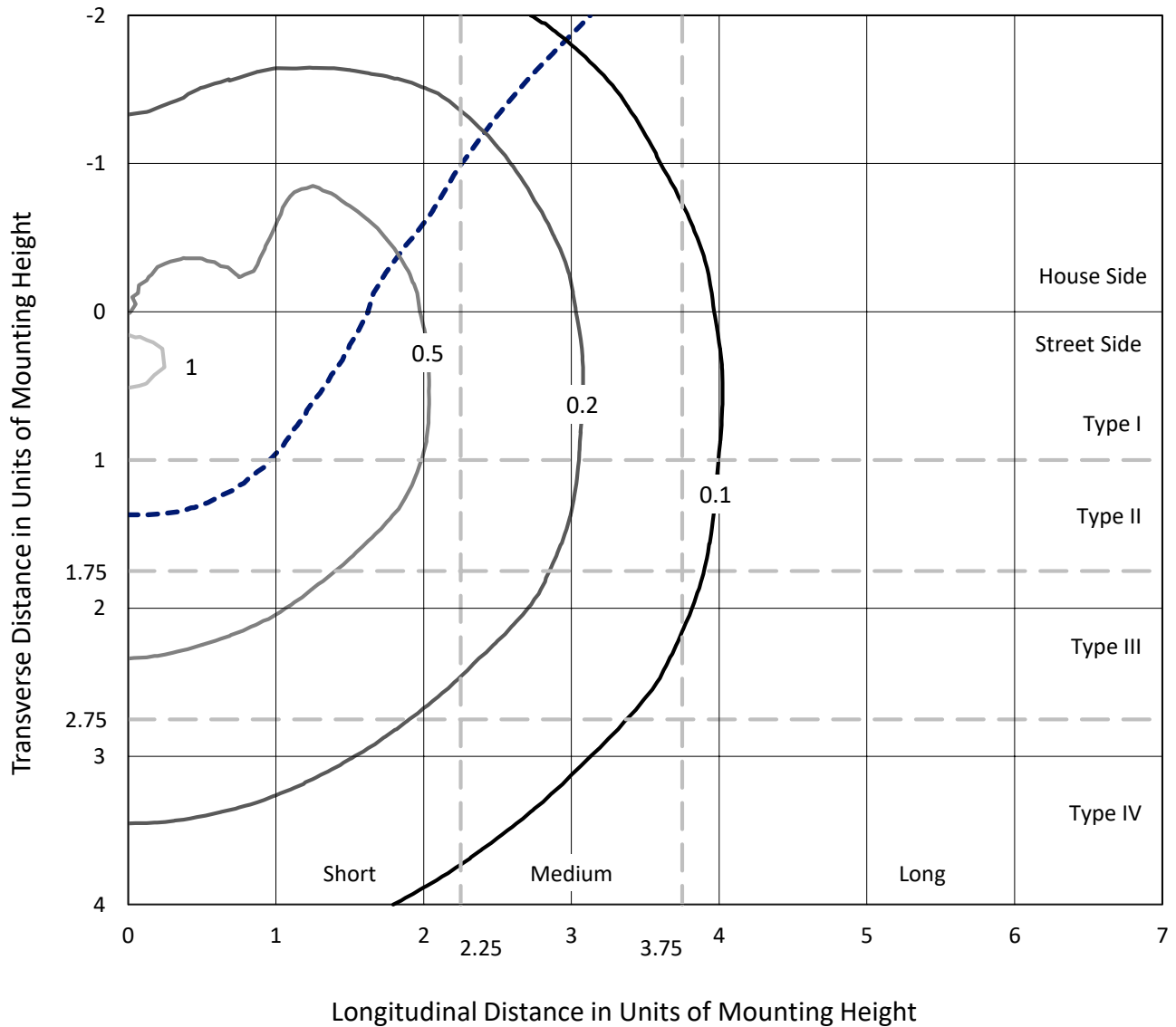
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

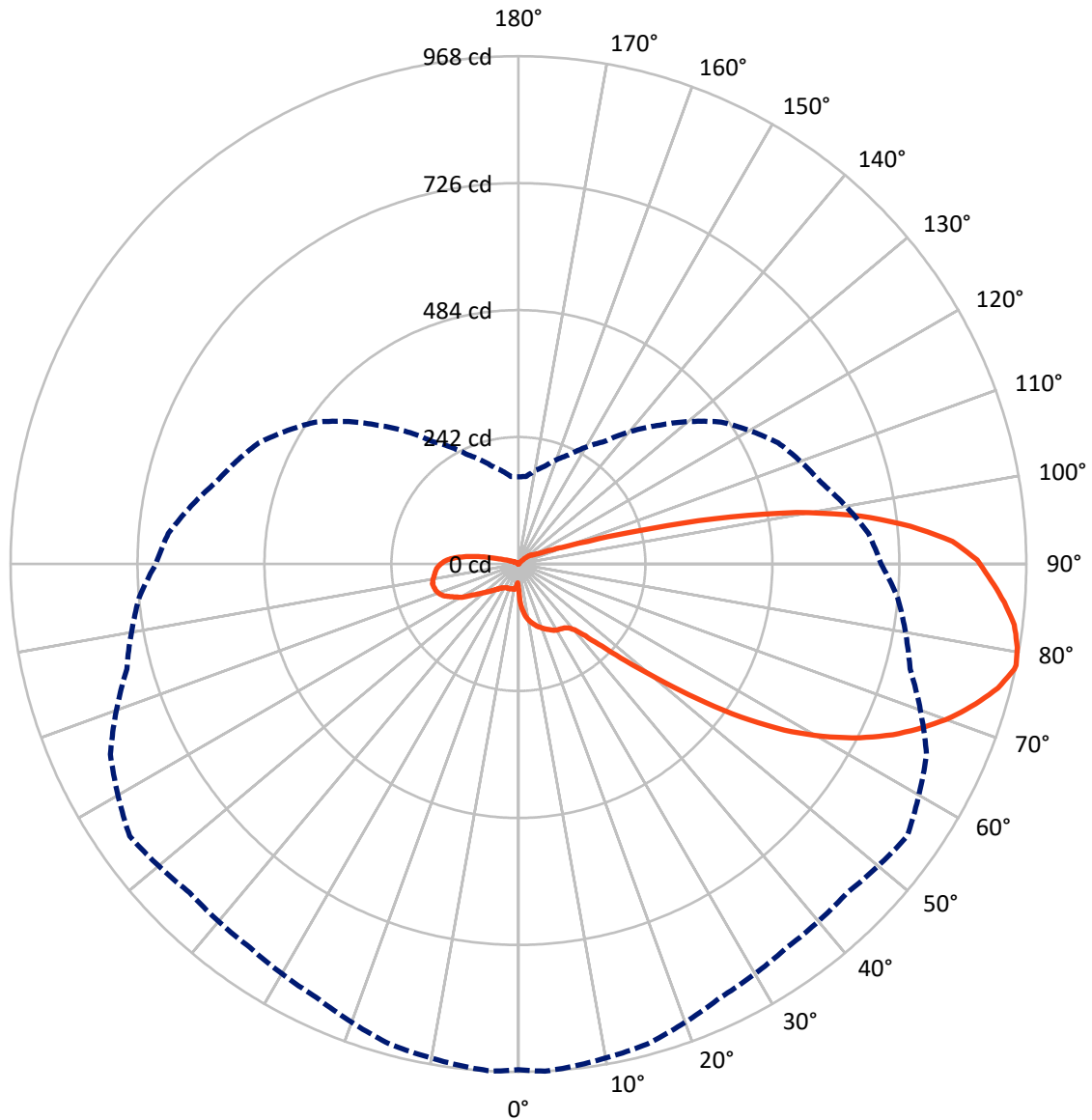
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 3-Deg Lateral - - - Horizontal Cone Through 78-Deg Vertical



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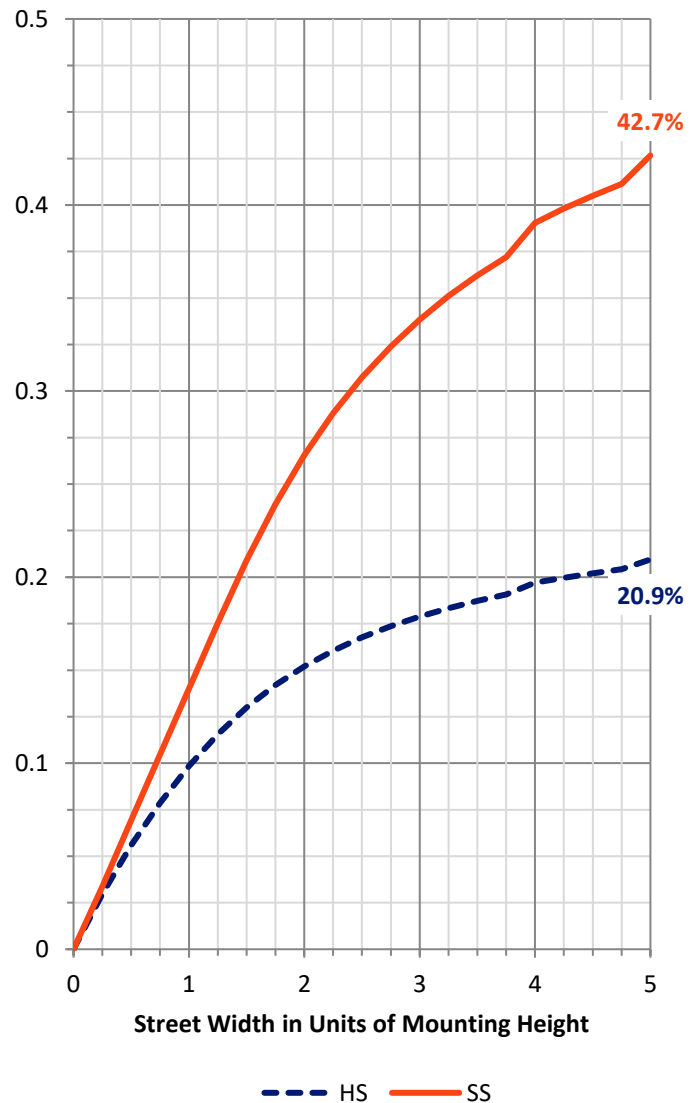
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.2	247.7	1015.9
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	1654.8	545.3	2200.1
	% Fixture	51.5	17.0	68.4
Total	Lumens	2423.0	793.0	3216.0
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.2
10°-20°	24.5	0.8
20°-30°	45.9	1.4
30°-40°	68.3	2.1
40°-50°	133.5	4.2
50°-60°	319.1	9.9
60°-70°	511.4	15.9
70°-80°	648.8	20.2
80°-90°	665.0	20.7
90°-100°	537.8	16.7
100°-110°	194.9	6.1
110°-120°	39.5	1.2
120°-130°	17.5	0.5
130°-140°	3.3	0.1
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°	2423.0	75.3
0°-180°	3216.0	100.0



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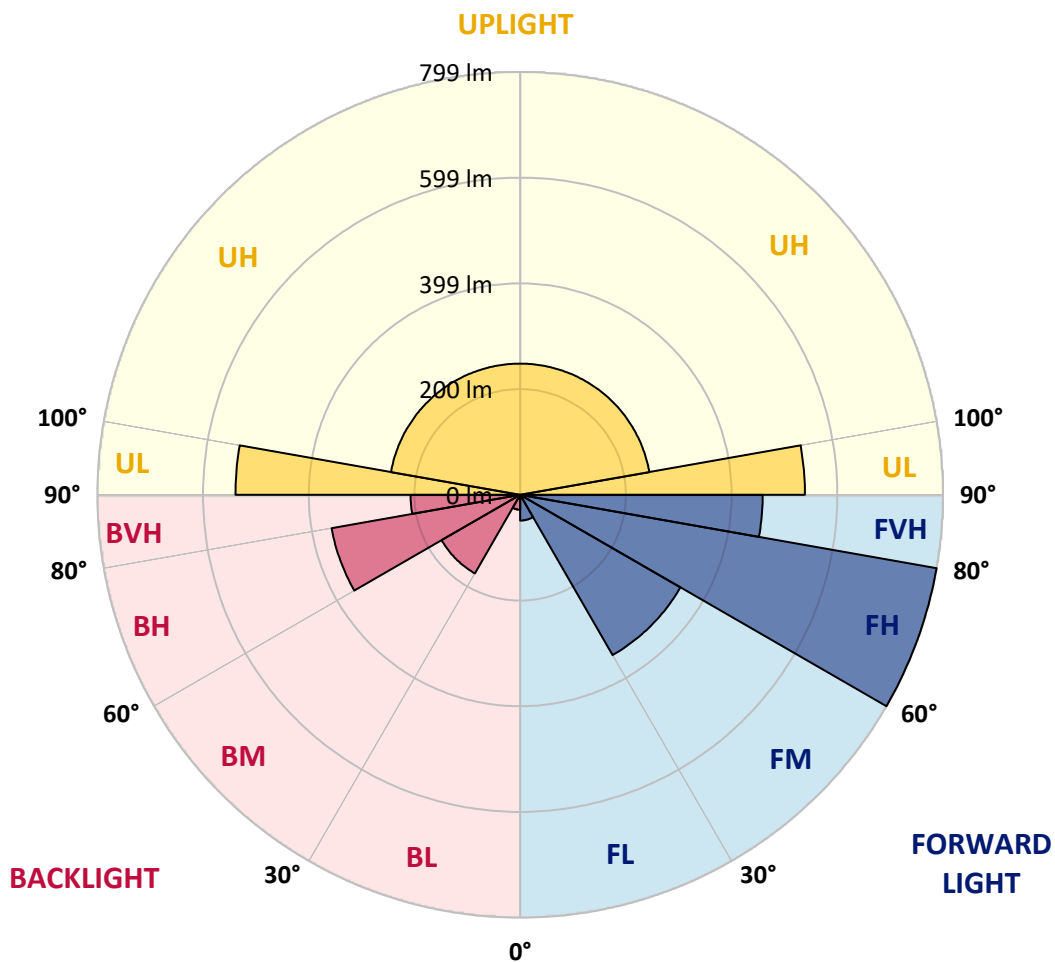
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.7	1.5			
FM (30°-60°)	349.5	10.9			
FH (60°-80°)	798.6	24.8			G1/1800
FVH (80°-90°)	458.0	14.2			G3/500
BL (0°-30°)	28.2	0.9	B0/110		
BM (30°-60°)	171.3	5.3	B0/220		
BH (60°-80°)	361.6	11.2	B1/500		G1/500
BVH (80°-90°)	207.0	6.4			G2/225
UL (90°-100°)	537.8	16.7		U4/1000	
UH (100°-180°)	247.7	7.7		U3/500	

BUG Rating: B1-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	77.1	75.6	75.6	74.7	73.7	70.8	69.3	66.4	62.9	59.0	55.6
5°	90.8	89.8	89.8	89.3	88.8	86.4	83.9	80.0	75.1	70.3	64.4
7.5°	101.0	101.0	100.5	100.0	98.6	95.6	92.7	88.8	83.9	79.5	74.7
10°	109.3	109.3	109.3	107.8	105.9	103.4	99.5	95.1	89.8	84.9	79.5
12.5°	115.2	115.2	115.2	113.2	111.2	108.8	104.4	100.0	94.7	89.8	84.4
15°	121.5	121.0	121.5	118.1	116.1	113.7	109.3	105.4	100.0	95.6	90.3
17.5°	125.9	125.9	125.4	123.9	121.5	118.6	114.2	110.3	105.4	100.5	95.1
20°	130.3	130.3	129.8	128.3	126.4	123.4	119.5	114.7	110.3	105.4	99.5
22.5°	134.2	134.7	134.2	132.7	130.8	128.3	124.9	120.0	115.2	109.8	103.9
25°	138.6	138.6	139.1	137.6	135.2	132.7	129.3	124.9	120.0	114.2	107.3
27.5°	143.0	143.0	143.0	141.5	138.6	136.1	132.2	128.3	123.0	116.6	109.8
30°	145.4	145.9	145.4	144.4	141.5	138.6	134.7	130.3	124.9	118.1	111.2
32.5°	147.4	147.4	147.4	145.9	143.0	140.0	136.1	130.8	125.4	119.1	111.7
35°	149.8	149.8	149.3	147.8	145.4	142.5	138.1	133.2	127.4	121.0	113.2
37.5°	154.2	154.2	153.7	152.2	149.8	147.8	143.9	139.1	133.7	127.4	118.1
40°	165.4	164.9	164.4	163.9	162.0	162.0	159.1	154.7	148.3	142.5	130.8
42.5°	188.3	186.9	186.9	186.9	185.9	187.4	186.4	182.0	175.7	167.9	153.7
45°	226.4	223.5	223.5	222.5	224.5	224.9	224.9	220.5	212.7	203.0	185.9
47.5°	280.6	275.7	276.7	273.2	271.8	276.7	277.6	270.3	265.9	249.8	226.4
50°	348.4	342.0	345.0	339.6	333.7	340.1	343.0	338.6	332.3	311.3	284.5
52.5°	426.5	425.0	420.6	413.8	414.3	417.7	420.1	428.4	415.7	388.9	356.2
55°	516.7	515.3	513.8	499.2	499.6	499.6	504.0	512.3	501.6	462.1	429.9
57.5°	601.6	597.2	598.2	580.6	576.3	565.5	571.9	582.1	563.1	517.7	482.1
60°	669.9	666.5	664.1	649.0	641.6	627.0	625.0	637.7	616.3	562.1	522.1
62.5°	730.4	729.5	726.1	704.6	698.7	677.7	673.8	686.0	658.7	598.2	557.7
65°	788.0	784.1	773.9	756.3	748.5	723.6	723.1	736.8	707.0	640.2	594.3
67.5°	833.9	831.4	830.5	803.1	788.0	765.6	761.7	780.2	745.6	669.0	623.6
70°	874.9	874.9	871.9	850.0	827.1	807.0	801.7	823.6	784.1	709.0	661.6
72.5°	912.4	911.0	909.5	890.0	860.7	838.8	831.9	857.3	812.4	731.4	685.6
75°	939.8	943.7	940.3	922.7	890.5	867.6	861.7	885.6	839.3	758.7	711.4
77.5°	960.3	965.6	962.2	944.6	908.5	887.6	882.2	902.7	855.8	770.9	725.6
78°	963.7	967.6	964.7	947.1	911.0	891.9	885.6	904.1	857.8	772.4	725.1
80°	961.7	963.7	962.7	948.1	909.5	891.5	881.7	899.8	853.9	767.0	719.2
82.5°	950.5	952.0	952.0	939.3	894.4	882.2	873.9	893.9	847.1	763.1	725.1
85°	925.6	928.5	929.5	920.2	875.8	863.6	853.9	872.9	822.7	742.2	700.2
87.5°	901.7	901.2	901.2	893.9	851.9	842.7	833.9	851.5	805.1	726.5	689.5
90°	873.4	873.9	875.4	867.1	825.1	816.8	807.5	828.5	783.1	713.4	679.2
92.5°	826.6	828.0	827.5	820.7	782.2	775.3	767.0	785.6	743.6	674.8	643.1
95°	747.5	750.4	749.5	744.6	714.8	703.6	695.8	716.8	678.2	616.8	590.9
97.5°	653.3	657.3	656.8	651.4	627.0	622.6	613.3	634.3	602.1	549.9	527.9
100°	531.9	538.7	535.8	532.3	519.7	517.7	514.8	536.2	511.8	470.4	450.9
102.5°	375.7	382.5	379.6	379.1	373.8	381.1	380.6	401.6	385.0	353.3	337.2
105°	229.8	233.2	230.8	227.9	223.0	227.9	222.5	226.9	215.2	192.7	182.0
107.5°	137.1	139.6	138.1	135.2	131.7	132.2	128.8	129.3	122.5	111.2	105.4



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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	92.2	93.2	92.7	89.8	87.8	88.3	86.9	86.9	84.4	78.6	74.7
112.5°	67.8	68.3	68.8	65.9	64.9	64.9	64.9	64.9	63.4	60.0	57.1
115°	52.2	52.7	52.7	50.7	49.8	50.3	50.3	50.7	50.3	47.8	45.9
117.5°	42.0	42.0	42.0	40.5	39.5	40.0	40.0	40.5	40.5	39.0	37.6
120°	35.1	35.6	35.6	34.6	33.7	33.7	33.7	33.7	34.2	33.2	31.7
122.5°	31.7	31.7	31.7	30.7	29.8	29.3	29.8	29.8	29.8	29.3	28.3
125°	28.8	28.8	28.8	27.8	26.8	26.3	26.8	26.8	27.3	26.8	25.9
127.5°	24.4	24.9	24.9	23.9	22.4	22.4	22.9	23.4	23.9	23.9	22.9
130°	18.1	18.5	18.5	18.1	16.6	16.6	17.6	18.1	19.0	19.0	18.1
132.5°	12.2	11.7	11.7	11.2	10.2	10.7	11.2	12.2	13.2	13.2	12.7
135°	2.0	1.5	1.5	1.5	1.5	1.5	2.4	2.4	3.4	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.5	0.5	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.5	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
170°	0.5	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.0
172.5°	0.0	0.5	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
175°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
177.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	54.2	52.7	49.3	46.8	43.4	41.5	39.0	37.1	36.1	35.6	35.6
5°	62.5	60.0	55.6	52.7	48.8	46.4	44.4	42.9	42.0	42.0	42.0
7.5°	72.2	68.8	63.4	58.6	55.1	52.7	50.7	48.8	47.3	46.8	46.4
10°	77.1	74.7	69.8	65.4	60.5	57.1	53.7	51.2	49.3	48.8	48.3
12.5°	81.5	78.6	73.2	68.8	63.4	59.0	55.1	51.7	49.3	48.3	47.8
15°	87.3	83.9	78.1	72.2	66.8	61.5	57.1	52.7	49.8	48.8	48.3
17.5°	92.2	88.8	82.5	76.6	70.3	64.4	59.0	54.2	50.7	49.8	49.3
20°	96.6	92.7	85.9	80.0	72.7	66.4	60.0	55.1	51.2	49.8	49.8
22.5°	100.5	96.6	89.8	82.9	75.1	67.8	61.5	55.6	51.7	50.3	49.8
25°	103.9	100.0	92.7	85.4	77.1	69.3	62.5	56.6	52.2	50.3	49.8
27.5°	106.4	102.5	95.1	87.3	79.0	70.8	63.9	57.6	53.2	50.7	50.7
30°	107.8	104.4	96.6	88.8	80.5	72.2	64.9	58.6	54.2	51.7	51.7
32.5°	108.3	104.9	97.6	89.8	82.0	73.7	66.4	60.0	55.6	53.2	53.2
35°	109.3	105.9	99.1	91.2	83.4	75.6	68.3	62.0	57.6	55.6	55.1
37.5°	113.7	110.3	102.5	94.2	85.9	78.1	70.8	64.4	60.0	58.1	58.1
40°	126.4	121.5	111.2	102.0	91.7	82.9	74.7	67.8	63.4	62.0	61.5
42.5°	146.9	142.0	129.3	116.1	103.4	92.2	81.0	72.7	67.8	65.9	65.9
45°	178.1	171.8	154.7	139.6	121.5	106.4	90.3	79.5	73.7	71.2	70.8
47.5°	218.6	210.8	190.3	167.4	145.4	125.9	103.4	88.3	80.5	77.1	76.6
50°	272.8	265.0	237.1	205.4	178.6	148.8	119.5	99.5	88.3	83.4	82.5
52.5°	341.6	333.3	296.7	255.7	221.0	180.0	138.6	111.7	97.6	91.2	90.3
55°	412.8	403.5	358.6	307.4	270.3	215.2	160.5	128.8	109.8	100.5	98.6
57.5°	463.1	452.8	403.0	345.9	310.3	242.5	182.5	145.4	123.9	111.2	110.3
60°	499.6	488.9	435.7	378.6	337.7	263.0	202.0	159.1	137.1	124.9	124.4
62.5°	532.3	523.6	465.0	407.9	359.1	280.1	219.6	175.7	149.8	135.6	131.7
65°	567.5	553.3	490.9	433.8	383.0	299.6	230.3	190.8	161.0	145.4	142.0
67.5°	597.2	582.1	523.1	465.0	406.0	315.2	244.5	204.4	174.7	155.2	154.2
70°	634.3	617.2	546.5	488.9	427.4	335.2	258.6	212.7	182.5	163.5	157.6
72.5°	655.8	637.7	569.9	513.3	443.0	351.8	268.4	216.6	187.9	167.4	161.5
75°	680.2	660.7	582.1	531.4	458.7	364.5	277.1	222.5	191.8	168.8	163.5
77.5°	690.9	670.4	601.1	544.1	472.3	372.3	283.5	227.9	192.2	168.8	167.4
78°	690.9	669.5	597.7	546.0	471.3	372.8	284.5	229.8	192.7	167.4	165.9
80°	686.5	665.1	592.4	545.0	467.9	371.8	285.4	233.2	190.8	165.4	166.4
82.5°	687.5	669.0	590.4	542.1	466.5	371.3	283.0	229.8	187.4	161.5	163.0
85°	662.1	644.6	574.3	527.9	453.3	366.4	279.6	225.4	185.4	158.6	160.0
87.5°	654.8	636.8	561.6	518.7	441.6	356.7	274.2	222.0	181.0	155.2	157.1
90°	641.1	623.6	546.5	503.1	428.9	344.0	261.5	211.8	174.2	148.8	149.8
92.5°	606.0	589.9	516.7	475.7	406.0	328.4	248.8	201.0	164.4	141.5	141.5
95°	561.1	547.0	478.2	442.1	376.2	302.0	228.8	184.9	150.3	129.8	128.8
97.5°	499.2	486.0	426.0	392.3	335.7	267.9	200.1	160.5	129.8	109.8	109.8
100°	419.1	413.8	358.6	328.9	279.1	219.1	164.4	128.8	104.9	87.8	86.4
102.5°	313.3	302.0	257.1	232.7	197.1	152.2	112.7	89.3	75.1	63.4	61.0
105°	163.5	165.9	138.1	126.9	108.8	87.8	68.3	55.6	47.3	41.5	39.5
107.5°	97.6	95.1	83.4	76.1	66.4	54.2	43.4	36.1	31.2	27.8	26.8



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CATALOG NUMBER: MPW-A3-D-U-ASYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	69.8	68.8	60.0	54.2	47.3	38.5	30.7	25.9	22.4	20.0	19.5
112.5°	53.7	52.7	46.4	41.5	35.6	28.8	22.9	19.0	16.6	14.6	14.6
115°	43.4	42.5	37.6	32.7	27.8	22.4	18.1	14.6	12.7	11.2	11.2
117.5°	35.6	34.6	30.3	26.8	22.4	18.1	14.2	11.7	9.8	8.8	8.8
120°	30.3	29.3	25.9	22.4	18.5	15.1	11.7	9.3	8.3	7.3	7.3
122.5°	27.3	25.9	22.9	19.5	16.1	12.7	9.8	7.8	6.8	5.9	5.9
125°	24.9	23.9	21.0	17.6	13.7	11.2	8.3	6.3	5.4	4.9	4.4
127.5°	22.0	21.0	18.1	14.6	11.2	8.8	6.3	4.9	3.4	2.9	2.9
130°	17.6	16.1	13.7	10.7	7.8	5.9	4.4	2.9	2.0	2.0	1.5
132.5°	12.2	11.2	9.3	6.8	4.4	2.9	2.0	1.5	0.5	0.5	0.5
135°	3.9	3.4	2.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)