

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: P314554

Luminaire Tested: **MPN-A4-D-U-SYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A4-D-U-SYM
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3863 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.1
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

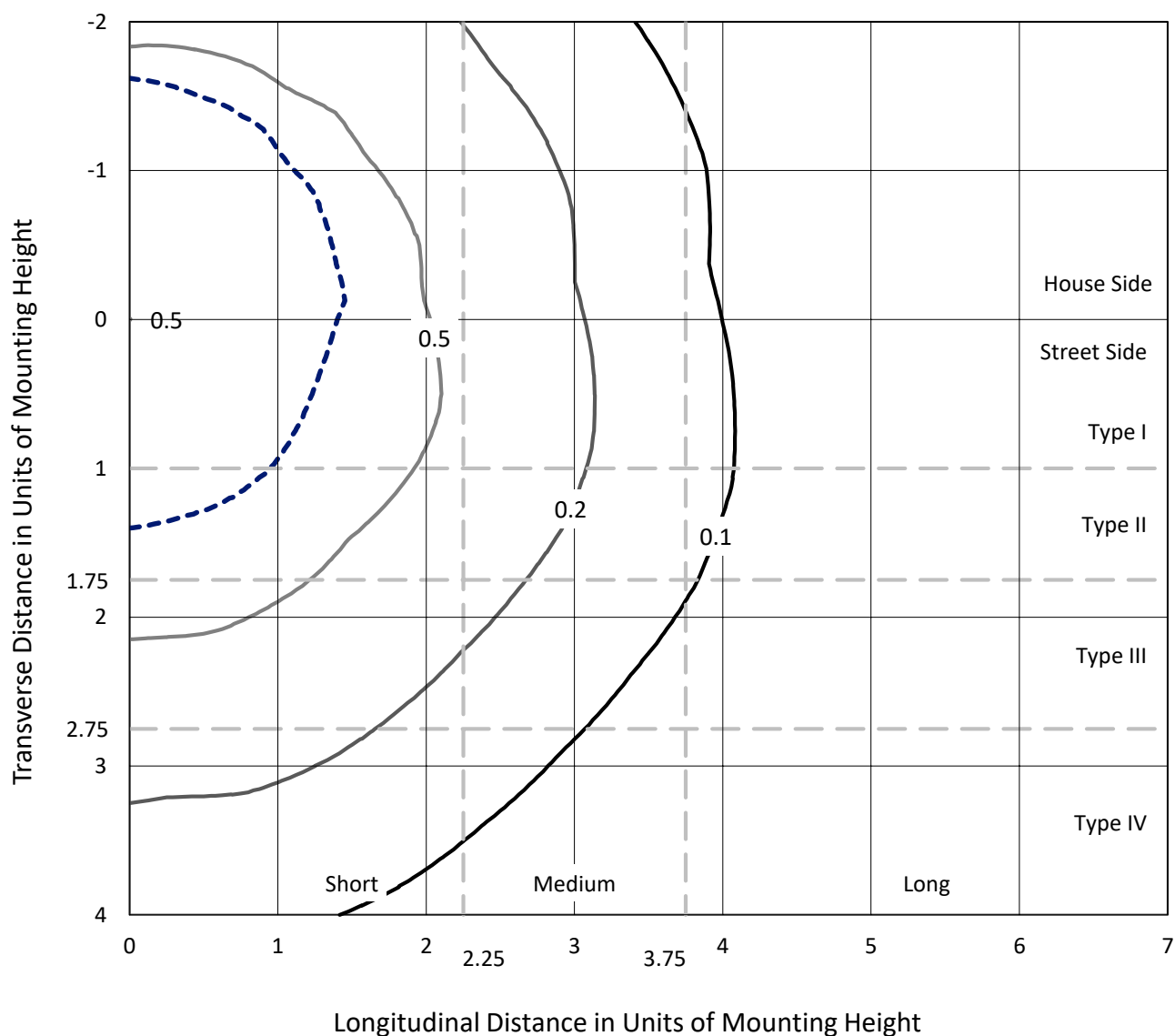


REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

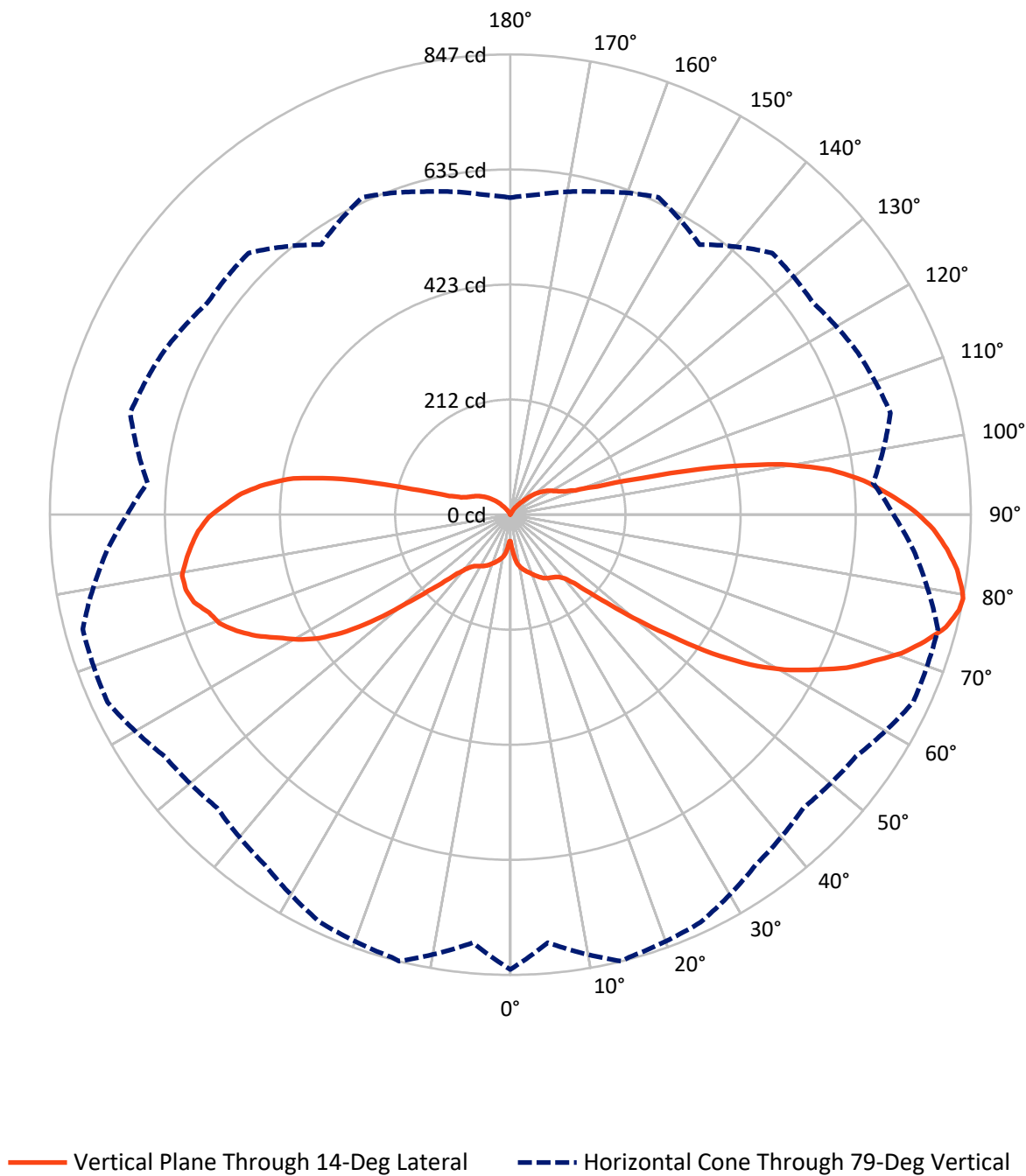


Based on 10 foot mounting height. Maximum calculated value = 1 fc
Type V - Short - Non-Cutoff

REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

Luminous Intensity Polar Plot



REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

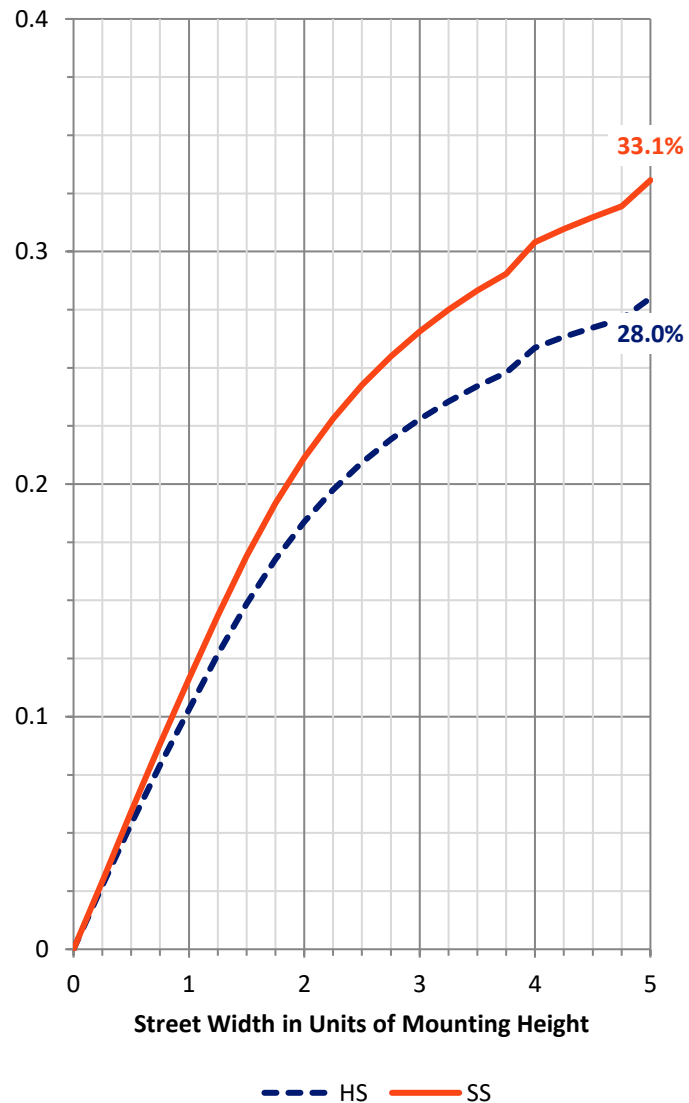
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.1	485.2	1758.3
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1523.0	581.7	2104.7
	% Fixture	39.4	15.1	54.5
Total	Lumens	2796.1	1066.9	3863.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.2
10°-20°	27.7	0.7
20°-30°	54.0	1.4
30°-40°	82.2	2.1
40°-50°	155.1	4.0
50°-60°	374.3	9.7
60°-70°	595.9	15.4
70°-80°	747.4	19.3
80°-90°	752.3	19.5
90°-100°	616.8	16.0
100°-110°	260.5	6.7
110°-120°	90.2	2.3
120°-130°	60.1	1.6
130°-140°	30.0	0.8
140°-150°	8.8	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2796.1	72.4
0°-180°	3863.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314554

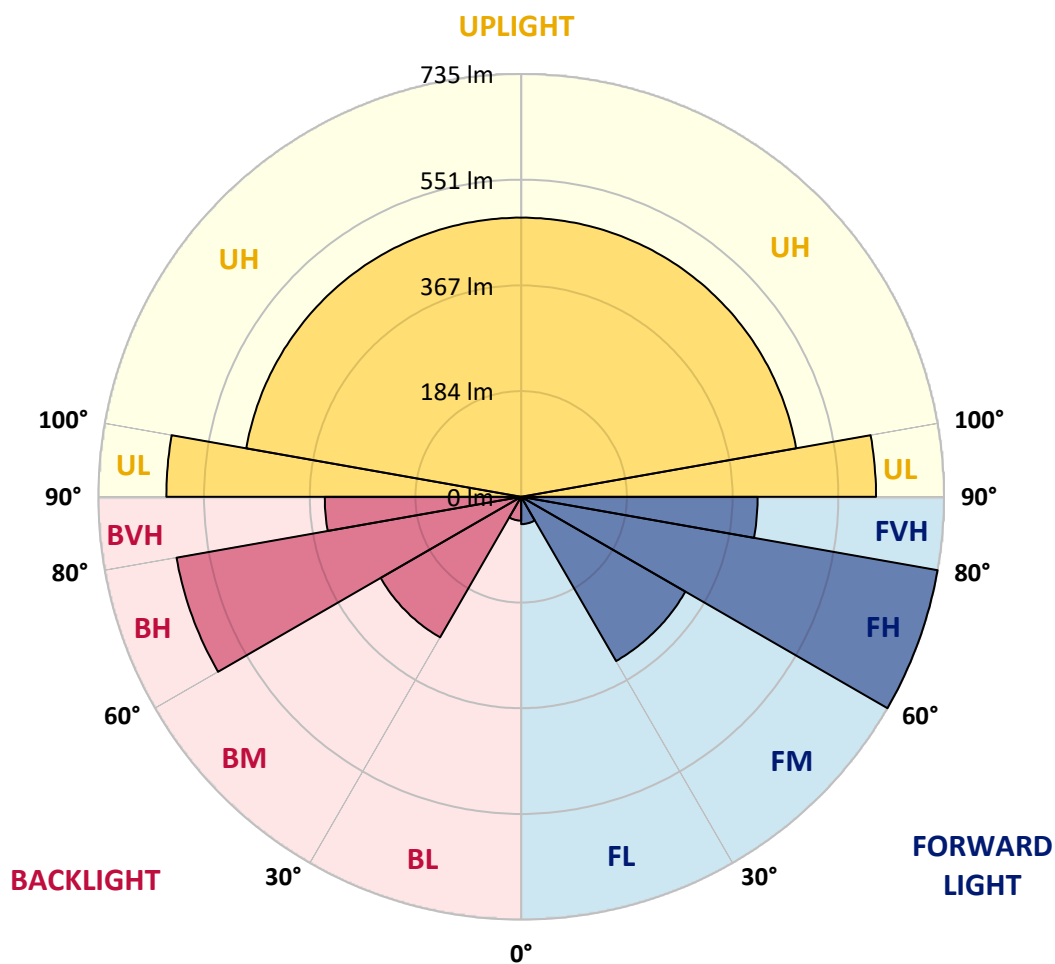
CATALOG NUMBER: MPN-A4-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.4	1.2			
FM	(30°-60°)	329.6	8.5			
FH	(60°-80°)	734.9	19.0			G1/1800
FVH	(80°-90°)	410.9	10.6			G3/500
BL	(0°-30°)	41.4	1.1	B0/110		
BM	(30°-60°)	282.0	7.3	B1/1000		
BH	(60°-80°)	608.3	15.7	B2/1000		G0/660
BVH	(80°-90°)	341.4	8.8			G3/500
UL	(90°-100°)	616.8	16.0		U4/1000	
UH	(100°-180°)	485.2	12.6		U3/500	

BUG Rating: B2-U4-G3

Type V Short



REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	65.0	63.1	63.1	63.8	63.8	61.3	59.4	59.4	58.2	57.0	54.5
5°	79.2	78.0	78.0	78.0	78.0	78.6	76.8	75.5	73.0	71.8	69.9
7.5°	90.4	89.8	89.8	90.4	89.8	89.1	87.3	87.3	84.8	83.6	81.7
10°	98.4	97.8	97.8	97.8	96.6	95.3	94.1	93.5	91.6	89.8	87.9
12.5°	102.8	102.1	102.8	102.8	101.5	99.0	98.4	97.8	96.6	94.7	92.2
15°	107.7	107.1	107.7	107.7	105.9	104.6	103.4	102.8	101.5	100.3	97.8
17.5°	112.7	112.0	112.0	112.0	111.4	108.9	107.7	108.3	106.5	104.6	102.8
20°	118.2	117.6	117.0	117.0	116.4	113.9	113.3	112.7	111.4	109.6	107.7
22.5°	124.4	123.2	122.6	122.6	121.9	119.5	119.5	118.9	117.0	115.1	113.9
25°	130.6	130.0	127.5	127.5	126.9	125.0	125.7	124.4	122.6	120.1	119.5
27.5°	135.6	134.3	132.5	131.9	131.2	129.4	130.0	128.8	126.3	124.4	123.8
30°	138.7	138.0	135.6	135.6	133.7	133.1	133.1	131.2	128.8	126.9	127.5
32.5°	140.5	140.5	138.0	137.4	136.2	135.6	134.9	133.7	130.6	128.8	129.4
35°	143.6	143.0	141.1	140.5	138.7	138.7	137.4	135.6	131.9	131.2	131.9
37.5°	147.3	146.7	145.5	144.9	141.8	143.0	141.1	139.9	136.2	135.6	134.9
40°	156.0	156.0	154.1	154.1	150.4	153.5	151.7	152.3	148.6	147.9	145.5
42.5°	172.1	172.1	172.7	173.3	170.2	173.3	172.7	175.8	172.7	170.2	166.5
45°	203.7	201.2	204.9	203.7	201.8	204.9	203.7	208.0	206.8	203.7	199.9
47.5°	242.7	247.6	248.2	249.5	245.8	249.5	248.2	253.2	255.7	251.9	242.0
50°	296.5	301.5	307.0	307.0	303.9	305.2	304.6	312.0	315.1	315.7	302.1
52.5°	359.7	364.6	372.0	376.4	371.4	375.1	376.4	390.6	400.5	399.3	375.7
55°	433.9	441.4	450.7	453.1	444.5	446.9	448.2	466.1	485.9	483.5	453.1
57.5°	506.4	513.2	521.2	525.6	515.0	511.9	502.0	523.1	548.5	547.2	502.6
60°	565.8	570.7	579.4	583.7	573.2	567.0	546.0	568.3	597.4	599.2	547.2
62.5°	618.4	620.9	628.3	632.6	620.9	614.1	588.1	611.6	640.1	642.5	586.2
65°	664.8	661.1	679.7	680.9	664.2	653.7	628.9	654.3	681.5	683.4	619.6
67.5°	706.3	698.9	719.3	723.6	705.1	689.0	665.5	684.6	714.4	713.1	656.8
70°	743.5	733.5	763.3	765.7	741.0	719.3	705.7	716.8	750.3	750.9	689.0
72.5°	781.2	762.6	797.3	797.9	776.9	745.3	728.6	742.8	775.6	772.5	714.4
75°	810.9	778.1	827.6	825.2	806.0	767.6	751.5	762.6	801.6	800.4	731.7
77.5°	839.4	792.4	843.7	841.9	824.5	783.1	763.3	778.7	815.9	815.3	747.2
79°	836.9	790.5	846.8	843.1	827.6	786.8	762.6	775.6	817.1	814.0	744.1
80°	834.4	784.9	842.5	839.4	822.7	782.4	754.0	764.5	806.0	804.1	734.2
82.5°	817.1	771.3	827.6	823.3	809.1	772.5	745.3	755.2	804.1	797.9	724.9
85°	793.6	750.3	805.4	801.6	788.0	752.7	721.2	729.2	772.5	771.3	703.2
87.5°	763.3	723.6	778.7	775.0	762.6	730.5	698.9	708.2	752.1	751.5	679.7
90°	734.2	695.8	743.5	742.2	729.8	700.1	672.9	687.1	732.3	729.8	658.6
92.5°	690.2	655.5	698.9	699.5	687.7	663.0	637.6	649.4	684.6	684.0	618.4
95°	645.6	613.5	653.1	653.1	641.9	620.3	594.3	602.9	637.6	643.2	580.0
97.5°	586.8	558.4	593.6	594.9	586.2	567.6	545.4	556.5	589.9	595.5	537.9
100°	495.8	476.6	507.6	510.7	503.9	492.7	477.3	493.4	522.5	528.6	478.5
102.5°	362.7	357.2	384.4	383.2	380.7	377.6	373.9	382.6	401.7	411.0	359.7
105°	246.4	237.1	251.3	250.7	245.8	237.7	228.4	227.8	232.8	229.0	203.7
107.5°	165.9	162.2	167.8	168.4	164.7	157.9	149.2	148.6	152.9	150.4	136.8



REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	126.3	124.4	127.5	128.1	126.3	120.7	116.4	116.4	120.7	118.9	110.2
112.5°	109.6	108.3	110.2	110.2	108.9	103.4	100.9	102.8	106.5	105.9	98.4
115°	99.7	99.0	99.7	100.3	98.4	93.5	92.2	94.1	97.8	97.2	91.0
117.5°	92.9	92.2	92.2	92.9	91.0	86.7	86.0	87.9	91.6	91.0	85.4
120°	86.7	86.7	86.7	86.7	85.4	81.7	81.1	83.6	86.7	86.0	81.1
122.5°	80.5	80.5	80.5	80.5	79.2	76.8	76.8	79.2	81.7	81.1	76.8
125°	73.7	73.7	73.0	73.7	72.4	71.2	71.2	73.7	75.5	75.5	71.8
127.5°	66.9	66.9	65.6	66.2	65.0	64.4	65.0	67.5	69.3	69.3	66.9
130°	59.4	58.8	57.6	58.2	57.0	57.0	58.2	60.7	61.9	62.5	60.0
132.5°	50.8	50.1	48.9	48.9	48.9	48.9	50.1	52.0	53.9	53.9	52.6
135°	42.1	41.5	40.2	40.2	40.2	39.6	41.5	43.3	44.6	44.6	43.3
137.5°	32.8	32.8	31.6	32.2	31.6	31.0	32.2	33.4	34.0	34.7	33.4
140°	26.0	26.0	25.4	24.8	24.1	23.5	24.1	24.8	25.4	26.0	25.4
142.5°	20.4	20.4	19.8	19.8	19.2	18.6	18.6	19.2	20.4	20.4	19.8
145°	15.5	15.5	15.5	14.9	14.2	14.2	14.2	14.9	15.5	15.5	15.5
147.5°	11.1	10.5	10.5	10.5	9.9	9.9	10.5	10.5	11.1	11.1	11.1
150°	5.6	5.6	5.6	5.6	5.6	5.6	6.2	6.2	6.8	6.8	6.2
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
155°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0	0.0
165°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0
167.5°	0.6	0.0	0.6	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.0
170°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.0
172.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.0
175°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0
177.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
2.5°	53.9	53.2	52.0	52.6	50.8	50.1	49.5	48.9	48.9	48.9	48.3
5°	68.7	67.5	64.4	63.1	63.1	61.9	61.9	61.3	61.3	61.3	61.3
7.5°	80.5	79.9	76.8	74.3	73.0	72.4	72.4	71.8	71.8	71.2	70.6
10°	86.7	85.4	83.6	82.3	81.1	79.9	78.6	79.2	78.6	77.4	77.4
12.5°	91.6	90.4	88.5	87.3	86.0	84.2	83.6	83.6	82.9	81.1	81.1
15°	96.6	95.3	94.1	92.2	91.0	89.1	87.9	87.9	87.3	85.4	84.8
17.5°	101.5	100.9	99.0	97.2	95.9	94.1	92.2	91.6	91.0	89.8	89.1
20°	107.1	105.9	104.0	102.1	100.3	99.0	97.2	95.3	94.7	94.1	93.5
22.5°	113.3	111.4	109.6	107.1	105.2	104.6	101.5	99.7	99.0	97.8	97.8
25°	118.9	116.4	114.5	112.7	110.2	109.6	106.5	104.0	102.8	102.1	102.1
27.5°	123.2	120.7	118.9	117.0	114.5	113.9	110.2	107.7	105.9	105.9	106.5
30°	126.3	124.4	122.6	120.1	118.9	118.2	113.9	110.8	108.9	109.6	109.6
32.5°	128.8	126.9	125.0	122.6	121.3	120.7	117.0	113.3	111.4	112.0	112.0
35°	130.6	129.4	127.5	125.0	124.4	123.2	119.5	115.8	114.5	115.8	115.1
37.5°	134.3	132.5	130.6	127.5	128.8	126.9	123.8	120.1	120.1	121.9	121.3
40°	143.6	141.1	138.7	134.9	135.6	134.9	133.1	130.0	130.0	132.5	131.9
42.5°	162.8	159.1	154.8	149.8	149.8	148.6	146.1	144.9	145.5	147.3	147.3
45°	191.9	185.1	182.0	175.8	174.6	173.3	170.9	168.4	172.1	171.5	172.7
47.5°	233.4	224.1	220.4	212.3	211.1	210.5	206.8	204.3	205.5	206.8	209.8
50°	289.7	276.1	271.8	263.7	261.8	259.4	251.9	248.8	251.3	253.2	255.7
52.5°	363.4	339.8	338.6	331.2	320.7	325.0	315.1	310.1	312.0	311.4	314.5
55°	436.4	409.2	412.3	402.4	388.1	393.1	373.9	373.3	370.2	367.7	368.9
57.5°	487.2	460.6	472.9	460.6	442.6	447.6	422.2	419.1	417.8	410.4	407.9
60°	526.2	498.9	517.5	500.2	480.4	493.4	457.5	459.9	453.7	445.7	440.1
62.5°	560.8	533.0	555.3	535.5	513.8	527.4	487.2	495.2	482.8	476.0	466.1
65°	593.6	567.6	590.6	572.6	543.5	562.7	516.9	531.7	518.7	506.4	497.1
67.5°	625.2	599.8	626.5	608.5	576.9	595.5	539.8	562.1	548.5	534.8	523.7
70°	651.8	625.2	656.2	639.5	605.4	617.8	551.6	591.2	572.0	559.6	544.1
72.5°	676.6	645.6	684.0	668.5	632.6	643.2	568.9	614.1	583.7	572.0	560.8
75°	692.7	658.6	706.9	689.0	659.9	665.5	589.9	632.0	605.4	586.2	577.6
77.5°	707.5	670.4	721.2	700.1	673.5	676.6	603.6	644.4	614.7	593.0	581.9
79°	704.5	669.8	723.6	705.1	679.7	680.9	606.6	644.4	615.3	591.2	583.1
80°	697.0	664.2	717.5	696.4	671.0	672.9	603.6	639.5	617.2	584.4	576.9
82.5°	689.0	654.9	708.2	689.0	663.6	661.7	599.2	632.0	604.8	578.2	570.1
85°	667.9	638.2	688.4	669.2	648.1	645.0	585.6	615.9	592.4	559.0	552.2
87.5°	648.1	619.0	669.8	651.2	630.8	628.3	574.5	604.8	578.2	542.3	538.6
90°	626.5	596.7	644.4	625.8	602.9	598.6	549.7	580.0	558.4	523.7	520.0
92.5°	587.5	560.8	606.0	589.9	570.7	567.6	520.6	548.5	528.0	497.1	493.4
95°	552.2	526.8	567.0	553.4	535.5	534.8	488.4	518.1	498.3	470.5	468.6
97.5°	513.8	489.0	523.7	511.3	493.4	491.5	448.2	474.8	457.5	432.1	430.2
100°	453.1	432.1	455.0	445.7	424.7	430.2	391.8	420.3	406.7	384.4	380.1
102.5°	339.8	323.1	330.6	323.1	304.6	312.6	292.8	323.1	317.6	305.2	301.5
105°	192.5	187.6	192.5	190.0	183.2	181.4	171.5	191.9	187.6	183.2	180.8
107.5°	130.0	126.3	130.6	128.8	120.7	120.1	112.7	121.9	117.6	113.9	112.0



REPORT NUMBER: P314554

CATALOG NUMBER: MPN-A4-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	105.9	102.8	105.9	105.2	99.7	97.8	92.2	98.4	95.3	92.2	91.0
112.5°	94.7	92.2	94.7	94.1	88.5	87.9	83.6	88.5	86.0	83.6	82.9
115°	87.9	85.4	87.3	86.7	81.7	81.1	77.4	81.7	79.9	77.4	76.8
117.5°	82.9	80.5	81.7	80.5	76.8	75.5	72.4	76.1	74.9	71.8	71.2
120°	78.6	76.1	77.4	75.5	71.8	70.6	68.1	70.6	69.3	67.5	66.9
122.5°	74.9	72.4	73.0	70.6	66.9	65.0	63.1	64.4	63.8	61.9	61.3
125°	69.9	67.5	67.5	65.0	60.7	59.4	57.6	58.2	57.6	57.0	56.3
127.5°	64.4	62.5	61.3	58.8	55.1	52.6	51.4	52.0	52.0	51.4	50.8
130°	58.2	56.3	53.9	51.4	48.3	46.4	44.6	45.8	45.8	45.8	45.8
132.5°	50.8	48.9	46.4	44.0	40.9	39.6	37.8	39.0	39.6	40.2	39.6
135°	42.1	40.9	38.4	35.9	33.4	31.6	31.0	32.2	33.4	33.4	32.8
137.5°	32.8	31.6	30.3	28.5	26.0	24.8	24.1	25.4	26.6	26.6	26.0
140°	24.8	24.8	23.5	21.7	19.2	18.6	18.6	19.2	19.8	19.8	19.2
142.5°	19.2	19.2	18.0	16.7	14.9	14.2	14.2	14.9	15.5	15.5	14.9
145°	14.9	14.9	13.6	12.4	11.1	10.5	10.5	11.1	11.8	11.8	11.1
147.5°	11.1	10.5	9.3	8.7	7.4	7.4	7.4	7.4	8.0	8.0	8.0
150°	6.2	6.2	5.6	4.3	3.7	3.7	3.7	4.3	5.0	5.0	4.3
152.5°	1.2	1.2	1.2	1.2	0.6	0.0	0.6	0.6	0.6	0.6	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	0.6	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
167.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
172.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
177.5°	0.0	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)