

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: P314547

Luminaire Tested: **MPN-A3-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314547
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-A3-D-U-SYM-7030
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 28.7
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

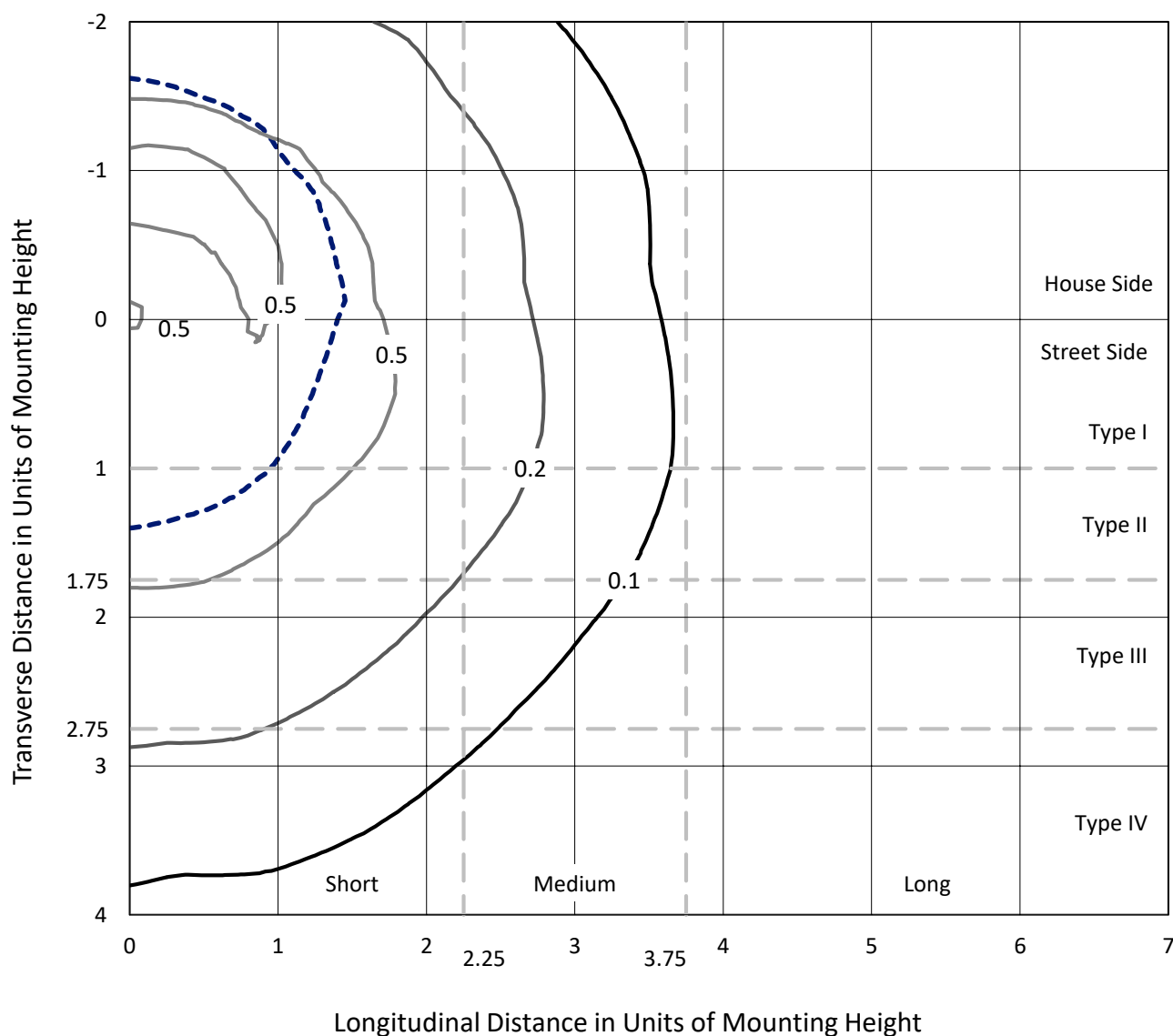


REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

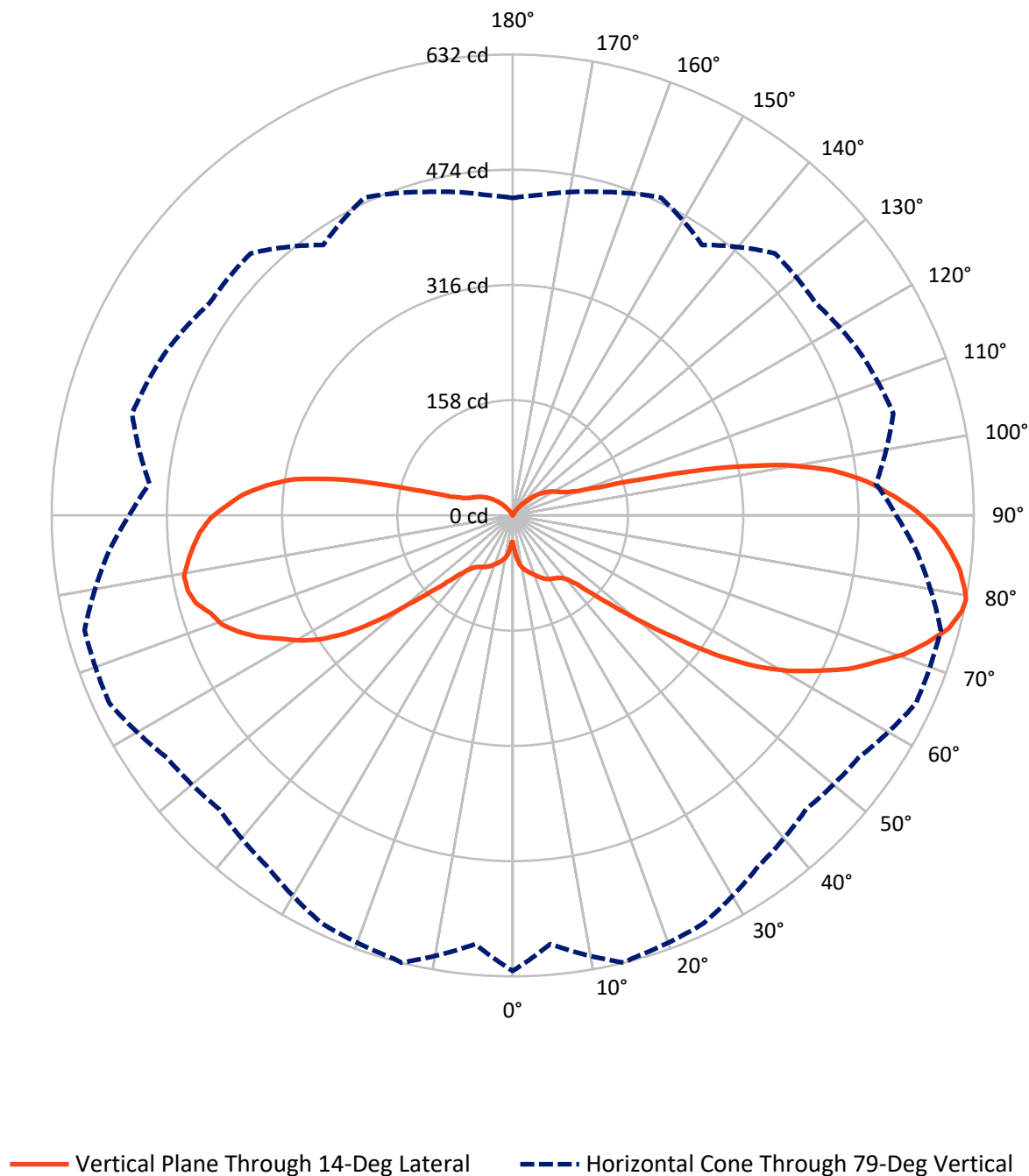


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

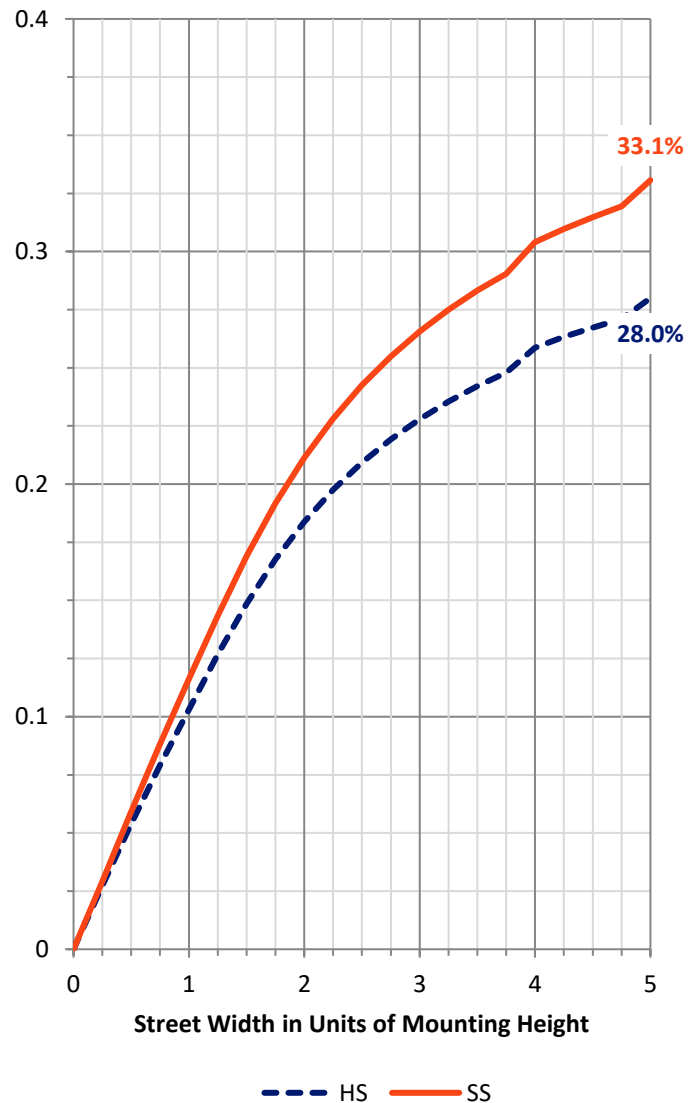
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.1	362.1	1312.3
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1136.6	434.1	1570.7
	% Fixture	39.4	15.1	54.5
Total	Lumens	2086.8	796.3	2883.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	20.7	0.7
20°-30°	40.3	1.4
30°-40°	61.4	2.1
40°-50°	115.8	4.0
50°-60°	279.4	9.7
60°-70°	444.7	15.4
70°-80°	557.8	19.3
80°-90°	561.5	19.5
90°-100°	460.3	16.0
100°-110°	194.4	6.7
110°-120°	67.3	2.3
120°-130°	44.9	1.6
130°-140°	22.4	0.8
140°-150°	6.6	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2086.8	72.4
0°-180°	2883.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314547

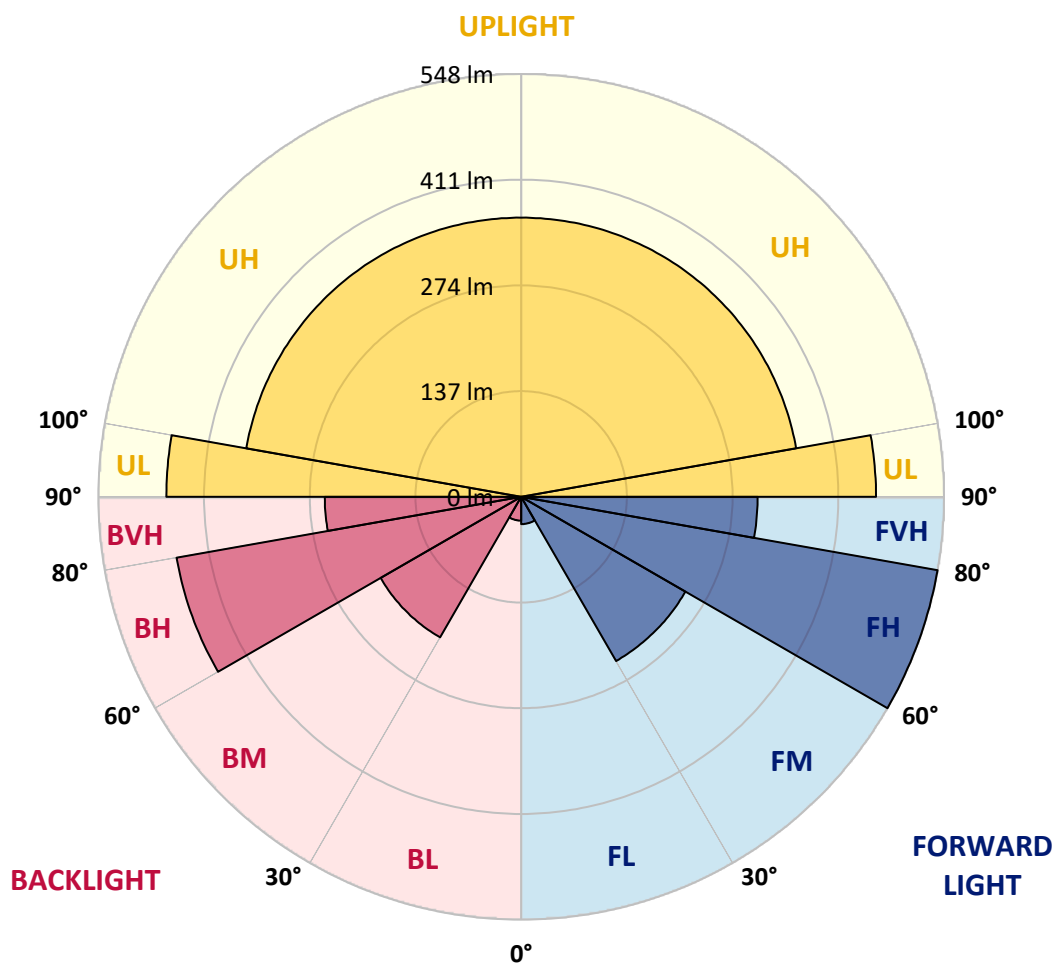
CATALOG NUMBER: MPN-A3-D-U-SYM-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.4	1.2			
FM	(30°-60°)	246.0	8.5			
FH	(60°-80°)	548.5	19.0			G0/660
FVH	(80°-90°)	306.7	10.6			G3/500
BL	(0°-30°)	30.9	1.1	B0/110		
BM	(30°-60°)	210.5	7.3	B0/220		
BH	(60°-80°)	454.0	15.7	B1/500		G0/660
BVH	(80°-90°)	254.8	8.8			G3/500
UL	(90°-100°)	460.3	16.0		U3/500	
UH	(100°-180°)	362.1	12.6		U3/500	

BUG Rating: B1-U3-G3

Type V Short





REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
2.5°	48.5	47.1	47.1	47.6	47.6	45.7	44.4	44.4	43.4	42.5	40.7
5°	59.1	58.2	58.2	58.2	58.2	58.7	57.3	56.4	54.5	53.6	52.2
7.5°	67.4	67.0	67.0	67.4	67.0	66.5	65.1	65.1	63.3	62.4	61.0
10°	73.5	73.0	73.0	73.0	72.1	71.1	70.2	69.8	68.4	67.0	65.6
12.5°	76.7	76.2	76.7	76.7	75.8	73.9	73.5	73.0	72.1	70.7	68.8
15°	80.4	79.9	80.4	80.4	79.0	78.1	77.2	76.7	75.8	74.8	73.0
17.5°	84.1	83.6	83.6	83.6	83.2	81.3	80.4	80.8	79.5	78.1	76.7
20°	88.2	87.8	87.3	87.3	86.9	85.0	84.5	84.1	83.2	81.8	80.4
22.5°	92.9	91.9	91.5	91.5	91.0	89.2	89.2	88.7	87.3	85.9	85.0
25°	97.5	97.0	95.2	95.2	94.7	93.3	93.8	92.9	91.5	89.6	89.2
27.5°	101.2	100.3	98.9	98.4	97.9	96.6	97.0	96.1	94.2	92.9	92.4
30°	103.5	103.0	101.2	101.2	99.8	99.3	99.3	97.9	96.1	94.7	95.2
32.5°	104.9	104.9	103.0	102.6	101.6	101.2	100.7	99.8	97.5	96.1	96.6
35°	107.2	106.7	105.3	104.9	103.5	103.5	102.6	101.2	98.4	97.9	98.4
37.5°	110.0	109.5	108.6	108.1	105.8	106.7	105.3	104.4	101.6	101.2	100.7
40°	116.4	116.4	115.0	115.0	112.3	114.6	113.2	113.6	110.9	110.4	108.6
42.5°	128.4	128.4	128.9	129.4	127.0	129.4	128.9	131.2	128.9	127.0	124.3
45°	152.0	150.1	152.9	152.0	150.6	152.9	152.0	155.2	154.3	152.0	149.2
47.5°	181.1	184.8	185.3	186.2	183.4	186.2	185.3	189.0	190.8	188.0	180.6
50°	221.3	225.0	229.1	229.1	226.8	227.8	227.3	232.8	235.2	235.6	225.4
52.5°	268.4	272.1	277.7	280.9	277.2	280.0	280.9	291.5	298.9	298.0	280.4
55°	323.9	329.4	336.3	338.2	331.7	333.6	334.5	347.9	362.7	360.8	338.2
57.5°	377.9	383.0	389.0	392.2	384.4	382.1	374.7	390.4	409.3	408.4	375.1
60°	422.3	426.0	432.4	435.7	427.8	423.2	407.5	424.1	445.8	447.2	408.4
62.5°	461.5	463.4	468.9	472.1	463.4	458.3	438.9	456.4	477.7	479.5	437.5
65°	496.2	493.4	507.3	508.2	495.7	487.9	469.4	488.3	508.6	510.0	462.4
67.5°	527.1	521.6	536.8	540.1	526.2	514.2	496.6	511.0	533.1	532.2	490.2
70°	554.8	547.5	569.6	571.5	553.0	536.8	526.7	535.0	559.9	560.4	514.2
72.5°	583.0	569.2	595.0	595.5	579.8	556.2	543.8	554.4	578.9	576.6	533.1
75°	605.2	580.7	617.7	615.8	601.5	572.9	560.9	569.2	598.3	597.3	546.1
77.5°	626.5	591.3	629.7	628.3	615.4	584.4	569.6	581.2	608.9	608.4	557.6
79°	624.6	590.0	632.0	629.2	617.7	587.2	569.2	578.9	609.8	607.5	555.3
80°	622.8	585.8	628.8	626.5	614.0	584.0	562.7	570.6	601.5	600.1	547.9
82.5°	609.8	575.6	617.7	614.4	603.8	576.6	556.2	563.6	600.1	595.5	541.0
85°	592.3	559.9	601.0	598.3	588.1	561.8	538.2	544.2	576.6	575.6	524.8
87.5°	569.6	540.1	581.2	578.4	569.2	545.1	521.6	528.5	561.3	560.9	507.3
90°	547.9	519.3	554.8	553.9	544.7	522.5	502.2	512.8	546.5	544.7	491.6
92.5°	515.1	489.2	521.6	522.0	513.3	494.8	475.8	484.6	511.0	510.5	461.5
95°	481.9	457.8	487.4	487.4	479.1	462.9	443.5	450.0	475.8	480.0	432.9
97.5°	438.0	416.7	443.0	444.0	437.5	423.6	407.0	415.3	440.3	444.4	401.5
100°	370.1	355.7	378.8	381.1	376.1	367.7	356.2	368.2	389.9	394.5	357.1
102.5°	270.7	266.6	286.9	286.0	284.1	281.8	279.0	285.5	299.8	306.8	268.4
105°	183.9	176.9	187.6	187.1	183.4	177.4	170.5	170.0	173.7	170.9	152.0
107.5°	123.8	121.0	125.2	125.7	122.9	117.8	111.3	110.9	114.1	112.3	102.1



REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	94.2	92.9	95.2	95.6	94.2	90.1	86.9	86.9	90.1	88.7	82.2
112.5°	81.8	80.8	82.2	82.2	81.3	77.2	75.3	76.7	79.5	79.0	73.5
115°	74.4	73.9	74.4	74.8	73.5	69.8	68.8	70.2	73.0	72.5	67.9
117.5°	69.3	68.8	68.8	69.3	67.9	64.7	64.2	65.6	68.4	67.9	63.8
120°	64.7	64.7	64.7	64.7	63.8	61.0	60.5	62.4	64.7	64.2	60.5
122.5°	60.1	60.1	60.1	60.1	59.1	57.3	57.3	59.1	61.0	60.5	57.3
125°	55.0	55.0	54.5	55.0	54.1	53.1	53.1	55.0	56.4	56.4	53.6
127.5°	49.9	49.9	49.0	49.4	48.5	48.0	48.5	50.4	51.7	51.7	49.9
130°	44.4	43.9	43.0	43.4	42.5	42.5	43.4	45.3	46.2	46.7	44.8
132.5°	37.9	37.4	36.5	36.5	36.5	36.5	37.4	38.8	40.2	40.2	39.3
135°	31.4	31.0	30.0	30.0	30.0	29.6	31.0	32.3	33.3	33.3	32.3
137.5°	24.5	24.5	23.6	24.0	23.6	23.1	24.0	24.9	25.4	25.9	24.9
140°	19.4	19.4	18.9	18.5	18.0	17.6	18.0	18.5	18.9	19.4	18.9
142.5°	15.2	15.2	14.8	14.8	14.3	13.9	13.9	14.3	15.2	15.2	14.8
145°	11.5	11.5	11.5	11.1	10.6	10.6	10.6	11.1	11.5	11.5	11.5
147.5°	8.3	7.9	7.9	7.9	7.4	7.4	7.9	7.9	8.3	8.3	8.3
150°	4.2	4.2	4.2	4.2	4.2	4.2	4.6	4.6	5.1	5.1	4.6
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
155°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0
165°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0
167.5°	0.5	0.0	0.5	0.5	0.5	0.0	0.5	0.0	0.5	0.5	0.0
170°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0
172.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
175°	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0
177.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
2.5°	40.2	39.7	38.8	39.3	37.9	37.4	37.0	36.5	36.5	36.5	36.0
5°	51.3	50.4	48.0	47.1	47.1	46.2	46.2	45.7	45.7	45.7	45.7
7.5°	60.1	59.6	57.3	55.4	54.5	54.1	54.1	53.6	53.6	53.1	52.7
10°	64.7	63.8	62.4	61.4	60.5	59.6	58.7	59.1	58.7	57.7	57.7
12.5°	68.4	67.4	66.1	65.1	64.2	62.8	62.4	62.4	61.9	60.5	60.5
15°	72.1	71.1	70.2	68.8	67.9	66.5	65.6	65.6	65.1	63.8	63.3
17.5°	75.8	75.3	73.9	72.5	71.6	70.2	68.8	68.4	67.9	67.0	66.5
20°	79.9	79.0	77.6	76.2	74.8	73.9	72.5	71.1	70.7	70.2	69.8
22.5°	84.5	83.2	81.8	79.9	78.5	78.1	75.8	74.4	73.9	73.0	73.0
25°	88.7	86.9	85.5	84.1	82.2	81.8	79.5	77.6	76.7	76.2	76.2
27.5°	91.9	90.1	88.7	87.3	85.5	85.0	82.2	80.4	79.0	79.0	79.5
30°	94.2	92.9	91.5	89.6	88.7	88.2	85.0	82.7	81.3	81.8	81.8
32.5°	96.1	94.7	93.3	91.5	90.5	90.1	87.3	84.5	83.2	83.6	83.6
35°	97.5	96.6	95.2	93.3	92.9	91.9	89.2	86.4	85.5	86.4	85.9
37.5°	100.3	98.9	97.5	95.2	96.1	94.7	92.4	89.6	89.6	91.0	90.5
40°	107.2	105.3	103.5	100.7	101.2	100.7	99.3	97.0	97.0	98.9	98.4
42.5°	121.5	118.7	115.5	111.8	111.8	110.9	109.0	108.1	108.6	110.0	110.0
45°	143.2	138.1	135.8	131.2	130.3	129.4	127.5	125.7	128.4	128.0	128.9
47.5°	174.2	167.2	164.5	158.5	157.5	157.1	154.3	152.5	153.4	154.3	156.6
50°	216.2	206.0	202.8	196.8	195.4	193.6	188.0	185.7	187.6	189.0	190.8
52.5°	271.2	253.6	252.7	247.2	239.3	242.5	235.2	231.5	232.8	232.4	234.7
55°	325.7	305.4	307.7	300.3	289.7	293.4	279.0	278.6	276.3	274.4	275.3
57.5°	363.6	343.7	353.0	343.7	330.3	334.0	315.1	312.8	311.8	306.3	304.4
60°	392.7	372.4	386.2	373.3	358.5	368.2	341.4	343.3	338.6	332.6	328.5
62.5°	418.6	397.8	414.4	399.6	383.4	393.6	363.6	369.6	360.3	355.3	347.9
65°	443.0	423.6	440.7	427.3	405.6	419.9	385.8	396.8	387.1	377.9	371.0
67.5°	466.6	447.7	467.5	454.1	430.6	444.4	402.9	419.5	409.3	399.2	390.8
70°	486.5	466.6	489.7	477.2	451.8	461.1	411.6	441.2	426.9	417.6	406.1
72.5°	505.0	481.9	510.5	498.9	472.1	480.0	424.6	458.3	435.7	426.9	418.6
75°	517.0	491.6	527.6	514.2	492.5	496.6	440.3	471.7	451.8	437.5	431.0
77.5°	528.0	500.3	538.2	522.5	502.6	505.0	450.4	480.9	458.8	442.6	434.3
79°	525.7	499.9	540.1	526.2	507.3	508.2	452.7	480.9	459.2	441.2	435.2
80°	520.2	495.7	535.4	519.7	500.8	502.2	450.4	477.2	460.6	436.1	430.6
82.5°	514.2	488.8	528.5	514.2	495.2	493.9	447.2	471.7	451.4	431.5	425.5
85°	498.5	476.3	513.7	499.4	483.7	481.4	437.0	459.7	442.1	417.2	412.1
87.5°	483.7	462.0	499.9	486.0	470.8	468.9	428.7	451.4	431.5	404.7	401.9
90°	467.5	445.4	480.9	467.1	450.0	446.7	410.2	432.9	416.7	390.8	388.1
92.5°	438.4	418.6	452.3	440.3	426.0	423.6	388.5	409.3	394.1	371.0	368.2
95°	412.1	393.2	423.2	413.0	399.6	399.2	364.5	386.7	371.9	351.1	349.7
97.5°	383.4	365.0	390.8	381.6	368.2	366.8	334.5	354.3	341.4	322.5	321.1
100°	338.2	322.5	339.6	332.6	316.9	321.1	292.4	313.7	303.5	286.9	283.7
102.5°	253.6	241.2	246.7	241.2	227.3	233.3	218.5	241.2	237.0	227.8	225.0
105°	143.7	140.0	143.7	141.8	136.7	135.4	128.0	143.2	140.0	136.7	134.9
107.5°	97.0	94.2	97.5	96.1	90.1	89.6	84.1	91.0	87.8	85.0	83.6



REPORT NUMBER: P314547

CATALOG NUMBER: MPN-A3-D-U-SYM-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	79.0	76.7	79.0	78.5	74.4	73.0	68.8	73.5	71.1	68.8	67.9
112.5°	70.7	68.8	70.7	70.2	66.1	65.6	62.4	66.1	64.2	62.4	61.9
115°	65.6	63.8	65.1	64.7	61.0	60.5	57.7	61.0	59.6	57.7	57.3
117.5°	61.9	60.1	61.0	60.1	57.3	56.4	54.1	56.8	55.9	53.6	53.1
120°	58.7	56.8	57.7	56.4	53.6	52.7	50.8	52.7	51.7	50.4	49.9
122.5°	55.9	54.1	54.5	52.7	49.9	48.5	47.1	48.0	47.6	46.2	45.7
125°	52.2	50.4	50.4	48.5	45.3	44.4	43.0	43.4	43.0	42.5	42.0
127.5°	48.0	46.7	45.7	43.9	41.1	39.3	38.3	38.8	38.8	38.3	37.9
130°	43.4	42.0	40.2	38.3	36.0	34.6	33.3	34.2	34.2	34.2	34.2
132.5°	37.9	36.5	34.6	32.8	30.5	29.6	28.2	29.1	29.6	30.0	29.6
135°	31.4	30.5	28.6	26.8	24.9	23.6	23.1	24.0	24.9	24.9	24.5
137.5°	24.5	23.6	22.6	21.3	19.4	18.5	18.0	18.9	19.9	19.9	19.4
140°	18.5	18.5	17.6	16.2	14.3	13.9	13.9	14.3	14.8	14.8	14.3
142.5°	14.3	14.3	13.4	12.5	11.1	10.6	10.6	11.1	11.5	11.5	11.1
145°	11.1	11.1	10.2	9.2	8.3	7.9	7.9	8.3	8.8	8.8	8.3
147.5°	8.3	7.9	6.9	6.5	5.5	5.5	5.5	5.5	6.0	6.0	6.0
150°	4.6	4.6	4.2	3.2	2.8	2.8	2.8	3.2	3.7	3.7	3.2
152.5°	0.9	0.9	0.9	0.9	0.5	0.0	0.5	0.5	0.5	0.5	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	0.5	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
167.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
172.5°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
177.5°	0.0	0.0	0.5	0.5	0.0	0.5	0.0	0.5	0.5	0.0	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)