

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: P314542

Luminaire Tested: **MPN-A4-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314542
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-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587 lumens
Efficiency: N/A
Efficacy: 91.7 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



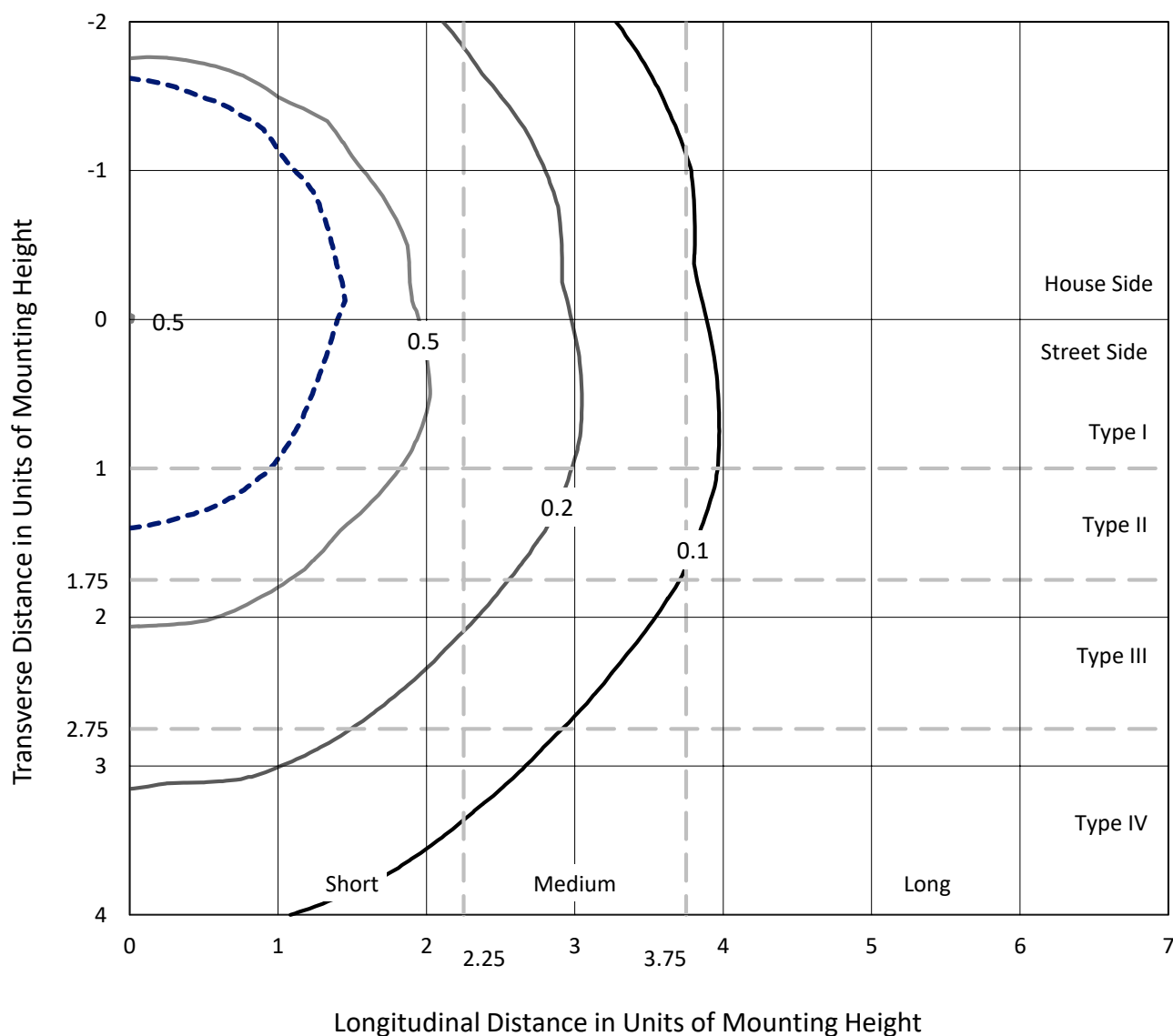
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

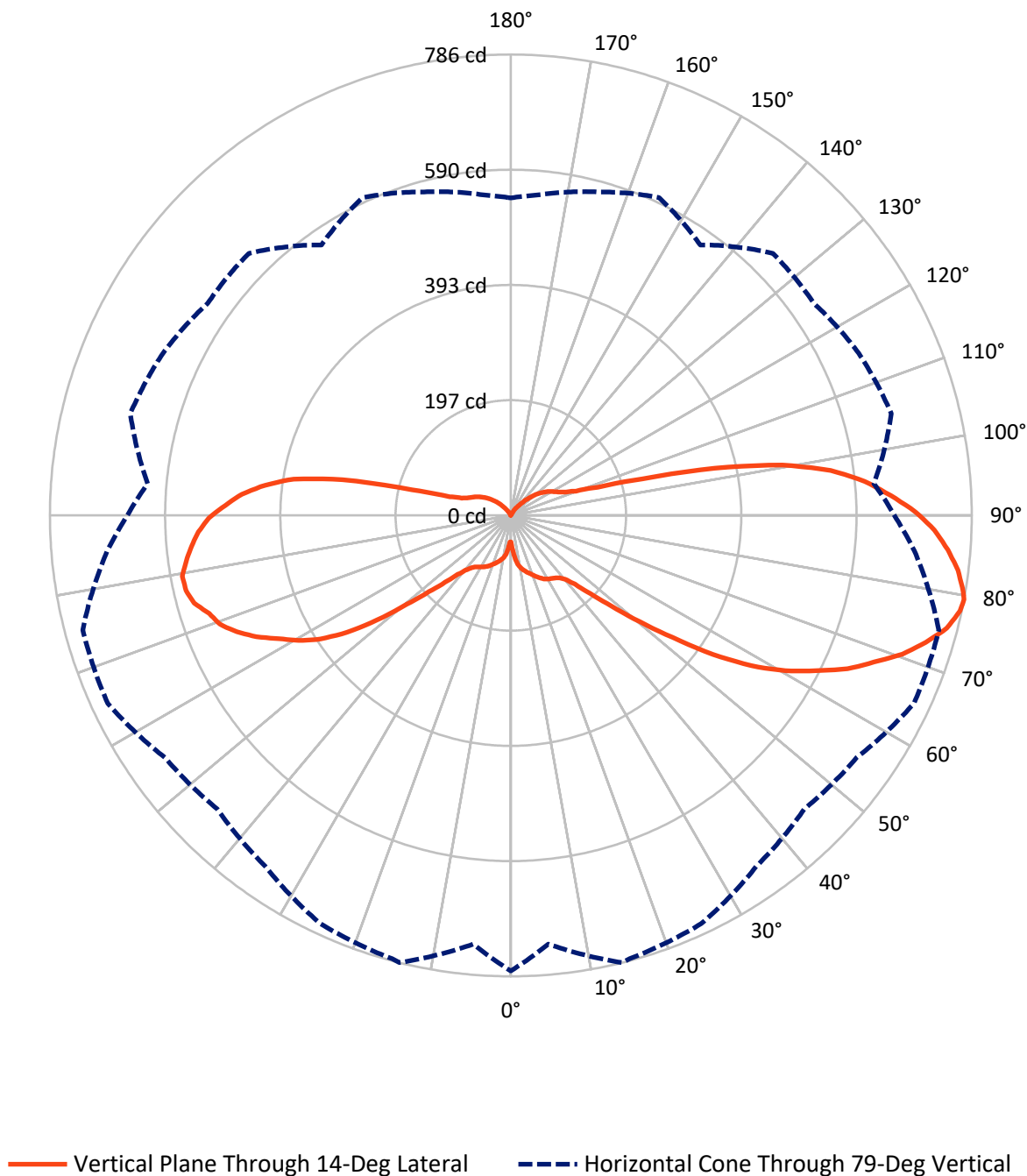


Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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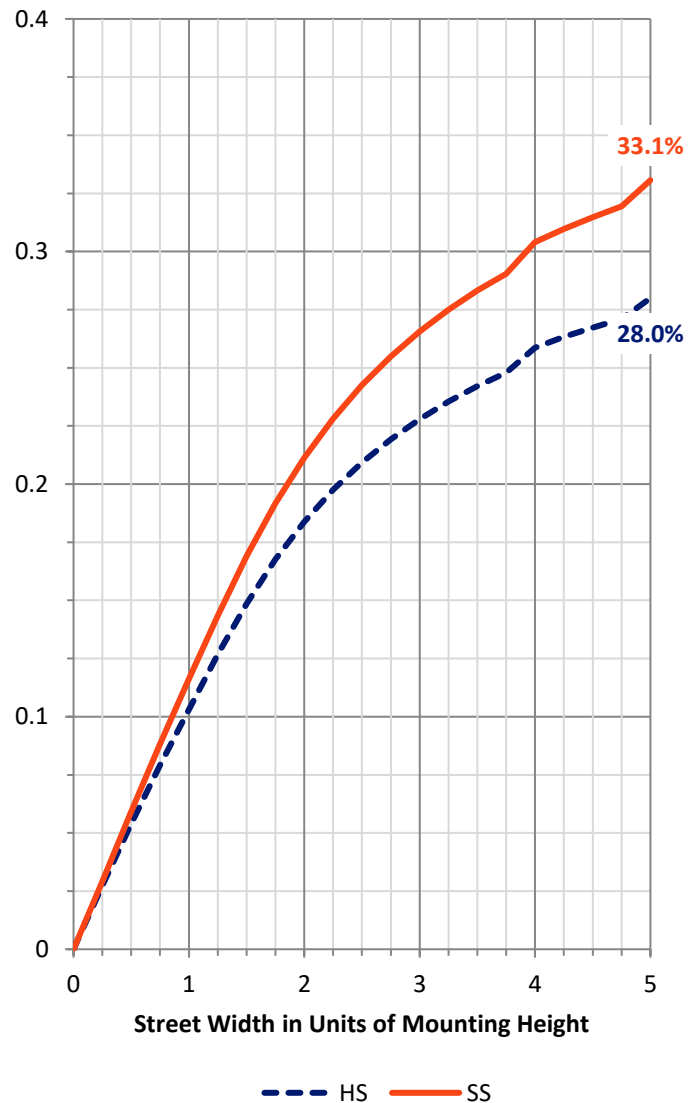
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.1	450.6	1632.7
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1414.2	540.1	1954.3
	% Fixture	39.4	15.1	54.5
Total	Lumens	2596.3	990.7	3587.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.2
10°-20°	25.7	0.7
20°-30°	50.1	1.4
30°-40°	76.4	2.1
40°-50°	144.0	4.0
50°-60°	347.6	9.7
60°-70°	553.3	15.4
70°-80°	694.0	19.3
80°-90°	698.6	19.5
90°-100°	572.7	16.0
100°-110°	241.9	6.7
110°-120°	83.8	2.3
120°-130°	55.8	1.6
130°-140°	27.8	0.8
140°-150°	8.2	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2596.3	72.4
0°-180°	3587.0	100.0

Coefficient of Utilization



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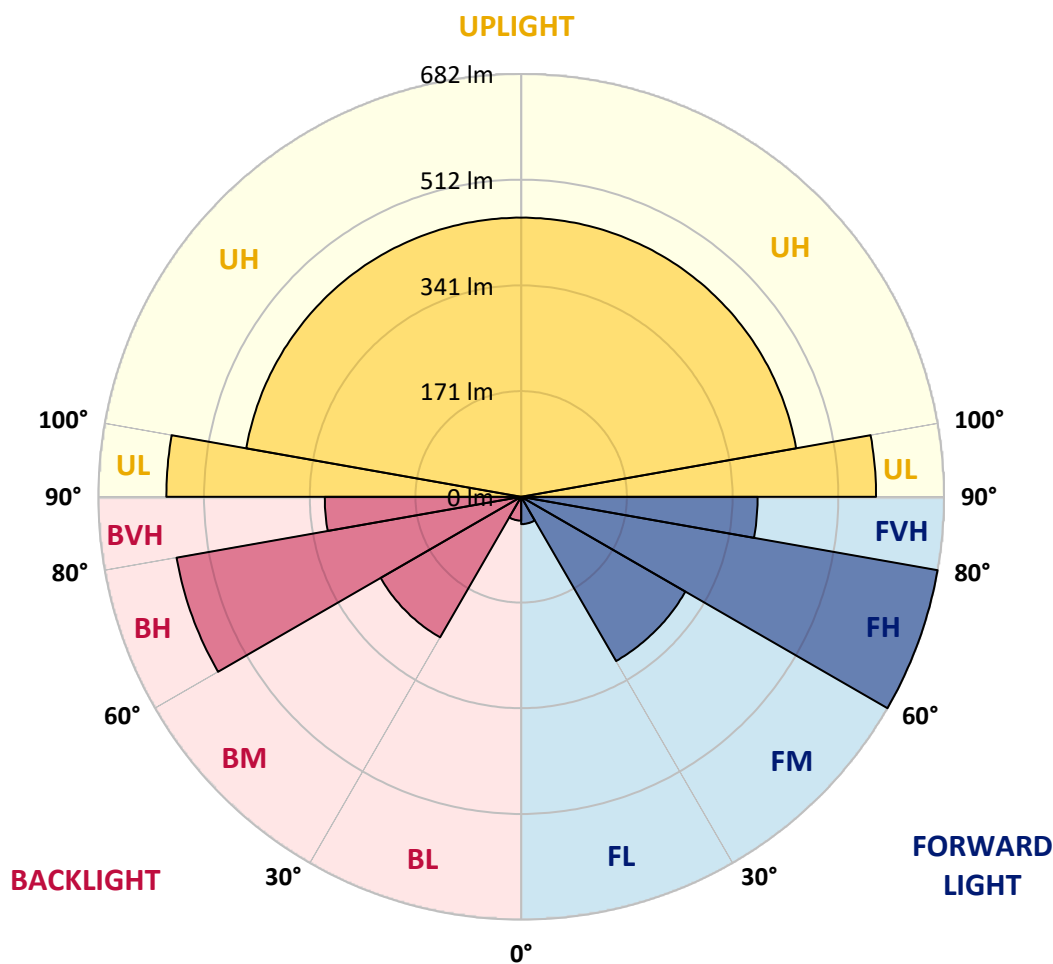
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	44.1	1.2			
FM	(30°-60°)	306.1	8.5			
FH	(60°-80°)	682.4	19.0			G1/1800
FVH	(80°-90°)	381.6	10.6			G3/500
BL	(0°-30°)	38.4	1.1	B0/110		
BM	(30°-60°)	261.9	7.3	B1/1000		
BH	(60°-80°)	564.9	15.7	B2/1000		G0/660
BVH	(80°-90°)	317.0	8.8			G3/500
UL	(90°-100°)	572.7	16.0		U4/1000	
UH	(100°-180°)	450.6	12.6		U3/500	

BUG Rating: B2-U4-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
2.5°	60.4	58.6	58.6	59.2	59.2	56.9	55.2	55.2	54.0	52.9	50.6
5°	73.6	72.4	72.4	72.4	72.4	73.0	71.3	70.1	67.8	66.7	65.0
7.5°	83.9	83.3	83.3	83.9	83.3	82.8	81.0	81.0	78.7	77.6	75.9
10°	91.4	90.8	90.8	90.8	89.7	88.5	87.4	86.8	85.1	83.3	81.6
12.5°	95.4	94.8	95.4	95.4	94.3	92.0	91.4	90.8	89.7	87.9	85.6
15°	100.0	99.4	100.0	100.0	98.3	97.1	96.0	95.4	94.3	93.1	90.8
17.5°	104.6	104.0	104.0	104.0	103.5	101.2	100.0	100.6	98.9	97.1	95.4
20°	109.8	109.2	108.6	108.6	108.1	105.8	105.2	104.6	103.5	101.7	100.0
22.5°	115.5	114.4	113.8	113.8	113.2	110.9	110.9	110.4	108.6	106.9	105.8
25°	121.3	120.7	118.4	118.4	117.8	116.1	116.7	115.5	113.8	111.5	110.9
27.5°	125.9	124.7	123.0	122.4	121.9	120.1	120.7	119.6	117.3	115.5	115.0
30°	128.8	128.2	125.9	125.9	124.2	123.6	123.6	121.9	119.6	117.8	118.4
32.5°	130.5	130.5	128.2	127.6	126.5	125.9	125.3	124.2	121.3	119.6	120.1
35°	133.4	132.8	131.1	130.5	128.8	128.8	127.6	125.9	122.4	121.9	122.4
37.5°	136.8	136.2	135.1	134.5	131.6	132.8	131.1	129.9	126.5	125.9	125.3
40°	144.8	144.8	143.1	143.1	139.7	142.5	140.8	141.4	138.0	137.4	135.1
42.5°	159.8	159.8	160.4	160.9	158.1	160.9	160.4	163.2	160.4	158.1	154.6
45°	189.1	186.8	190.3	189.1	187.4	190.3	189.1	193.1	192.0	189.1	185.7
47.5°	225.3	229.9	230.5	231.6	228.2	231.6	230.5	235.1	237.4	233.9	224.7
50°	275.3	279.9	285.1	285.1	282.2	283.4	282.8	289.7	292.6	293.1	280.5
52.5°	334.0	338.6	345.5	349.5	344.9	348.3	349.5	362.7	371.9	370.7	348.9
55°	402.9	409.8	418.5	420.8	412.7	415.0	416.2	432.8	451.2	448.9	420.8
57.5°	470.2	476.5	484.0	488.0	478.2	475.4	466.2	485.7	509.3	508.1	466.7
60°	525.4	530.0	538.0	542.0	532.3	526.5	507.0	527.7	554.7	556.4	508.1
62.5°	574.2	576.5	583.4	587.4	576.5	570.2	546.1	567.9	594.3	596.6	544.3
65°	617.3	613.9	631.1	632.3	616.8	607.0	584.0	607.6	632.9	634.6	575.4
67.5°	655.8	648.9	667.9	671.9	654.7	639.8	617.9	635.7	663.3	662.2	609.9
70°	690.3	681.1	708.7	711.0	688.0	667.9	655.3	665.6	696.7	697.2	639.8
72.5°	725.4	708.2	740.3	740.9	721.4	692.1	676.5	689.8	720.2	717.3	663.3
75°	753.0	722.5	768.5	766.2	748.4	712.7	697.8	708.2	744.4	743.2	679.4
77.5°	779.4	735.7	783.5	781.7	765.6	727.1	708.7	723.1	757.6	757.0	693.8
79°	777.1	734.0	786.3	782.9	768.5	730.6	708.2	720.2	758.7	755.9	690.9
80°	774.8	728.8	782.3	779.4	763.9	726.5	700.1	709.9	748.4	746.7	681.7
82.5°	758.7	716.2	768.5	764.5	751.3	717.3	692.1	701.3	746.7	740.9	673.1
85°	736.9	696.7	747.8	744.4	731.7	699.0	669.6	677.1	717.3	716.2	653.0
87.5°	708.7	671.9	723.1	719.6	708.2	678.3	648.9	657.6	698.4	697.8	631.1
90°	681.7	646.1	690.3	689.2	677.7	650.1	624.8	638.0	680.0	677.7	611.6
92.5°	640.9	608.7	648.9	649.5	638.6	615.6	592.0	603.0	635.7	635.2	574.2
95°	599.5	569.6	606.4	606.4	596.1	575.9	551.8	559.9	592.0	597.2	538.6
97.5°	544.9	518.5	551.2	552.4	544.3	527.1	506.4	516.7	547.8	553.0	499.5
100°	460.4	442.6	471.3	474.2	467.9	457.5	443.2	458.1	485.1	490.9	444.3
102.5°	336.8	331.7	356.9	355.8	353.5	350.6	347.2	355.2	373.0	381.7	334.0
105°	228.8	220.1	233.4	232.8	228.2	220.7	212.1	211.5	216.1	212.7	189.1
107.5°	154.0	150.6	155.8	156.3	152.9	146.6	138.5	138.0	142.0	139.7	127.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	117.3	115.5	118.4	119.0	117.3	112.1	108.1	108.1	112.1	110.4	102.3
112.5°	101.7	100.6	102.3	102.3	101.2	96.0	93.7	95.4	98.9	98.3	91.4
115°	92.5	92.0	92.5	93.1	91.4	86.8	85.6	87.4	90.8	90.2	84.5
117.5°	86.2	85.6	85.6	86.2	84.5	80.5	79.9	81.6	85.1	84.5	79.3
120°	80.5	80.5	80.5	80.5	79.3	75.9	75.3	77.6	80.5	79.9	75.3
122.5°	74.7	74.7	74.7	74.7	73.6	71.3	71.3	73.6	75.9	75.3	71.3
125°	68.4	68.4	67.8	68.4	67.3	66.1	66.1	68.4	70.1	70.1	66.7
127.5°	62.1	62.1	60.9	61.5	60.4	59.8	60.4	62.7	64.4	64.4	62.1
130°	55.2	54.6	53.5	54.0	52.9	52.9	54.0	56.3	57.5	58.1	55.8
132.5°	47.1	46.6	45.4	45.4	45.4	45.4	46.6	48.3	50.0	50.0	48.9
135°	39.1	38.5	37.4	37.4	37.4	36.8	38.5	40.2	41.4	41.4	40.2
137.5°	30.5	30.5	29.3	29.9	29.3	28.7	29.9	31.0	31.6	32.2	31.0
140°	24.1	24.1	23.6	23.0	22.4	21.8	22.4	23.0	23.6	24.1	23.6
142.5°	19.0	19.0	18.4	18.4	17.8	17.2	17.2	17.8	19.0	19.0	18.4
145°	14.4	14.4	14.4	13.8	13.2	13.2	13.2	13.8	14.4	14.4	14.4
147.5°	10.3	9.8	9.8	9.8	9.2	9.2	9.8	9.8	10.3	10.3	10.3
150°	5.2	5.2	5.2	5.2	5.2	5.2	5.7	5.7	6.3	6.3	5.7
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
2.5°	50.0	49.4	48.3	48.9	47.1	46.6	46.0	45.4	45.4	45.4	44.8
5°	63.8	62.7	59.8	58.6	58.6	57.5	57.5	56.9	56.9	56.9	56.9
7.5°	74.7	74.1	71.3	69.0	67.8	67.3	67.3	66.7	66.7	66.1	65.5
10°	80.5	79.3	77.6	76.4	75.3	74.1	73.0	73.6	73.0	71.8	71.8
12.5°	85.1	83.9	82.2	81.0	79.9	78.2	77.6	77.6	77.0	75.3	75.3
15°	89.7	88.5	87.4	85.6	84.5	82.8	81.6	81.6	81.0	79.3	78.7
17.5°	94.3	93.7	92.0	90.2	89.1	87.4	85.6	85.1	84.5	83.3	82.8
20°	99.4	98.3	96.6	94.8	93.1	92.0	90.2	88.5	87.9	87.4	86.8
22.5°	105.2	103.5	101.7	99.4	97.7	97.1	94.3	92.5	92.0	90.8	90.8
25°	110.4	108.1	106.3	104.6	102.3	101.7	98.9	96.6	95.4	94.8	94.8
27.5°	114.4	112.1	110.4	108.6	106.3	105.8	102.3	100.0	98.3	98.3	98.9
30°	117.3	115.5	113.8	111.5	110.4	109.8	105.8	102.9	101.2	101.7	101.7
32.5°	119.6	117.8	116.1	113.8	112.7	112.1	108.6	105.2	103.5	104.0	104.0
35°	121.3	120.1	118.4	116.1	115.5	114.4	110.9	107.5	106.3	107.5	106.9
37.5°	124.7	123.0	121.3	118.4	119.6	117.8	115.0	111.5	111.5	113.2	112.7
40°	133.4	131.1	128.8	125.3	125.9	125.3	123.6	120.7	120.7	123.0	122.4
42.5°	151.2	147.7	143.7	139.1	139.1	138.0	135.7	134.5	135.1	136.8	136.8
45°	178.2	171.9	169.0	163.2	162.1	160.9	158.6	156.3	159.8	159.2	160.4
47.5°	216.7	208.1	204.6	197.2	196.0	195.4	192.0	189.7	190.8	192.0	194.9
50°	269.0	256.4	252.3	244.9	243.1	240.8	233.9	231.1	233.4	235.1	237.4
52.5°	337.4	315.6	314.4	307.5	297.7	301.8	292.6	288.0	289.7	289.1	292.0
55°	405.2	379.9	382.8	373.6	360.4	365.0	347.2	346.6	343.7	341.4	342.6
57.5°	452.4	427.6	439.1	427.6	411.0	415.6	392.0	389.1	388.0	381.1	378.8
60°	488.6	463.3	480.5	464.4	446.0	458.1	424.8	427.1	421.3	413.9	408.7
62.5°	520.8	494.9	515.6	497.2	477.1	489.7	452.4	459.8	448.3	442.0	432.8
65°	551.2	527.1	548.4	531.7	504.7	522.5	480.0	493.8	481.7	470.2	461.6
67.5°	580.5	557.0	581.7	565.0	535.7	553.0	501.2	521.9	509.3	496.6	486.3
70°	605.3	580.5	609.3	593.8	562.2	573.6	512.1	548.9	531.1	519.6	505.2
72.5°	628.3	599.5	635.2	620.8	587.4	597.2	528.2	570.2	542.0	531.1	520.8
75°	643.2	611.6	656.4	639.8	612.7	617.9	547.8	586.9	562.2	544.3	536.3
77.5°	657.0	622.5	669.6	650.1	625.4	628.3	560.4	598.4	570.8	550.7	540.3
79°	654.1	621.9	671.9	654.7	631.1	632.3	563.3	598.4	571.3	548.9	541.5
80°	647.2	616.8	666.2	646.6	623.1	624.8	560.4	593.8	573.1	542.6	535.7
82.5°	639.8	608.1	657.6	639.8	616.2	614.5	556.4	586.9	561.6	536.9	529.4
85°	620.2	592.6	639.2	621.4	601.8	598.9	543.8	571.9	550.1	519.0	512.7
87.5°	601.8	574.8	621.9	604.7	585.7	583.4	533.4	561.6	536.9	503.5	500.1
90°	581.7	554.1	598.4	581.1	559.9	555.8	510.4	538.6	518.5	486.3	482.8
92.5°	545.5	520.8	562.7	547.8	530.0	527.1	483.4	509.3	490.3	461.6	458.1
95°	512.7	489.2	526.5	513.9	497.2	496.6	453.5	481.1	462.7	436.8	435.1
97.5°	477.1	454.1	486.3	474.8	458.1	456.4	416.2	440.9	424.8	401.2	399.5
100°	420.8	401.2	422.5	413.9	394.3	399.5	363.8	390.3	377.6	356.9	352.9
102.5°	315.6	300.0	306.9	300.0	282.8	290.3	271.9	300.0	294.9	283.4	279.9
105°	178.8	174.2	178.8	176.5	170.1	168.4	159.2	178.2	174.2	170.1	167.8
107.5°	120.7	117.3	121.3	119.6	112.1	111.5	104.6	113.2	109.2	105.8	104.0



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CATALOG NUMBER: MPN-A4-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	98.3	95.4	98.3	97.7	92.5	90.8	85.6	91.4	88.5	85.6	84.5
112.5°	87.9	85.6	87.9	87.4	82.2	81.6	77.6	82.2	79.9	77.6	77.0
115°	81.6	79.3	81.0	80.5	75.9	75.3	71.8	75.9	74.1	71.8	71.3
117.5°	77.0	74.7	75.9	74.7	71.3	70.1	67.3	70.7	69.6	66.7	66.1
120°	73.0	70.7	71.8	70.1	66.7	65.5	63.2	65.5	64.4	62.7	62.1
122.5°	69.6	67.3	67.8	65.5	62.1	60.4	58.6	59.8	59.2	57.5	56.9
125°	65.0	62.7	62.7	60.4	56.3	55.2	53.5	54.0	53.5	52.9	52.3
127.5°	59.8	58.1	56.9	54.6	51.2	48.9	47.7	48.3	48.3	47.7	47.1
130°	54.0	52.3	50.0	47.7	44.8	43.1	41.4	42.5	42.5	42.5	42.5
132.5°	47.1	45.4	43.1	40.8	37.9	36.8	35.1	36.2	36.8	37.4	36.8
135°	39.1	37.9	35.6	33.3	31.0	29.3	28.7	29.9	31.0	31.0	30.5
137.5°	30.5	29.3	28.2	26.4	24.1	23.0	22.4	23.6	24.7	24.7	24.1
140°	23.0	23.0	21.8	20.1	17.8	17.2	17.2	17.8	18.4	18.4	17.8
142.5°	17.8	17.8	16.7	15.5	13.8	13.2	13.2	13.8	14.4	14.4	13.8
145°	13.8	13.8	12.6	11.5	10.3	9.8	9.8	10.3	10.9	10.9	10.3
147.5°	10.3	9.8	8.6	8.0	6.9	6.9	6.9	6.9	7.5	7.5	7.5
150°	5.7	5.7	5.2	4.0	3.4	3.4	3.4	4.0	4.6	4.6	4.0
152.5°	1.1	1.1	1.1	1.1	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)