

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: P314543

Luminaire Tested: **MPN-A5-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314543
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-A5-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: 4503 lumens
Efficiency: N/A
Efficacy: 89.0 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): 50.6
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

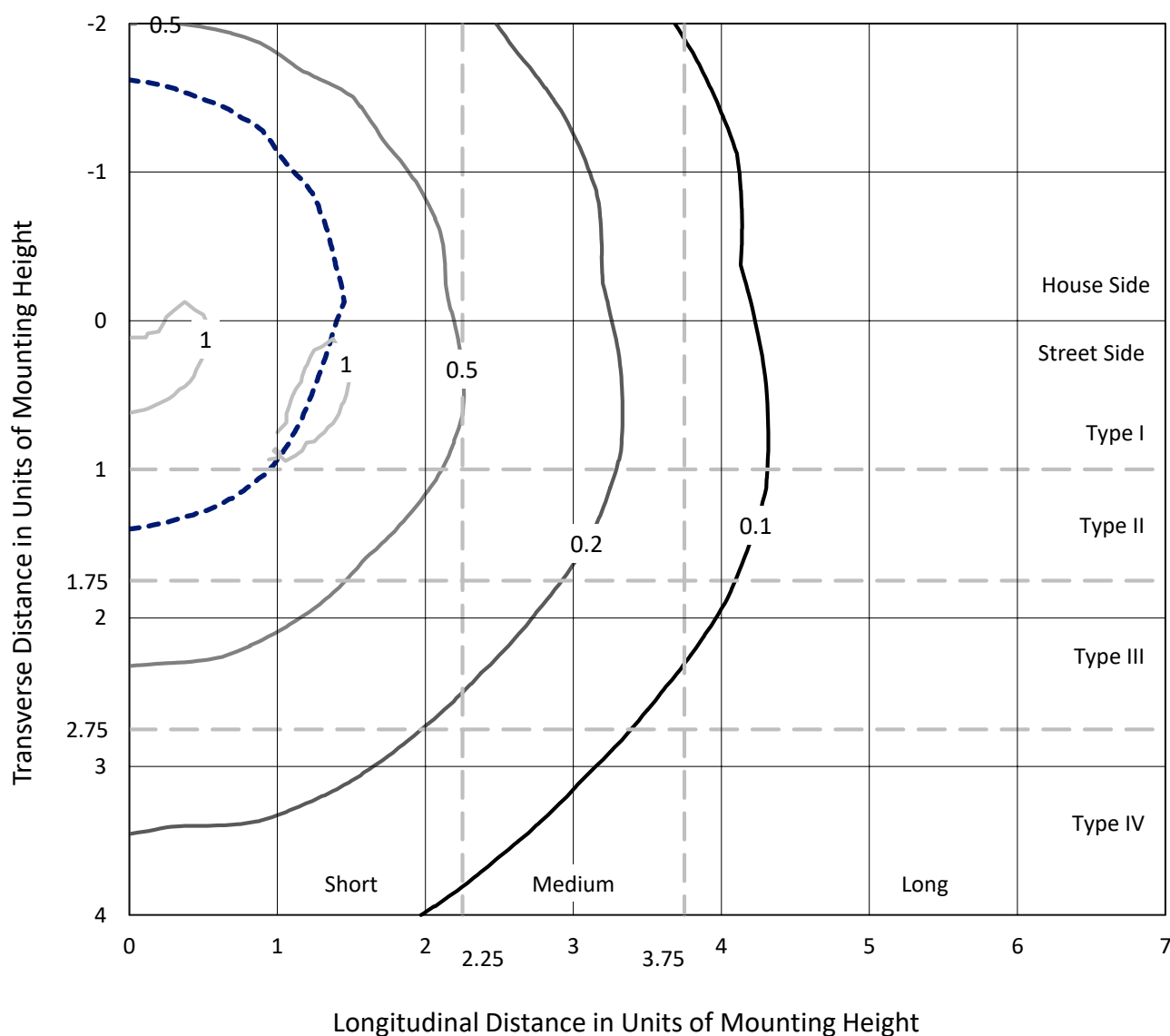


REPORT NUMBER: P314543

CATALOG NUMBER: MPN-A5-D-U-SYM-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

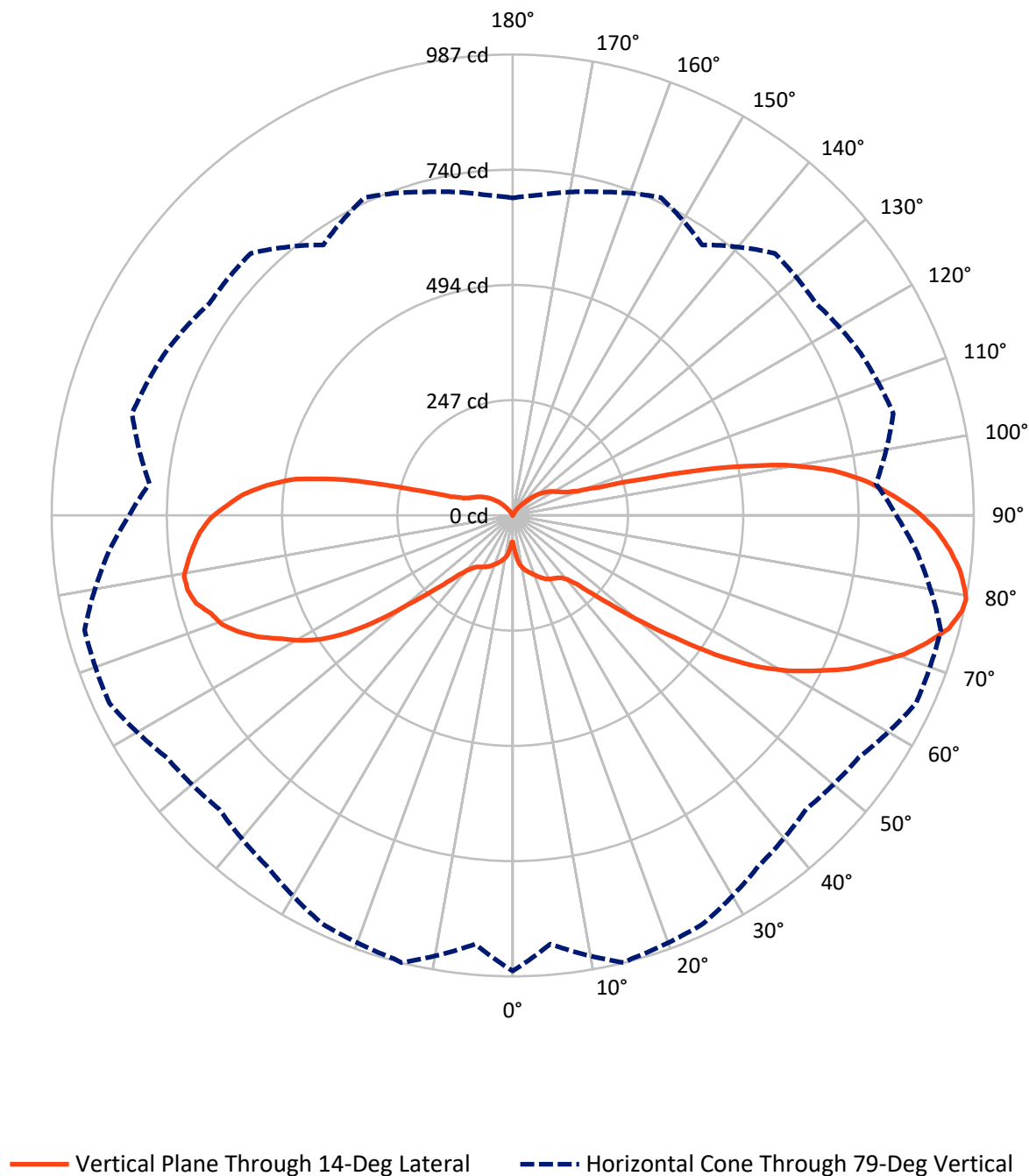


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P314543

CATALOG NUMBER: MPN-A5-D-U-SYM-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P314543

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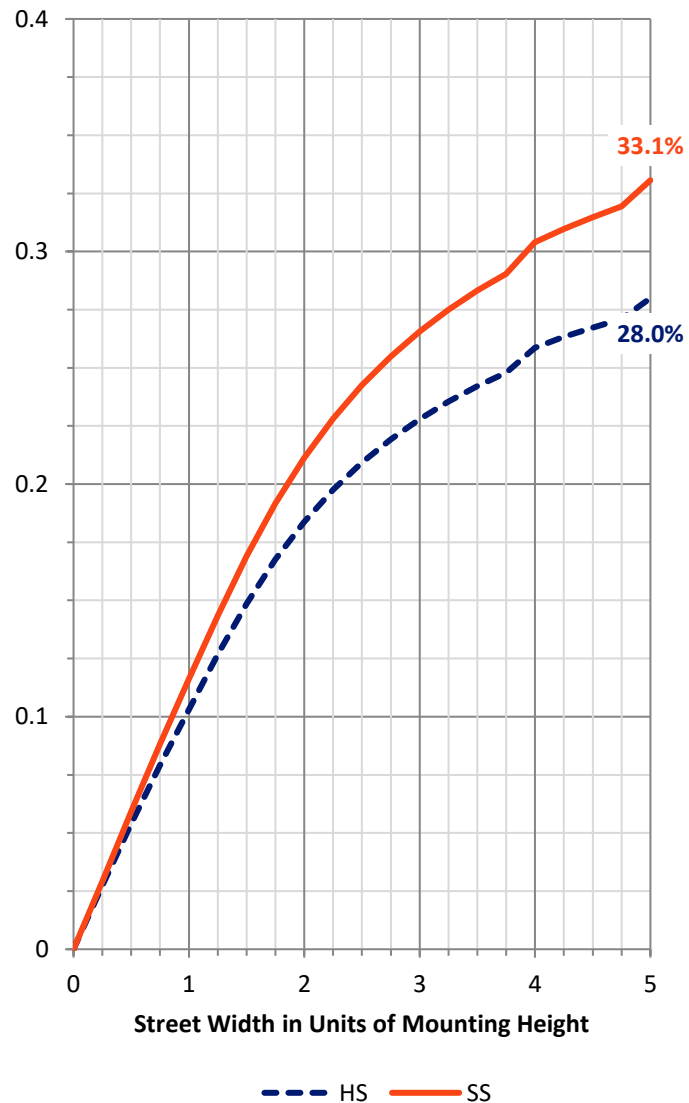
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.0	565.6	2049.6
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1775.3	678.1	2453.3
	% Fixture	39.4	15.1	54.5
Total	Lumens	3259.3	1243.7	4503.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.2
10°-20°	32.3	0.7
20°-30°	62.9	1.4
30°-40°	95.9	2.1
40°-50°	180.8	4.0
50°-60°	436.3	9.7
60°-70°	694.6	15.4
70°-80°	871.2	19.3
80°-90°	877.0	19.5
90°-100°	719.0	16.0
100°-110°	303.7	6.7
110°-120°	105.1	2.3
120°-130°	70.1	1.6
130°-140°	34.9	0.8
140°-150°	10.2	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3259.3	72.4
0°-180°	4503.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314543

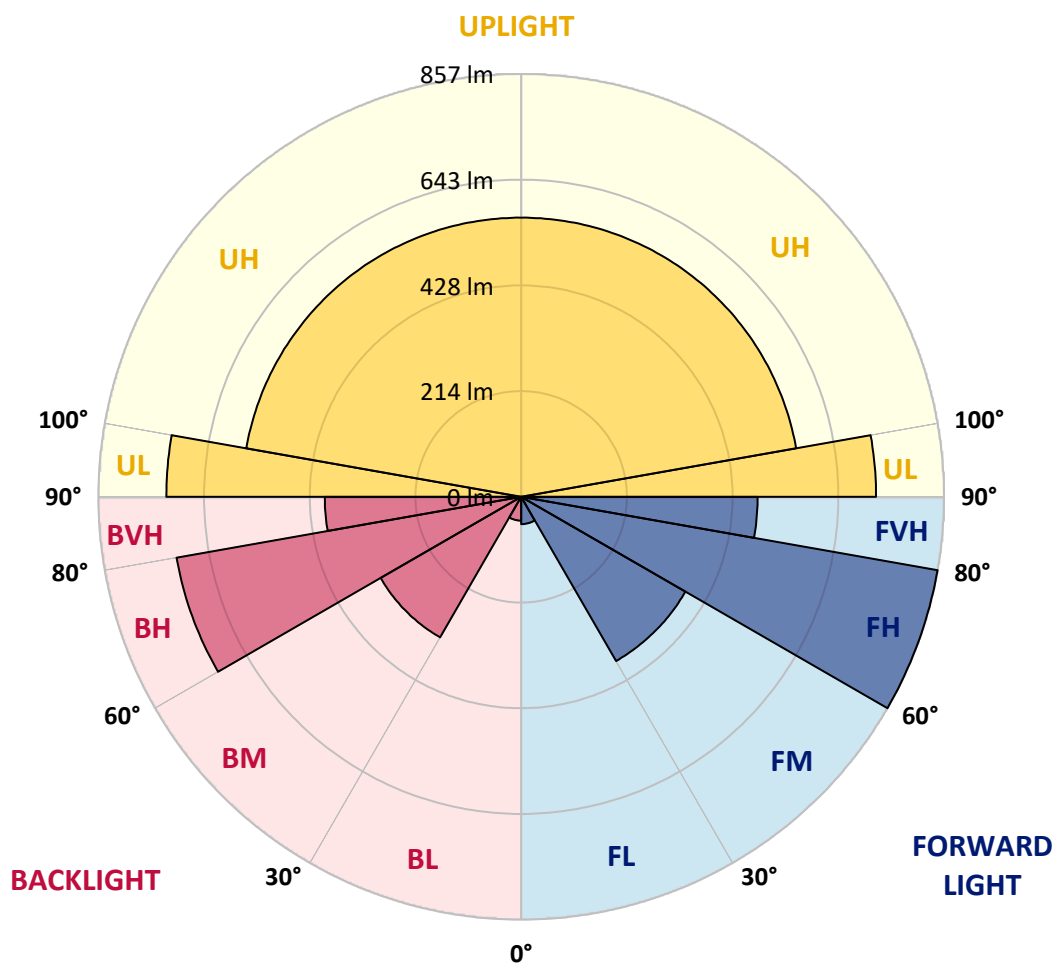
CATALOG NUMBER: MPN-A5-D-U-SYM-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.3	1.2			
FM	(30°-60°)	384.2	8.5			
FH	(60°-80°)	856.7	19.0			G1/1800
FVH	(80°-90°)	479.0	10.6			G3/500
BL	(0°-30°)	48.2	1.1	B0/110		
BM	(30°-60°)	328.8	7.3	B1/1000		
BH	(60°-80°)	709.1	15.7	B2/1000		G1/1800
BVH	(80°-90°)	397.9	8.8			G3/500
UL	(90°-100°)	719.0	16.0		U4/1000	
UH	(100°-180°)	565.6	12.6		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





REPORT NUMBER: P314543

CATALOG NUMBER: MPN-A5-D-U-SYM-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
2.5°	75.8	73.6	73.6	74.3	74.3	71.4	69.3	69.3	67.8	66.4	63.5
5°	92.4	90.9	90.9	90.9	90.9	91.6	89.5	88.0	85.1	83.7	81.5
7.5°	105.4	104.6	104.6	105.4	104.6	103.9	101.7	101.7	98.9	97.4	95.2
10°	114.7	114.0	114.0	114.0	112.6	111.1	109.7	109.0	106.8	104.6	102.5
12.5°	119.8	119.1	119.8	119.8	118.3	115.5	114.7	114.0	112.6	110.4	107.5
15°	125.6	124.8	125.6	125.6	123.4	121.9	120.5	119.8	118.3	116.9	114.0
17.5°	131.3	130.6	130.6	130.6	129.9	127.0	125.6	126.3	124.1	121.9	119.8
20°	137.8	137.1	136.4	136.4	135.7	132.8	132.0	131.3	129.9	127.7	125.6
22.5°	145.0	143.6	142.9	142.9	142.2	139.3	139.3	138.5	136.4	134.2	132.8
25°	152.3	151.5	148.6	148.6	147.9	145.8	146.5	145.0	142.9	140.0	139.3
27.5°	158.0	156.6	154.4	153.7	153.0	150.8	151.5	150.1	147.2	145.0	144.3
30°	161.6	160.9	158.0	158.0	155.9	155.1	155.1	153.0	150.1	147.9	148.6
32.5°	163.8	163.8	160.9	160.2	158.7	158.0	157.3	155.9	152.3	150.1	150.8
35°	167.4	166.7	164.5	163.8	161.6	161.6	160.2	158.0	153.7	153.0	153.7
37.5°	171.7	171.0	169.6	168.9	165.2	166.7	164.5	163.1	158.7	158.0	157.3
40°	181.8	181.8	179.7	179.7	175.3	179.0	176.8	177.5	173.2	172.5	169.6
42.5°	200.6	200.6	201.3	202.0	198.4	202.0	201.3	204.9	201.3	198.4	194.1
45°	237.4	234.5	238.8	237.4	235.2	238.8	237.4	242.5	241.0	237.4	233.1
47.5°	282.9	288.6	289.4	290.8	286.5	290.8	289.4	295.1	298.0	293.7	282.1
50°	345.6	351.4	357.9	357.9	354.3	355.7	355.0	363.7	367.3	368.0	352.1
52.5°	419.2	425.0	433.7	438.7	432.9	437.3	438.7	455.3	466.9	465.4	438.0
55°	505.8	514.5	525.3	528.2	518.1	521.0	522.4	543.4	566.4	563.6	528.2
57.5°	590.3	598.2	607.6	612.6	600.4	596.7	585.2	609.7	639.3	637.9	585.9
60°	659.5	665.3	675.4	680.5	668.2	661.0	636.4	662.4	696.3	698.5	637.9
62.5°	720.9	723.7	732.4	737.5	723.7	715.8	685.5	712.9	746.1	749.0	683.3
65°	775.0	770.7	792.3	793.7	774.3	762.0	733.1	762.7	794.5	796.6	722.3
67.5°	823.3	814.7	838.5	843.5	821.9	803.1	775.7	798.1	832.7	831.3	765.6
70°	866.6	855.1	889.7	892.6	863.7	838.5	822.6	835.6	874.6	875.3	803.1
72.5°	910.6	889.0	929.4	930.1	905.6	868.8	849.3	865.9	904.1	900.5	832.7
75°	945.3	907.0	964.8	961.9	939.5	894.8	876.0	889.0	934.4	933.0	852.9
77.5°	978.5	923.6	983.5	981.4	961.1	912.8	889.7	907.8	951.0	950.3	871.0
79°	975.6	921.5	987.1	982.8	964.8	917.1	889.0	904.1	952.5	948.9	867.3
80°	972.7	915.0	982.1	978.5	959.0	912.1	878.9	891.2	939.5	937.3	855.8
82.5°	952.5	899.1	964.8	959.7	943.1	900.5	868.8	880.3	937.3	930.1	845.0
85°	925.1	874.6	938.8	934.4	918.6	877.4	840.6	850.0	900.5	899.1	819.7
87.5°	889.7	843.5	907.8	903.4	889.0	851.5	814.7	825.5	876.7	876.0	792.3
90°	855.8	811.1	866.6	865.2	850.7	816.1	784.4	801.0	853.6	850.7	767.8
92.5°	804.6	764.2	814.7	815.4	801.7	772.8	743.2	756.9	798.1	797.3	720.9
95°	752.6	715.1	761.3	761.3	748.3	723.0	692.7	702.8	743.2	749.7	676.1
97.5°	684.1	650.9	692.0	693.4	683.3	661.7	635.7	648.7	687.7	694.2	627.1
100°	578.0	555.6	591.7	595.3	587.4	574.4	556.3	575.1	609.0	616.2	557.8
102.5°	422.8	416.4	448.1	446.7	443.8	440.2	435.8	445.9	468.3	479.1	419.2
105°	287.2	276.4	293.0	292.2	286.5	277.1	266.3	265.5	271.3	267.0	237.4
107.5°	193.4	189.1	195.5	196.3	191.9	184.0	173.9	173.2	178.2	175.3	159.5



REPORT NUMBER: P314543

CATALOG NUMBER: MPN-A5-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	147.2	145.0	148.6	149.4	147.2	140.7	135.7	135.7	140.7	138.5	128.4
112.5°	127.7	126.3	128.4	128.4	127.0	120.5	117.6	119.8	124.1	123.4	114.7
115°	116.2	115.5	116.2	116.9	114.7	109.0	107.5	109.7	114.0	113.3	106.1
117.5°	108.2	107.5	107.5	108.2	106.1	101.0	100.3	102.5	106.8	106.1	99.6
120°	101.0	101.0	101.0	101.0	99.6	95.2	94.5	97.4	101.0	100.3	94.5
122.5°	93.8	93.8	93.8	93.8	92.4	89.5	89.5	92.4	95.2	94.5	89.5
125°	85.9	85.9	85.1	85.9	84.4	83.0	83.0	85.9	88.0	88.0	83.7
127.5°	77.9	77.9	76.5	77.2	75.8	75.0	75.8	78.7	80.8	80.8	77.9
130°	69.3	68.6	67.1	67.8	66.4	66.4	67.8	70.7	72.2	72.9	70.0
132.5°	59.2	58.4	57.0	57.0	57.0	57.0	58.4	60.6	62.8	62.8	61.3
135°	49.1	48.3	46.9	46.9	46.9	46.2	48.3	50.5	52.0	52.0	50.5
137.5°	38.2	38.2	36.8	37.5	36.8	36.1	37.5	39.0	39.7	40.4	39.0
140°	30.3	30.3	29.6	28.9	28.1	27.4	28.1	28.9	29.6	30.3	29.6
142.5°	23.8	23.8	23.1	23.1	22.4	21.6	21.6	22.4	23.8	23.8	23.1
145°	18.0	18.0	18.0	17.3	16.6	16.6	16.6	17.3	18.0	18.0	18.0
147.5°	13.0	12.3	12.3	12.3	11.5	11.5	12.3	12.3	13.0	13.0	13.0
150°	6.5	6.5	6.5	6.5	6.5	6.5	7.2	7.2	7.9	7.9	7.2
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
155°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0
165°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.0
167.5°	0.7	0.0	0.7	0.7	0.7	0.0	0.7	0.0	0.7	0.7	0.0
170°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.0	0.0
172.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.7	0.0
175°	0.0	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.0
177.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.0	0.7	0.7	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7



REPORT NUMBER: P314543

CATALOG NUMBER: MPN-A5-D-U-SYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
2.5°	62.8	62.1	60.6	61.3	59.2	58.4	57.7	57.0	57.0	57.0	56.3
5°	80.1	78.7	75.0	73.6	73.6	72.2	72.2	71.4	71.4	71.4	71.4
7.5°	93.8	93.1	89.5	86.6	85.1	84.4	84.4	83.7	83.7	83.0	82.3
10°	101.0	99.6	97.4	96.0	94.5	93.1	91.6	92.4	91.6	90.2	90.2
12.5°	106.8	105.4	103.2	101.7	100.3	98.1	97.4	97.4	96.7	94.5	94.5
15°	112.6	111.1	109.7	107.5	106.1	103.9	102.5	102.5	101.7	99.6	98.9
17.5°	118.3	117.6	115.5	113.3	111.8	109.7	107.5	106.8	106.1	104.6	103.9
20°	124.8	123.4	121.2	119.1	116.9	115.5	113.3	111.1	110.4	109.7	109.0
22.5°	132.0	129.9	127.7	124.8	122.7	121.9	118.3	116.2	115.5	114.0	114.0
25°	138.5	135.7	133.5	131.3	128.4	127.7	124.1	121.2	119.8	119.1	119.1
27.5°	143.6	140.7	138.5	136.4	133.5	132.8	128.4	125.6	123.4	123.4	124.1
30°	147.2	145.0	142.9	140.0	138.5	137.8	132.8	129.2	127.0	127.7	127.7
32.5°	150.1	147.9	145.8	142.9	141.4	140.7	136.4	132.0	129.9	130.6	130.6
35°	152.3	150.8	148.6	145.8	145.0	143.6	139.3	134.9	133.5	134.9	134.2
37.5°	156.6	154.4	152.3	148.6	150.1	147.9	144.3	140.0	140.0	142.2	141.4
40°	167.4	164.5	161.6	157.3	158.0	157.3	155.1	151.5	151.5	154.4	153.7
42.5°	189.8	185.4	180.4	174.6	174.6	173.2	170.3	168.9	169.6	171.7	171.7
45°	223.7	215.8	212.1	204.9	203.5	202.0	199.2	196.3	200.6	199.9	201.3
47.5°	272.0	261.2	256.9	247.5	246.1	245.3	241.0	238.1	239.6	241.0	244.6
50°	337.7	321.8	316.8	307.4	305.2	302.3	293.7	290.1	293.0	295.1	298.0
52.5°	423.6	396.1	394.7	386.0	373.8	378.8	367.3	361.5	363.7	363.0	366.6
55°	508.7	477.0	480.6	469.0	452.4	458.2	435.8	435.1	431.5	428.6	430.1
57.5°	567.9	536.9	551.3	536.9	515.9	521.7	492.1	488.5	487.1	478.4	475.5
60°	613.3	581.6	603.2	583.0	559.9	575.1	533.2	536.1	528.9	519.5	513.0
62.5°	653.8	621.3	647.3	624.2	598.9	614.8	567.9	577.3	562.8	554.9	543.4
65°	692.0	661.7	688.4	667.5	633.5	655.9	602.5	619.8	604.7	590.3	579.4
67.5°	728.8	699.2	730.2	709.3	672.5	694.2	629.2	655.2	639.3	623.4	610.5
70°	759.8	728.8	764.9	745.4	705.7	720.1	642.9	689.1	666.7	652.3	634.3
72.5°	788.7	752.6	797.3	779.3	737.5	749.7	663.1	715.8	680.5	666.7	653.8
75°	807.5	767.8	824.0	803.1	769.2	775.7	687.7	736.7	705.7	683.3	673.2
77.5°	824.8	781.5	840.6	816.1	785.1	788.7	703.5	751.2	716.5	691.3	678.3
79°	821.2	780.8	843.5	821.9	792.3	793.7	707.2	751.2	717.3	689.1	679.7
80°	812.5	774.3	836.3	811.8	782.2	784.4	703.5	745.4	719.4	681.2	672.5
82.5°	803.1	763.4	825.5	803.1	773.5	771.4	698.5	736.7	705.0	674.0	664.6
85°	778.6	744.0	802.4	780.0	755.5	751.9	682.6	718.0	690.6	651.6	643.7
87.5°	755.5	721.6	780.8	759.1	735.3	732.4	669.6	705.0	674.0	632.1	627.8
90°	730.2	695.6	751.2	729.5	702.8	697.8	640.8	676.1	650.9	610.5	606.1
92.5°	684.8	653.8	706.4	687.7	665.3	661.7	606.9	639.3	615.5	579.4	575.1
95°	643.7	614.1	661.0	645.1	624.2	623.4	569.3	604.0	580.9	548.4	546.2
97.5°	598.9	570.1	610.5	596.0	575.1	572.9	522.4	553.5	533.2	503.7	501.5
100°	528.2	503.7	530.4	519.5	495.0	501.5	456.8	490.0	474.1	448.1	443.1
102.5°	396.1	376.7	385.3	376.7	355.0	364.4	341.3	376.7	370.2	355.7	351.4
105°	224.4	218.6	224.4	221.5	213.6	211.4	199.9	223.7	218.6	213.6	210.7
107.5°	151.5	147.2	152.3	150.1	140.7	140.0	131.3	142.2	137.1	132.8	130.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	123.4	119.8	123.4	122.7	116.2	114.0	107.5	114.7	111.1	107.5	106.1
112.5°	110.4	107.5	110.4	109.7	103.2	102.5	97.4	103.2	100.3	97.4	96.7
115°	102.5	99.6	101.7	101.0	95.2	94.5	90.2	95.2	93.1	90.2	89.5
117.5°	96.7	93.8	95.2	93.8	89.5	88.0	84.4	88.8	87.3	83.7	83.0
120°	91.6	88.8	90.2	88.0	83.7	82.3	79.4	82.3	80.8	78.7	77.9
122.5°	87.3	84.4	85.1	82.3	77.9	75.8	73.6	75.0	74.3	72.2	71.4
125°	81.5	78.7	78.7	75.8	70.7	69.3	67.1	67.8	67.1	66.4	65.7
127.5°	75.0	72.9	71.4	68.6	64.2	61.3	59.9	60.6	60.6	59.9	59.2
130°	67.8	65.7	62.8	59.9	56.3	54.1	52.0	53.4	53.4	53.4	53.4
132.5°	59.2	57.0	54.1	51.2	47.6	46.2	44.0	45.5	46.2	46.9	46.2
135°	49.1	47.6	44.7	41.9	39.0	36.8	36.1	37.5	39.0	39.0	38.2
137.5°	38.2	36.8	35.4	33.2	30.3	28.9	28.1	29.6	31.0	31.0	30.3
140°	28.9	28.9	27.4	25.3	22.4	21.6	21.6	22.4	23.1	23.1	22.4
142.5°	22.4	22.4	20.9	19.5	17.3	16.6	16.6	17.3	18.0	18.0	17.3
145°	17.3	17.3	15.9	14.4	13.0	12.3	12.3	13.0	13.7	13.7	13.0
147.5°	13.0	12.3	10.8	10.1	8.7	8.7	8.7	8.7	9.4	9.4	9.4
150°	7.2	7.2	6.5	5.1	4.3	4.3	4.3	5.1	5.8	5.8	5.1
152.5°	1.4	1.4	1.4	1.4	0.7	0.0	0.7	0.7	0.7	0.7	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	0.7	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0
167.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0
172.5°	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0
177.5°	0.0	0.0	0.7	0.7	0.0	0.7	0.0	0.7	0.7	0.0	0.0
180°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

(END OF REPORT)