

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: P314562

Luminaire Tested: **MPN-A6-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A6-D-U-ASYM-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5261 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 64.8
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

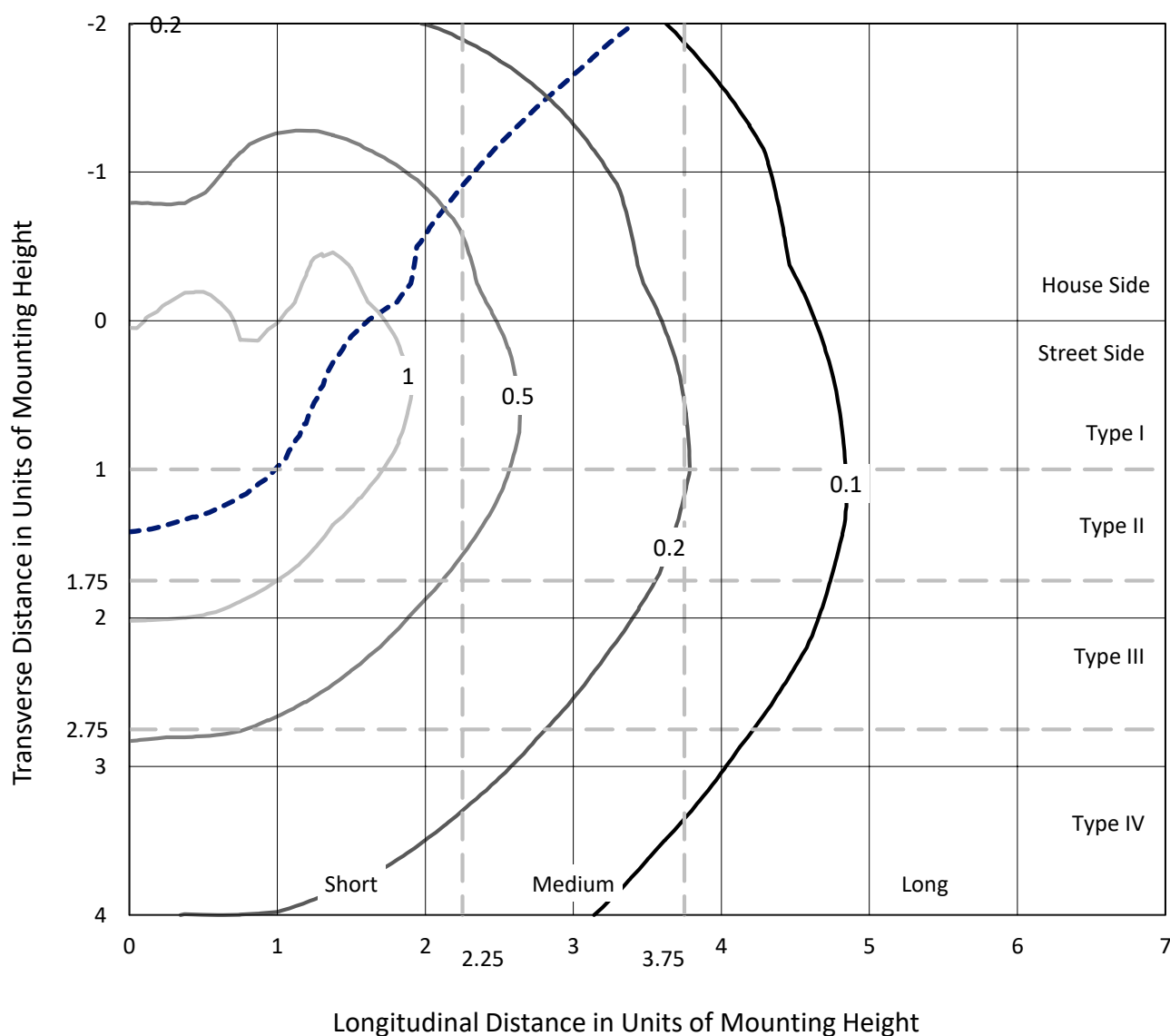


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

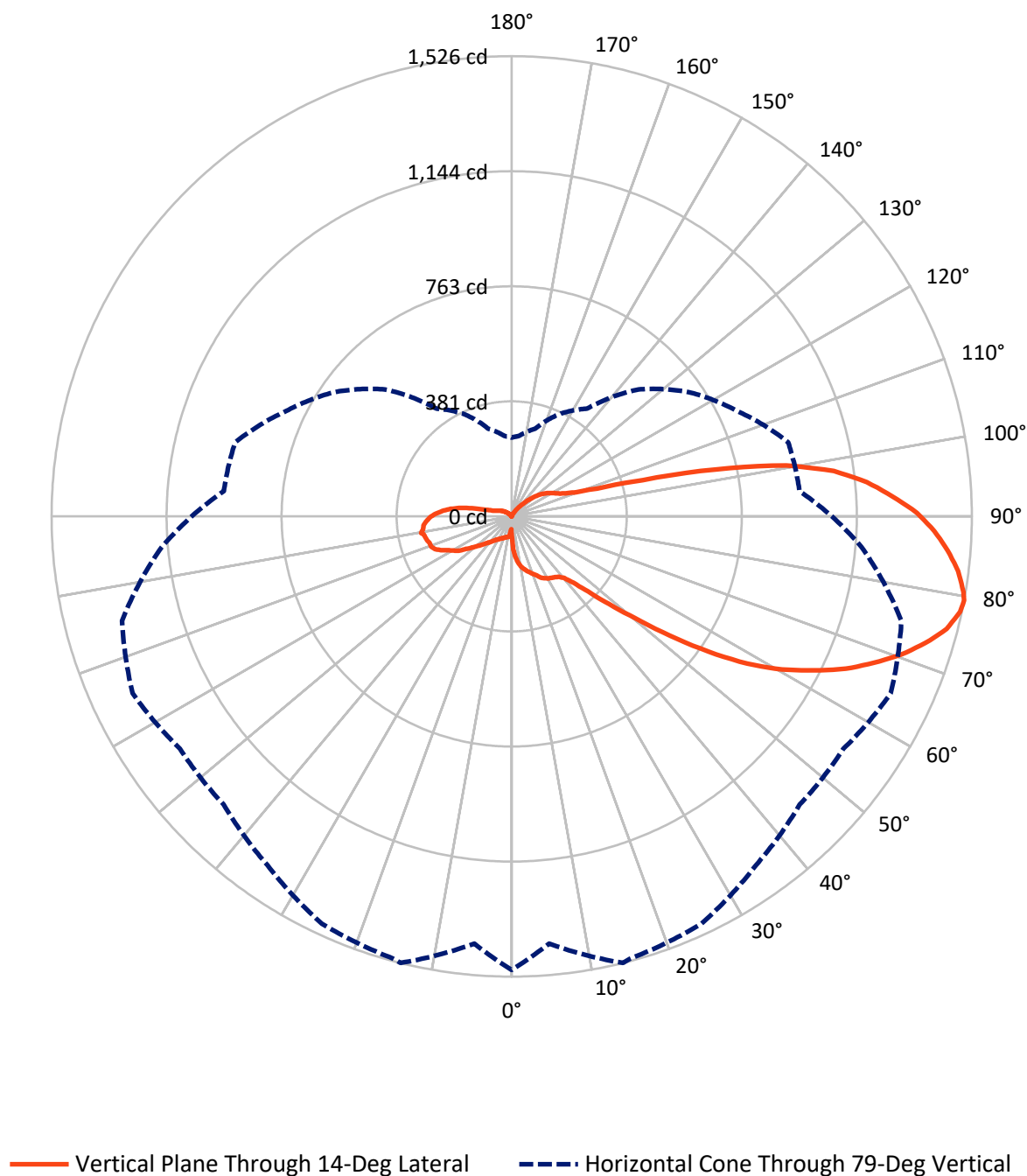


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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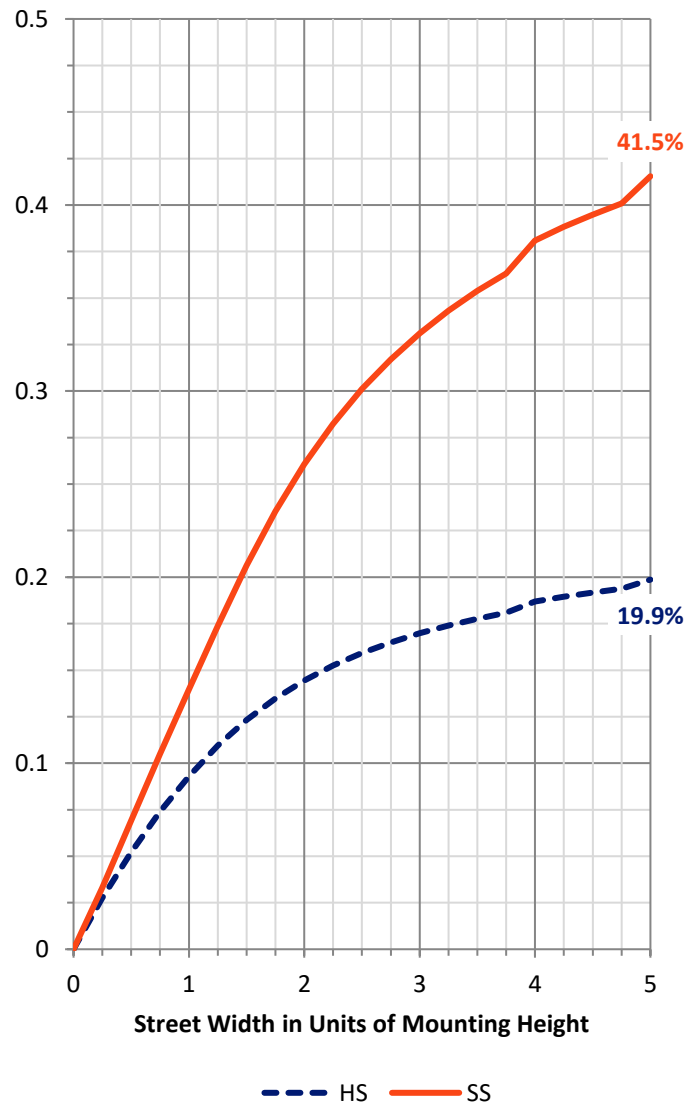
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.1	440.6	1630.7
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2621.1	1009.1	3630.3
	% Fixture	49.8	19.2	69.0
Total	Lumens	3811.3	1449.7	5261.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.2
10°-20°	37.7	0.7
20°-30°	73.7	1.4
30°-40°	112.3	2.1
40°-50°	211.0	4.0
50°-60°	507.4	9.6
60°-70°	812.5	15.4
70°-80°	1020.1	19.4
80°-90°	1026.7	19.5
90°-100°	838.1	15.9
100°-110°	354.5	6.7
110°-120°	122.6	2.3
120°-130°	81.7	1.6
130°-140°	40.5	0.8
140°-150°	11.6	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3811.3	72.4
0°-180°	5261.0	100.0

Coefficient of Utilization



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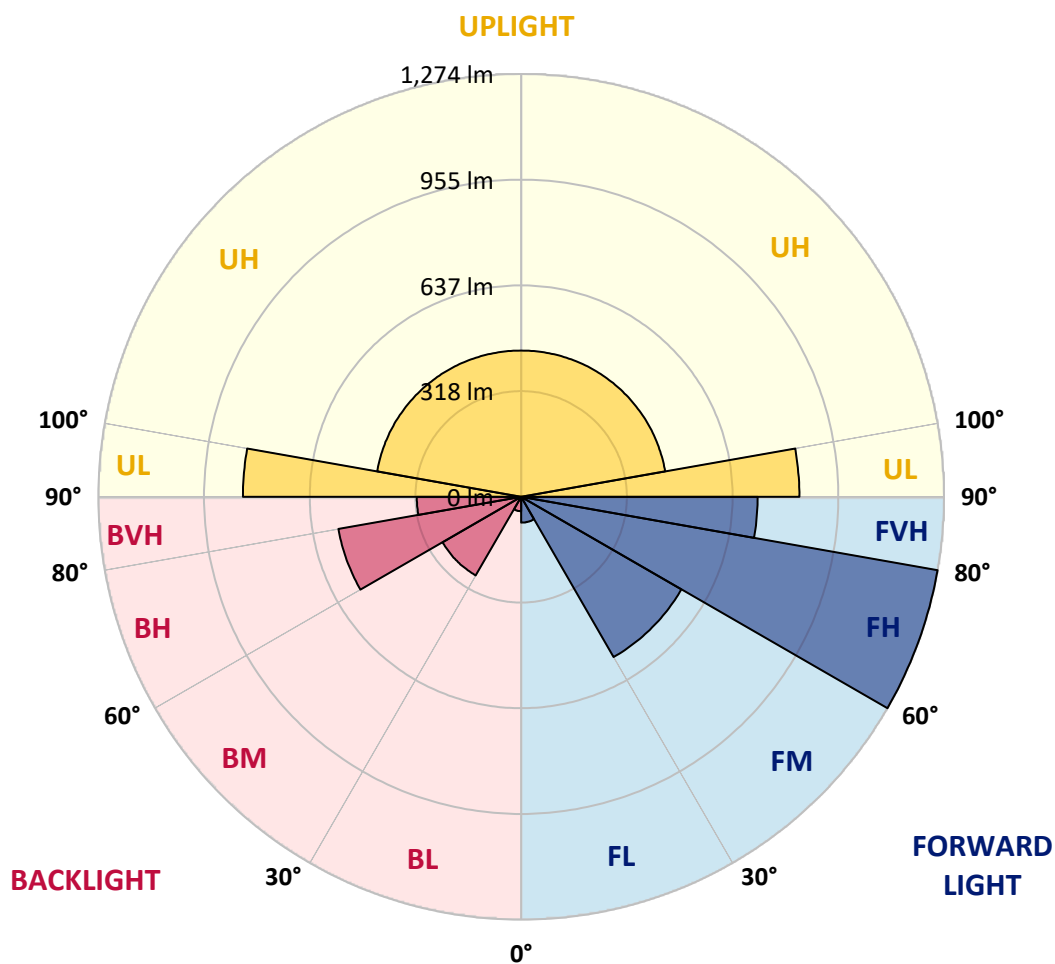
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.9	1.5			
FM	(30°-60°)	557.2	10.6			
FH	(60°-80°)	1273.7	24.2			G1/1800
FVH	(80°-90°)	712.4	13.5			G4/750
BL	(0°-30°)	43.3	0.8	B0/110		
BM	(30°-60°)	273.5	5.2	B1/1000		
BH	(60°-80°)	559.0	10.6	B2/1000		G2/1000
BVH	(80°-90°)	314.3	6.0			G3/500
UL	(90°-100°)	838.1	15.9		U4/1000	
UH	(100°-180°)	440.6	8.4		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
2.5°	114.8	111.2	111.2	111.2	108.6	104.2	99.8	97.1	90.9	85.6	77.7
5°	139.5	137.7	136.0	136.0	133.3	132.4	128.0	120.9	113.9	106.8	98.0
7.5°	158.0	156.3	154.5	155.4	151.8	148.3	143.9	137.7	130.7	123.6	114.8
10°	170.4	169.5	168.6	168.6	164.2	159.8	154.5	149.2	141.3	133.3	123.6
12.5°	179.2	178.3	178.3	178.3	173.9	167.7	163.3	157.1	150.1	141.3	131.5
15°	188.0	188.0	187.2	186.3	181.9	176.6	172.2	166.9	159.8	150.1	140.4
17.5°	196.9	196.0	195.1	195.1	190.7	185.4	181.0	176.6	167.7	158.0	148.3
20°	207.5	205.7	203.9	203.9	199.5	193.3	189.8	185.4	176.6	166.9	156.3
22.5°	218.1	216.3	212.8	212.8	209.2	202.2	200.4	195.1	186.3	175.7	165.1
25°	229.5	228.7	225.1	224.2	219.8	211.0	209.2	204.8	195.1	184.5	173.9
27.5°	238.4	237.5	232.2	232.2	228.7	220.7	216.3	211.0	201.3	189.8	181.0
30°	244.5	243.7	238.4	237.5	233.1	227.8	222.5	214.5	204.8	193.3	185.4
32.5°	247.2	247.2	242.8	241.9	236.6	232.2	226.9	218.9	206.6	196.0	187.2
35°	252.5	251.6	247.2	246.3	240.1	236.6	229.5	219.8	208.4	197.8	188.9
37.5°	257.8	257.8	254.3	253.4	246.3	242.8	235.7	226.9	214.5	203.9	194.2
40°	270.1	271.0	268.4	267.5	260.4	258.7	252.5	246.3	237.5	226.9	210.1
42.5°	298.4	299.3	300.2	298.4	293.1	290.5	285.2	284.3	276.3	263.1	247.2
45°	347.0	352.3	354.9	352.3	345.2	344.3	339.9	341.7	335.5	322.2	301.9
47.5°	421.1	424.6	434.4	434.4	424.6	422.0	418.5	419.3	419.3	404.3	373.4
50°	514.7	521.8	528.8	534.1	529.7	522.6	518.2	527.1	534.1	512.9	471.4
52.5°	628.6	635.6	656.8	655.1	649.8	646.2	648.9	665.7	681.6	663.0	596.8
55°	761.9	771.6	791.0	795.4	784.8	780.4	777.8	802.5	829.0	809.6	720.4
57.5°	895.2	904.9	921.7	928.7	914.6	900.5	874.9	902.3	934.9	910.2	802.5
60°	1006.4	1011.7	1030.3	1038.2	1023.2	1002.9	956.1	983.5	1019.7	993.2	872.2
62.5°	1107.1	1108.8	1123.9	1130.9	1113.3	1092.1	1036.5	1060.3	1090.3	1064.7	933.2
65°	1186.5	1185.7	1217.4	1220.1	1192.7	1163.6	1110.6	1132.7	1156.5	1129.2	983.5
67.5°	1266.9	1257.2	1295.1	1297.8	1270.4	1232.4	1178.6	1190.1	1205.1	1184.8	1039.1
70°	1333.1	1320.7	1371.1	1375.5	1334.9	1284.5	1241.3	1248.3	1270.4	1238.6	1085.0
72.5°	1402.0	1371.9	1434.6	1437.3	1400.2	1334.0	1290.7	1288.9	1314.6	1279.2	1119.4
75°	1457.6	1399.3	1489.4	1485.8	1451.4	1377.2	1329.6	1326.0	1359.6	1317.2	1145.0
77.5°	1508.8	1424.9	1520.3	1516.7	1484.9	1403.7	1350.7	1347.2	1383.4	1338.4	1168.0
79°	1503.5	1421.4	1525.6	1517.6	1489.4	1411.7	1350.7	1342.8	1386.9	1337.5	1164.5
80°	1504.4	1410.8	1518.5	1511.4	1480.5	1403.7	1336.6	1324.3	1364.0	1315.4	1147.7
82.5°	1469.0	1386.1	1491.1	1480.5	1456.7	1386.1	1319.0	1309.3	1362.2	1308.4	1140.6
85°	1432.0	1348.1	1450.5	1443.4	1421.4	1351.6	1282.8	1258.9	1305.7	1252.8	1100.9
87.5°	1373.7	1300.4	1402.0	1396.7	1375.5	1313.7	1241.3	1224.5	1273.9	1226.3	1073.5
90°	1323.4	1251.0	1343.7	1338.4	1319.0	1258.9	1192.7	1190.1	1240.4	1192.7	1039.1
92.5°	1246.6	1178.6	1264.2	1258.0	1243.9	1192.7	1131.8	1123.9	1165.4	1112.4	972.9
95°	1169.8	1104.4	1183.0	1180.4	1161.8	1117.7	1059.4	1044.4	1085.9	1047.1	916.4
97.5°	1068.2	1006.4	1078.8	1077.9	1064.7	1023.2	973.8	967.6	1010.9	971.1	853.7
100°	911.1	857.2	926.1	918.2	919.9	886.4	845.8	858.1	901.4	873.1	767.2
102.5°	677.1	650.7	692.1	695.7	698.3	675.4	660.4	658.6	700.1	674.5	589.7
105°	441.4	429.1	450.2	453.8	448.5	431.7	391.1	394.6	399.0	377.9	328.4
107.5°	294.9	289.6	298.4	300.2	295.8	281.6	257.8	255.1	256.9	245.4	215.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	226.0	223.4	228.7	229.5	226.0	212.8	199.5	198.6	200.4	192.5	172.2
112.5°	193.3	191.6	194.2	194.2	191.6	181.9	173.9	173.9	176.6	170.4	153.6
115°	176.6	174.8	175.7	176.6	173.0	164.2	158.0	159.8	162.4	157.1	142.1
117.5°	164.2	163.3	163.3	163.3	160.7	152.7	149.2	150.1	152.7	147.4	134.2
120°	153.6	153.6	152.7	152.7	150.1	143.9	141.3	143.0	144.8	140.4	128.0
122.5°	143.0	143.0	142.1	142.1	140.4	135.1	133.3	136.0	137.7	132.4	121.8
125°	131.5	131.5	129.8	129.8	128.0	125.4	124.5	127.1	128.9	124.5	113.9
127.5°	119.2	119.2	116.5	117.4	114.8	113.9	113.9	117.4	119.2	115.7	105.9
130°	105.9	105.1	101.5	102.4	100.6	100.6	102.4	105.1	106.8	103.3	95.3
132.5°	90.0	90.0	85.6	86.5	85.6	86.5	88.3	90.9	91.8	90.0	83.0
135°	74.2	74.2	70.6	71.5	70.6	70.6	73.3	75.0	76.8	75.0	68.9
137.5°	59.2	59.2	55.6	56.5	55.6	54.7	56.5	57.4	58.3	56.5	53.9
140°	45.9	45.9	44.1	44.1	42.4	41.5	42.4	43.3	43.3	42.4	40.6
142.5°	36.2	37.1	35.3	35.3	32.7	32.7	32.7	33.5	33.5	33.5	31.8
145°	27.4	28.3	26.5	26.5	24.7	24.7	24.7	25.6	25.6	25.6	23.8
147.5°	19.4	19.4	18.5	18.5	16.8	17.7	17.7	18.5	18.5	17.7	16.8
150°	9.7	9.7	9.7	9.7	9.7	9.7	10.6	10.6	10.6	10.6	9.7
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
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	0.9	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.0
165°	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.0	0.0
167.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
170°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
172.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
175°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
2.5°	75.0	71.5	66.2	60.9	54.7	50.3	45.9	44.1	42.4	40.6	40.6
5°	92.7	88.3	81.2	73.3	68.9	62.7	59.2	55.6	53.9	53.9	53.9
7.5°	111.2	106.8	97.1	86.5	81.2	74.2	71.5	68.0	65.3	62.7	61.8
10°	119.2	114.8	105.9	97.1	90.0	83.0	76.8	73.3	68.9	66.2	66.2
12.5°	127.1	121.8	113.0	104.2	95.3	86.5	80.3	75.0	70.6	67.1	66.2
15°	135.1	129.8	120.1	110.4	99.8	90.0	83.0	76.8	71.5	68.0	67.1
17.5°	143.0	137.7	127.1	116.5	105.1	94.5	86.5	78.6	73.3	69.7	68.9
20°	151.0	144.8	134.2	122.7	110.4	99.8	89.2	81.2	75.9	72.4	71.5
22.5°	159.8	152.7	141.3	128.9	115.7	105.1	92.7	83.9	77.7	75.0	75.0
25°	168.6	159.8	148.3	134.2	121.8	110.4	96.2	86.5	80.3	78.6	79.5
27.5°	174.8	165.1	153.6	139.5	126.2	114.8	100.6	89.2	83.0	83.0	83.0
30°	178.3	170.4	158.0	143.9	131.5	119.2	104.2	92.7	86.5	86.5	86.5
32.5°	180.1	172.2	159.8	146.6	135.1	123.6	107.7	96.2	90.0	90.9	90.9
35°	181.9	174.8	162.4	149.2	138.6	126.2	112.1	100.6	95.3	96.2	95.3
37.5°	186.3	178.3	166.0	152.7	143.0	130.7	117.4	105.9	101.5	102.4	101.5
40°	200.4	190.7	177.5	161.6	151.8	137.7	124.5	112.1	109.5	109.5	108.6
42.5°	229.5	216.3	200.4	181.0	166.9	149.2	134.2	120.9	117.4	116.5	115.7
45°	279.0	257.8	241.0	212.8	190.7	167.7	148.3	131.5	127.1	125.4	124.5
47.5°	342.5	317.8	295.8	264.9	230.4	195.1	169.5	146.6	139.5	136.0	134.2
50°	435.2	393.7	364.6	326.7	282.5	233.1	196.0	166.0	153.6	145.7	143.9
52.5°	546.5	491.7	460.8	407.0	346.1	279.9	229.5	186.3	168.6	158.0	157.1
55°	661.2	592.4	556.2	495.3	413.2	335.5	268.4	211.9	187.2	173.0	171.3
57.5°	738.1	663.0	627.7	563.3	469.7	386.7	304.6	235.7	211.9	189.8	188.0
60°	796.3	716.0	683.3	605.6	508.5	426.4	330.2	258.7	225.1	203.9	200.4
62.5°	846.6	760.1	734.5	641.8	543.8	454.7	351.4	279.0	240.1	221.6	215.4
65°	897.0	808.7	777.8	682.4	572.1	482.9	371.7	302.8	263.1	236.6	236.6
67.5°	944.6	854.6	821.9	721.3	607.4	510.3	385.8	322.2	279.0	252.5	252.5
70°	987.9	888.1	862.5	756.6	641.8	532.4	384.9	340.8	287.8	264.0	253.4
72.5°	1024.1	919.0	894.3	787.5	669.2	556.2	394.6	359.3	287.8	267.5	261.3
75°	1043.5	941.1	925.2	806.0	699.2	575.6	410.5	361.1	294.9	266.6	262.2
77.5°	1066.5	960.5	944.6	821.9	712.5	590.6	427.3	373.4	298.4	268.4	260.4
79°	1061.2	957.9	949.1	825.5	717.8	595.0	436.1	374.3	301.0	267.5	261.3
80°	1048.8	950.8	936.7	811.3	711.6	588.0	436.1	374.3	309.9	265.7	258.7
82.5°	1038.2	942.0	929.6	806.9	701.0	575.6	437.0	373.4	300.2	260.4	254.3
85°	1006.4	916.4	897.9	781.3	685.1	561.5	430.8	369.0	298.4	248.1	244.5
87.5°	975.5	888.1	874.9	759.2	663.0	543.8	422.9	358.4	286.9	239.3	236.6
90°	944.6	858.1	842.2	732.8	635.6	515.6	401.7	343.4	275.4	223.4	224.2
92.5°	885.5	807.8	791.0	689.5	595.9	484.7	377.0	320.5	256.9	211.9	207.5
95°	831.6	758.4	741.6	648.9	557.1	453.8	346.1	295.8	234.8	194.2	191.6
97.5°	777.8	705.4	687.7	602.1	512.0	415.8	311.6	265.7	207.5	173.0	167.7
100°	693.9	628.6	605.6	525.3	435.2	356.7	260.4	222.5	173.0	143.9	137.7
102.5°	525.3	472.3	448.5	392.0	309.0	255.1	188.9	164.2	127.1	108.6	105.1
105°	293.1	266.6	256.0	223.4	186.3	154.5	118.3	109.5	87.4	77.7	76.8
107.5°	196.0	180.1	172.2	156.3	130.7	109.5	85.6	80.3	66.2	59.2	58.3



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CATALOG NUMBER: MPN-A6-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	158.9	147.4	140.4	127.1	107.7	90.0	71.5	67.1	55.6	50.3	49.4
112.5°	143.0	131.5	125.4	113.0	95.3	79.5	63.6	59.2	49.4	45.0	44.1
115°	132.4	122.7	115.7	104.2	87.4	72.4	58.3	53.9	45.9	40.6	39.7
117.5°	125.4	115.7	108.6	97.1	82.1	67.1	54.7	49.4	41.5	36.2	36.2
120°	119.2	110.4	103.3	91.8	76.8	62.7	50.3	44.1	37.1	31.8	31.8
122.5°	113.9	105.1	98.0	85.6	70.6	56.5	45.9	38.8	32.7	27.4	27.4
125°	107.7	99.8	91.8	79.5	64.4	51.2	40.6	33.5	27.4	23.0	23.0
127.5°	99.8	92.7	83.9	71.5	58.3	45.0	36.2	29.1	23.0	19.4	19.4
130°	90.9	83.0	74.2	62.7	50.3	38.8	30.0	24.7	19.4	16.8	15.9
132.5°	78.6	72.4	63.6	53.9	42.4	32.7	24.7	20.3	15.9	13.2	13.2
135°	66.2	60.0	53.0	43.3	34.4	25.6	19.4	15.9	13.2	10.6	10.6
137.5°	51.2	46.8	41.5	33.5	25.6	19.4	15.0	12.4	9.7	7.9	7.9
140°	38.8	36.2	31.8	24.7	19.4	15.0	11.5	9.7	7.9	6.2	5.3
142.5°	30.0	28.3	24.7	19.4	15.0	11.5	8.8	7.1	5.3	4.4	3.5
145°	23.0	21.2	18.5	14.1	10.6	7.9	6.2	4.4	3.5	2.6	1.8
147.5°	16.8	15.0	12.4	9.7	7.1	4.4	3.5	2.6	1.8	0.9	0.9
150°	8.8	7.9	7.1	5.3	3.5	1.8	0.9	0.9	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	1.8	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	0.9	0.9	0.9	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	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)