

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: P314563

Luminaire Tested: **MPN-A7-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314563
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-A7-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: 5533 lumens
Efficiency: N/A
Efficacy: 79.4 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): 69.7
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



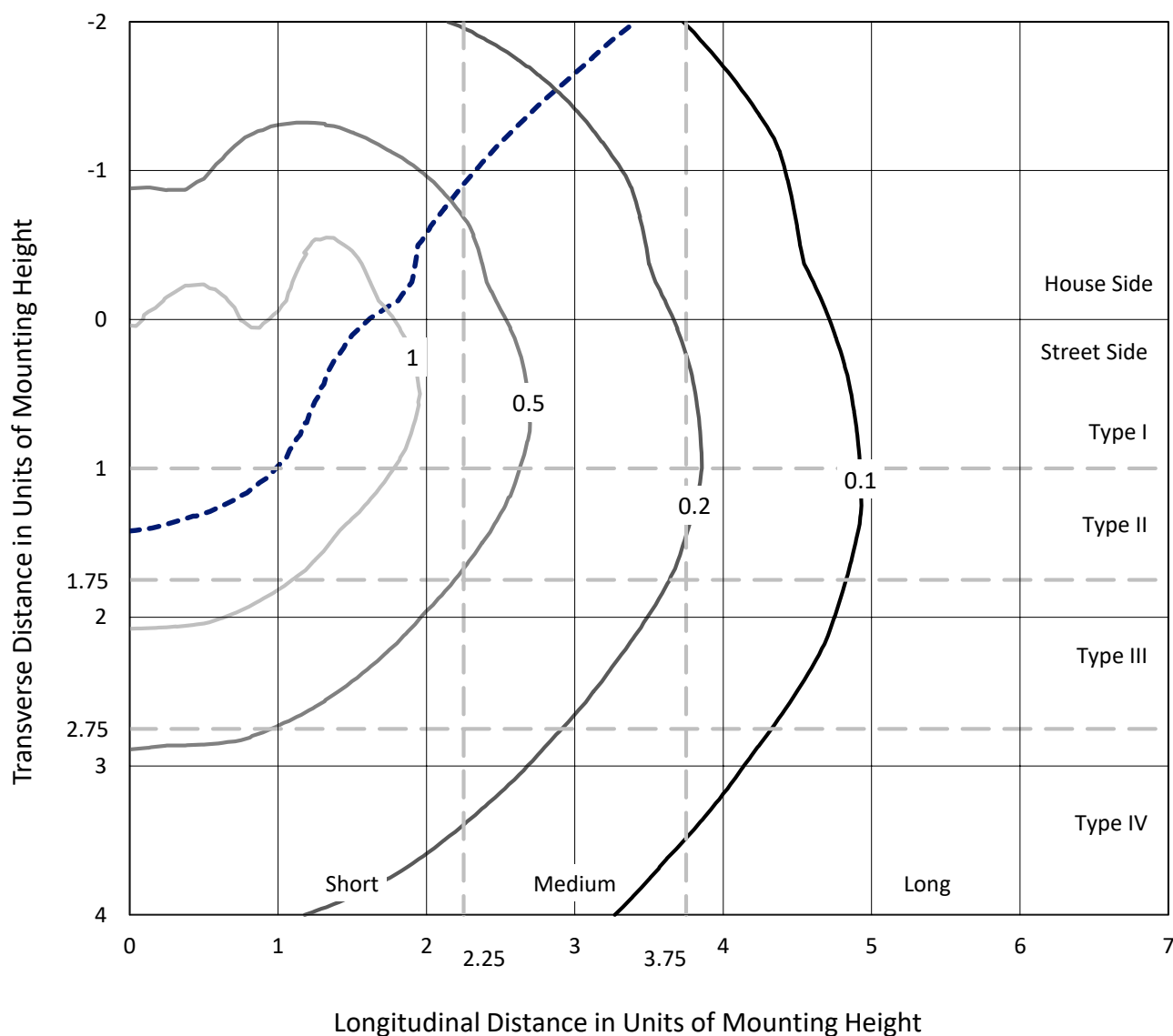
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

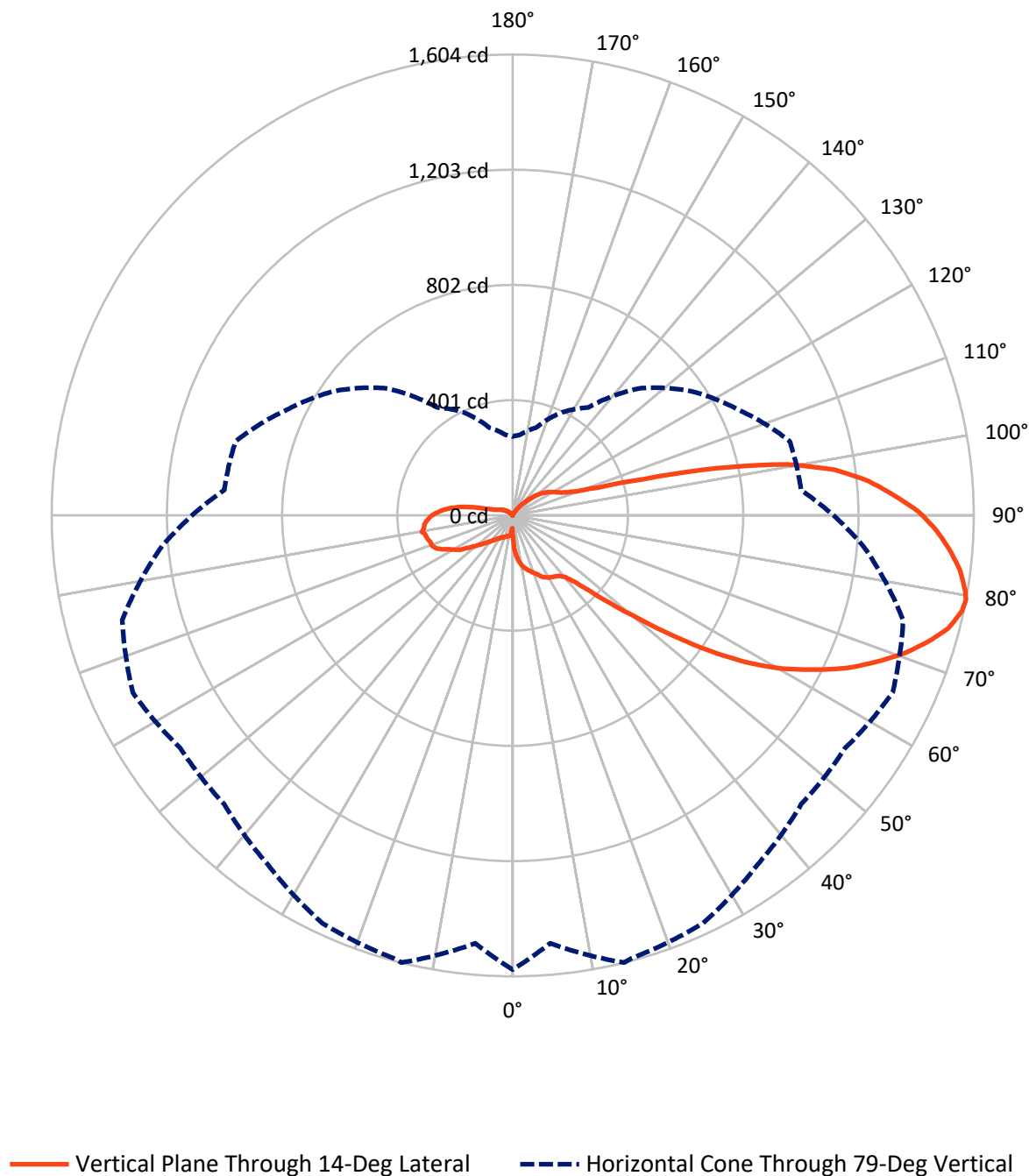


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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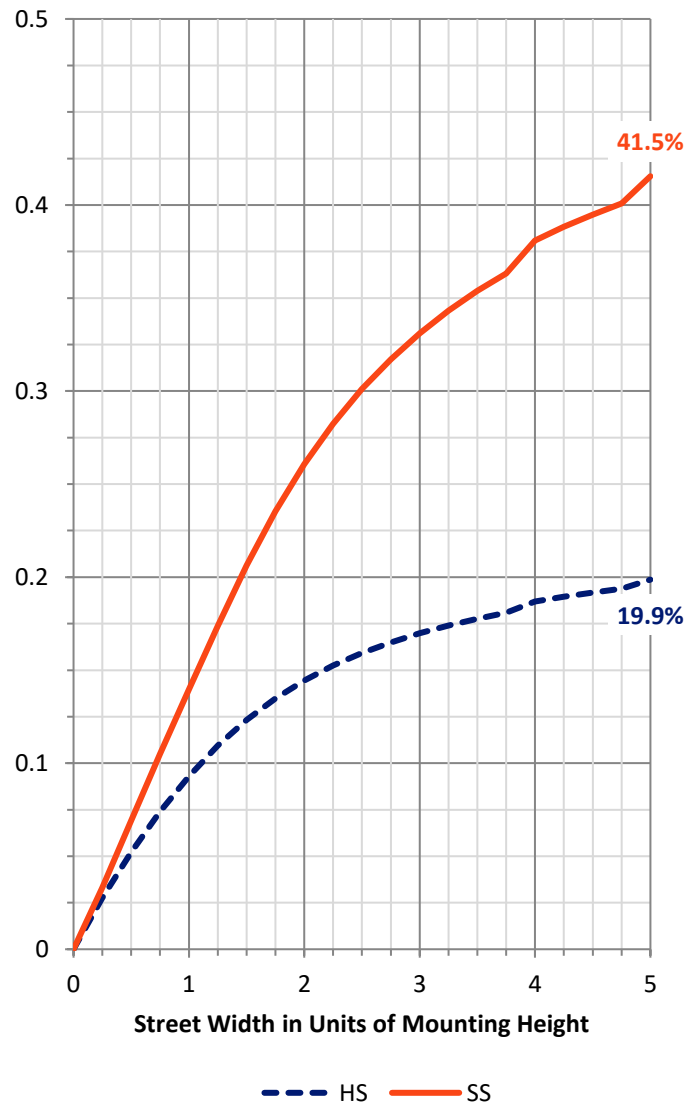
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.7	463.4	1715.0
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2756.7	1061.3	3817.9
	% Fixture	49.8	19.2	69.0
Total	Lumens	4008.3	1524.7	5533.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.2
10°-20°	39.7	0.7
20°-30°	77.5	1.4
30°-40°	118.1	2.1
40°-50°	221.9	4.0
50°-60°	533.7	9.6
60°-70°	854.5	15.4
70°-80°	1072.9	19.4
80°-90°	1079.8	19.5
90°-100°	881.4	15.9
100°-110°	372.9	6.7
110°-120°	129.0	2.3
120°-130°	86.0	1.6
130°-140°	42.6	0.8
140°-150°	12.2	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4008.3	72.4
0°-180°	5533.0	100.0

Coefficient of Utilization



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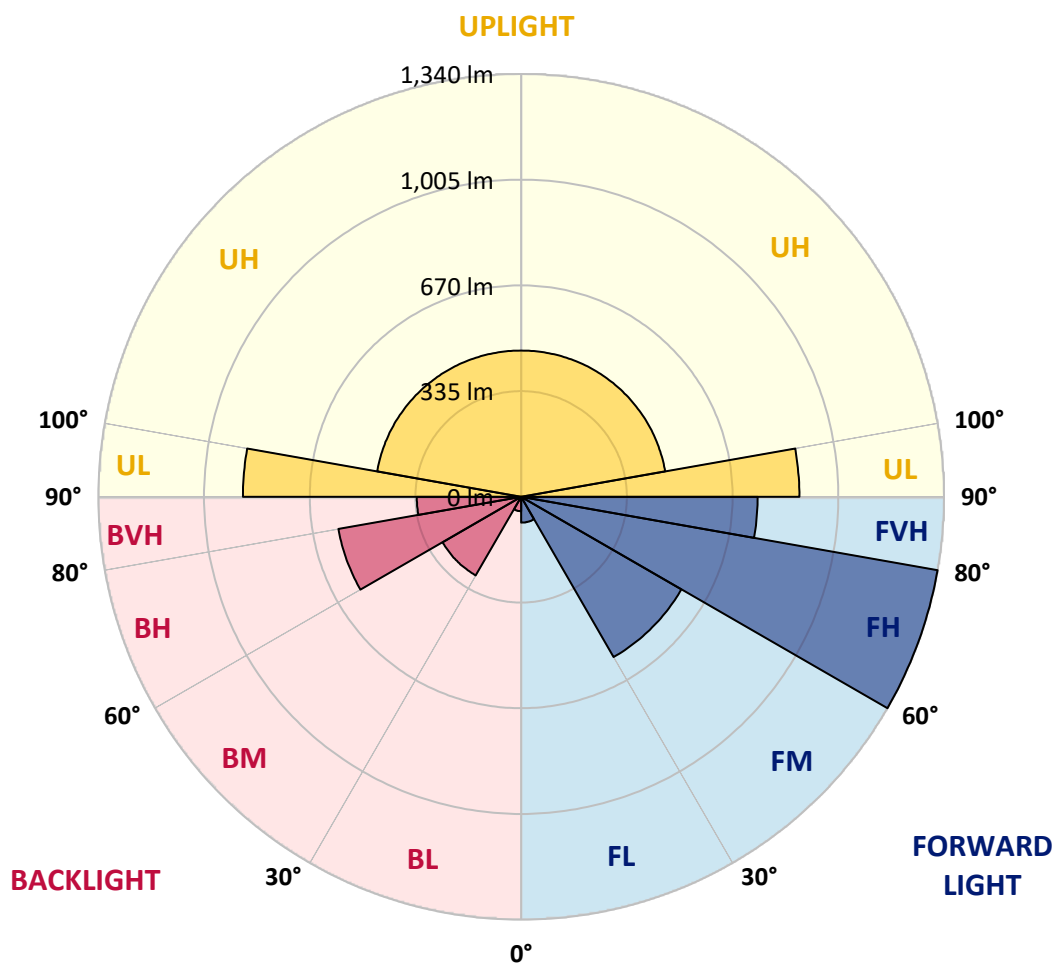
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.9	1.5			
FM	(30°-60°)	586.0	10.6			
FH	(60°-80°)	1339.5	24.2			G1/1800
FVH	(80°-90°)	749.2	13.5			G4/750
BL	(0°-30°)	45.6	0.8	B0/110		
BM	(30°-60°)	287.7	5.2	B1/1000		
BH	(60°-80°)	587.9	10.6	B2/1000		G2/1000
BVH	(80°-90°)	330.6	6.0			G3/500
UL	(90°-100°)	881.4	15.9		U4/1000	
UH	(100°-180°)	463.4	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°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2.5°	120.7	117.0	117.0	117.0	114.2	109.6	104.9	102.1	95.6	90.1	81.7
5°	146.7	144.8	143.0	143.0	140.2	139.3	134.6	127.2	119.8	112.3	103.1
7.5°	166.2	164.3	162.5	163.4	159.7	156.0	151.3	144.8	137.4	130.0	120.7
10°	179.2	178.3	177.3	177.3	172.7	168.1	162.5	156.9	148.6	140.2	130.0
12.5°	188.5	187.6	187.6	187.6	182.9	176.4	171.8	165.3	157.8	148.6	138.3
15°	197.8	197.8	196.8	195.9	191.3	185.7	181.1	175.5	168.1	157.8	147.6
17.5°	207.1	206.1	205.2	205.2	200.6	195.0	190.3	185.7	176.4	166.2	156.0
20°	218.2	216.3	214.5	214.5	209.8	203.3	199.6	195.0	185.7	175.5	164.3
22.5°	229.3	227.5	223.8	223.8	220.1	212.6	210.8	205.2	195.9	184.8	173.6
25°	241.4	240.5	236.8	235.8	231.2	221.9	220.1	215.4	205.2	194.1	182.9
27.5°	250.7	249.8	244.2	244.2	240.5	232.1	227.5	221.9	211.7	199.6	190.3
30°	257.2	256.3	250.7	249.8	245.1	239.5	234.0	225.6	215.4	203.3	195.0
32.5°	260.0	260.0	255.3	254.4	248.8	244.2	238.6	230.3	217.3	206.1	196.8
35°	265.5	264.6	260.0	259.0	252.5	248.8	241.4	231.2	219.1	208.0	198.7
37.5°	271.1	271.1	267.4	266.5	259.0	255.3	247.9	238.6	225.6	214.5	204.3
40°	284.1	285.0	282.3	281.3	273.9	272.0	265.5	259.0	249.8	238.6	221.0
42.5°	313.8	314.8	315.7	313.8	308.3	305.5	299.9	299.0	290.6	276.7	260.0
45°	364.9	370.5	373.3	370.5	363.0	362.1	357.5	359.3	352.8	338.9	317.5
47.5°	442.9	446.6	456.8	456.8	446.6	443.8	440.1	441.0	441.0	425.2	392.7
50°	541.3	548.7	556.2	561.7	557.1	549.7	545.0	554.3	561.7	539.5	495.8
52.5°	661.1	668.5	690.8	688.9	683.4	679.7	682.4	700.1	716.8	697.3	627.7
55°	801.3	811.5	831.9	836.6	825.4	820.8	818.0	844.0	871.8	851.4	757.6
57.5°	941.5	951.7	969.3	976.8	961.9	947.1	920.1	948.9	983.3	957.3	844.0
60°	1058.5	1064.0	1083.5	1091.9	1076.1	1054.8	1005.6	1034.3	1072.4	1044.5	917.3
62.5°	1164.3	1166.2	1182.0	1189.4	1170.8	1148.5	1090.0	1115.1	1146.7	1119.8	981.4
65°	1247.9	1247.0	1280.4	1283.2	1254.4	1223.7	1168.0	1191.2	1216.3	1187.5	1034.3
67.5°	1332.4	1322.2	1362.1	1364.9	1336.1	1296.2	1239.5	1251.6	1267.4	1246.0	1092.8
70°	1402.0	1389.0	1441.9	1446.6	1403.9	1350.9	1305.5	1312.9	1336.1	1302.7	1141.1
72.5°	1474.4	1442.9	1508.8	1511.6	1472.6	1402.9	1357.4	1355.6	1382.5	1345.4	1177.3
75°	1532.9	1471.6	1566.4	1562.6	1526.4	1448.4	1398.3	1394.6	1429.9	1385.3	1204.2
77.5°	1586.8	1498.6	1598.9	1595.1	1561.7	1476.3	1420.6	1416.9	1454.9	1407.6	1228.4
79°	1581.2	1494.9	1604.4	1596.1	1566.4	1484.6	1420.6	1412.2	1458.7	1406.7	1224.7
80°	1582.1	1483.7	1597.0	1589.6	1557.1	1476.3	1405.7	1392.7	1434.5	1383.4	1207.0
82.5°	1545.0	1457.7	1568.2	1557.1	1532.0	1457.7	1387.2	1376.9	1432.7	1376.0	1199.6
85°	1506.0	1417.8	1525.5	1518.1	1494.9	1421.5	1349.1	1324.0	1373.2	1317.5	1157.8
87.5°	1444.7	1367.7	1474.4	1468.9	1446.6	1381.6	1305.5	1287.8	1339.8	1289.7	1129.0
90°	1391.8	1315.7	1413.2	1407.6	1387.2	1324.0	1254.4	1251.6	1304.5	1254.4	1092.8
92.5°	1311.0	1239.5	1329.6	1323.1	1308.2	1254.4	1190.3	1182.0	1225.6	1169.9	1023.2
95°	1230.2	1161.5	1244.2	1241.4	1221.9	1175.5	1114.2	1098.4	1142.0	1101.2	963.8
97.5°	1123.5	1058.5	1134.6	1133.7	1119.8	1076.1	1024.1	1017.6	1063.1	1021.3	897.8
100°	958.2	901.6	974.0	965.6	967.5	932.2	889.5	902.5	948.0	918.3	806.9
102.5°	712.1	684.3	727.9	731.6	734.4	710.3	694.5	692.7	736.3	709.4	620.2
105°	464.2	451.2	473.5	477.2	471.7	454.0	411.3	415.0	419.7	397.4	345.4
107.5°	310.1	304.5	313.8	315.7	311.0	296.2	271.1	268.3	270.2	258.1	226.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	237.7	234.9	240.5	241.4	237.7	223.8	209.8	208.9	210.8	202.4	181.1
112.5°	203.3	201.5	204.3	204.3	201.5	191.3	182.9	182.9	185.7	179.2	161.6
115°	185.7	183.8	184.8	185.7	182.0	172.7	166.2	168.1	170.8	165.3	149.5
117.5°	172.7	171.8	171.8	171.8	169.0	160.6	156.9	157.8	160.6	155.1	141.1
120°	161.6	161.6	160.6	160.6	157.8	151.3	148.6	150.4	152.3	147.6	134.6
122.5°	150.4	150.4	149.5	149.5	147.6	142.1	140.2	143.0	144.8	139.3	128.1
125°	138.3	138.3	136.5	136.5	134.6	131.8	130.9	133.7	135.6	130.9	119.8
127.5°	125.3	125.3	122.6	123.5	120.7	119.8	119.8	123.5	125.3	121.6	111.4
130°	111.4	110.5	106.8	107.7	105.8	105.8	107.7	110.5	112.3	108.6	100.3
132.5°	94.7	94.7	90.1	91.0	90.1	91.0	92.8	95.6	96.6	94.7	87.3
135°	78.0	78.0	74.3	75.2	74.3	74.3	77.1	78.9	80.8	78.9	72.4
137.5°	62.2	62.2	58.5	59.4	58.5	57.6	59.4	60.4	61.3	59.4	56.6
140°	48.3	48.3	46.4	46.4	44.6	43.6	44.6	45.5	45.5	44.6	42.7
142.5°	38.1	39.0	37.1	37.1	34.4	34.4	34.4	35.3	35.3	35.3	33.4
145°	28.8	29.7	27.9	27.9	26.0	26.0	26.0	26.9	26.9	26.9	25.1
147.5°	20.4	20.4	19.5	19.5	17.6	18.6	18.6	19.5	19.5	18.6	17.6
150°	10.2	10.2	10.2	10.2	10.2	10.2	11.1	11.1	11.1	11.1	10.2
152.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9
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°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2.5°	78.9	75.2	69.6	64.1	57.6	52.9	48.3	46.4	44.6	42.7	42.7
5°	97.5	92.8	85.4	77.1	72.4	65.9	62.2	58.5	56.6	56.6	56.6
7.5°	117.0	112.3	102.1	91.0	85.4	78.0	75.2	71.5	68.7	65.9	65.0
10°	125.3	120.7	111.4	102.1	94.7	87.3	80.8	77.1	72.4	69.6	69.6
12.5°	133.7	128.1	118.8	109.6	100.3	91.0	84.5	78.9	74.3	70.6	69.6
15°	142.1	136.5	126.3	116.1	104.9	94.7	87.3	80.8	75.2	71.5	70.6
17.5°	150.4	144.8	133.7	122.6	110.5	99.3	91.0	82.6	77.1	73.4	72.4
20°	158.8	152.3	141.1	129.1	116.1	104.9	93.8	85.4	79.8	76.1	75.2
22.5°	168.1	160.6	148.6	135.6	121.6	110.5	97.5	88.2	81.7	78.9	78.9
25°	177.3	168.1	156.0	141.1	128.1	116.1	101.2	91.0	84.5	82.6	83.6
27.5°	183.8	173.6	161.6	146.7	132.8	120.7	105.8	93.8	87.3	87.3	87.3
30°	187.6	179.2	166.2	151.3	138.3	125.3	109.6	97.5	91.0	91.0	91.0
32.5°	189.4	181.1	168.1	154.1	142.1	130.0	113.3	101.2	94.7	95.6	95.6
35°	191.3	183.8	170.8	156.9	145.8	132.8	117.9	105.8	100.3	101.2	100.3
37.5°	195.9	187.6	174.6	160.6	150.4	137.4	123.5	111.4	106.8	107.7	106.8
40°	210.8	200.6	186.6	169.9	159.7	144.8	130.9	117.9	115.1	115.1	114.2
42.5°	241.4	227.5	210.8	190.3	175.5	156.9	141.1	127.2	123.5	122.6	121.6
45°	293.4	271.1	253.5	223.8	200.6	176.4	156.0	138.3	133.7	131.8	130.9
47.5°	360.3	334.3	311.0	278.5	242.3	205.2	178.3	154.1	146.7	143.0	141.1
50°	457.7	414.1	383.5	343.5	297.1	245.1	206.1	174.6	161.6	153.2	151.3
52.5°	574.7	517.2	484.7	428.0	364.0	294.3	241.4	195.9	177.3	166.2	165.3
55°	695.4	623.0	584.9	520.9	434.5	352.8	282.3	222.8	196.8	182.0	180.1
57.5°	776.2	697.3	660.2	592.4	494.0	406.7	320.3	247.9	222.8	199.6	197.8
60°	837.5	753.0	718.6	636.9	534.8	448.5	347.3	272.0	236.8	214.5	210.8
62.5°	890.4	799.4	772.5	675.0	571.9	478.2	369.5	293.4	252.5	233.0	226.6
65°	943.3	850.5	818.0	717.7	601.7	507.9	390.9	318.5	276.7	248.8	248.8
67.5°	993.5	898.8	864.4	758.6	638.8	536.7	405.7	338.9	293.4	265.5	265.5
70°	1039.0	934.1	907.1	795.7	675.0	559.9	404.8	358.4	302.7	277.6	266.5
72.5°	1077.0	966.6	940.6	828.2	703.8	584.9	415.0	377.9	302.7	281.3	274.8
75°	1097.5	989.8	973.1	847.7	735.4	605.4	431.7	379.8	310.1	280.4	275.8
77.5°	1121.6	1010.2	993.5	864.4	749.3	621.2	449.4	392.7	313.8	282.3	273.9
79°	1116.0	1007.4	998.1	868.1	754.9	625.8	458.7	393.7	316.6	281.3	274.8
80°	1103.0	1000.0	985.1	853.3	748.4	618.4	458.7	393.7	325.9	279.5	272.0
82.5°	1091.9	990.7	977.7	848.6	737.2	605.4	459.6	392.7	315.7	273.9	267.4
85°	1058.5	963.8	944.3	821.7	720.5	590.5	453.1	388.1	313.8	260.9	257.2
87.5°	1026.0	934.1	920.1	798.5	697.3	571.9	444.7	377.0	301.8	251.6	248.8
90°	993.5	902.5	885.8	770.6	668.5	542.2	422.5	361.2	289.7	234.9	235.8
92.5°	931.3	849.6	831.9	725.1	626.7	509.7	396.5	337.0	270.2	222.8	218.2
95°	874.6	797.6	779.9	682.4	585.9	477.2	364.0	311.0	247.0	204.3	201.5
97.5°	818.0	741.9	723.3	633.2	538.5	437.3	327.8	279.5	218.2	182.0	176.4
100°	729.8	661.1	636.9	552.4	457.7	375.1	273.9	234.0	182.0	151.3	144.8
102.5°	552.4	496.7	471.7	412.2	325.0	268.3	198.7	172.7	133.7	114.2	110.5
105°	308.3	280.4	269.3	234.9	195.9	162.5	124.4	115.1	91.9	81.7	80.8
107.5°	206.1	189.4	181.1	164.3	137.4	115.1	90.1	84.5	69.6	62.2	61.3



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CATALOG NUMBER: MPN-A7-D-U-ASYM-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	167.1	155.1	147.6	133.7	113.3	94.7	75.2	70.6	58.5	52.9	52.0
112.5°	150.4	138.3	131.8	118.8	100.3	83.6	66.9	62.2	52.0	47.4	46.4
115°	139.3	129.1	121.6	109.6	91.9	76.1	61.3	56.6	48.3	42.7	41.8
117.5°	131.8	121.6	114.2	102.1	86.3	70.6	57.6	52.0	43.6	38.1	38.1
120°	125.3	116.1	108.6	96.6	80.8	65.9	52.9	46.4	39.0	33.4	33.4
122.5°	119.8	110.5	103.1	90.1	74.3	59.4	48.3	40.9	34.4	28.8	28.8
125°	113.3	104.9	96.6	83.6	67.8	53.9	42.7	35.3	28.8	24.1	24.1
127.5°	104.9	97.5	88.2	75.2	61.3	47.4	38.1	30.6	24.1	20.4	20.4
130°	95.6	87.3	78.0	65.9	52.9	40.9	31.6	26.0	20.4	17.6	16.7
132.5°	82.6	76.1	66.9	56.6	44.6	34.4	26.0	21.4	16.7	13.9	13.9
135°	69.6	63.1	55.7	45.5	36.2	26.9	20.4	16.7	13.9	11.1	11.1
137.5°	53.9	49.2	43.6	35.3	26.9	20.4	15.8	13.0	10.2	8.4	8.4
140°	40.9	38.1	33.4	26.0	20.4	15.8	12.1	10.2	8.4	6.5	5.6
142.5°	31.6	29.7	26.0	20.4	15.8	12.1	9.3	7.4	5.6	4.6	3.7
145°	24.1	22.3	19.5	14.9	11.1	8.4	6.5	4.6	3.7	2.8	1.9
147.5°	17.6	15.8	13.0	10.2	7.4	4.6	3.7	2.8	1.9	0.9	0.9
150°	9.3	8.4	7.4	5.6	3.7	1.9	0.9	0.9	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.9	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)