

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: P14230

Luminaire Tested: **CRTK-X-A08-E-120-5-5000 +RMARROA5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14230
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-X-A08-E-120-5-5000 +RMARROA5
Description: STREETWORKS CARETAKER, TYPE 5, 8 LED WITH ANSI REFRACTOR
Light Source: [8] 5000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4259.7 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 49
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



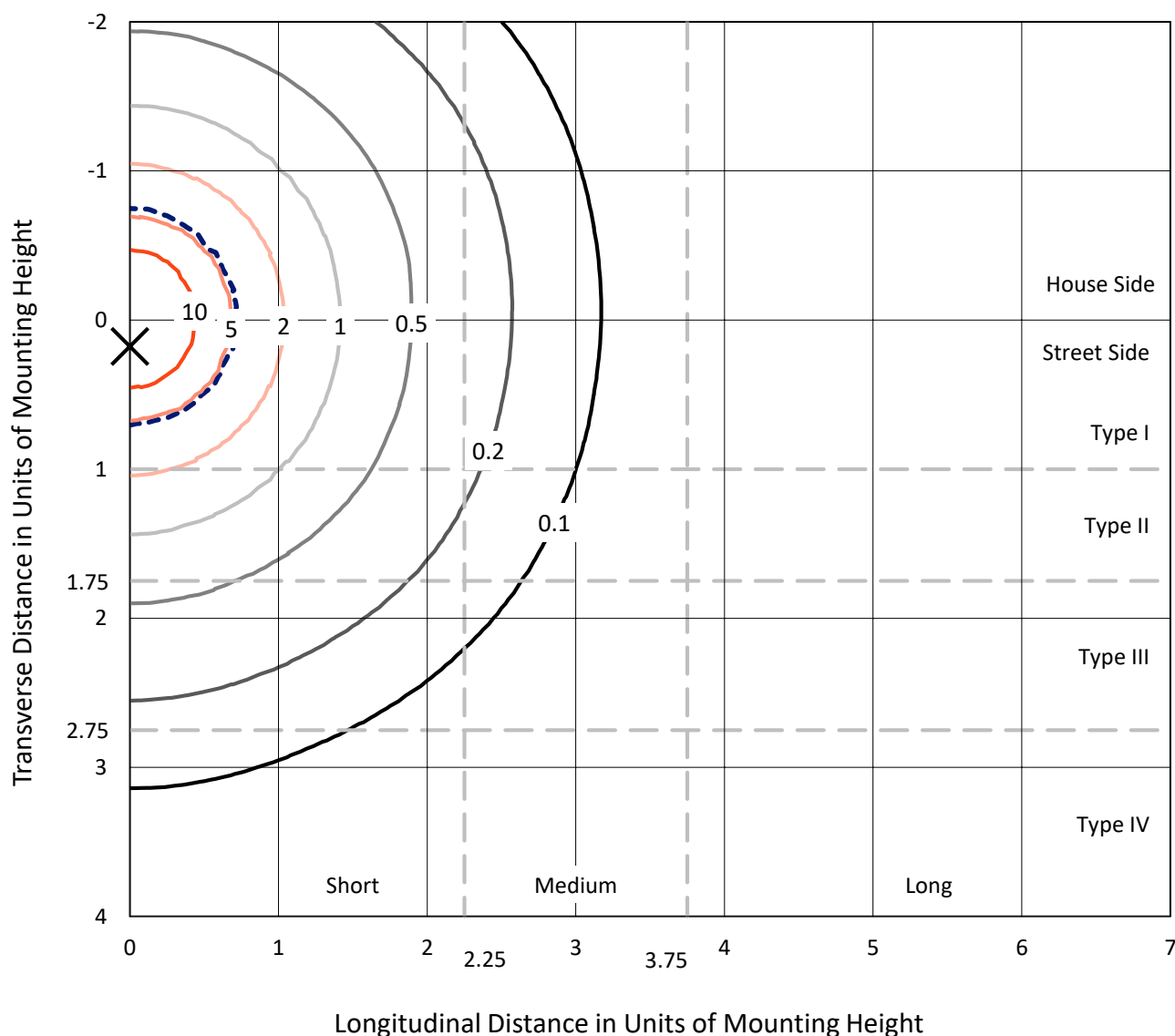
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

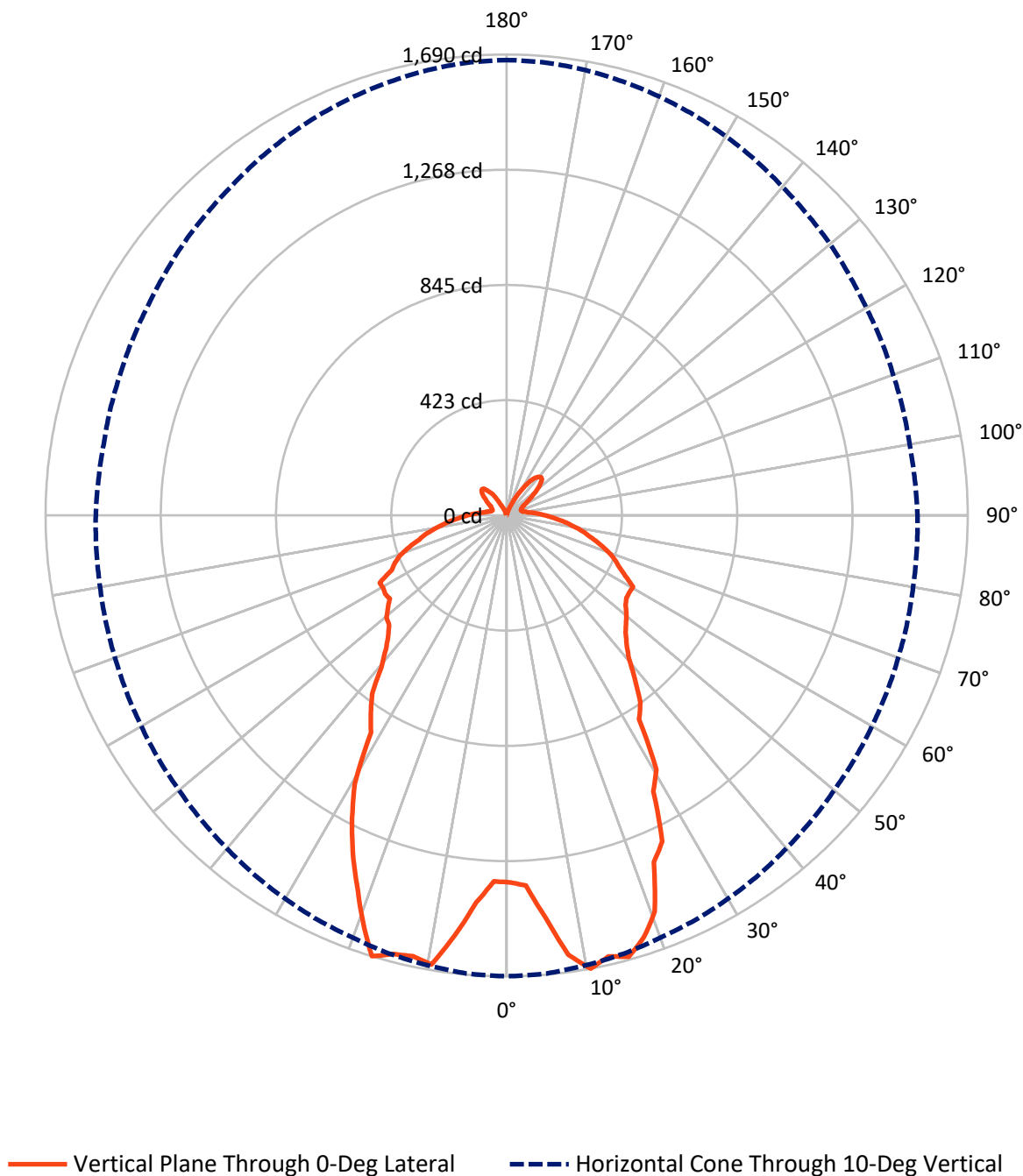


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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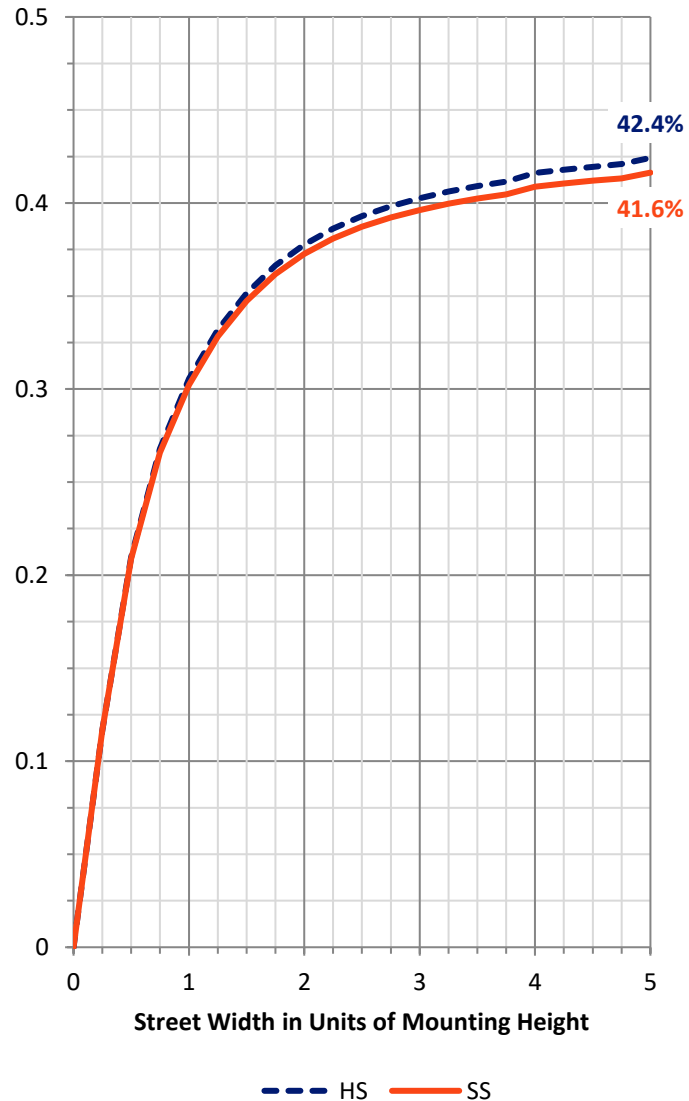
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.5	276.8	2150.3
	% Fixture	44.0	6.5	50.5
Street Side	Lumens	1824.3	285.1	2109.4
	% Fixture	42.8	6.7	49.5
Total	Lumens	3697.8	561.9	4259.7
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.3
10°-20°	446.8	10.5
20°-30°	589.4	13.8
30°-40°	537.4	12.6
40°-50°	476.5	11.2
50°-60°	477.2	11.2
60°-70°	461.0	10.8
70°-80°	348.6	8.2
80°-90°	218.3	5.1
90°-100°	117.6	2.8
100°-110°	66.5	1.6
110°-120°	58.3	1.4
120°-130°	78.4	1.8
130°-140°	114.8	2.7
140°-150°	91.7	2.2
150°-160°	31.3	0.7
160°-170°	3.3	0.1
170°-180°	0.0	0.0
0°-90°	3697.8	86.8
0°-180°	4259.7	100.0

Coefficient of Utilization



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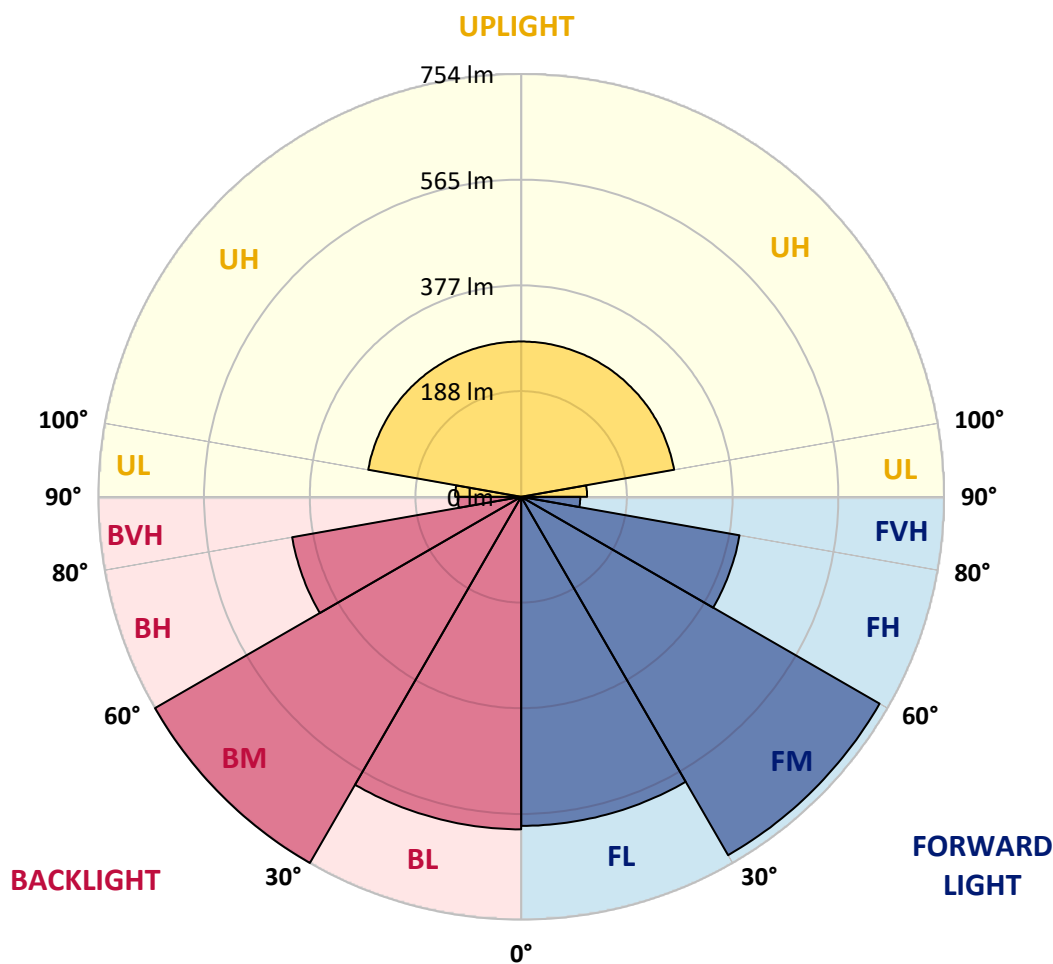
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.4	13.8			
FM	(30°-60°)	737.5	17.3			
FH	(60°-80°)	395.1	9.3			G0/660
FVH	(80°-90°)	105.3	2.5			G2/225
BL	(0°-30°)	592.5	13.9	B2/1000		
BM	(30°-60°)	753.5	17.7	B1/1000		
BH	(60°-80°)	414.5	9.7	B1/500		G0/660
BVH	(80°-90°)	113.0	2.7			G2/225
UL	(90°-100°)	117.6	2.8		U3/500	
UH	(100°-180°)	276.8	6.5		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1358.8	1360.9	1357.8	1358.8	1357.8	1359.9	1357.8	1355.7	1355.7	1354.7	1355.7
5°	1480.3	1483.4	1481.3	1482.4	1478.2	1476.2	1474.1	1469.0	1464.9	1460.7	1457.6
7.5°	1626.5	1627.5	1626.5	1619.3	1613.1	1603.8	1593.5	1585.3	1575.0	1564.7	1552.4
10°	1690.3	1686.2	1674.9	1663.5	1648.1	1636.8	1623.4	1610.0	1594.6	1581.2	1567.8
12.5°	1659.4	1659.4	1655.3	1652.2	1645.0	1639.9	1627.5	1616.2	1605.9	1593.5	1581.2
15°	1679.0	1682.1	1679.0	1674.9	1665.6	1658.4	1647.1	1635.7	1623.4	1612.1	1597.6
17.5°	1627.5	1633.7	1642.9	1642.9	1637.8	1631.6	1622.4	1610.0	1601.8	1598.7	1592.5
20°	1551.3	1544.1	1522.5	1515.3	1502.9	1486.5	1481.3	1482.4	1480.3	1491.6	1485.4
22.5°	1381.5	1382.5	1379.4	1387.6	1424.7	1426.8	1412.4	1383.5	1361.9	1353.7	1357.8
25°	1324.9	1322.8	1306.3	1286.8	1279.6	1255.9	1241.5	1265.1	1268.2	1276.5	1265.1
27.5°	1145.7	1140.6	1152.9	1195.1	1200.3	1195.1	1185.9	1179.7	1148.8	1140.6	1161.2
30°	1081.9	1065.4	1051.0	1046.9	1032.5	1023.2	1030.4	1040.7	1051.0	1065.4	1057.2
32.5°	891.5	895.6	894.6	896.6	894.6	892.5	892.5	890.4	898.7	897.6	923.4
35°	844.1	847.2	847.2	848.2	848.2	848.2	841.0	841.0	833.8	829.7	828.7
37.5°	764.9	762.8	764.9	764.9	767.9	774.1	772.1	773.1	767.9	765.9	763.8
40°	689.7	688.7	686.6	683.5	683.5	684.6	684.6	683.5	682.5	682.5	685.6
42.5°	644.4	644.4	641.3	640.3	640.3	640.3	639.3	636.2	636.2	636.2	636.2
45°	611.5	610.4	611.5	607.4	605.3	605.3	602.2	603.2	600.1	601.2	601.2
47.5°	588.8	583.7	580.6	581.6	577.5	579.6	576.5	575.4	574.4	574.4	572.4
50°	569.3	564.1	562.1	562.1	560.0	557.9	560.0	560.0	556.9	562.1	563.1
52.5°	545.6	544.6	544.6	539.4	537.4	532.2	532.2	534.3	537.4	536.3	536.3
55°	533.2	533.2	532.2	527.1	528.1	528.1	525.0	522.9	518.8	519.9	522.9
57.5°	531.2	533.2	529.1	524.0	514.7	513.7	511.6	512.6	515.7	519.9	517.8
60°	532.2	533.2	529.1	528.1	521.9	516.8	516.8	513.7	512.6	514.7	519.9
62.5°	487.9	491.0	486.9	486.9	479.7	479.7	482.8	484.9	490.0	489.0	493.1
65°	451.9	452.9	451.9	446.8	442.6	441.6	441.6	443.7	448.8	448.8	456.0
67.5°	426.2	426.2	424.1	421.0	417.9	419.0	419.0	421.0	426.2	428.2	433.4
70°	392.2	387.1	387.1	381.9	378.8	378.8	380.9	384.0	389.1	394.3	399.4
72.5°	355.1	356.2	351.0	349.0	344.9	344.9	346.9	350.0	355.1	357.2	362.4
75°	318.1	317.1	316.0	310.9	307.8	305.7	308.8	310.9	315.0	319.1	321.2
77.5°	287.2	286.2	283.1	281.0	276.9	277.9	279.0	281.0	283.1	287.2	289.3
80°	252.2	251.2	248.1	248.1	244.0	242.9	246.0	246.0	249.1	251.2	253.2
82.5°	220.3	220.3	219.3	217.2	214.1	213.1	214.1	216.2	218.2	219.3	223.4
85°	188.4	188.4	188.4	186.3	183.2	184.3	184.3	185.3	187.4	188.4	191.5
87.5°	161.6	161.6	159.6	160.6	157.5	156.5	157.5	158.5	160.6	161.6	164.7
90°	135.9	134.9	133.8	132.8	131.8	132.8	132.8	134.9	136.9	137.9	140.0
92.5°	116.3	114.3	114.3	112.2	114.3	114.3	115.3	118.4	117.4	118.4	120.4
95°	98.8	96.8	96.8	96.8	96.8	97.8	98.8	98.8	101.9	101.9	104.0
97.5°	79.3	80.3	81.3	81.3	80.3	80.3	79.3	80.3	82.4	83.4	86.5
100°	72.1	73.1	72.1	73.1	72.1	73.1	73.1	74.1	74.1	74.1	77.2
102.5°	62.8	63.8	62.8	63.8	63.8	62.8	62.8	63.8	63.8	64.9	65.9
105°	57.6	59.7	58.7	57.6	58.7	58.7	59.7	58.7	58.7	58.7	58.7
107.5°	57.6	56.6	56.6	55.6	56.6	56.6	55.6	57.6	56.6	56.6	56.6
110°	55.6	55.6	55.6	55.6	54.6	55.6	54.6	53.5	55.6	54.6	54.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	58.7	57.6	58.7	58.7	56.6	57.6	56.6	57.6	56.6	56.6	56.6
115°	59.7	60.7	58.7	59.7	58.7	60.7	60.7	60.7	55.6	56.6	58.7
117.5°	67.9	66.9	66.9	65.9	63.8	62.8	61.8	61.8	63.8	61.8	62.8
120°	73.1	73.1	73.1	72.1	69.0	67.9	67.9	65.9	65.9	65.9	65.9
122.5°	87.5	88.5	87.5	84.4	81.3	80.3	77.2	77.2	76.2	76.2	76.2
125°	105.0	106.0	105.0	100.9	97.8	93.7	92.6	90.6	89.6	88.5	87.5
127.5°	125.6	126.6	123.5	120.4	116.3	113.2	109.1	107.1	106.0	104.0	102.9
130°	150.3	148.2	147.2	143.1	139.0	135.9	133.8	129.7	128.7	126.6	123.5
132.5°	168.8	168.8	165.7	161.6	159.6	157.5	153.4	150.3	149.3	148.2	146.2
135°	184.3	183.2	179.1	178.1	176.0	174.0	174.0	170.9	167.8	165.7	163.7
137.5°	188.4	187.4	184.3	182.2	183.2	182.2	181.2	177.1	178.1	175.0	175.0
140°	183.2	183.2	181.2	180.1	178.1	180.1	181.2	178.1	180.1	179.1	179.1
142.5°	171.9	168.8	167.8	168.8	167.8	168.8	167.8	168.8	168.8	168.8	170.9
145°	152.4	151.3	149.3	151.3	150.3	151.3	152.4	153.4	153.4	154.4	155.4
147.5°	126.6	127.6	127.6	127.6	128.7	128.7	129.7	131.8	132.8	133.8	134.9
150°	99.9	98.8	99.9	100.9	100.9	102.9	102.9	105.0	107.1	108.1	110.1
152.5°	76.2	76.2	75.1	76.2	77.2	78.2	79.3	81.3	82.4	83.4	86.5
155°	53.5	54.6	52.5	54.6	54.6	56.6	56.6	57.6	58.7	59.7	62.8
157.5°	36.0	36.0	37.1	37.1	38.1	39.1	40.1	40.1	41.2	43.2	44.3
160°	21.6	21.6	21.6	21.6	21.6	22.6	24.7	25.7	26.8	26.8	28.8
162.5°	11.3	11.3	11.3	11.3	12.4	13.4	13.4	16.5	15.4	16.5	17.5
165°	2.1	1.0	3.1	3.1	3.1	4.1	5.1	5.1	5.1	6.2	6.2
167.5°	1.0	1.0	2.1	1.0	2.1	1.0	2.1	2.1	2.1	2.1	2.1
170°	1.0	1.0	0.0	0.0	0.0	2.1	0.0	1.0	0.0	1.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1352.6	1351.6	1351.6	1349.6	1348.5	1348.5	1347.5	1345.4	1344.4	1343.4	1342.4
5°	1452.5	1449.4	1447.4	1441.2	1438.1	1437.1	1435.0	1429.9	1426.8	1427.8	1422.6
7.5°	1543.1	1533.8	1524.6	1516.3	1510.1	1506.0	1505.0	1497.8	1496.8	1494.7	1494.7
10°	1557.5	1546.2	1536.9	1527.6	1520.4	1513.2	1509.1	1506.0	1501.9	1499.9	1504.0
12.5°	1565.7	1551.3	1543.1	1532.8	1526.6	1521.5	1512.2	1508.1	1508.1	1510.1	1513.2
15°	1581.2	1569.9	1557.5	1547.2	1537.9	1529.7	1521.5	1516.3	1515.3	1518.4	1522.5
17.5°	1582.2	1568.8	1557.5	1546.2	1535.9	1527.6	1521.5	1519.4	1520.4	1525.6	1529.7
20°	1498.8	1492.6	1481.3	1456.6	1445.3	1454.6	1448.4	1451.5	1453.5	1454.6	1463.8
22.5°	1355.7	1349.6	1362.9	1350.6	1357.8	1353.7	1339.3	1316.6	1322.8	1359.9	1377.4
25°	1257.9	1246.6	1252.8	1235.3	1231.2	1256.9	1248.7	1244.6	1255.9	1261.0	1263.1
27.5°	1157.1	1177.6	1163.2	1143.7	1146.8	1166.3	1164.3	1147.8	1157.1	1167.4	1169.4
30°	1049.0	1062.4	1062.4	1047.9	1055.1	1072.6	1070.6	1082.9	1070.6	1074.7	1081.9
32.5°	931.6	926.5	914.1	907.9	924.4	939.9	937.8	937.8	936.8	941.9	948.1
35°	825.6	825.6	827.6	825.6	829.7	827.6	828.7	824.6	828.7	833.8	840.0
37.5°	766.9	769.0	776.2	776.2	779.3	779.3	780.3	778.2	779.3	782.4	784.4
40°	689.7	693.8	697.9	702.1	706.2	708.2	707.2	703.1	706.2	712.4	711.3
42.5°	637.2	639.3	638.2	638.2	638.2	639.3	641.3	641.3	641.3	641.3	640.3
45°	605.3	607.4	608.4	607.4	606.3	606.3	609.4	606.3	606.3	605.3	607.4
47.5°	575.4	579.6	579.6	580.6	577.5	576.5	574.4	579.6	576.5	577.5	583.7
50°	565.1	563.1	564.1	560.0	555.9	557.9	554.9	555.9	554.9	555.9	561.0
52.5°	536.3	532.2	532.2	535.3	530.1	533.2	529.1	531.2	533.2	533.2	535.3
55°	526.0	522.9	520.9	515.7	519.9	519.9	515.7	513.7	514.7	514.7	522.9
57.5°	516.8	511.6	508.5	505.4	508.5	507.5	510.6	511.6	514.7	512.6	518.8
60°	524.0	522.9	515.7	515.7	517.8	514.7	512.6	514.7	511.6	514.7	518.8
62.5°	498.2	498.2	489.0	493.1	491.0	489.0	486.9	490.0	491.0	503.4	509.6
65°	454.0	452.9	449.9	448.8	450.9	447.8	451.9	451.9	457.1	460.1	465.3
67.5°	434.4	433.4	431.3	432.4	432.4	431.3	432.4	434.4	436.5	440.6	444.7
70°	400.4	398.4	399.4	401.5	400.4	398.4	399.4	402.5	406.6	409.7	414.9
72.5°	363.4	364.4	363.4	364.4	364.4	363.4	364.4	366.5	368.5	371.6	373.7
75°	327.4	323.2	322.2	325.3	323.2	325.3	326.3	330.4	330.4	331.5	335.6
77.5°	291.3	291.3	292.4	294.4	292.4	292.4	294.4	297.5	299.6	302.6	304.7
80°	256.3	257.4	256.3	258.4	257.4	258.4	260.4	262.5	265.6	266.6	269.7
82.5°	224.4	225.4	226.5	226.5	226.5	227.5	230.6	232.6	235.7	236.8	238.8
85°	194.6	194.6	195.6	195.6	195.6	198.7	199.7	201.8	203.8	205.9	206.9
87.5°	166.8	168.8	168.8	169.9	169.9	171.9	172.9	176.0	178.1	180.1	181.2
90°	140.0	142.1	144.1	144.1	147.2	147.2	149.3	150.3	152.4	153.4	154.4
92.5°	124.6	120.4	123.5	122.5	125.6	127.6	130.7	128.7	133.8	129.7	132.8
95°	104.0	107.1	106.0	108.1	108.1	109.1	112.2	112.2	113.2	115.3	114.3
97.5°	85.4	88.5	87.5	91.6	89.6	92.6	91.6	90.6	93.7	93.7	93.7
100°	78.2	77.2	78.2	80.3	81.3	82.4	82.4	83.4	83.4	83.4	82.4
102.5°	66.9	66.9	67.9	67.9	70.0	69.0	69.0	70.0	70.0	70.0	70.0
105°	60.7	59.7	60.7	59.7	61.8	60.7	61.8	61.8	61.8	60.7	61.8
107.5°	58.7	57.6	56.6	58.7	56.6	57.6	56.6	56.6	56.6	57.6	56.6
110°	54.6	53.5	53.5	54.6	54.6	54.6	53.5	56.6	54.6	55.6	53.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	56.6	55.6	55.6	57.6	55.6	56.6	55.6	55.6	56.6	56.6	55.6
115°	60.7	58.7	56.6	55.6	54.6	57.6	54.6	58.7	55.6	56.6	56.6
117.5°	61.8	60.7	59.7	60.7	59.7	58.7	60.7	58.7	59.7	59.7	59.7
120°	64.9	63.8	62.8	61.8	60.7	61.8	59.7	61.8	60.7	60.7	62.8
122.5°	76.2	73.1	73.1	72.1	70.0	69.0	67.9	67.9	70.0	70.0	71.0
125°	86.5	85.4	83.4	81.3	81.3	79.3	77.2	78.2	78.2	79.3	81.3
127.5°	100.9	99.9	96.8	93.7	92.6	89.6	89.6	87.5	88.5	92.6	93.7
130°	120.4	118.4	115.3	111.2	108.1	105.0	102.9	105.0	105.0	106.0	109.1
132.5°	141.0	140.0	133.8	129.7	127.6	122.5	121.5	119.4	121.5	123.5	124.6
135°	160.6	158.5	152.4	148.2	145.1	142.1	140.0	139.0	140.0	139.0	142.1
137.5°	171.9	169.9	166.8	161.6	159.6	155.4	151.3	151.3	153.4	152.4	153.4
140°	178.1	174.0	171.9	168.8	164.7	162.6	159.6	160.6	159.6	160.6	160.6
142.5°	170.9	166.8	165.7	162.6	160.6	157.5	157.5	158.5	157.5	158.5	160.6
145°	156.5	155.4	153.4	153.4	152.4	151.3	151.3	150.3	151.3	151.3	153.4
147.5°	135.9	136.9	136.9	135.9	136.9	137.9	136.9	136.9	139.0	139.0	140.0
150°	113.2	114.3	115.3	114.3	115.3	117.4	117.4	118.4	119.4	118.4	120.4
152.5°	87.5	89.6	91.6	92.6	94.7	94.7	96.8	97.8	98.8	100.9	99.9
155°	63.8	65.9	66.9	67.9	67.9	71.0	72.1	73.1	74.1	75.1	76.2
157.5°	44.3	46.3	48.4	49.4	51.5	51.5	52.5	53.5	54.6	55.6	55.6
160°	28.8	29.9	30.9	31.9	34.0	34.0	34.0	35.0	35.0	37.1	35.0
162.5°	18.5	20.6	21.6	20.6	21.6	22.6	22.6	23.7	22.6	22.6	22.6
165°	9.3	9.3	9.3	9.3	10.3	10.3	10.3	11.3	11.3	11.3	11.3
167.5°	3.1	3.1	3.1	3.1	4.1	5.1	5.1	5.1	4.1	5.1	3.1
170°	2.1	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: CRTK-X-A08-E-120-5-5000 +RMARROA5

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1343.4	1341.3	1340.3	1340.3	1341.3	1340.3	1342.4	1341.3	1340.3	1340.3	1340.3
5°	1421.6	1420.6	1418.5	1418.5	1419.6	1416.5	1413.4	1413.4	1414.4	1414.4	1415.4
7.5°	1494.7	1497.8	1501.9	1504.0	1508.1	1511.2	1519.4	1525.6	1534.9	1541.0	1542.1
10°	1508.1	1515.3	1522.5	1533.8	1548.2	1559.6	1572.9	1590.4	1605.9	1621.3	1634.7
12.5°	1519.4	1523.5	1537.9	1544.1	1557.5	1570.9	1582.2	1597.6	1611.0	1621.3	1632.6
15°	1528.7	1533.8	1544.1	1555.4	1568.8	1581.2	1595.6	1609.0	1623.4	1636.8	1644.0
17.5°	1533.8	1544.1	1551.3	1562.6	1577.1	1592.5	1605.9	1620.3	1636.8	1651.2	1666.6
20°	1473.1	1483.4	1488.5	1504.0	1516.3	1521.5	1525.6	1533.8	1549.3	1544.1	1534.9
22.5°	1376.3	1367.1	1376.3	1384.6	1377.4	1382.5	1380.4	1417.5	1437.1	1444.3	1456.6
25°	1251.8	1255.9	1282.6	1268.2	1275.4	1292.9	1320.7	1337.2	1350.6	1313.5	1316.6
27.5°	1172.5	1185.9	1192.1	1200.3	1202.4	1195.1	1194.1	1203.4	1210.6	1220.9	1230.1
30°	1075.7	1080.9	1095.3	1079.9	1079.9	1101.5	1121.0	1130.3	1134.4	1120.0	1096.3
32.5°	944.0	948.1	950.1	954.3	962.5	961.5	945.0	941.9	953.2	954.3	954.3
35°	841.0	836.9	836.9	840.0	841.0	847.2	851.3	861.6	864.7	872.9	878.1
37.5°	789.6	788.5	788.5	786.5	784.4	788.5	792.6	800.9	806.0	816.3	818.4
40°	713.4	711.3	709.3	706.2	705.1	708.2	708.2	712.4	714.4	715.4	718.5
42.5°	644.4	646.5	647.5	647.5	647.5	646.5	648.5	651.6	653.7	654.7	658.8
45°	607.4	608.4	611.5	610.4	612.5	613.5	612.5	614.6	615.6	615.6	615.6
47.5°	582.6	581.6	583.7	584.7	582.6	586.8	584.7	586.8	585.7	586.8	586.8
50°	566.2	567.2	571.3	570.3	572.4	573.4	572.4	574.4	572.4	573.4	578.5
52.5°	534.3	535.3	541.5	544.6	547.6	546.6	546.6	545.6	543.5	537.4	539.4
55°	527.1	527.1	530.1	531.2	527.1	525.0	530.1	528.1	532.2	539.4	540.4
57.5°	517.8	517.8	525.0	530.1	531.2	532.2	530.1	527.1	525.0	521.9	519.9
60°	522.9	526.0	530.1	535.3	532.2	529.1	532.2	529.1	535.3	533.2	538.4
62.5°	509.6	510.6	517.8	520.9	519.9	520.9	518.8	517.8	518.8	514.7	518.8
65°	467.4	471.5	474.6	474.6	474.6	471.5	472.5	471.5	467.4	466.3	466.3
67.5°	447.8	450.9	452.9	452.9	454.0	448.8	448.8	446.8	445.7	443.7	443.7
70°	416.9	420.0	420.0	422.1	419.0	415.9	416.9	414.9	412.8	411.8	408.7
72.5°	378.8	380.9	382.9	381.9	379.9	376.8	375.7	374.7	374.7	373.7	373.7
75°	337.6	340.7	340.7	341.8	338.7	339.7	336.6	335.6	333.5	332.5	332.5
77.5°	306.8	307.8	308.8	307.8	306.8	304.7	303.7	303.7	302.6	301.6	300.6
80°	271.8	271.8	271.8	272.8	269.7	269.7	267.6	268.7	266.6	265.6	263.5
82.5°	240.9	241.9	241.9	240.9	239.9	237.8	235.7	236.8	235.7	234.7	233.7
85°	210.0	210.0	211.0	210.0	207.9	205.9	205.9	204.9	202.8	203.8	202.8
87.5°	182.2	182.2	181.2	181.2	180.1	178.1	177.1	177.1	175.0	175.0	171.9
90°	154.4	154.4	155.4	154.4	153.4	151.3	151.3	151.3	149.3	147.2	147.2
92.5°	131.8	131.8	129.7	134.9	132.8	130.7	127.6	126.6	127.6	127.6	123.5
95°	115.3	113.2	113.2	114.3	111.2	110.1	110.1	110.1	109.1	108.1	108.1
97.5°	94.7	92.6	91.6	91.6	91.6	89.6	91.6	90.6	90.6	89.6	88.5
100°	82.4	82.4	83.4	82.4	81.3	80.3	81.3	81.3	80.3	80.3	78.2
102.5°	70.0	70.0	67.9	67.9	70.0	69.0	69.0	66.9	67.9	66.9	67.9
105°	61.8	59.7	60.7	60.7	60.7	60.7	60.7	60.7	61.8	61.8	60.7
107.5°	56.6	56.6	56.6	57.6	57.6	57.6	56.6	56.6	57.6	56.6	58.7
110°	53.5	53.5	54.6	53.5	54.6	54.6	54.6	55.6	54.6	54.6	53.5



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REPORT N

CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	55.6	55.6	56.6	56.6	54.6	55.6	56.6	56.6	56.6	57.6	56.6	0°
115°	57.6	55.6	57.6	56.6	57.6	57.6	56.6	58.7	58.7	54.6	55.6	2.5°
117.5°	60.7	60.7	61.8	58.7	59.7	59.7	61.8	61.8	60.7	60.7	61.8	5°
120°	61.8	62.8	65.9	62.8	63.8	63.8	61.8	62.8	63.8	62.8	62.8	7.5°
122.5°	72.1	73.1	73.1	73.1	72.1	72.1	73.1	73.1	73.1	74.1	72.1	10°
125°	82.4	82.4	83.4	83.4	82.4	83.4	82.4	84.4	84.4	85.4	82.4	12.5°
127.5°	94.7	94.7	94.7	95.7	95.7	95.7	95.7	97.8	97.8	100.9	97.8	15°
130°	109.1	111.2	112.2	112.2	112.2	113.2	115.3	115.3	116.3	118.4	115.3	17.5°
132.5°	127.6	127.6	127.6	129.7	130.7	131.8	133.8	136.9	139.0	135.9	132.8	20°
135°	143.1	145.1	148.2	147.2	149.3	150.3	154.4	157.5	155.4	152.4	145.1	22.5°
137.5°	155.4	158.5	160.6	161.6	163.7	163.7	166.8	171.9	169.9	160.6	148.2	25°
140°	162.6	166.8	168.8	170.9	171.9	172.9	174.0	177.1	177.1	166.8	150.3	27.5°
142.5°	161.6	164.7	166.8	167.8	166.8	169.9	170.9	171.9	170.9	159.6	144.1	30°
145°	153.4	156.5	158.5	159.6	159.6	160.6	160.6	157.5	157.5	148.2	134.9	32.5°
147.5°	141.0	142.1	143.1	144.1	144.1	145.1	143.1	139.0	133.8	127.6	117.4	35°
150°	120.4	121.5	122.5	122.5	120.4	121.5	119.4	115.3	107.1	99.9	92.6	37.5°
152.5°	99.9	100.9	100.9	100.9	98.8	98.8	96.8	91.6	84.4	78.2	66.9	40°
155°	76.2	76.2	77.2	74.1	73.1	71.0	70.0	66.9	62.8	56.6	49.4	42.5°
157.5°	55.6	55.6	54.6	52.5	53.5	52.5	50.4	50.4	44.3	41.2	35.0	45°
160°	36.0	37.1	36.0	34.0	34.0	31.9	30.9	30.9	27.8	25.7	21.6	47.5°
162.5°	23.7	23.7	22.6	20.6	20.6	20.6	19.6	18.5	15.4	14.4	12.4	50°
165°	10.3	9.3	10.3	8.2	9.3	8.2	8.2	6.2	5.1	6.2	5.1	52.5°
167.5°	4.1	4.1	4.1	3.1	3.1	3.1	2.1	3.1	2.1	1.0	0.0	55°
170°	1.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	2.1	2.1	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



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DISTRIBUTION (continued):

165°	170°	175°	180°
1345.4	1345.4	1345.4	1345.4
1340.3	1342.4	1340.3	1342.4
1415.4	1418.5	1418.5	1423.7
1543.1	1545.1	1551.3	1550.3
1647.1	1658.4	1666.6	1669.7
1641.9	1650.1	1652.2	1652.2
1650.1	1655.3	1658.4	1661.5
1675.9	1683.1	1686.2	1690.3
1555.4	1574.0	1578.1	1579.1
1471.0	1470.0	1455.6	1462.8
1342.4	1360.9	1361.9	1359.9
1235.3	1242.5	1248.7	1247.6
1116.9	1131.3	1129.3	1130.3
949.1	941.9	938.8	937.8
882.2	885.3	886.3	879.1
821.5	822.5	820.4	818.4
718.5	721.6	722.6	721.6
659.9	658.8	659.9	660.9
615.6	616.6	616.6	618.7
587.8	584.7	590.9	588.8
577.5	576.5	576.5	578.5
539.4	546.6	550.7	552.8
538.4	535.3	534.3	526.0
519.9	527.1	531.2	530.1
540.4	533.2	532.2	525.0
520.9	526.0	526.0	527.1
466.3	467.4	466.3	466.3
443.7	446.8	446.8	444.7
413.8	411.8	411.8	415.9
372.6	374.7	375.7	374.7
335.6	332.5	333.5	332.5
300.6	300.6	301.6	302.6
264.6	264.6	264.6	266.6
232.6	233.7	232.6	233.7
201.8	201.8	201.8	202.8
171.9	172.9	172.9	172.9
147.2	148.2	146.2	148.2
127.6	123.5	123.5	126.6
106.0	105.0	105.0	105.0
86.5	85.4	85.4	86.5
78.2	77.2	77.2	76.2
66.9	67.9	65.9	67.9
59.7	60.7	60.7	60.7
56.6	56.6	56.6	58.7
55.6	54.6	55.6	54.6

CANDELA DISTRIBUTION:

	165°
112.5°	55.6
115°	57.6
117.5°	60.7
120°	61.8
122.5°	67.9
125°	75.1
127.5°	88.5
130°	105.0
132.5°	119.4
135°	130.7
137.5°	135.9
140°	132.8
142.5°	126.6
145°	119.4
147.5°	105.0
150°	82.4
152.5°	57.6
155°	42.2
157.5°	29.9
160°	17.5
162.5°	10.3
165°	4.1
167.5°	1.0
170°	1.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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TION (continued):

170°	175°	180°
56.6	55.6	56.6
56.6	59.7	60.7
61.8	60.7	62.8
63.8	66.9	65.9
72.1	75.1	75.1
78.2	85.4	86.5
87.5	91.6	94.7
101.9	107.1	109.1
110.1	115.3	120.4
122.5	121.5	128.7
125.6	125.6	131.8
125.6	124.6	128.7
118.4	116.3	116.3
108.1	105.0	102.9
95.7	90.6	91.6
74.1	66.9	63.8
50.4	45.3	41.2
36.0	34.0	30.9
25.7	22.6	23.7
15.4	13.4	12.4
7.2	6.2	6.2
3.1	1.0	0.0
1.0	1.0	0.0
1.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0

(END OF REPORT)