

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: P853470

Luminaire Tested: **CRTK-N-50-750-U-T2R-CNR**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-111-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-N-50-750-U-T2R-CNR
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6170 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.25')
IES Classification: Type II - Short
BUG Rating: B2 - U3 - G2

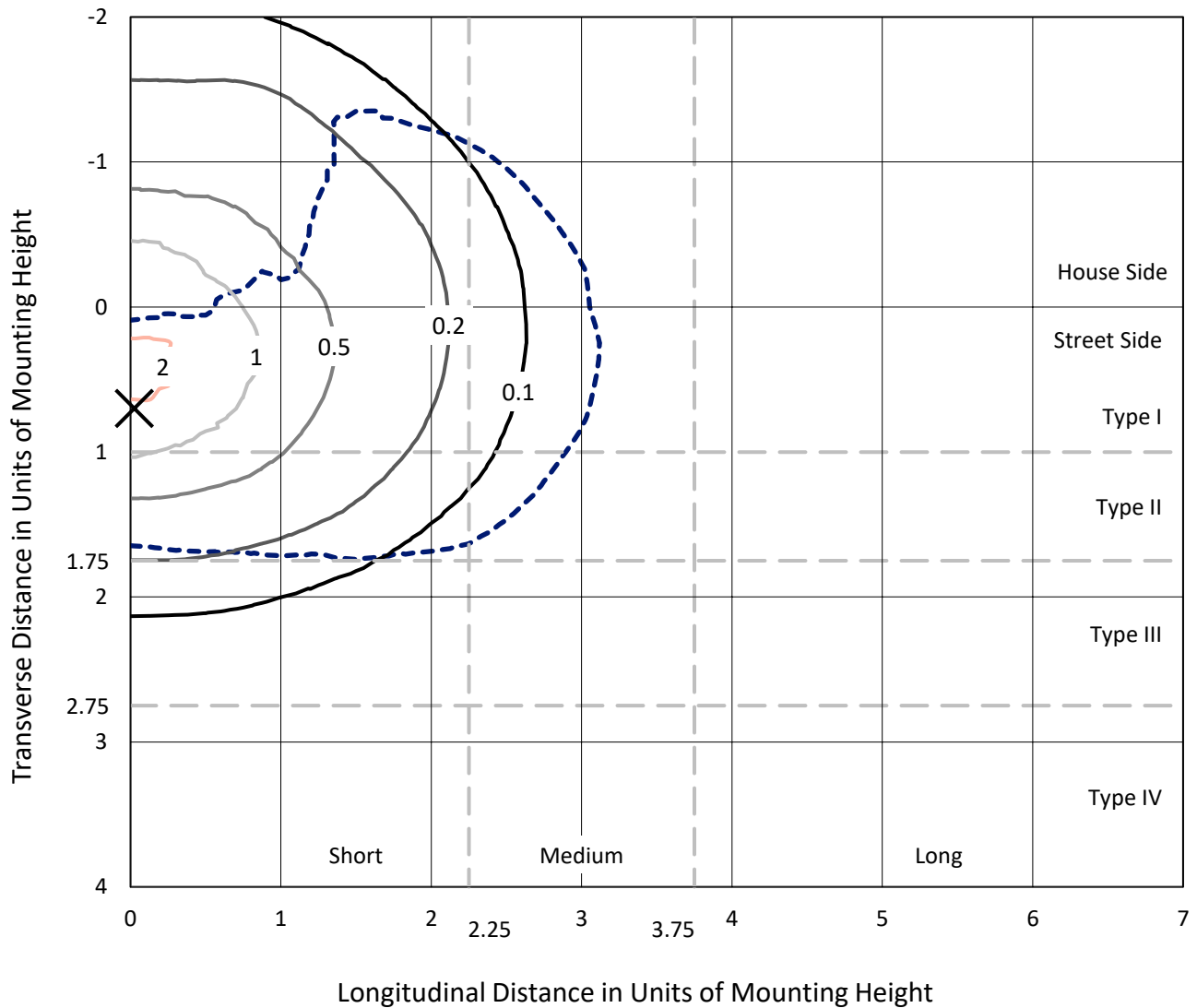
Input Watts (W): 47.7
Input Voltage (V): 120.0
Input Current (Ain): 0.398
Voltage Rise (V): NR
Power Factor: 0.9969
Total Harmonic Distortion (THDi): 6.56%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

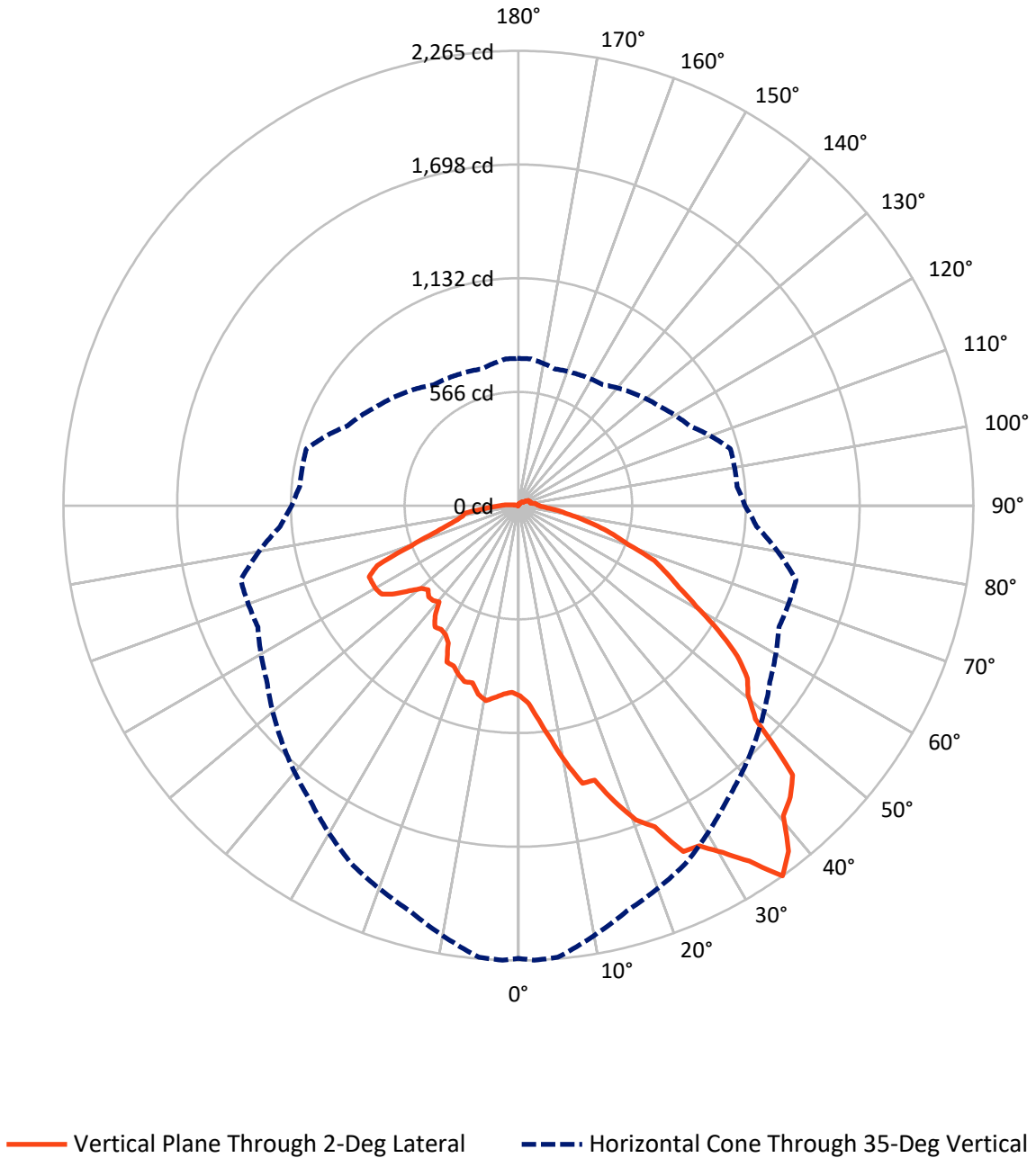
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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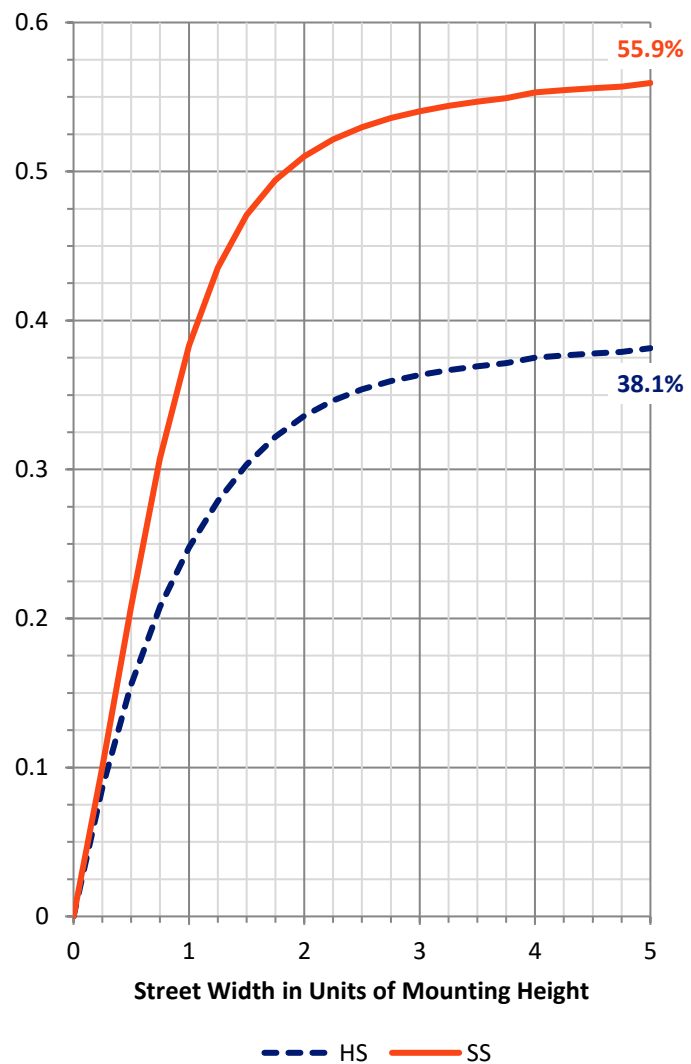
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2411.5	98.3	2509.8
	% Fixture	39.1	1.6	40.7
Street Side	Lumens	3499.3	160.9	3660.2
	% Fixture	56.7	2.6	59.3
Total	Lumens	5910.8	259.2	6170.0
	% Fixture	95.8	4.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.6
10°-20°	325.9	5.3
20°-30°	559.2	9.1
30°-40°	803.6	13.0
40°-50°	977.8	15.8
50°-60°	1147.4	18.6
60°-70°	1138.6	18.5
70°-80°	633.1	10.3
80°-90°	227.8	3.7
90°-100°	82.8	1.3
100°-110°	71.2	1.2
110°-120°	59.1	1.0
120°-130°	24.1	0.4
130°-140°	12.1	0.2
140°-150°	6.3	0.1
150°-160°	3.0	0.0
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-90°	5910.8	95.8
0°-180°	6170.0	100.0



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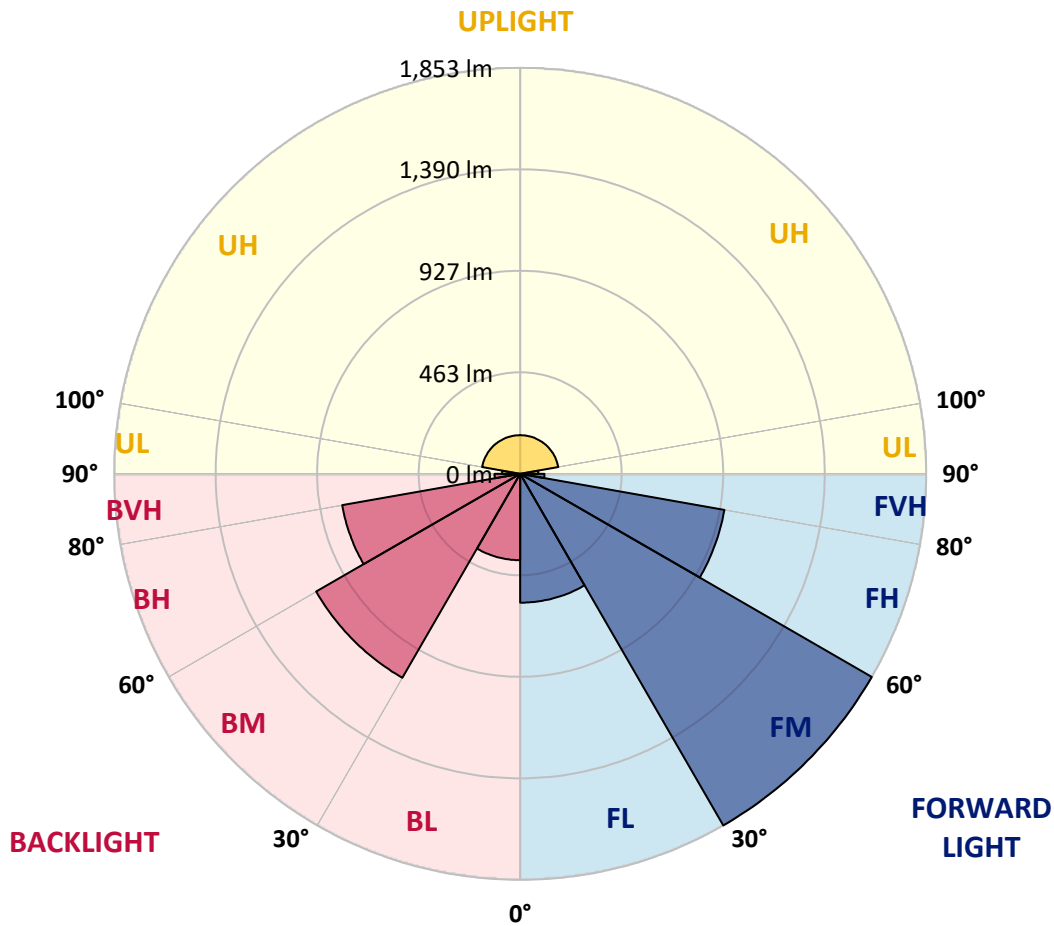
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.2	9.5			
FM (30°-60°)	1853.5	30.0			
FH (60°-80°)	946.7	15.3			G1/1800
FVH (80°-90°)	111.0	1.8			G2/225
BL (0°-30°)	394.3	6.4	B1/500		
BM (30°-60°)	1075.4	17.4	B2/2500		
BH (60°-80°)	825.0	13.4	B2/1000		G2/1000
BVH (80°-90°)	116.9	1.9			G2/225
UL (90°-100°)	82.8	1.3		U3/500	
UH (100°-180°)	176.4	2.9		U3/500	

BUG Rating: B2-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3
2.5°	984.5	986.2	986.2	993.3	988.0	988.0	977.4	970.3	970.3	961.4	947.3
5°	1069.4	1073.0	1071.2	1076.5	1064.1	1057.1	1034.0	1016.3	1003.9	986.2	965.0
7.5°	1175.7	1179.2	1177.5	1177.5	1159.7	1143.8	1106.6	1074.8	1050.0	1021.6	988.0
10°	1290.8	1301.4	1299.6	1296.1	1266.0	1235.9	1186.3	1138.5	1099.5	1058.8	1014.6
12.5°	1418.3	1418.3	1418.3	1391.7	1340.3	1292.5	1237.7	1189.8	1152.7	1104.9	1048.2
15°	1411.2	1418.3	1427.1	1467.8	1437.7	1384.6	1304.9	1230.6	1168.6	1108.4	1080.1
17.5°	1533.3	1549.3	1545.7	1544.0	1547.5	1522.7	1423.6	1324.4	1244.7	1161.5	1037.6
20°	1664.4	1669.7	1669.7	1673.2	1630.7	1627.2	1545.7	1427.1	1329.7	1170.4	1051.7
22.5°	1724.6	1737.0	1728.1	1726.3	1653.7	1590.0	1565.2	1439.5	1290.8	1108.4	975.6
25°	1898.1	1908.7	1887.5	1798.9	1685.6	1581.2	1519.2	1531.6	1243.0	1106.6	1014.6
27.5°	1912.3	1917.6	1926.4	1945.9	1853.8	1735.2	1584.7	1315.6	1276.6	1209.3	1111.9
30°	1997.2	2004.3	1983.1	2041.5	2048.6	1846.7	1554.6	1315.6	1326.2	1255.4	1211.1
32.5°	2096.4	2110.6	2114.1	2128.3	1997.2	1880.4	1529.8	1400.6	1374.0	1335.0	1221.7
35°	2254.0	2264.6	2257.5	2089.3	1967.1	1800.7	1664.4	1528.0	1430.7	1430.7	1189.8
37.5°	2192.0	2183.2	2199.1	2119.4	2018.5	1738.7	1713.9	1689.2	1565.2	1315.6	1303.2
40°	2025.6	2030.9	2027.3	2140.7	1933.5	1823.7	1777.7	1703.3	1540.4	1412.9	1393.5
42.5°	1977.8	1984.9	2004.3	1910.5	1864.4	1928.2	1784.8	1582.9	1547.5	1531.6	1391.7
45°	1954.8	1914.0	1876.8	1749.4	1715.7	1717.5	1710.4	1706.9	1643.1	1513.9	1276.6
47.5°	1584.7	1588.2	1609.5	1698.0	1673.2	1724.6	1690.9	1643.1	1579.4	1294.3	1216.4
50°	1478.5	1480.2	1508.6	1552.8	1627.2	1760.0	1740.5	1630.7	1524.5	1446.6	1359.8
52.5°	1430.7	1427.1	1439.5	1467.8	1540.4	1682.1	1675.0	1632.5	1598.9	1558.1	1443.0
55°	1336.8	1322.6	1347.4	1389.9	1453.7	1595.3	1666.1	1664.4	1659.1	1613.0	1510.3
57.5°	1177.5	1173.9	1193.4	1251.8	1347.4	1474.9	1597.1	1637.8	1653.7	1655.5	1575.8
60°	1025.2	1016.3	1041.1	1111.9	1193.4	1375.8	1506.8	1577.6	1636.0	1660.8	1637.8
62.5°	906.6	897.7	917.2	973.8	1065.9	1227.0	1418.3	1549.3	1644.9	1667.9	1644.9
65°	810.9	810.9	814.5	867.6	943.7	1050.0	1304.9	1453.7	1588.2	1634.3	1621.9
67.5°	718.9	729.5	727.7	780.8	834.0	949.0	1103.1	1278.4	1487.3	1554.6	1549.3
70°	582.5	580.8	598.5	674.6	754.3	837.5	968.5	1140.3	1292.5	1343.9	1358.1
72.5°	499.3	494.0	506.4	548.9	625.0	722.4	796.8	890.6	975.6	1078.3	1083.6
75°	412.6	409.0	419.6	453.3	497.5	552.4	587.8	658.7	733.0	805.6	800.3
77.5°	324.0	320.5	327.6	352.4	384.2	428.5	469.2	522.3	538.3	566.6	580.8
80°	249.7	246.1	255.0	292.2	311.6	331.1	340.0	361.2	368.3	403.7	440.9
82.5°	203.6	200.1	210.7	216.0	217.8	233.7	249.7	262.0	276.2	297.5	299.2
85°	143.4	143.4	148.7	154.0	159.4	171.7	185.9	196.5	208.9	221.3	230.2
87.5°	115.1	115.1	116.9	118.6	127.5	136.3	147.0	159.4	170.0	175.3	178.8
90°	99.2	100.9	100.9	102.7	104.5	108.0	113.3	122.2	127.5	131.0	132.8
92.5°	92.1	92.1	92.1	92.1	90.3	88.5	88.5	90.3	93.8	95.6	93.8
95°	88.5	88.5	88.5	85.0	86.8	85.0	79.7	76.1	72.6	72.6	70.8
97.5°	79.7	79.7	79.7	76.1	74.4	74.4	72.6	69.1	65.5	63.7	60.2
100°	65.5	65.5	65.5	65.5	69.1	70.8	69.1	69.1	67.3	63.7	62.0
102.5°	60.2	60.2	60.2	62.0	67.3	74.4	77.9	77.9	74.4	72.6	70.8
105°	62.0	62.0	62.0	72.6	86.8	86.8	77.9	77.9	81.4	88.5	88.5
107.5°	60.2	60.2	62.0	76.1	104.5	123.9	123.9	108.0	109.8	102.7	97.4
110°	60.2	60.2	60.2	65.5	72.6	85.0	113.3	136.3	157.6	157.6	152.3

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CANDELA DISTRIBUTION (continued):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	56.7	56.7	58.4	60.2	63.7	70.8	79.7	99.2	115.1	129.3	132.8
115°	56.7	56.7	56.7	58.4	62.0	67.3	74.4	85.0	93.8	100.9	95.6
117.5°	54.9	54.9	56.7	54.9	56.7	62.0	67.3	70.8	72.6	69.1	60.2
120°	46.0	46.0	46.0	47.8	49.6	51.3	53.1	54.9	51.3	49.6	46.0
122.5°	40.7	40.7	40.7	40.7	40.7	40.7	44.3	44.3	46.0	44.3	44.3
125°	31.9	31.9	33.6	31.9	33.6	33.6	35.4	37.2	37.2	37.2	37.2
127.5°	28.3	28.3	28.3	28.3	28.3	28.3	30.1	31.9	31.9	30.1	30.1
130°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	26.6	26.6	26.6	24.8
132.5°	26.6	24.8	26.6	24.8	24.8	24.8	23.0	24.8	24.8	24.8	23.0
135°	24.8	24.8	23.0	23.0	23.0	23.0	21.2	21.2	23.0	21.2	19.5
137.5°	19.5	21.2	21.2	19.5	19.5	19.5	19.5	19.5	17.7	17.7	17.7
140°	17.7	17.7	17.7	17.7	17.7	15.9	17.7	15.9	15.9	15.9	15.9
142.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	14.2	14.2	14.2
145°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	12.4
147.5°	14.2	14.2	14.2	14.2	14.2	14.2	12.4	12.4	12.4	12.4	12.4
150°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	10.6
152.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
155°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
157.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
160°	3.5	3.5	3.5	3.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3
162.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
165°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
167.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3	947.3
2.5°	943.7	942.0	945.5	945.5	940.2	934.9	931.3	927.8	927.8	929.6	929.6
5°	959.7	956.1	952.6	954.4	949.0	943.7	942.0	938.4	938.4	940.2	942.0
7.5°	979.1	973.8	972.1	970.3	966.8	963.2	961.4	959.7	959.7	961.4	963.2
10°	1002.2	995.1	989.8	991.5	982.7	975.6	972.1	968.5	975.6	980.9	986.2
12.5°	1032.3	1025.2	1007.5	998.6	970.3	957.9	950.8	950.8	956.1	957.9	961.4
15°	1060.6	1037.6	993.3	996.9	989.8	980.9	973.8	959.7	934.9	908.3	913.6
17.5°	1002.2	1009.2	1027.0	1027.0	1021.6	1011.0	991.5	952.6	922.5	913.6	917.2
20°	1023.4	1011.0	1027.0	1057.1	1046.4	1032.3	977.4	929.6	899.5	892.4	892.4
22.5°	945.5	929.6	950.8	1009.2	1018.1	952.6	869.4	853.4	862.3	860.5	860.5
25°	977.4	956.1	933.1	945.5	1000.4	880.0	844.6	819.8	819.8	848.1	862.3
27.5°	1065.9	1037.6	995.1	918.9	837.5	867.6	858.7	834.0	818.0	782.6	759.6
30°	1158.0	1120.8	986.2	924.3	802.1	823.3	834.0	839.3	777.3	738.3	736.6
32.5°	1188.1	1113.7	1041.1	908.3	828.6	789.7	810.9	756.0	747.2	727.7	725.9
35°	1127.9	1092.5	1092.5	940.2	860.5	796.8	734.8	718.9	704.7	733.0	733.0
37.5°	1244.7	1182.8	991.5	984.5	897.7	782.6	717.1	725.9	697.6	685.2	692.3
40°	1361.6	1241.2	1051.7	963.2	878.2	803.9	743.7	702.9	690.5	625.0	617.9
42.5°	1266.0	1243.0	1124.3	933.1	858.7	841.0	791.5	725.9	641.0	632.1	637.4
45°	1207.6	1152.7	1094.2	993.3	908.3	878.2	787.9	715.3	658.7	639.2	635.6
47.5°	1175.7	1104.9	1009.2	984.5	911.9	883.5	883.5	745.4	665.7	617.9	612.6
50°	1312.0	1253.6	1126.1	1014.6	961.4	934.9	979.1	796.8	695.8	641.0	630.3
52.5°	1389.9	1326.2	1212.9	1094.2	1003.9	972.1	1028.7	849.9	741.9	695.8	683.5
55°	1455.4	1397.0	1264.2	1154.4	1057.1	1016.3	1032.3	901.2	796.8	756.0	757.8
57.5°	1538.7	1476.7	1315.6	1193.4	1092.5	1051.7	1028.7	945.5	839.3	810.9	809.2
60°	1627.2	1554.6	1388.2	1225.3	1117.3	1074.8	1064.1	991.5	865.8	828.6	816.2
62.5°	1614.8	1570.5	1451.9	1283.7	1161.5	1103.1	1058.8	970.3	888.8	839.3	810.9
65°	1584.7	1549.3	1432.4	1257.1	1133.2	1062.4	961.4	903.0	867.6	819.8	825.1
67.5°	1526.3	1480.2	1347.4	1177.5	1025.2	906.6	825.1	752.5	757.8	757.8	768.4
70°	1301.4	1289.0	1138.5	1021.6	910.1	802.1	704.7	649.8	614.4	571.9	566.6
72.5°	1035.8	1025.2	899.5	787.9	736.6	687.0	628.6	531.2	472.8	440.9	439.1
75°	766.7	757.8	699.4	626.8	580.8	538.3	490.5	426.7	380.7	364.7	361.2
77.5°	557.7	536.5	517.0	501.1	492.2	451.5	391.3	345.3	322.3	313.4	311.6
80°	424.9	405.5	386.0	368.3	373.6	355.9	324.0	301.0	286.8	279.8	279.8
82.5°	292.2	288.6	285.1	278.0	285.1	267.4	251.4	237.3	255.0	269.1	270.9
85°	230.2	228.4	230.2	217.8	217.8	198.3	193.0	180.6	177.1	177.1	175.3
87.5°	178.8	180.6	184.1	171.7	168.2	155.8	148.7	143.4	138.1	132.8	134.6
90°	132.8	134.6	134.6	125.7	122.2	113.3	108.0	104.5	99.2	93.8	93.8
92.5°	93.8	93.8	93.8	88.5	86.8	81.4	77.9	76.1	76.1	76.1	76.1
95°	70.8	70.8	69.1	65.5	63.7	62.0	63.7	62.0	60.2	53.1	54.9
97.5°	58.4	56.7	56.7	54.9	53.1	51.3	47.8	42.5	37.2	30.1	31.9
100°	60.2	58.4	56.7	56.7	53.1	42.5	35.4	30.1	24.8	19.5	19.5
102.5°	70.8	69.1	63.7	60.2	54.9	44.3	33.6	26.6	21.2	12.4	12.4
105°	85.0	81.4	70.8	65.5	56.7	44.3	35.4	28.3	19.5	8.9	7.1
107.5°	93.8	85.0	77.9	74.4	74.4	65.5	53.1	31.9	15.9	7.1	3.5
110°	148.7	139.9	122.2	111.5	99.2	76.1	44.3	24.8	10.6	5.3	3.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	131.0	125.7	108.0	86.8	65.5	46.0	26.6	17.7	10.6	3.5	3.5
115°	88.5	81.4	63.7	53.1	40.7	30.1	21.2	15.9	10.6	5.3	1.8
117.5°	54.9	51.3	44.3	37.2	33.6	26.6	19.5	14.2	7.1	1.8	0.0
120°	44.3	42.5	37.2	33.6	26.6	23.0	15.9	12.4	5.3	0.0	0.0
122.5°	40.7	39.0	33.6	28.3	24.8	19.5	14.2	8.9	3.5	1.8	0.0
125°	35.4	35.4	31.9	26.6	23.0	19.5	12.4	7.1	1.8	1.8	1.8
127.5°	28.3	28.3	24.8	23.0	17.7	14.2	10.6	7.1	1.8	1.8	1.8
130°	24.8	23.0	21.2	17.7	14.2	10.6	8.9	5.3	1.8	1.8	1.8
132.5°	23.0	21.2	17.7	15.9	12.4	8.9	7.1	5.3	1.8	1.8	1.8
135°	19.5	17.7	15.9	14.2	10.6	8.9	7.1	3.5	1.8	1.8	1.8
137.5°	15.9	15.9	14.2	12.4	8.9	8.9	7.1	3.5	1.8	1.8	1.8
140°	14.2	14.2	12.4	10.6	8.9	7.1	5.3	3.5	1.8	1.8	1.8
142.5°	12.4	12.4	10.6	8.9	7.1	5.3	3.5	1.8	1.8	1.8	1.8
145°	12.4	12.4	10.6	8.9	7.1	5.3	3.5	1.8	1.8	1.8	1.8
147.5°	10.6	10.6	10.6	8.9	5.3	5.3	3.5	1.8	1.8	1.8	1.8
150°	10.6	10.6	8.9	7.1	5.3	3.5	3.5	1.8	1.8	1.8	1.8
152.5°	8.9	8.9	8.9	7.1	5.3	3.5	1.8	1.8	1.8	1.8	1.8
155°	8.9	7.1	7.1	5.3	3.5	3.5	1.8	1.8	1.8	1.8	1.8
157.5°	7.1	7.1	5.3	5.3	3.5	3.5	1.8	1.8	1.8	1.8	1.8
160°	5.3	5.3	5.3	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8
162.5°	3.5	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8
165°	3.5	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	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

(END OF REPORT)