

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: P157774

Luminaire Tested: **VST-F03-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157774
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G2

Input Watts (W): 78.3
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

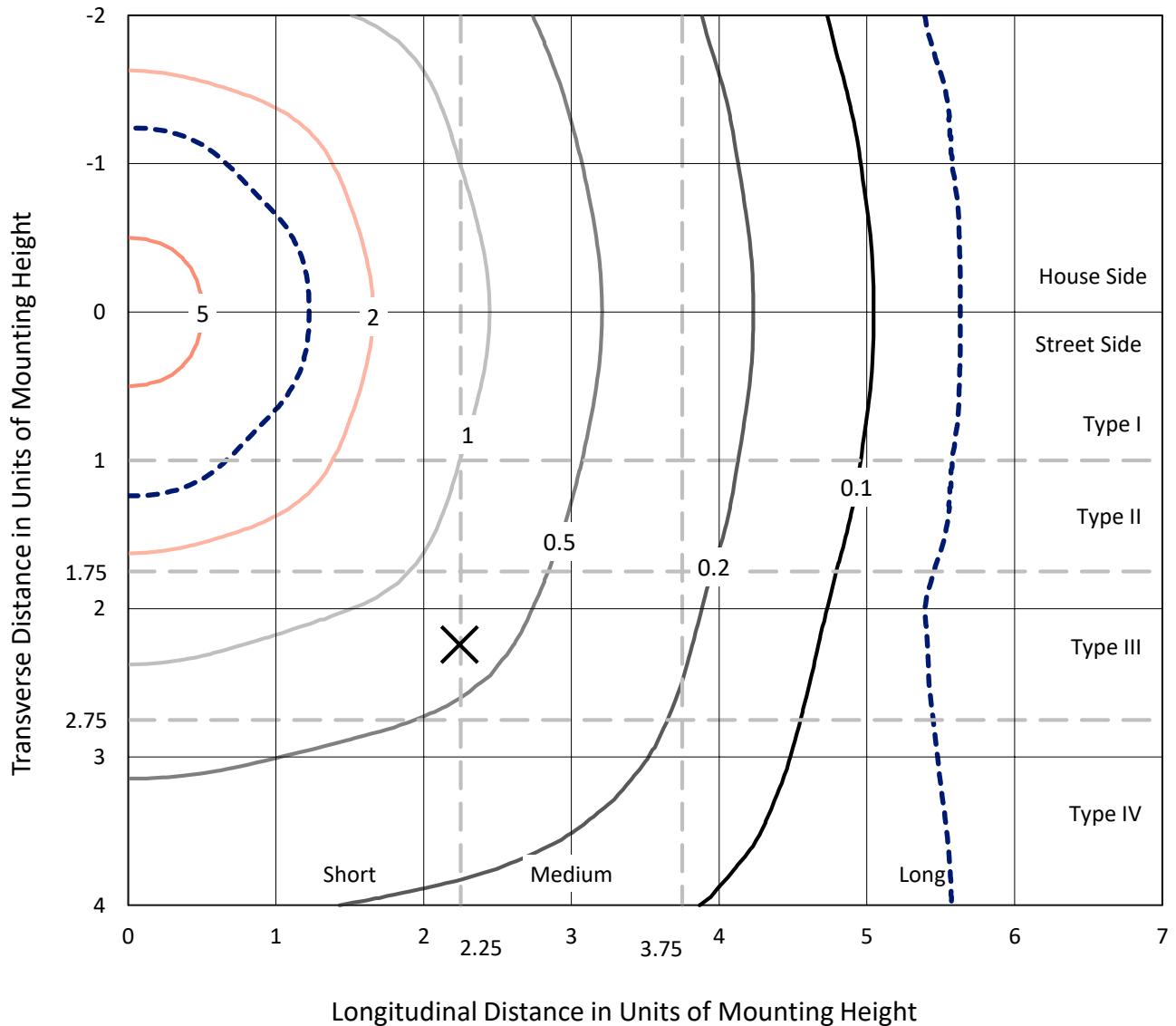


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

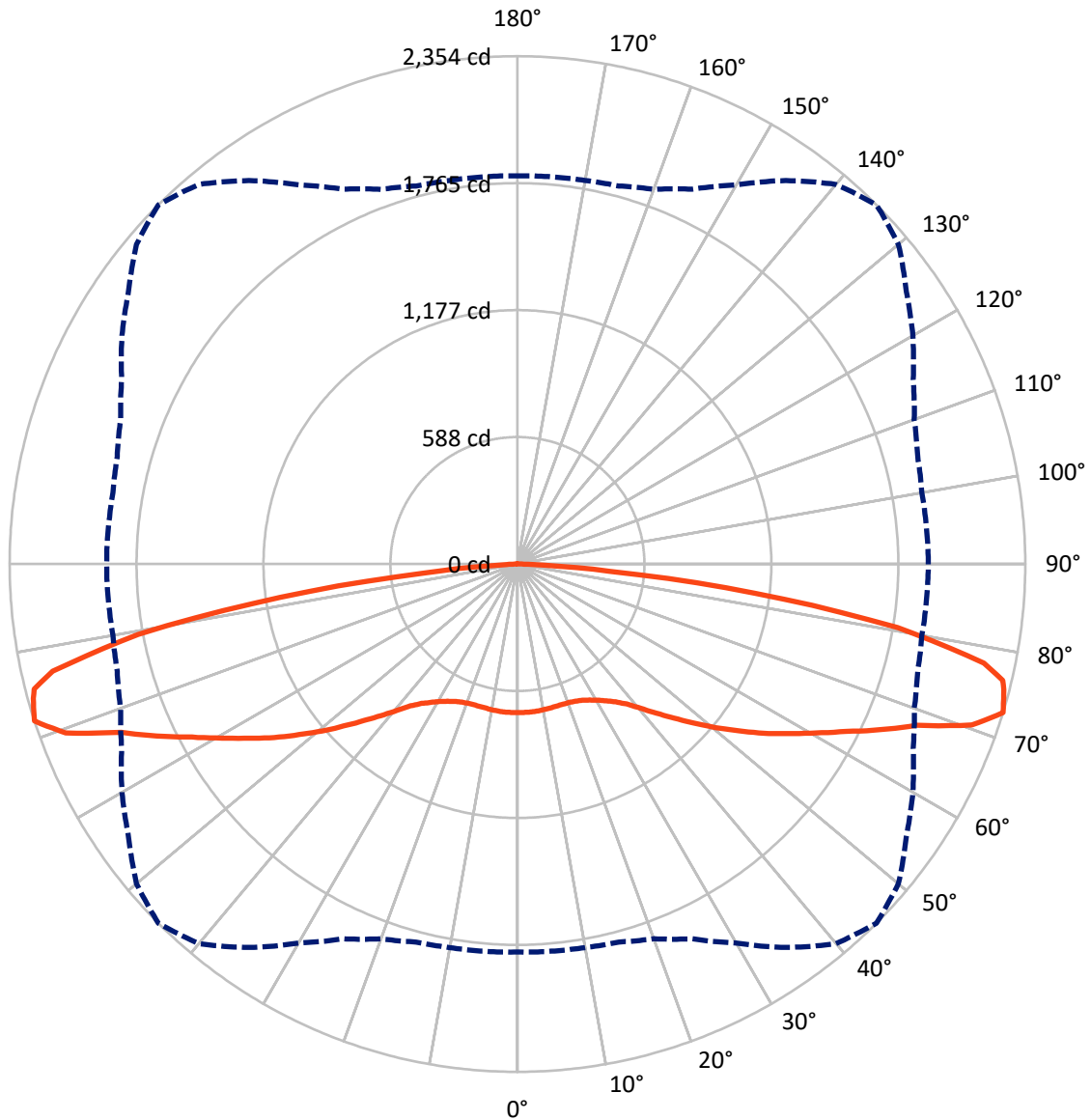


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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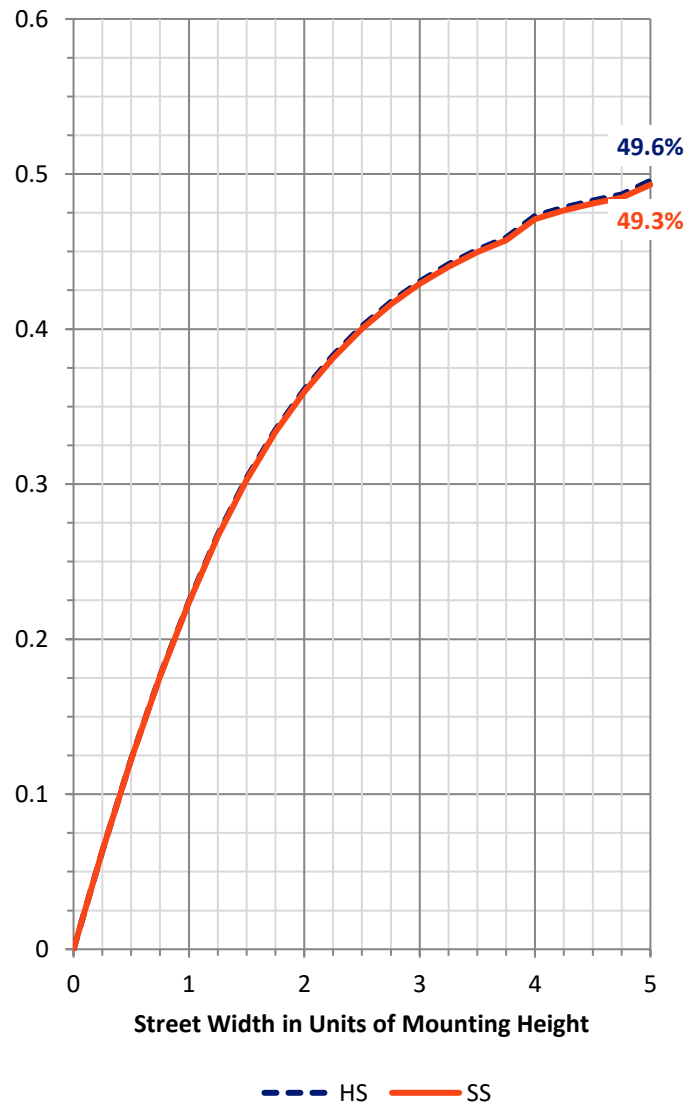
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3575.1	1.8	3576.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3575.1	1.8	3576.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7150.2	3.6	7153.9
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	0.9
10°-20°	194.0	2.7
20°-30°	324.5	4.5
30°-40°	493.2	6.9
40°-50°	781.1	10.9
50°-60°	1194.8	16.7
60°-70°	1709.9	23.9
70°-80°	1956.5	27.3
80°-90°	430.6	6.0
90°-100°	0.4	0.0
100°-110°	0.8	0.0
110°-120°	0.5	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7150.2	99.9
0°-180°	7153.9	100.0



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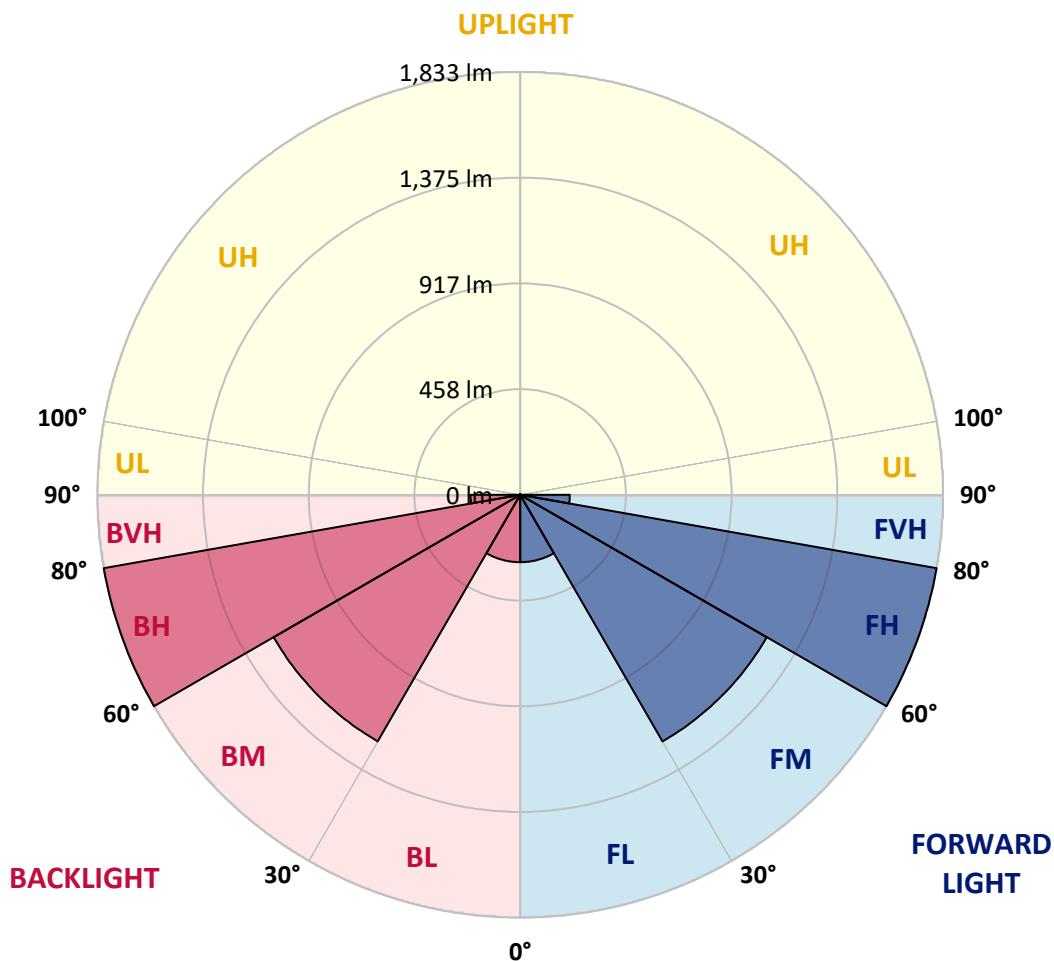
CATALOG NUMBER: VST-F03-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.1	4.1			
FM (30°-60°)	1234.5	17.3			
FH (60°-80°)	1833.2	25.6			G2/5000
FVH (80°-90°)	215.3	3.0			G2/225
BL (0°-30°)	292.1	4.1	B1/500		
BM (30°-60°)	1234.5	17.3	B2/2500		
BH (60°-80°)	1833.2	25.6	B3/2500		G2/5000
BVH (80°-90°)	215.3	3.0			G2/225
UL (90°-100°)	0.4	0.0		U1/10	
UH (100°-180°)	1.8	0.0		U1/10	

BUG Rating: B3-U1-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6
2.5°	689.0	688.1	688.6	689.5	689.0	689.0	688.6	688.6	689.5	688.6	689.0
5°	689.5	688.6	689.0	689.5	689.0	689.5	689.0	689.0	689.0	688.6	689.5
7.5°	687.7	687.7	688.1	688.1	687.7	688.1	688.1	688.1	687.7	687.7	688.6
10°	686.8	686.3	686.3	686.8	686.3	686.3	686.8	686.8	685.9	685.9	686.8
12.5°	685.4	684.9	684.9	684.9	684.5	684.5	684.9	684.9	684.5	684.0	685.4
15°	684.5	684.0	684.0	684.0	683.1	683.6	683.6	683.6	683.1	682.7	684.0
17.5°	684.0	683.6	683.6	683.6	683.1	683.1	683.1	683.1	682.7	682.7	683.6
20°	684.9	684.9	684.9	684.9	684.5	684.5	684.5	684.9	684.9	684.9	685.9
22.5°	687.2	687.2	687.7	688.1	688.1	689.0	689.5	689.9	689.9	690.4	691.3
25°	693.1	693.1	693.5	694.0	695.3	696.2	698.0	698.9	699.4	699.4	699.8
27.5°	703.9	704.4	705.3	706.2	708.0	709.4	711.2	713.0	713.4	713.9	714.4
30°	717.5	718.0	719.8	720.7	722.9	725.6	727.9	729.7	731.1	732.0	731.5
32.5°	737.0	737.9	740.1	741.5	744.7	747.4	750.5	753.2	754.6	755.9	755.5
35°	764.1	766.4	768.6	770.0	773.2	775.4	779.5	782.2	784.9	784.0	784.4
37.5°	804.4	806.2	806.6	807.5	810.7	812.5	817.0	820.6	822.0	822.9	823.4
40°	858.7	858.7	860.9	859.1	863.2	863.6	869.0	874.0	875.4	879.0	876.3
42.5°	922.0	921.5	922.9	921.5	921.5	926.0	930.6	939.6	940.6	945.1	942.4
45°	990.7	990.7	989.4	989.8	990.7	995.7	1001.2	1011.1	1015.6	1018.3	1016.5
47.5°	1065.4	1063.6	1063.1	1062.7	1065.4	1070.8	1079.0	1088.5	1099.8	1100.7	1099.8
50°	1141.0	1140.5	1137.3	1140.1	1141.9	1144.6	1159.9	1172.6	1184.4	1191.6	1189.3
52.5°	1220.6	1216.5	1216.5	1216.5	1221.0	1229.6	1243.2	1260.4	1276.2	1283.9	1282.6
55°	1301.1	1299.7	1295.6	1293.8	1299.7	1312.0	1331.4	1352.2	1373.0	1384.8	1380.2
57.5°	1374.8	1372.6	1373.0	1373.5	1380.2	1396.6	1419.2	1446.8	1469.4	1482.1	1478.9
60°	1432.7	1430.0	1435.0	1436.3	1448.6	1475.7	1511.9	1546.7	1576.6	1589.3	1584.3
62.5°	1498.3	1496.5	1499.7	1499.2	1512.4	1542.7	1591.1	1646.7	1691.9	1708.3	1701.0
65°	1604.2	1598.8	1597.4	1592.5	1601.0	1624.6	1673.0	1737.7	1810.0	1851.7	1841.7
67.5°	1730.9	1729.5	1725.0	1722.3	1725.4	1754.8	1801.4	1863.9	1937.6	1995.1	2007.7
70°	1814.6	1816.4	1820.9	1827.7	1853.9	1910.9	1996.0	2090.5	2191.9	2234.8	2227.1
72.5°	1798.7	1801.4	1805.0	1813.7	1848.1	1916.3	2028.5	2169.7	2296.8	2353.8	2305.0
75°	1721.3	1723.6	1731.8	1744.9	1787.0	1869.8	1990.6	2140.3	2271.5	2328.5	2277.4
76°	1649.9	1657.1	1672.1	1687.4	1738.1	1828.1	1957.1	2116.7	2255.6	2313.5	2264.2
77.5°	1487.9	1494.2	1506.5	1533.2	1590.6	1706.0	1856.6	2013.6	2158.4	2210.4	2168.8
80°	1119.7	1125.1	1136.4	1168.6	1218.3	1289.8	1406.5	1559.9	1718.6	1787.0	1759.8
82.5°	472.7	479.1	523.9	570.5	625.2	702.6	778.6	914.3	1031.0	1108.8	1067.2
85°	52.0	64.3	79.1	107.7	132.1	176.0	218.9	301.3	380.9	429.3	379.6
87.5°	9.1	10.4	14.9	19.0	21.2	24.4	29.4	41.2	56.1	48.4	49.3
90°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
97.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
102.5°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
105°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.5	0.5	0.5	0.9	0.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
125°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
127.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
130°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
135°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
137.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
140°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.5
147.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.0	0.0	0.0
152.5°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0
155°	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.5
157.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0	0.0
160°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0	0.0
162.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0	0.0
165°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.0	0.0	0.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6
2.5°	688.6	688.6	689.5	689.0	689.0	689.5	690.4	689.9
5°	689.0	689.5	688.6	689.0	689.5	689.5	689.9	689.5
7.5°	688.1	688.1	688.1	688.6	689.0	688.6	689.0	689.0
10°	686.3	686.8	686.3	687.2	687.7	687.7	688.1	688.1
12.5°	684.9	684.9	684.9	685.9	686.3	686.3	686.8	686.3
15°	683.6	683.6	683.1	684.0	684.9	684.9	685.4	685.4
17.5°	683.1	683.1	682.7	683.6	684.5	684.5	684.9	684.9
20°	684.5	684.9	684.0	684.9	685.9	686.3	686.3	686.3
22.5°	689.9	689.5	688.1	688.6	689.0	689.0	689.0	689.0
25°	698.0	697.1	695.8	695.3	694.9	694.4	694.4	694.4
27.5°	712.1	710.7	708.5	708.0	707.5	706.6	706.6	706.6
30°	728.8	727.0	724.3	723.4	722.0	721.1	720.7	720.2
32.5°	752.8	749.2	746.0	743.8	742.4	739.7	739.2	738.3
35°	780.4	777.7	773.2	771.8	769.5	768.2	767.7	765.5
37.5°	818.4	815.2	811.1	810.2	809.8	808.4	808.4	808.0
40°	871.3	868.1	864.5	860.9	861.8	862.3	862.3	860.5
42.5°	936.0	931.0	923.8	926.0	924.7	922.9	926.5	924.2
45°	1009.7	1003.0	997.6	995.3	995.3	993.0	996.6	996.6
47.5°	1091.6	1080.8	1070.8	1071.3	1067.6	1068.5	1070.8	1074.0
50°	1178.0	1163.6	1154.0	1149.5	1145.9	1147.3	1151.3	1152.2
52.5°	1267.6	1250.0	1237.3	1230.5	1226.0	1227.8	1231.0	1233.7
55°	1360.8	1341.4	1322.3	1315.1	1309.7	1313.3	1313.8	1317.4
57.5°	1458.1	1431.4	1409.2	1398.4	1392.9	1396.6	1399.3	1402.9
60°	1556.2	1525.5	1499.2	1486.6	1478.9	1483.9	1490.2	1492.0
62.5°	1670.2	1627.7	1598.3	1580.2	1576.6	1581.6	1583.4	1588.8
65°	1805.0	1753.9	1713.2	1691.0	1690.1	1692.8	1696.9	1698.3
67.5°	1958.9	1901.9	1847.2	1825.0	1816.4	1824.5	1828.6	1834.0
70°	2176.0	2097.8	2018.6	1969.3	1948.4	1942.1	1943.9	1949.8
72.5°	2200.4	2116.3	2024.0	1957.1	1920.4	1903.7	1903.3	1904.2
75°	2147.1	2012.7	1947.5	1870.7	1818.7	1791.5	1787.9	1787.4
76°	2120.4	1961.6	1867.5	1806.4	1744.0	1716.4	1712.3	1710.1
77.5°	2007.7	1837.2	1695.6	1658.5	1598.8	1564.0	1571.2	1565.3
80°	1609.6	1440.4	1307.0	1202.5	1205.6	1180.3	1169.9	1166.7
82.5°	948.7	809.8	662.3	575.9	493.6	471.8	406.3	391.3
85°	303.1	214.9	130.3	94.6	64.3	53.8	42.1	38.5
87.5°	40.3	31.7	25.8	24.9	22.6	19.4	12.7	9.1
90°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5
105°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
117.5°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
120°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
122.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
125°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
127.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
130°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
132.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
135°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
137.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
140°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
142.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
145°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
147.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
150°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
152.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
155°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
157.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
160°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
162.5°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
165°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)