

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: P157764

Luminaire Tested: **VST-F02-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157764
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-F02-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4769.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G2

Input Watts (W): 55
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

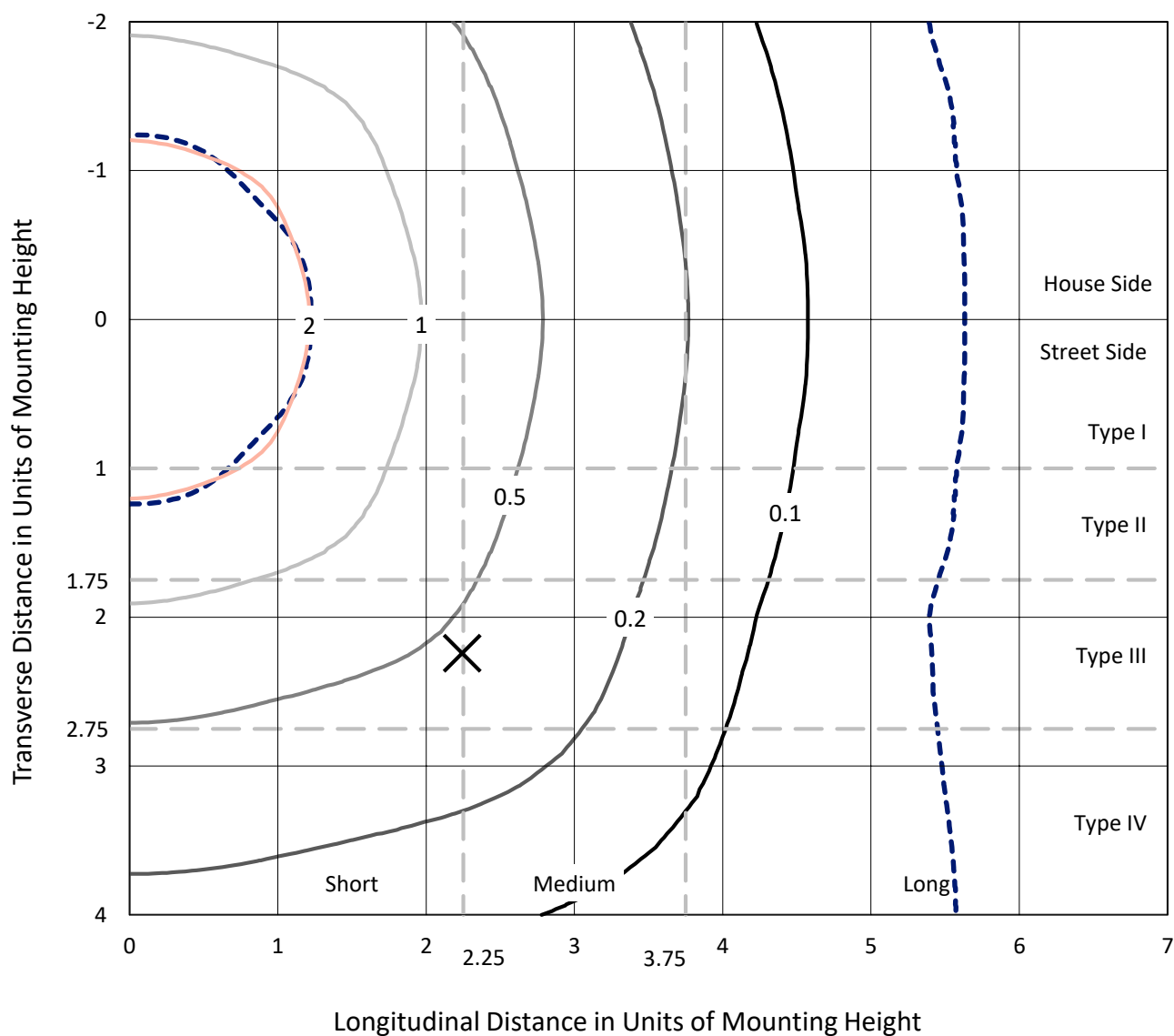


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

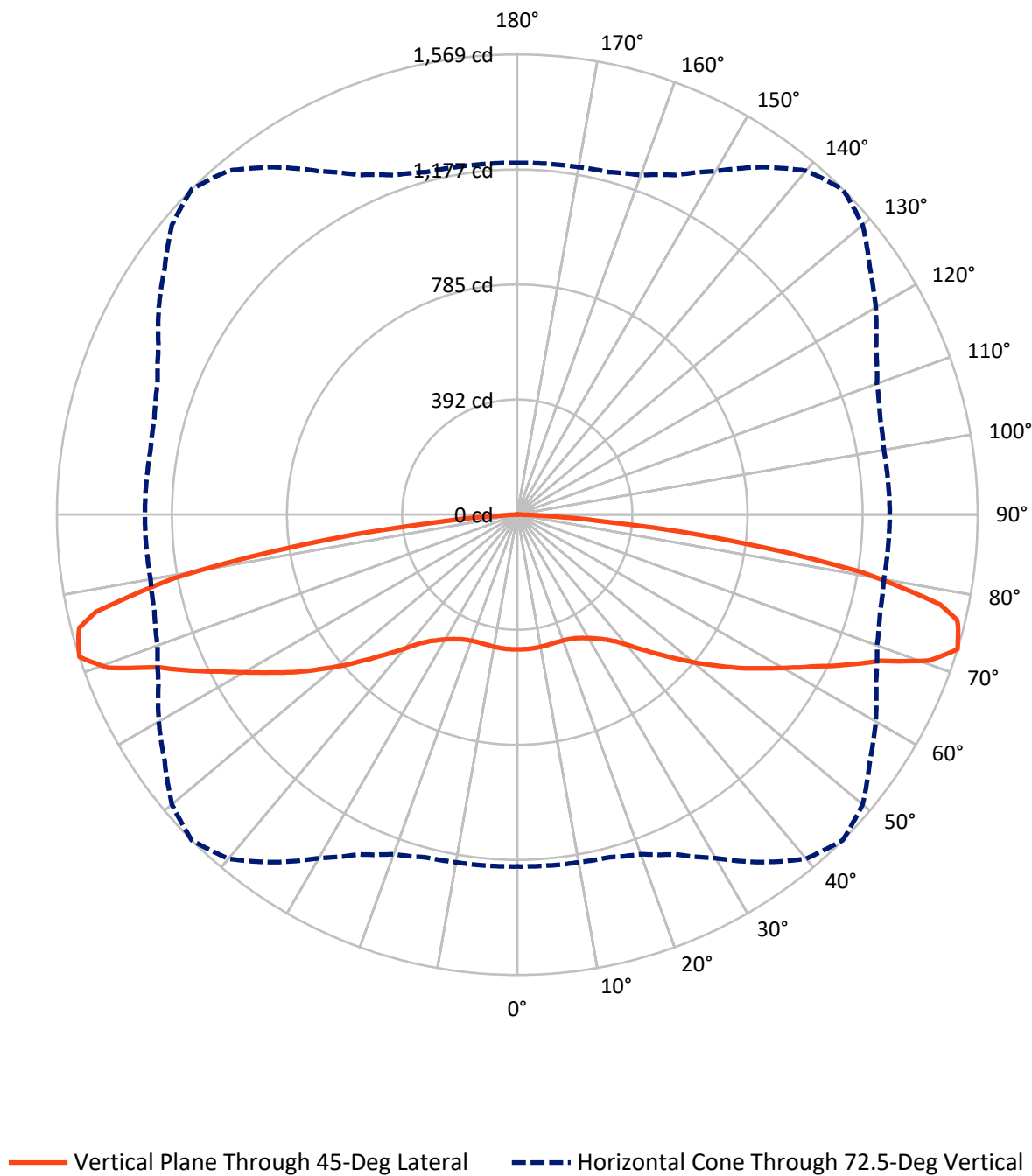


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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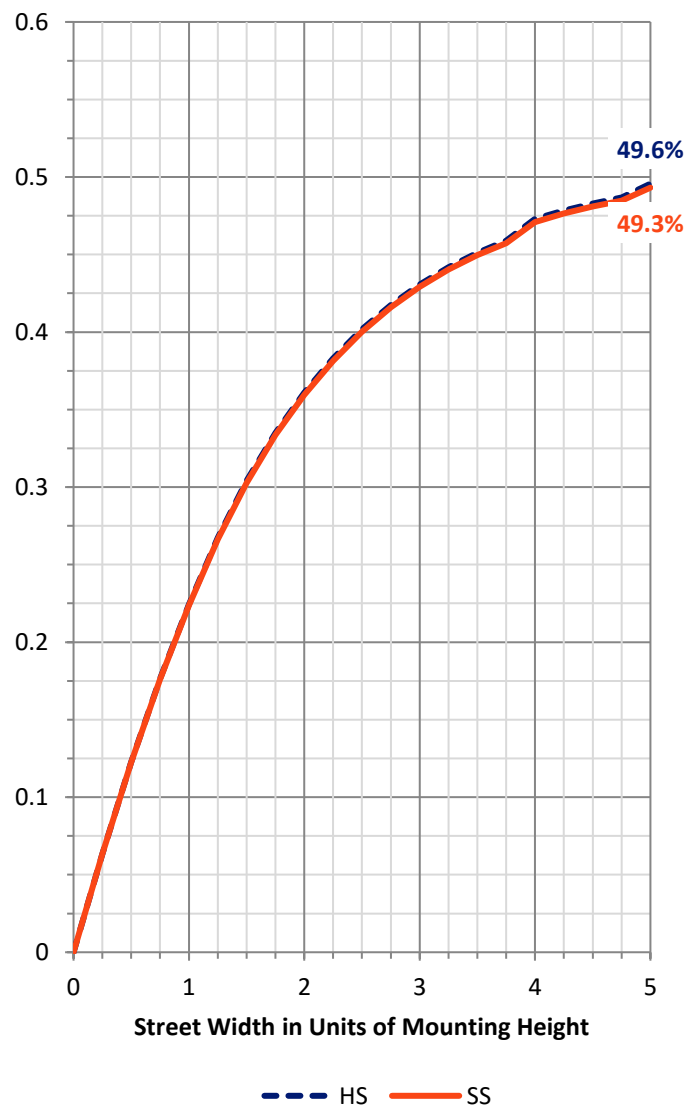
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.4	1.2	2384.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2383.4	1.2	2384.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4766.8	2.3	4769.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	0.9
10°-20°	129.3	2.7
20°-30°	216.3	4.5
30°-40°	328.8	6.9
40°-50°	520.7	10.9
50°-60°	796.5	16.7
60°-70°	1139.9	23.9
70°-80°	1304.3	27.3
80°-90°	287.1	6.0
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4766.8	100.0
0°-180°	4769.1	100.0

Coefficient of Utilization



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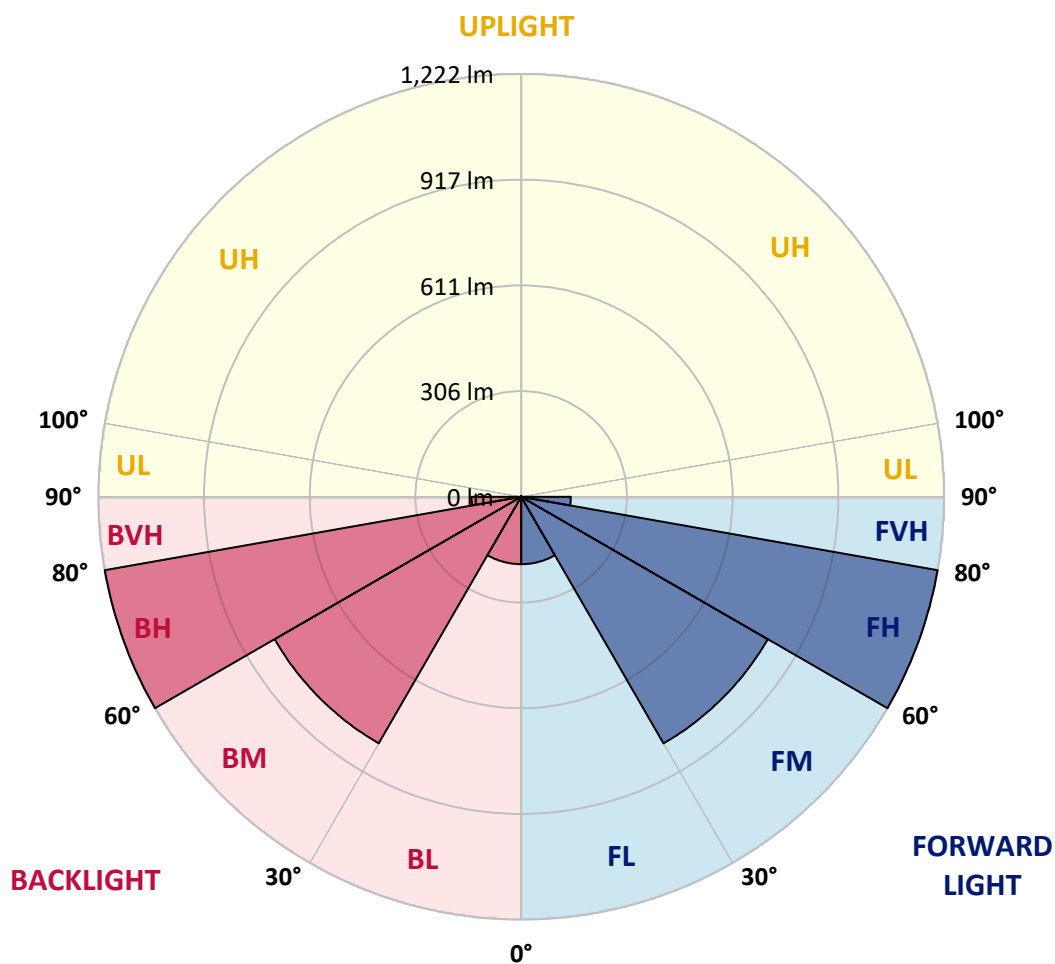
CATALOG NUMBER: VST-F02-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	194.7	4.1			
FM	(30°-60°)	823.0	17.3			
FH	(60°-80°)	1222.1	25.6			G1/1800
FVH	(80°-90°)	143.5	3.0			G2/225
BL	(0°-30°)	194.7	4.1	B1/500		
BM	(30°-60°)	823.0	17.3	B1/1000		
BH	(60°-80°)	1222.1	25.6	B3/2500		G1/1800
BVH	(80°-90°)	143.5	3.0			G2/225
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	1.2	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°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	459.4	458.7	459.1	459.7	459.4	459.4	459.1	459.1	459.7	459.1	459.4
5°	459.7	459.1	459.4	459.7	459.4	459.7	459.4	459.4	459.4	459.1	459.7
7.5°	458.4	458.4	458.7	458.7	458.4	458.7	458.7	458.7	458.4	458.4	459.1
10°	457.8	457.5	457.5	457.8	457.5	457.5	457.8	457.8	457.2	457.2	457.8
12.5°	456.9	456.6	456.6	456.6	456.3	456.3	456.6	456.6	456.3	456.0	456.9
15°	456.3	456.0	456.0	456.0	455.4	455.7	455.7	455.7	455.4	455.1	456.0
17.5°	456.0	455.7	455.7	455.7	455.4	455.4	455.4	455.4	455.1	455.1	455.7
20°	456.6	456.6	456.6	456.6	456.3	456.3	456.3	456.6	456.6	456.6	457.2
22.5°	458.1	458.1	458.4	458.7	458.7	459.4	459.7	460.0	460.0	460.3	460.9
25°	462.1	462.1	462.4	462.7	463.6	464.2	465.4	466.0	466.3	466.3	466.6
27.5°	469.3	469.6	470.2	470.8	472.0	472.9	474.1	475.3	475.6	475.9	476.2
30°	478.3	478.6	479.8	480.4	482.0	483.8	485.3	486.5	487.4	488.0	487.7
32.5°	491.3	491.9	493.4	494.3	496.4	498.2	500.3	502.1	503.0	503.9	503.6
35°	509.4	510.9	512.4	513.3	515.4	517.0	519.7	521.5	523.3	522.7	523.0
37.5°	536.2	537.4	537.7	538.4	540.5	541.7	544.7	547.1	548.0	548.6	548.9
40°	572.5	572.5	574.0	572.8	575.5	575.8	579.4	582.7	583.6	586.0	584.2
42.5°	614.6	614.3	615.2	614.3	614.3	617.3	620.4	626.4	627.0	630.1	628.2
45°	660.5	660.5	659.6	659.9	660.5	663.8	667.4	674.1	677.1	678.9	677.7
47.5°	710.3	709.1	708.8	708.5	710.3	713.9	719.3	725.6	733.2	733.8	733.2
50°	760.6	760.3	758.2	760.0	761.2	763.0	773.3	781.7	789.6	794.4	792.9
52.5°	813.7	811.0	811.0	811.0	814.0	819.7	828.8	840.2	850.8	856.0	855.0
55°	867.4	866.5	863.8	862.6	866.5	874.6	887.6	901.5	915.4	923.2	920.2
57.5°	916.6	915.1	915.4	915.7	920.2	931.0	946.1	964.5	979.6	988.0	985.9
60°	955.1	953.3	956.6	957.6	965.7	983.8	1007.9	1031.2	1051.1	1059.5	1056.2
62.5°	998.9	997.7	999.8	999.5	1008.2	1028.5	1060.7	1097.8	1128.0	1138.9	1134.0
65°	1069.4	1065.8	1064.9	1061.6	1067.3	1083.1	1115.3	1158.4	1206.7	1234.4	1227.8
67.5°	1153.9	1153.0	1150.0	1148.2	1150.3	1169.9	1201.0	1242.6	1291.7	1330.0	1338.5
70°	1209.7	1210.9	1213.9	1218.5	1235.9	1273.9	1330.6	1393.7	1461.2	1489.9	1484.8
72.5°	1199.2	1201.0	1203.4	1209.1	1232.0	1277.6	1352.3	1446.5	1531.2	1569.2	1536.7
75°	1147.6	1149.1	1154.5	1163.3	1191.3	1246.5	1327.0	1426.9	1514.3	1552.3	1518.2
76°	1099.9	1104.8	1114.7	1124.9	1158.7	1218.8	1304.7	1411.2	1503.8	1542.4	1509.5
77.5°	992.0	996.2	1004.3	1022.1	1060.4	1137.3	1237.7	1342.4	1438.9	1473.6	1445.9
80°	746.5	750.1	757.6	779.0	812.2	859.9	937.7	1039.9	1145.8	1191.3	1173.2
82.5°	315.2	319.4	349.3	380.3	416.8	468.4	519.1	609.5	687.4	739.2	711.5
85°	34.7	42.8	52.8	71.8	88.1	117.3	146.0	200.9	253.9	286.2	253.0
87.5°	6.1	7.0	10.0	12.7	14.2	16.3	19.6	27.4	37.4	32.3	32.9
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
97.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
102.5°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6
105°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
107.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.3	0.3	0.3	0.6	0.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
117.5°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
122.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
137.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.3
147.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0
155°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.3
157.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
165°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	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°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	459.1	459.1	459.7	459.4	459.4	459.7	460.3	460.0
5°	459.4	459.7	459.1	459.4	459.7	459.7	460.0	459.7
7.5°	458.7	458.7	458.7	459.1	459.4	459.1	459.4	459.4
10°	457.5	457.8	457.5	458.1	458.4	458.4	458.7	458.7
12.5°	456.6	456.6	456.6	457.2	457.5	457.5	457.8	457.5
15°	455.7	455.7	455.4	456.0	456.6	456.6	456.9	456.9
17.5°	455.4	455.4	455.1	455.7	456.3	456.3	456.6	456.6
20°	456.3	456.6	456.0	456.6	457.2	457.5	457.5	457.5
22.5°	460.0	459.7	458.7	459.1	459.4	459.4	459.4	459.4
25°	465.4	464.8	463.9	463.6	463.3	463.0	463.0	463.0
27.5°	474.7	473.8	472.3	472.0	471.7	471.1	471.1	471.1
30°	485.9	484.7	482.9	482.3	481.3	480.7	480.4	480.1
32.5°	501.8	499.4	497.3	495.8	494.9	493.1	492.8	492.2
35°	520.3	518.5	515.4	514.5	513.0	512.1	511.8	510.3
37.5°	545.6	543.5	540.8	540.2	539.9	539.0	539.0	538.7
40°	580.9	578.8	576.4	574.0	574.6	574.9	574.9	573.7
42.5°	624.0	620.7	615.8	617.3	616.4	615.2	617.7	616.1
45°	673.1	668.6	665.0	663.5	663.5	662.0	664.4	664.4
47.5°	727.7	720.5	713.9	714.2	711.8	712.4	713.9	716.0
50°	785.3	775.7	769.4	766.4	763.9	764.9	767.6	768.2
52.5°	845.1	833.3	824.9	820.3	817.3	818.5	820.6	822.5
55°	907.2	894.2	881.6	876.7	873.1	875.5	875.8	878.3
57.5°	972.1	954.2	939.5	932.2	928.6	931.0	932.8	935.3
60°	1037.5	1017.0	999.5	991.0	985.9	989.2	993.5	994.7
62.5°	1113.5	1085.2	1065.5	1053.5	1051.1	1054.4	1055.6	1059.2
65°	1203.4	1169.3	1142.2	1127.4	1126.7	1128.6	1131.3	1132.2
67.5°	1305.9	1267.9	1231.4	1216.6	1210.9	1216.3	1219.1	1222.7
70°	1450.7	1398.5	1345.7	1312.9	1299.0	1294.7	1295.9	1299.9
72.5°	1466.9	1410.9	1349.3	1304.7	1280.3	1269.1	1268.8	1269.4
75°	1431.4	1341.8	1298.4	1247.1	1212.4	1194.3	1191.9	1191.6
76°	1413.6	1307.7	1245.0	1204.3	1162.7	1144.3	1141.6	1140.1
77.5°	1338.5	1224.8	1130.4	1105.7	1065.8	1042.6	1047.4	1043.5
80°	1073.1	960.3	871.3	801.7	803.8	786.8	779.9	777.8
82.5°	632.5	539.9	441.5	383.9	329.0	314.6	270.8	260.9
85°	202.1	143.3	86.9	63.1	42.8	35.9	28.0	25.6
87.5°	26.8	21.1	17.2	16.6	15.1	13.0	8.5	6.1
90°	0.3	0.3	0.3	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°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
97.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
105°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
107.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
117.5°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
120°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
122.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
125°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
127.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
130°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
132.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
135°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
137.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
140°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
142.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
145°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
147.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
150°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
152.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
155°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
157.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
160°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
162.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
165°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
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)