

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: P157763

Luminaire Tested: **VST-F02-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157763
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406.9 lumens
Efficiency: N/A
Efficacy: 80.1 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

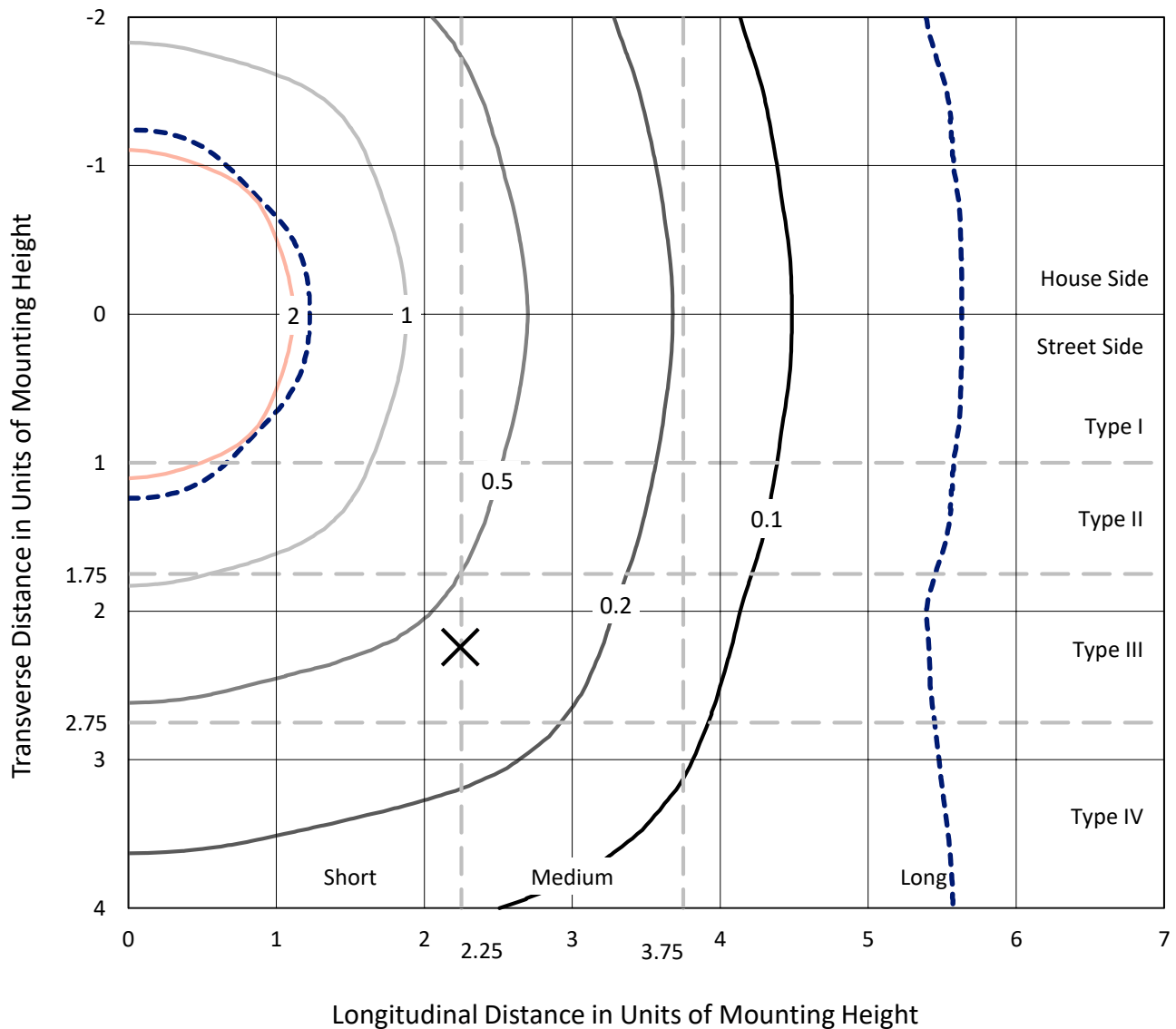


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

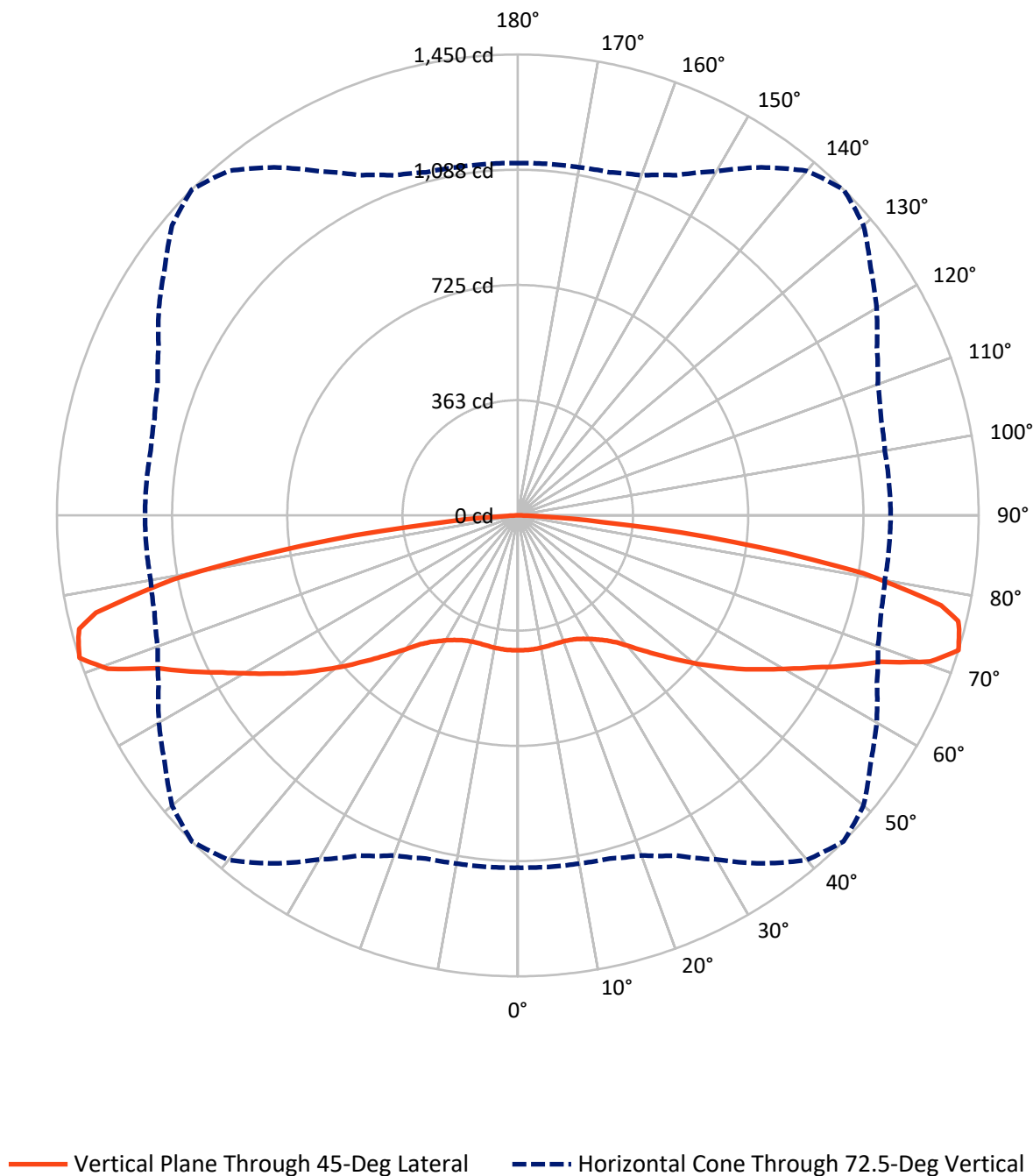


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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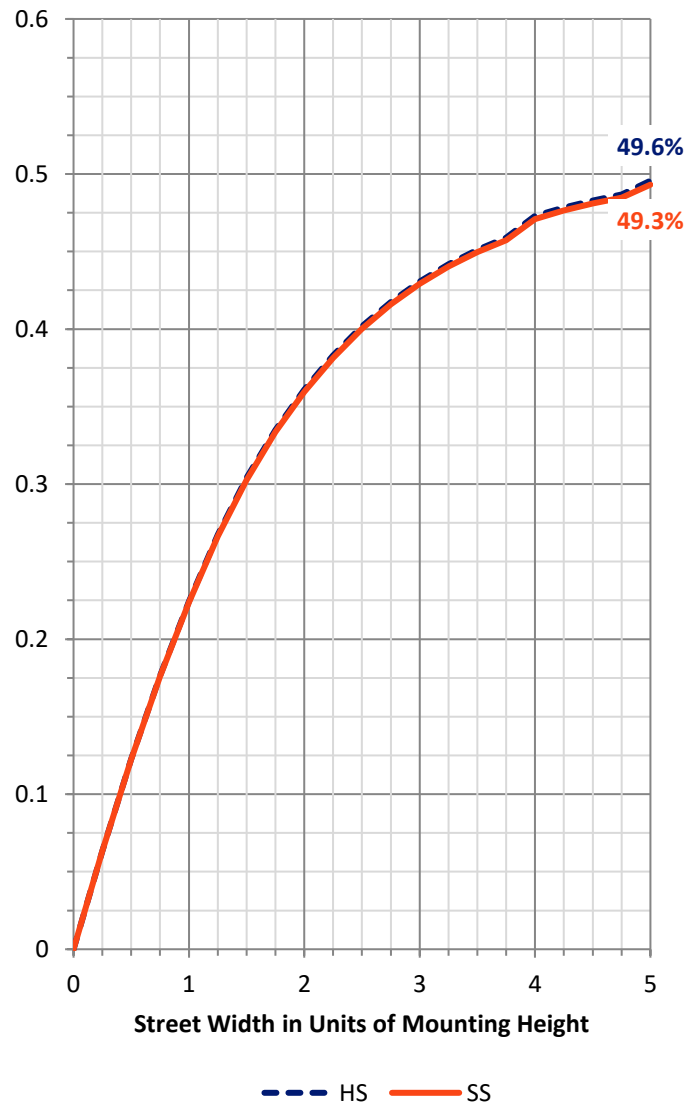
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.4	1.1	2203.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2202.4	1.1	2203.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4404.8	2.1	4406.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	0.9
10°-20°	119.5	2.7
20°-30°	199.9	4.5
30°-40°	303.8	6.9
40°-50°	481.2	10.9
50°-60°	736.0	16.7
60°-70°	1053.4	23.9
70°-80°	1205.3	27.4
80°-90°	265.3	6.0
90°-100°	0.2	0.0
100°-110°	0.4	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4404.8	100.0
0°-180°	4406.9	100.0

Coefficient of Utilization



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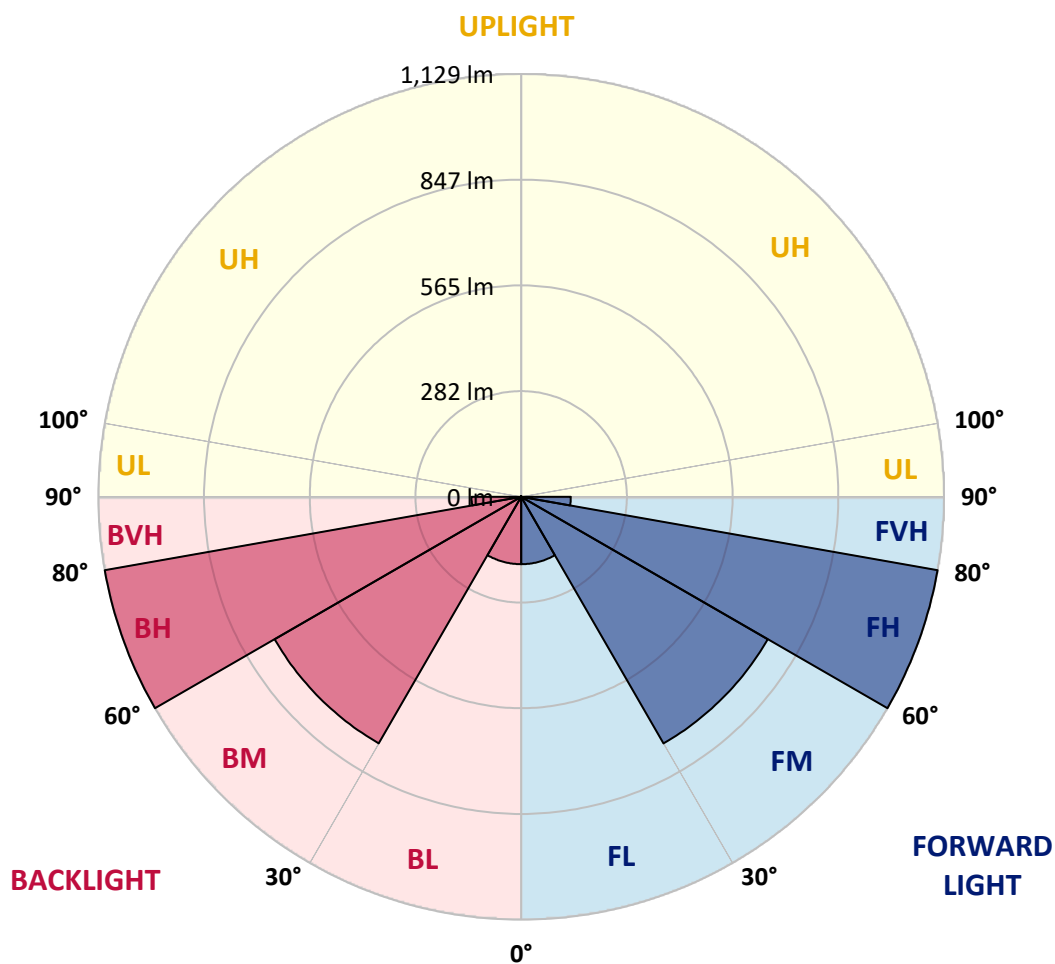
CATALOG NUMBER: VST-F02-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.9	4.1			
FM	(30°-60°)	760.5	17.3			
FH	(60°-80°)	1129.3	25.6			G1/1800
FVH	(80°-90°)	132.6	3.0			G2/225
BL	(0°-30°)	179.9	4.1	B1/500		
BM	(30°-60°)	760.5	17.3	B1/1000		
BH	(60°-80°)	1129.3	25.6	B3/2500		G1/1800
BVH	(80°-90°)	132.6	3.0			G2/225
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	1.1	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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	424.4	423.9	424.2	424.7	424.4	424.4	424.2	424.2	424.7	424.2	424.4
5°	424.7	424.2	424.4	424.7	424.4	424.7	424.4	424.4	424.4	424.2	424.7
7.5°	423.6	423.6	423.9	423.9	423.6	423.9	423.9	423.9	423.6	423.6	424.2
10°	423.1	422.8	422.8	423.1	422.8	422.8	423.1	423.1	422.5	422.5	423.1
12.5°	422.2	421.9	421.9	421.9	421.7	421.7	421.9	421.9	421.7	421.4	422.2
15°	421.7	421.4	421.4	421.4	420.8	421.1	421.1	421.1	420.8	420.5	421.4
17.5°	421.4	421.1	421.1	421.1	420.8	420.8	420.8	420.8	420.5	420.5	421.1
20°	421.9	421.9	421.9	421.9	421.7	421.7	421.7	421.9	421.9	421.9	422.5
22.5°	423.4	423.4	423.6	423.9	423.9	424.4	424.7	425.0	425.0	425.3	425.8
25°	427.0	427.0	427.3	427.5	428.3	428.9	430.0	430.6	430.9	430.9	431.2
27.5°	433.6	433.9	434.5	435.1	436.1	437.0	438.1	439.2	439.5	439.8	440.0
30°	442.0	442.3	443.4	443.9	445.4	447.0	448.4	449.5	450.4	450.9	450.7
32.5°	454.0	454.6	455.9	456.8	458.8	460.4	462.4	464.0	464.9	465.7	465.4
35°	470.7	472.1	473.5	474.4	476.3	477.7	480.2	481.9	483.5	483.0	483.2
37.5°	495.5	496.6	496.9	497.5	499.4	500.5	503.3	505.6	506.4	506.9	507.2
40°	529.0	529.0	530.3	529.3	531.7	532.0	535.4	538.4	539.3	541.5	539.8
42.5°	568.0	567.7	568.6	567.7	567.7	570.5	573.3	578.8	579.4	582.2	580.5
45°	610.3	610.3	609.5	609.8	610.3	613.4	616.7	622.9	625.7	627.4	626.2
47.5°	656.3	655.2	655.0	654.7	656.3	659.6	664.7	670.6	677.5	678.1	677.5
50°	702.8	702.6	700.6	702.3	703.4	705.1	714.6	722.4	729.6	734.1	732.7
52.5°	751.9	749.4	749.4	749.4	752.2	757.5	765.8	776.5	786.2	790.9	790.1
55°	801.5	800.7	798.2	797.0	800.7	808.2	820.2	833.0	845.8	853.1	850.3
57.5°	847.0	845.6	845.8	846.1	850.3	860.3	874.3	891.2	905.2	913.0	911.0
60°	882.6	881.0	884.0	884.9	892.4	909.1	931.4	952.9	971.2	979.1	976.0
62.5°	923.0	921.9	923.9	923.6	931.7	950.3	980.2	1014.4	1042.3	1052.3	1047.9
65°	988.3	984.9	984.1	981.0	986.3	1000.8	1030.6	1070.5	1115.0	1140.7	1134.5
67.5°	1066.3	1065.4	1062.7	1061.0	1063.0	1081.1	1109.8	1148.2	1193.6	1229.0	1236.8
70°	1117.9	1118.9	1121.8	1125.9	1142.1	1177.2	1229.6	1287.8	1350.3	1376.8	1372.0
72.5°	1108.1	1109.8	1112.0	1117.3	1138.4	1180.6	1249.7	1336.6	1414.9	1450.0	1420.0
75°	1060.4	1061.8	1066.9	1074.9	1100.8	1151.8	1226.3	1318.5	1399.3	1434.4	1402.9
76°	1016.4	1020.8	1030.1	1039.5	1070.8	1126.2	1205.6	1304.0	1389.5	1425.2	1394.9
77.5°	916.6	920.5	928.1	944.5	979.9	1051.0	1143.8	1240.4	1329.7	1361.7	1336.1
80°	689.8	693.1	700.1	719.9	750.5	794.6	866.5	961.0	1058.8	1100.8	1084.1
82.5°	291.2	295.1	322.7	351.4	385.1	432.8	479.6	563.2	635.2	683.1	657.4
85°	32.0	39.6	48.8	66.3	81.4	108.4	134.9	185.6	234.7	264.5	233.8
87.5°	5.6	6.4	9.2	11.7	13.1	15.1	18.1	25.4	34.6	29.8	30.4
90°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5
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	0.5	0.5	0.5
102.5°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
105°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.5	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°	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
122.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
137.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.3
147.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.0	0.0	0.0
152.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0
155°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.3
157.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
160°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
162.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
165°	0.5	0.5	0.5	0.5	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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	424.2	424.2	424.7	424.4	424.4	424.7	425.3	425.0
5°	424.4	424.7	424.2	424.4	424.7	424.7	425.0	424.7
7.5°	423.9	423.9	423.9	424.2	424.4	424.2	424.4	424.4
10°	422.8	423.1	422.8	423.4	423.6	423.6	423.9	423.9
12.5°	421.9	421.9	421.9	422.5	422.8	422.8	423.1	422.8
15°	421.1	421.1	420.8	421.4	421.9	421.9	422.2	422.2
17.5°	420.8	420.8	420.5	421.1	421.7	421.7	421.9	421.9
20°	421.7	421.9	421.4	421.9	422.5	422.8	422.8	422.8
22.5°	425.0	424.7	423.9	424.2	424.4	424.4	424.4	424.4
25°	430.0	429.5	428.6	428.3	428.1	427.8	427.8	427.8
27.5°	438.7	437.8	436.4	436.1	435.9	435.3	435.3	435.3
30°	449.0	447.8	446.2	445.6	444.8	444.2	443.9	443.7
32.5°	463.7	461.5	459.5	458.2	457.3	455.6	455.4	454.8
35°	480.7	479.1	476.3	475.4	474.1	473.2	472.9	471.5
37.5°	504.2	502.2	499.7	499.1	498.8	498.0	498.0	497.8
40°	536.8	534.8	532.6	530.3	530.9	531.2	531.2	530.1
42.5°	576.6	573.5	569.1	570.5	569.6	568.6	570.8	569.4
45°	622.0	617.9	614.5	613.1	613.1	611.8	614.0	614.0
47.5°	672.5	665.8	659.6	659.9	657.7	658.3	659.6	661.6
50°	725.7	716.8	710.9	708.2	706.0	706.7	709.3	709.9
52.5°	780.9	770.0	762.2	758.0	755.3	756.4	758.3	760.0
55°	838.3	826.3	814.6	810.2	806.8	809.0	809.3	811.6
57.5°	898.3	881.8	868.1	861.4	858.1	860.3	862.0	864.2
60°	958.7	939.8	923.6	915.8	911.0	914.1	918.0	919.1
62.5°	1028.9	1002.7	984.6	973.5	971.2	974.3	975.4	978.8
65°	1112.0	1080.5	1055.4	1041.8	1041.2	1042.9	1045.4	1046.2
67.5°	1206.7	1171.6	1137.9	1124.3	1118.9	1124.0	1126.5	1129.8
70°	1340.5	1292.3	1243.6	1213.1	1200.4	1196.5	1197.5	1201.2
72.5°	1355.6	1303.7	1246.9	1205.6	1183.1	1172.8	1172.5	1173.0
75°	1322.7	1239.9	1199.8	1152.4	1120.4	1103.6	1101.4	1101.1
76°	1306.3	1208.4	1150.4	1112.8	1074.4	1057.4	1054.9	1053.5
77.5°	1236.8	1131.8	1044.5	1021.7	984.9	963.4	967.9	964.3
80°	991.6	887.3	805.1	740.8	742.7	727.1	720.7	718.7
82.5°	584.4	498.8	408.0	354.8	304.1	290.7	250.3	241.1
85°	186.7	132.4	80.3	58.3	39.6	33.2	25.9	23.7
87.5°	24.8	19.5	15.9	15.3	13.9	12.0	7.8	5.6
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°	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3
105°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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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	0.5	0.5	0.5
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
117.5°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
120°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
122.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
125°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
127.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
130°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
132.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
135°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
137.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
140°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
142.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
145°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
147.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
150°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
152.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
155°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
157.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
160°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
162.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
165°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
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)