

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: P416945

Luminaire Tested: **LXF.LXT-PA1-80-830-U-5WQ-CL**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-11)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-830-U-5WQ-CL
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7501.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

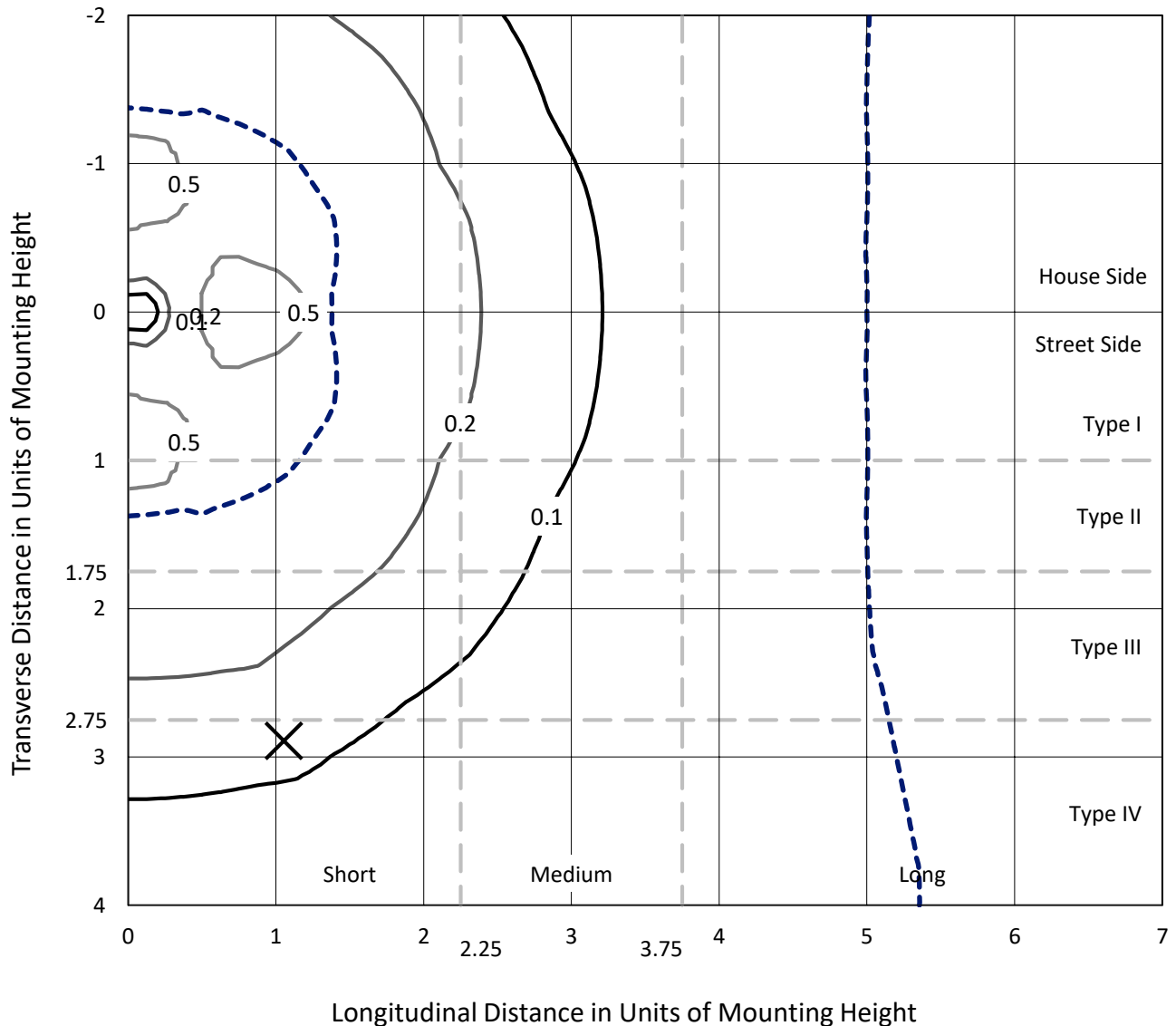
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

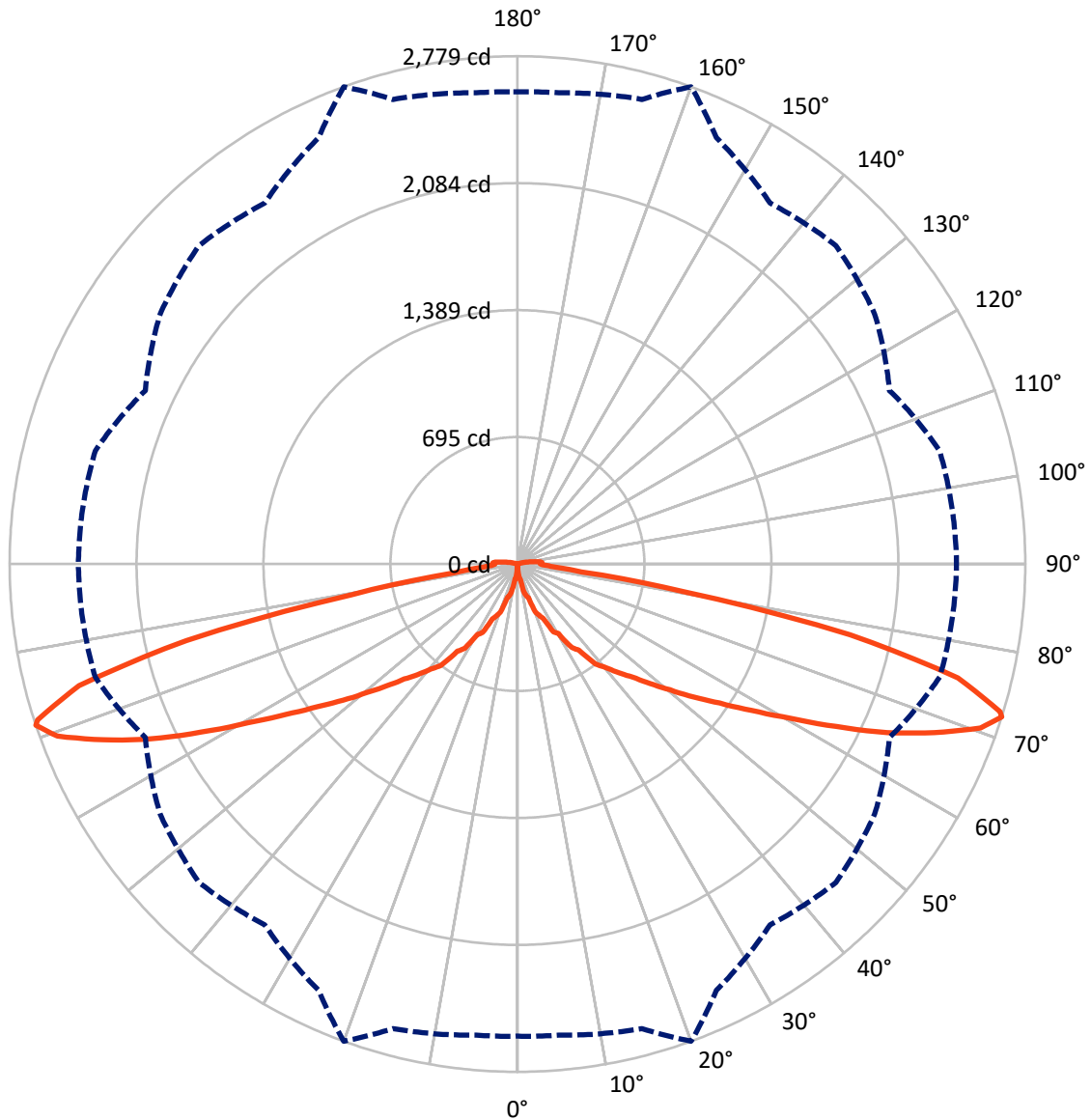
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 20-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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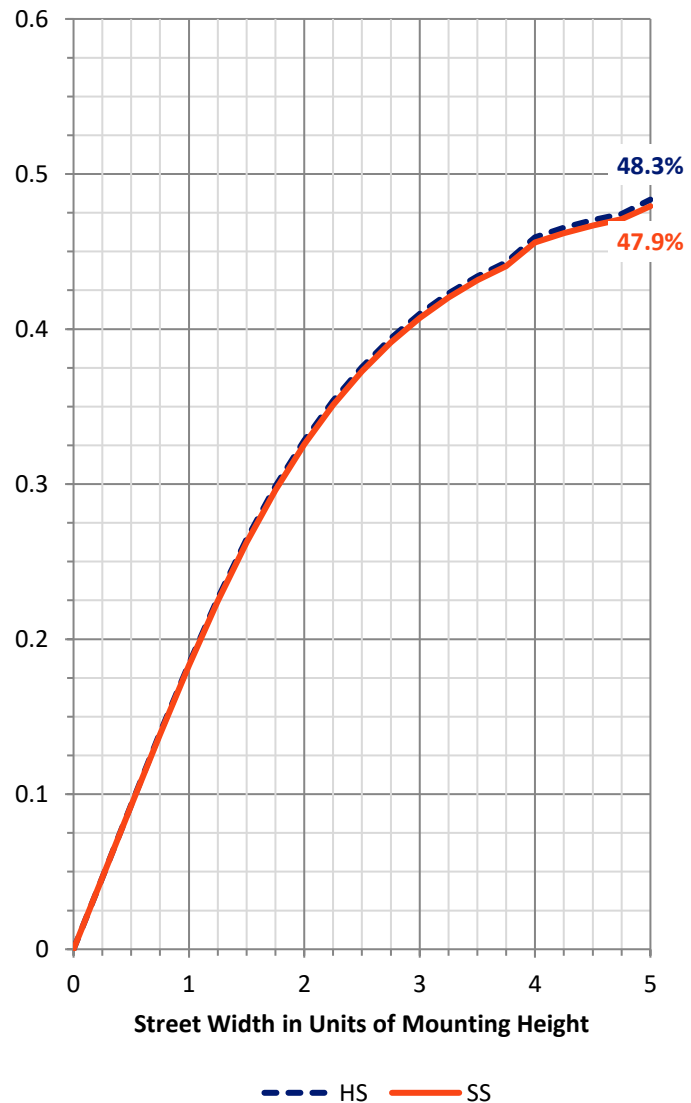
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3663.3	87.2	3750.5
	% Fixture	48.8	1.2	50.0
Street Side	Lumens	3663.3	87.2	3750.5
	% Fixture	48.8	1.2	50.0
Total	Lumens	7326.7	174.4	7501.1
	% Fixture	97.7	2.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.0
10°-20°	41.1	0.5
20°-30°	162.5	2.2
30°-40°	376.3	5.0
40°-50°	684.8	9.1
50°-60°	1214.2	16.2
60°-70°	2053.9	27.4
70°-80°	2282.2	30.4
80°-90°	508.8	6.8
90°-100°	141.6	1.9
100°-110°	20.9	0.3
110°-120°	4.9	0.1
120°-130°	3.0	0.0
130°-140°	1.9	0.0
140°-150°	1.6	0.0
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7326.7	97.7
0°-180°	7501.1	100.0



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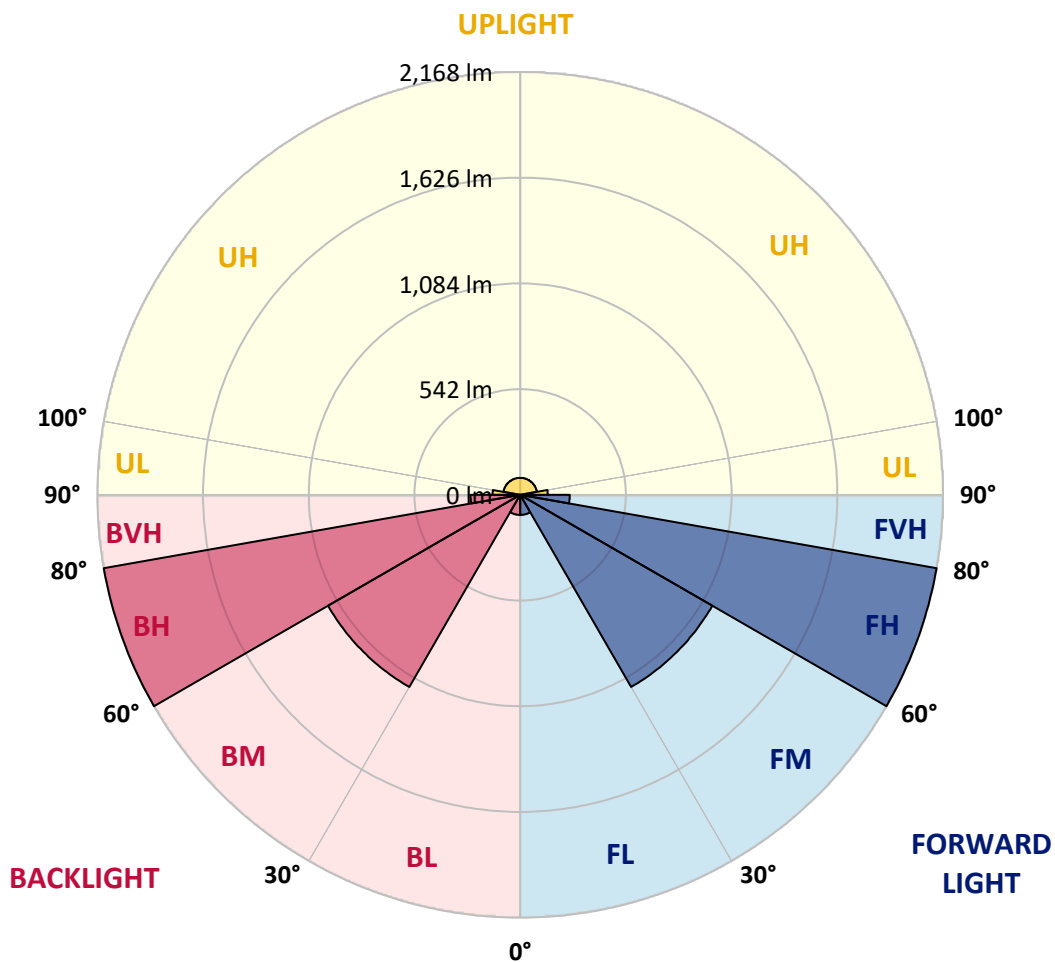
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.2	1.4			
FM	(30°-60°)	1137.6	15.2			
FH	(60°-80°)	2168.1	28.9			G2/5000
FVH	(80°-90°)	254.4	3.4			G3/500
BL	(0°-30°)	103.2	1.4	B0/110		
BM	(30°-60°)	1137.6	15.2	B2/2500		
BH	(60°-80°)	2168.1	28.9	B3/2500		G2/5000
BVH	(80°-90°)	254.4	3.4			G3/500
UL	(90°-100°)	141.6	1.9		U3/500	
UH	(100°-180°)	87.2	1.2		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
2.5°	4.0	4.0	4.0	4.8	3.2	4.0	3.2	3.2	3.2	3.2	3.2
5°	35.0	34.2	31.8	58.8	27.8	14.3	7.9	4.8	3.2	3.2	3.2
7.5°	74.7	73.9	71.5	78.7	59.6	45.3	35.8	23.8	6.4	4.0	4.0
10°	89.8	89.0	85.8	86.6	83.4	81.1	66.7	40.5	18.3	6.4	6.4
12.5°	134.3	133.5	127.9	155.7	108.1	89.8	83.4	70.7	39.7	31.8	62.0
15°	183.6	183.6	175.6	179.6	148.6	131.1	96.9	121.6	133.5	127.1	135.9
17.5°	204.2	203.4	195.5	193.9	185.9	170.8	167.7	176.4	171.6	152.6	153.4
20°	259.8	259.1	248.7	278.9	230.4	193.9	241.6	211.4	194.7	221.7	257.5
22.5°	312.3	311.5	303.6	305.1	278.9	285.3	263.8	244.7	289.2	299.6	309.1
25°	370.3	367.9	336.9	330.6	308.3	337.7	302.8	352.0	321.8	336.1	361.6
27.5°	434.7	431.5	416.4	421.2	378.2	365.5	386.2	375.9	395.7	457.7	471.2
30°	476.0	457.7	444.2	441.8	450.6	409.2	425.1	435.5	456.9	483.9	507.8
32.5°	572.1	568.2	516.5	544.3	492.7	487.9	454.5	489.5	489.5	594.4	665.9
35°	615.0	611.1	596.8	578.5	565.8	522.1	538.0	526.8	607.9	646.8	706.4
37.5°	763.6	759.7	684.2	693.7	616.6	592.0	575.3	618.2	650.0	690.5	759.7
40°	821.7	818.5	788.3	745.4	716.8	646.0	625.4	661.1	700.1	744.6	815.3
42.5°	890.8	888.4	852.6	812.9	784.3	723.9	701.7	704.8	752.5	818.5	887.6
45°	973.4	973.4	950.4	882.0	854.2	811.3	775.6	779.5	824.0	903.5	975.0
47.5°	1068.0	1066.4	1052.9	976.6	955.2	890.0	861.4	874.1	908.3	996.5	1072.0
50°	1178.4	1170.5	1169.7	1082.3	1056.1	989.3	962.3	983.8	1004.4	1091.8	1173.7
52.5°	1292.1	1294.5	1295.3	1209.4	1183.2	1126.0	1087.1	1110.1	1110.1	1202.3	1292.1
55°	1427.2	1432.7	1428.8	1343.7	1347.7	1285.7	1232.5	1261.1	1250.8	1339.0	1419.2
57.5°	1601.2	1599.6	1607.5	1509.8	1522.5	1472.5	1412.1	1430.3	1414.5	1486.8	1558.3
60°	1775.2	1775.2	1795.9	1710.9	1745.0	1669.5	1630.6	1640.1	1583.7	1644.1	1707.7
62.5°	1956.4	1958.0	1988.2	1959.6	1967.5	1887.3	1862.6	1847.5	1740.3	1818.9	1862.6
65°	2140.0	2142.3	2192.4	2223.4	2164.6	2091.5	2070.0	2033.5	1918.3	2029.5	2037.4
67.5°	2325.9	2336.2	2395.8	2461.8	2372.0	2236.1	2267.1	2201.1	2081.9	2188.4	2182.9
70°	2530.1	2537.3	2577.8	2688.3	2526.9	2352.1	2385.5	2337.0	2195.6	2328.3	2338.6
72°	2583.4	2588.1	2631.8	2778.8	2573.8	2410.1	2464.2	2386.3	2246.4	2391.9	2399.8
72.5°	2580.2	2587.3	2623.1	2761.4	2572.2	2420.5	2478.5	2391.9	2245.6	2387.9	2387.1
75°	2337.8	2354.5	2409.3	2489.6	2430.8	2399.8	2523.8	2358.5	2155.8	2234.5	2216.2
77.5°	1715.6	1728.3	1807.8	1858.7	1974.7	2182.9	2406.2	2166.2	1884.9	1849.1	1788.7
80°	841.5	836.8	996.5	924.2	1259.5	1670.3	1996.9	1714.0	1332.6	1084.7	928.9
82.5°	284.5	301.2	366.3	352.8	560.2	963.9	1351.7	1058.5	617.4	420.4	347.3
85°	160.5	166.1	201.8	193.9	228.1	374.3	695.3	481.5	270.2	225.7	201.0
87.5°	141.4	143.8	142.2	139.9	151.0	209.8	210.6	217.7	165.3	153.4	154.2
90°	143.0	144.6	129.5	124.0	132.7	175.6	195.5	185.2	135.1	131.9	144.6
92.5°	155.0	156.5	140.7	135.1	142.2	180.4	201.0	190.7	136.7	140.7	154.2
95°	141.4	143.0	129.5	124.0	131.9	167.7	188.3	184.4	130.3	143.8	163.7
97.5°	90.6	91.4	90.6	90.6	104.1	127.1	132.7	125.6	86.6	88.2	89.8
100°	35.8	28.6	40.5	59.6	73.9	74.7	71.5	66.0	55.6	36.6	18.3
102.5°	11.9	11.9	27.8	38.9	43.7	35.0	27.8	27.8	32.6	23.0	11.9
105°	11.9	11.9	15.1	18.3	18.3	9.5	8.7	14.3	20.7	11.9	11.9
107.5°	11.1	11.9	7.9	7.2	6.4	6.4	6.4	6.4	7.9	8.7	11.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
110°	9.5	9.5	6.4	6.4	5.6	4.8	6.4	5.6	6.4	7.2	9.5
112.5°	7.2	7.9	4.8	4.8	4.8	4.0	5.6	4.8	4.8	5.6	6.4
115°	7.2	7.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	6.4
117.5°	7.2	6.4	4.0	3.2	3.2	3.2	3.2	3.2	3.2	4.8	6.4
120°	7.2	6.4	4.0	3.2	2.4	2.4	2.4	2.4	3.2	4.0	6.4
122.5°	6.4	6.4	4.0	3.2	2.4	2.4	2.4	2.4	2.4	4.0	6.4
125°	6.4	6.4	4.0	3.2	2.4	2.4	1.6	2.4	2.4	4.0	5.6
127.5°	6.4	5.6	4.0	2.4	2.4	1.6	1.6	1.6	2.4	3.2	5.6
130°	5.6	5.6	4.0	2.4	1.6	1.6	1.6	1.6	1.6	3.2	4.8
132.5°	4.8	4.8	3.2	2.4	1.6	1.6	1.6	1.6	1.6	2.4	4.0
135°	4.0	4.0	3.2	2.4	1.6	2.4	1.6	1.6	1.6	1.6	3.2
137.5°	4.0	4.0	3.2	2.4	1.6	2.4	1.6	1.6	1.6	1.6	2.4
140°	4.0	4.0	3.2	2.4	2.4	2.4	1.6	1.6	1.6	1.6	2.4
142.5°	4.0	4.0	3.2	2.4	2.4	2.4	1.6	1.6	1.6	2.4	2.4
145°	4.0	4.0	4.0	3.2	2.4	2.4	1.6	1.6	2.4	2.4	3.2
147.5°	4.8	4.8	4.0	3.2	2.4	1.6	1.6	1.6	2.4	3.2	3.2
150°	4.0	4.0	3.2	2.4	2.4	1.6	0.8	0.8	1.6	3.2	3.2
152.5°	3.2	3.2	2.4	1.6	1.6	0.8	0.0	0.8	1.6	2.4	3.2
155°	2.4	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.8	1.6	2.4
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°
0°	3.2
2.5°	3.2
5°	3.2
7.5°	4.0
10°	6.4
12.5°	63.6
15°	136.7
17.5°	153.4
20°	278.1
22.5°	313.1
25°	369.5
27.5°	482.3
30°	512.5
32.5°	682.6
35°	719.1
37.5°	768.4
40°	821.7
42.5°	890.0
45°	975.0
47.5°	1073.6
50°	1171.3
52.5°	1288.9
55°	1424.8
57.5°	1554.3
60°	1702.9
62.5°	1852.3
65°	2037.4
67.5°	2182.9
70°	2342.6
72°	2402.2
72.5°	2387.9
75°	2219.4
77.5°	1794.3
80°	911.4
82.5°	322.6
85°	197.9
87.5°	151.0
90°	142.2
92.5°	151.8
95°	161.3
97.5°	85.8
100°	12.7
102.5°	12.7
105°	12.7
107.5°	12.7



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CANDELA DISTRIBUTION (continued):

	90°
110°	10.3
112.5°	7.2
115°	7.2
117.5°	7.2
120°	7.2
122.5°	7.2
125°	6.4
127.5°	5.6
130°	4.8
132.5°	4.0
135°	3.2
137.5°	2.4
140°	2.4
142.5°	2.4
145°	3.2
147.5°	3.2
150°	3.2
152.5°	3.2
155°	2.4
157.5°	0.8
160°	0.8
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)