

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: P240373

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5482 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 54
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

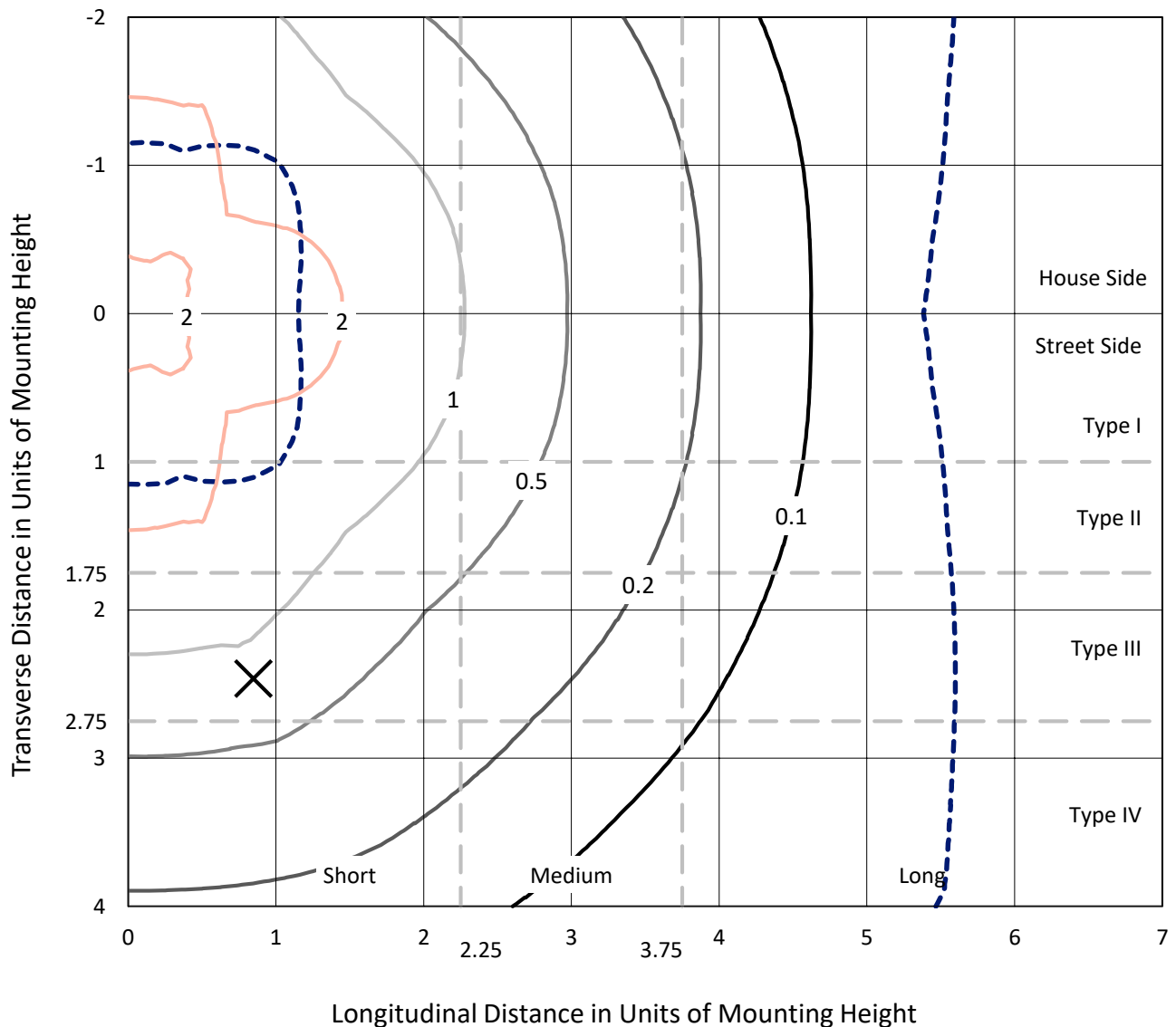


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

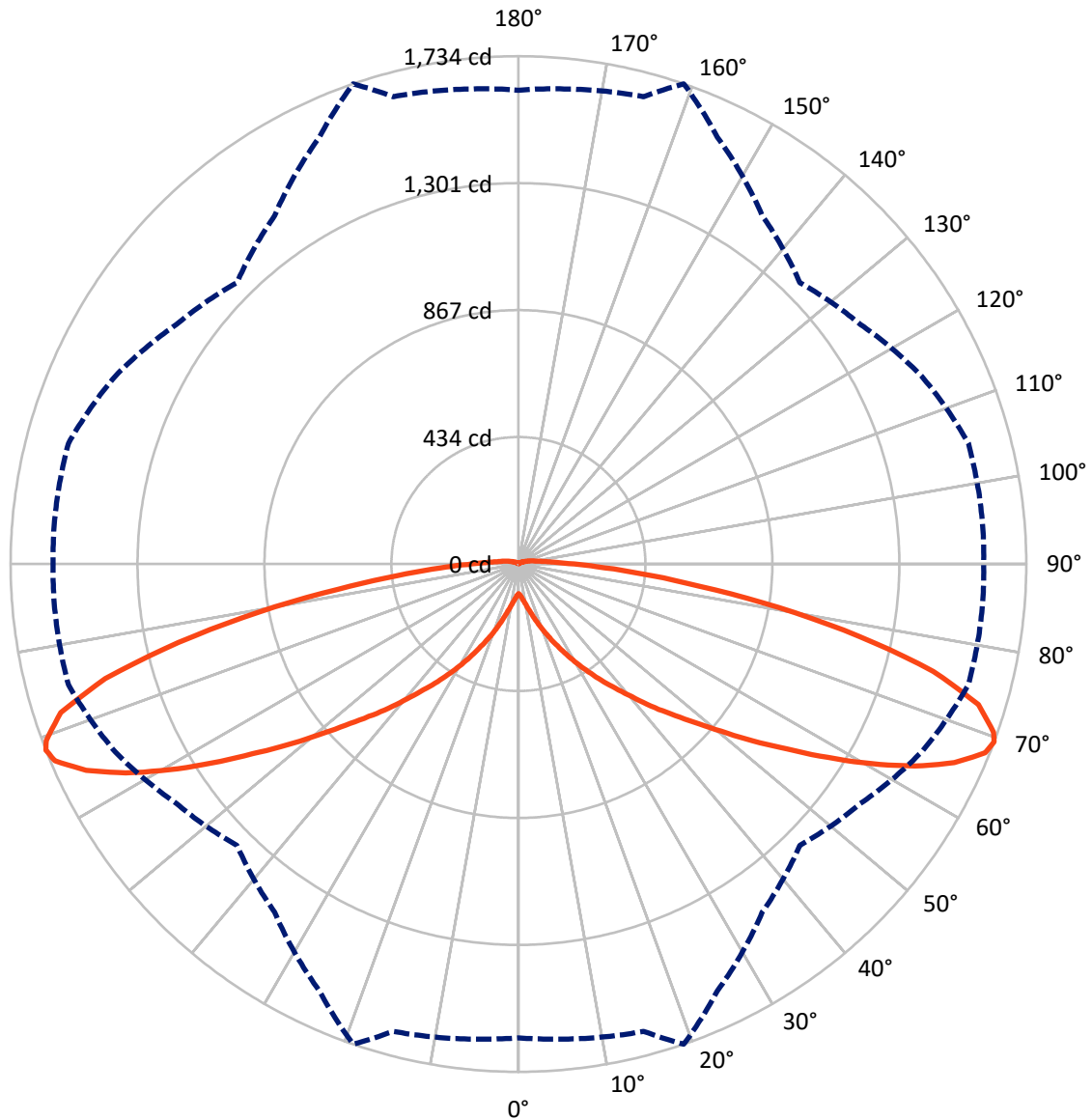


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 19-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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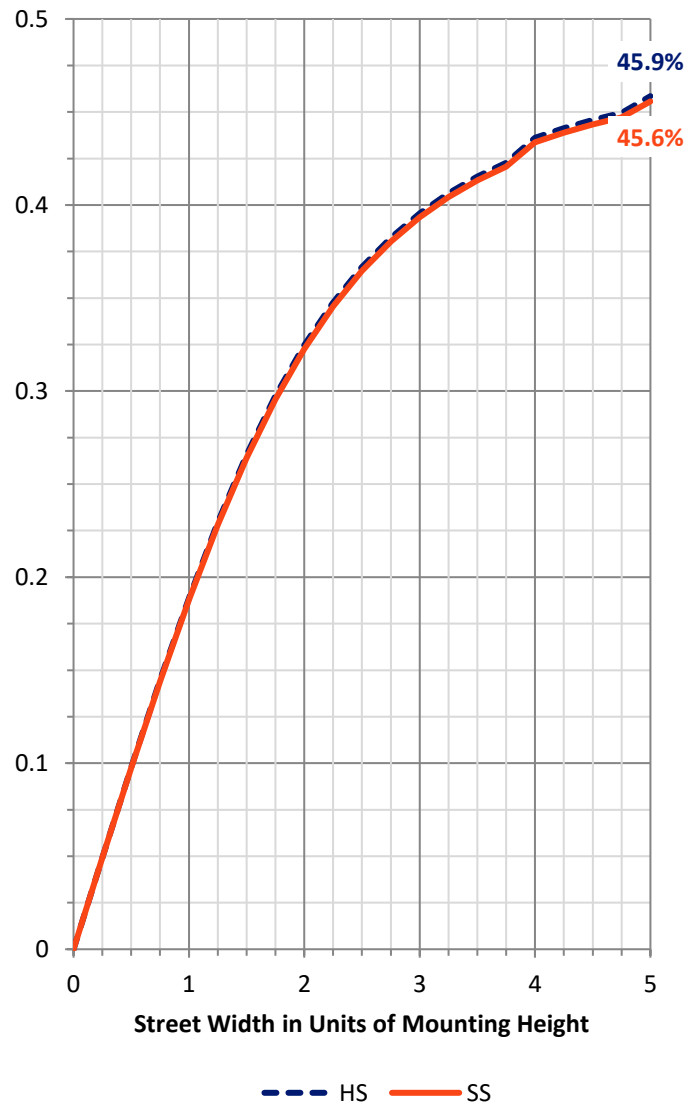
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.8	111.2	2741.0
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2629.8	111.2	2741.0
	% Fixture	48.0	2.0	50.0
Total	Lumens	5259.6	222.4	5482.0
	% Fixture	95.9	4.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	49.0	0.9
20°-30°	133.5	2.4
30°-40°	282.3	5.1
40°-50°	515.4	9.4
50°-60°	900.3	16.4
60°-70°	1411.2	25.7
70°-80°	1392.2	25.4
80°-90°	564.6	10.3
90°-100°	136.1	2.5
100°-110°	49.7	0.9
110°-120°	20.9	0.4
120°-130°	9.6	0.2
130°-140°	4.5	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5259.6	95.9
0°-180°	5482.0	100.0



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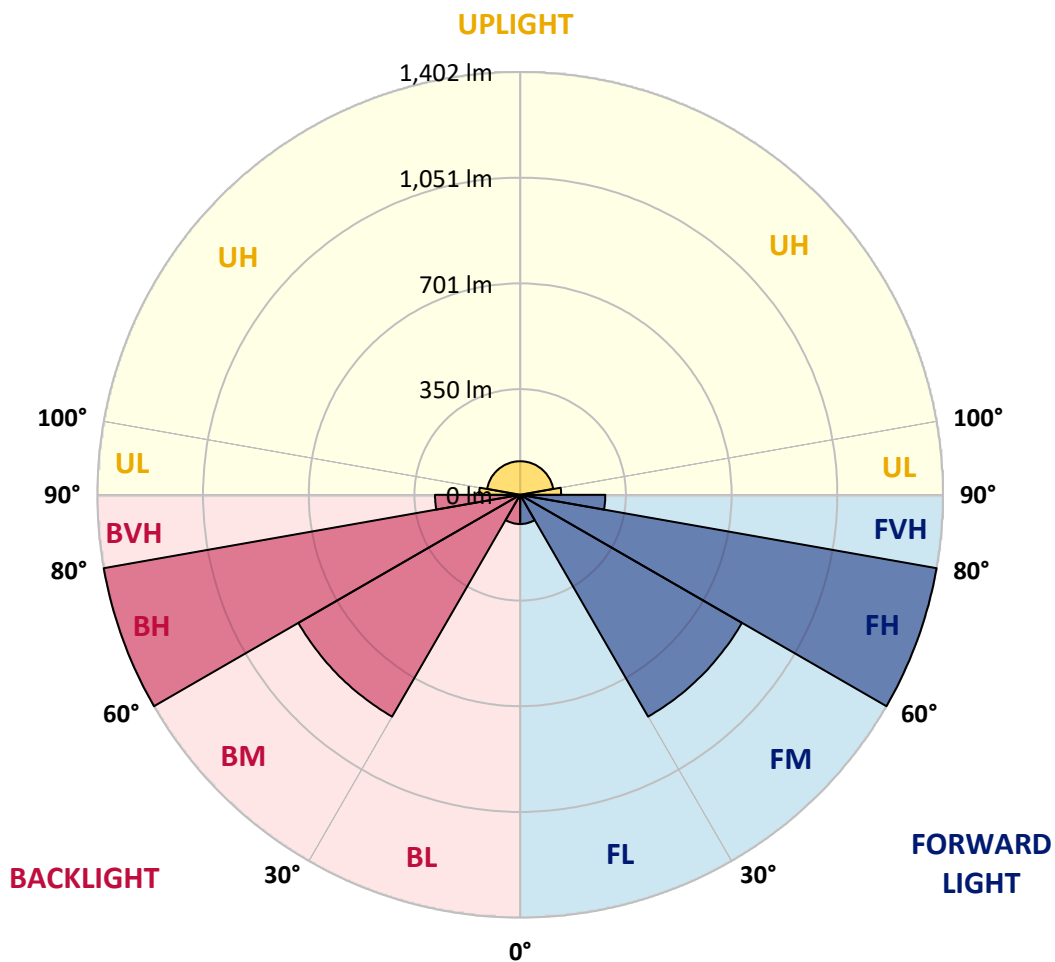
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.8	1.8			
FM	(30°-60°)	849.0	15.5			
FH	(60°-80°)	1401.7	25.6			G1/1800
FVH	(80°-90°)	282.3	5.1			G3/500
BL	(0°-30°)	96.8	1.8	B0/110		
BM	(30°-60°)	849.0	15.5	B1/1000		
BH	(60°-80°)	1401.7	25.6	B3/2500		G1/1800
BVH	(80°-90°)	282.3	5.1			G3/500
UL	(90°-100°)	136.1	2.5		U3/500	
UH	(100°-180°)	111.2	2.0		U3/500	

BUG Rating: B3-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	103.4	103.4	103.4	106.1	103.4	103.4	103.4	103.4	103.4	103.4	102.8
5°	108.7	108.7	108.7	114.8	108.7	108.1	108.1	108.7	108.1	108.1	108.1
7.5°	118.8	118.0	118.0	126.0	118.0	117.4	116.7	116.7	116.7	116.1	116.1
10°	132.0	131.3	130.6	141.3	130.0	129.3	128.7	128.0	128.0	128.0	128.7
12.5°	149.2	149.2	147.9	159.8	145.9	143.9	142.6	141.9	142.6	143.2	143.9
15°	171.1	171.8	169.8	182.4	165.1	161.8	159.8	159.8	161.1	163.2	165.1
17.5°	200.3	199.6	195.7	210.9	190.4	183.7	179.0	179.7	184.3	189.7	193.0
20°	232.1	230.2	225.5	240.7	217.6	207.6	202.2	203.6	211.5	220.1	224.8
22.5°	267.3	265.3	258.6	273.9	246.7	234.2	228.8	230.8	240.7	253.4	262.6
25°	305.8	305.0	295.8	309.7	277.8	262.6	255.3	259.9	273.9	293.2	304.4
27.5°	348.2	346.9	334.9	350.2	313.0	294.5	285.8	290.5	309.0	334.3	352.2
30°	394.7	393.3	376.8	393.3	350.2	326.3	316.4	323.7	346.2	380.0	399.9
32.5°	444.4	443.0	422.5	438.3	391.3	360.8	347.5	357.4	386.7	423.8	450.3
35°	496.7	493.5	472.2	487.4	435.1	396.6	380.6	396.0	428.4	472.2	502.1
37.5°	553.1	549.1	524.6	537.9	480.8	437.0	419.1	433.1	474.2	520.6	557.1
40°	611.5	608.1	578.3	595.6	533.3	480.2	458.9	476.2	523.2	572.3	610.2
42.5°	673.2	669.8	641.3	663.2	589.6	527.2	502.7	524.6	575.6	630.0	671.2
45°	736.8	735.5	708.3	729.6	650.6	582.3	554.4	579.6	635.4	695.7	735.5
47.5°	814.4	806.5	785.9	806.5	723.5	650.0	615.4	642.0	703.7	769.4	809.2
50°	891.4	890.1	872.2	897.3	805.8	719.5	681.8	712.3	782.6	850.3	888.0
52.5°	982.9	985.5	966.3	1004.1	901.3	807.8	762.7	797.2	875.4	941.1	978.2
55°	1081.1	1082.4	1074.4	1114.8	1004.1	899.3	851.6	889.4	969.7	1041.9	1077.1
57.5°	1195.1	1193.8	1191.1	1246.9	1124.8	1008.7	949.7	995.4	1079.0	1151.9	1181.2
60°	1307.8	1307.8	1314.5	1384.2	1252.1	1121.5	1053.1	1105.6	1193.8	1270.7	1291.9
62.5°	1429.9	1431.8	1437.9	1519.4	1374.1	1236.2	1158.0	1215.0	1314.5	1385.5	1402.7
65°	1529.3	1538.6	1551.9	1636.1	1495.6	1340.4	1258.1	1318.5	1420.6	1490.8	1501.5
67.5°	1601.6	1606.3	1631.5	1719.1	1585.1	1423.2	1333.0	1395.4	1496.2	1567.8	1574.4
69°	1618.2	1628.8	1652.1	1734.3	1608.3	1451.8	1358.9	1425.9	1518.8	1591.0	1591.0
70°	1610.9	1624.2	1652.1	1721.7	1613.6	1461.1	1370.1	1432.5	1523.4	1590.4	1588.3
72.5°	1530.6	1540.0	1587.7	1642.8	1573.1	1442.5	1364.9	1418.6	1482.3	1528.7	1516.7
75°	1361.5	1370.9	1424.6	1463.7	1446.5	1354.9	1299.9	1335.1	1365.5	1370.1	1347.6
77.5°	1100.3	1114.2	1188.5	1191.1	1242.9	1207.1	1177.8	1190.4	1171.2	1150.0	1100.9
80°	830.3	840.3	908.6	901.9	987.6	1010.1	1006.8	999.4	941.7	874.7	819.7
82.5°	575.6	583.6	651.9	621.4	733.6	787.9	807.1	781.9	694.4	618.8	569.7
85°	368.8	382.0	435.8	415.8	515.4	580.9	609.5	570.4	487.4	414.5	373.4
87.5°	238.8	244.1	283.2	266.6	342.2	409.9	440.4	408.6	334.9	273.9	239.4
90°	153.9	159.8	184.3	171.8	228.8	281.8	307.7	277.8	226.8	183.7	159.8
92.5°	107.4	112.1	126.0	118.8	153.9	194.4	217.6	194.4	157.2	130.0	112.7
95°	82.2	84.2	94.2	87.6	112.1	140.6	154.6	140.6	114.8	97.5	85.5
97.5°	65.0	66.3	73.7	68.3	84.2	104.8	115.4	105.5	88.2	76.3	67.0
100°	52.4	53.1	59.0	56.4	67.6	82.2	89.5	82.9	71.0	61.0	53.7
102.5°	42.5	42.5	48.4	47.1	55.8	66.3	71.6	68.3	58.4	49.7	42.5
105°	33.9	33.9	39.2	39.2	46.4	54.4	59.0	55.8	47.8	39.8	33.9
107.5°	26.5	27.2	31.2	31.2	38.5	45.1	48.4	45.7	39.2	31.2	26.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	21.2	21.9	25.2	25.9	31.8	37.8	40.4	37.8	31.8	24.6	20.6
112.5°	17.3	17.3	20.6	20.6	25.9	31.2	33.1	31.2	25.9	19.2	16.6
115°	14.6	14.6	16.6	16.6	21.2	25.9	27.8	25.9	20.6	16.0	13.9
117.5°	12.6	12.6	13.9	13.9	17.9	21.9	23.2	21.2	17.3	13.3	12.0
120°	11.3	11.3	12.0	12.0	14.6	17.9	19.2	17.9	13.9	11.3	10.6
122.5°	9.9	9.9	10.6	9.9	12.6	15.2	16.0	14.6	12.0	9.9	9.3
125°	9.3	9.3	9.3	8.6	10.6	12.6	13.3	12.0	9.9	8.6	8.6
127.5°	8.0	8.0	8.0	7.3	8.6	10.6	11.3	9.9	8.6	8.0	7.3
130°	7.3	7.3	7.3	6.6	8.0	8.6	9.3	8.6	7.3	7.3	7.3
132.5°	6.6	6.6	6.6	5.9	6.6	7.3	7.3	6.6	5.9	5.9	6.6
135°	5.9	5.9	5.9	5.3	5.3	5.3	5.9	5.3	5.3	5.3	5.9
137.5°	5.3	5.3	5.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.3
140°	4.6	4.6	4.6	3.3	4.0	3.3	3.3	3.3	4.0	4.0	4.6
142.5°	4.0	4.0	3.3	3.3	3.3	2.7	1.9	2.7	2.7	3.3	4.0
145°	3.3	3.3	2.7	2.7	2.7	1.9	1.3	1.3	2.7	2.7	2.7
147.5°	2.7	2.7	1.9	1.9	1.9	1.3	0.6	1.3	1.9	1.9	2.7
150°	1.9	1.9	1.3	1.3	1.3	0.6	0.6	0.6	1.3	1.3	1.9
152.5°	1.3	1.3	1.3	0.6	0.6	0.6	0.0	0.6	0.6	1.3	1.3
155°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	101.5
2.5°	102.8
5°	108.1
7.5°	116.1
10°	128.0
12.5°	144.5
15°	165.1
17.5°	192.3
20°	226.2
22.5°	265.3
25°	307.7
27.5°	354.1
30°	402.5
32.5°	455.0
35°	508.0
37.5°	560.4
40°	616.7
42.5°	673.8
45°	737.4
47.5°	811.1
50°	895.3
52.5°	982.2
55°	1074.4
57.5°	1181.2
60°	1293.9
62.5°	1404.0
65°	1498.8
67.5°	1572.5
69°	1589.1
70°	1583.7
72.5°	1502.8
75°	1331.1
77.5°	1089.6
80°	801.8
82.5°	549.1
85°	364.8
87.5°	233.4
90°	153.2
92.5°	109.5
95°	82.9
97.5°	65.7
100°	52.4
102.5°	42.5
105°	33.1
107.5°	25.9



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CANDELA DISTRIBUTION (continued):

	90°
110°	20.6
112.5°	16.6
115°	13.9
117.5°	12.0
120°	9.9
122.5°	9.3
125°	8.6
127.5°	7.3
130°	7.3
132.5°	6.6
135°	5.9
137.5°	5.3
140°	4.6
142.5°	4.0
145°	3.3
147.5°	1.9
150°	1.9
152.5°	1.3
155°	0.6
157.5°	0.0
160°	0.0
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)