

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: P240374

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240374
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-AF24-60-D-U-5WQ-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 6372 lumens
Efficiency: N/A
Efficacy: 99.6 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): 64
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

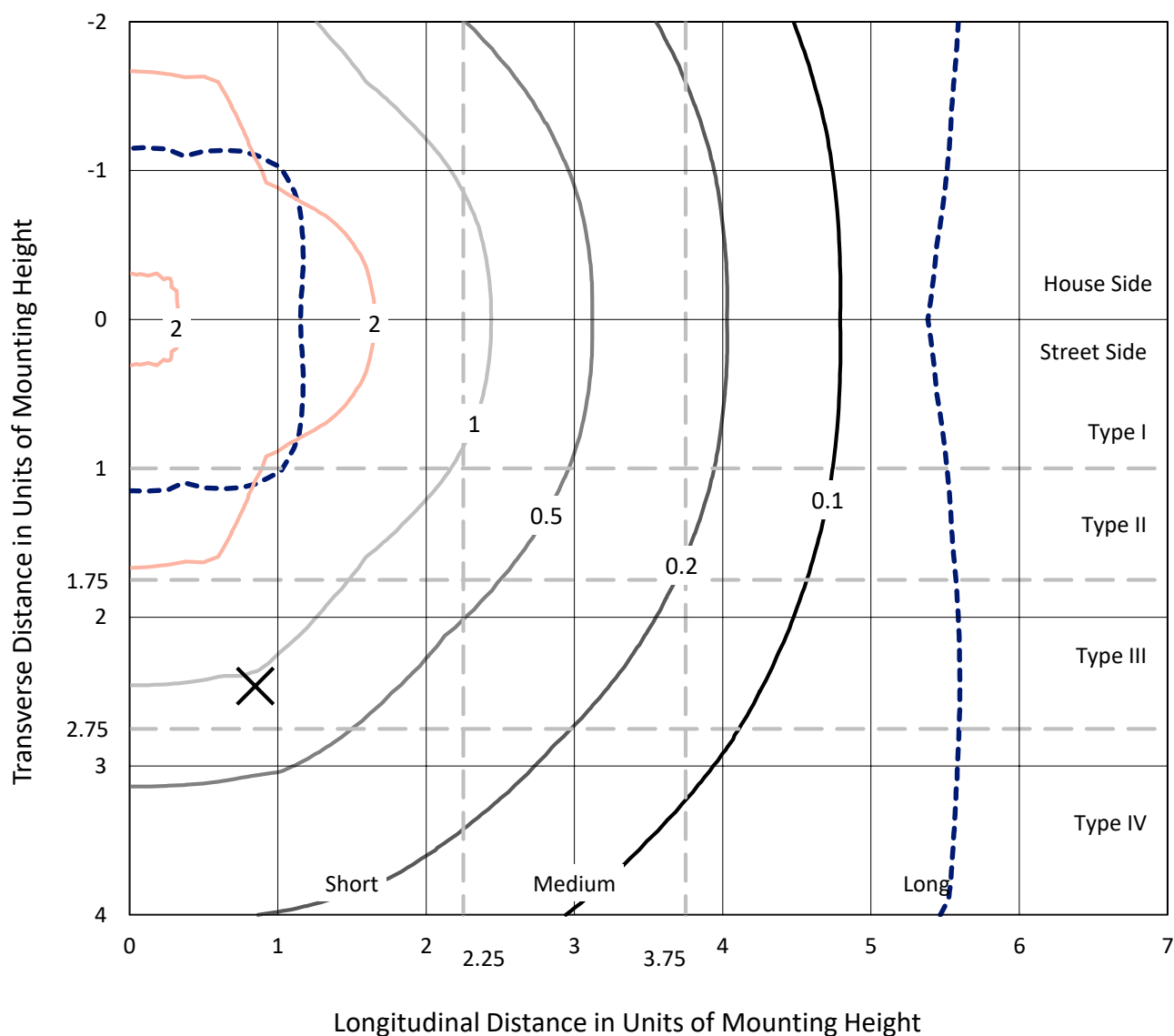


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

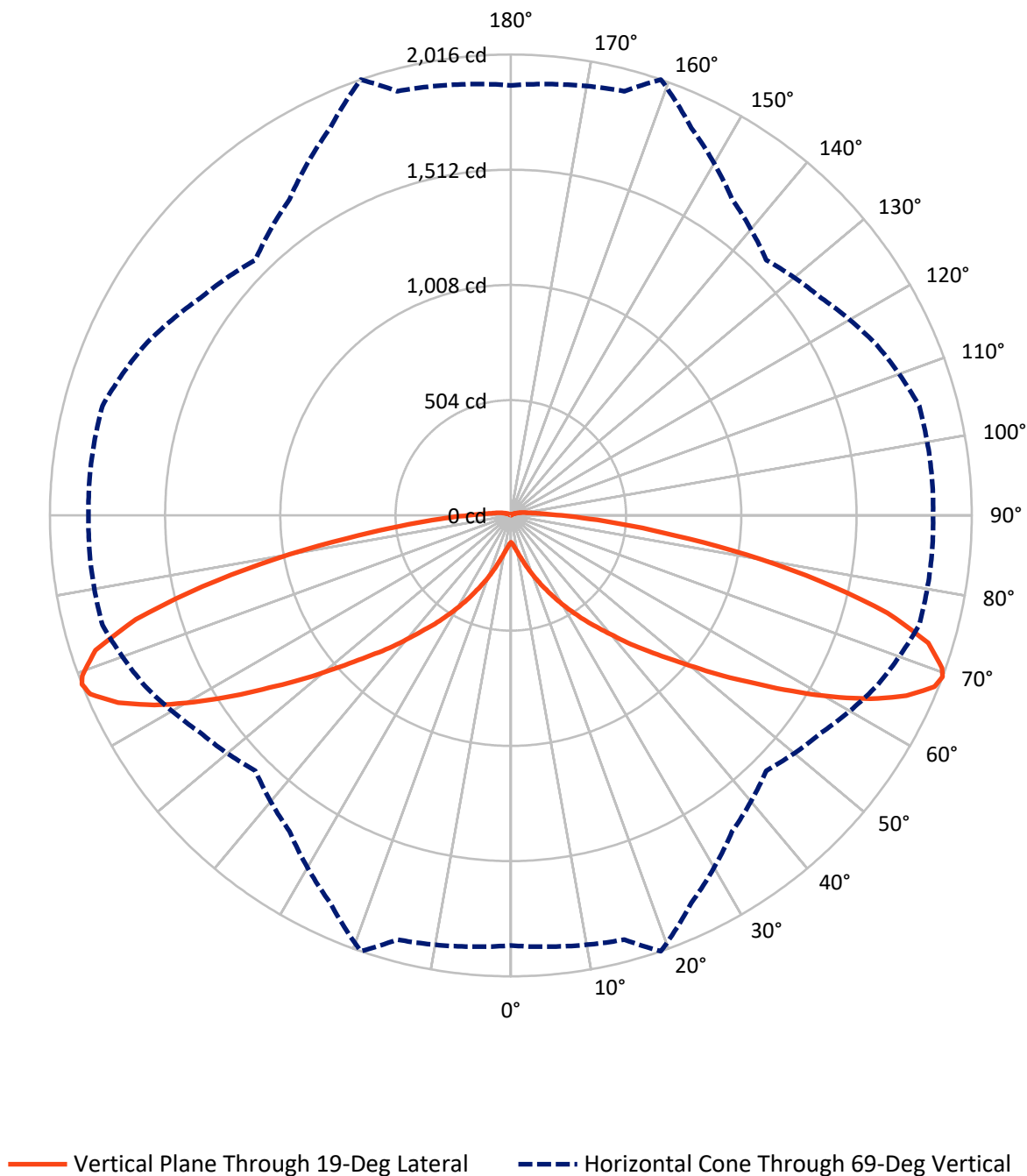


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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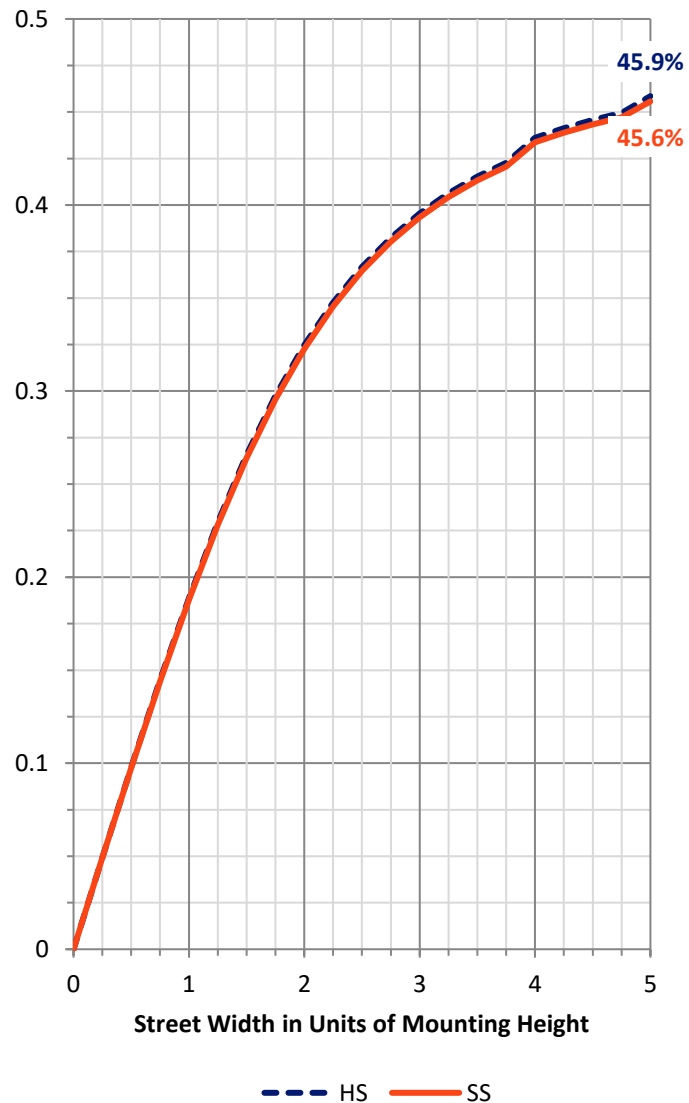
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3056.7	129.3	3186.0
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3056.7	129.3	3186.0
	% Fixture	48.0	2.0	50.0
Total	Lumens	6113.4	258.6	6372.0
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.2
10°-20°	56.9	0.9
20°-30°	155.2	2.4
30°-40°	328.1	5.1
40°-50°	599.1	9.4
50°-60°	1046.4	16.4
60°-70°	1640.3	25.7
70°-80°	1618.3	25.4
80°-90°	656.2	10.3
90°-100°	158.1	2.5
100°-110°	57.7	0.9
110°-120°	24.3	0.4
120°-130°	11.1	0.2
130°-140°	5.2	0.1
140°-150°	1.9	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6113.4	95.9
0°-180°	6372.0	100.0

Coefficient of Utilization



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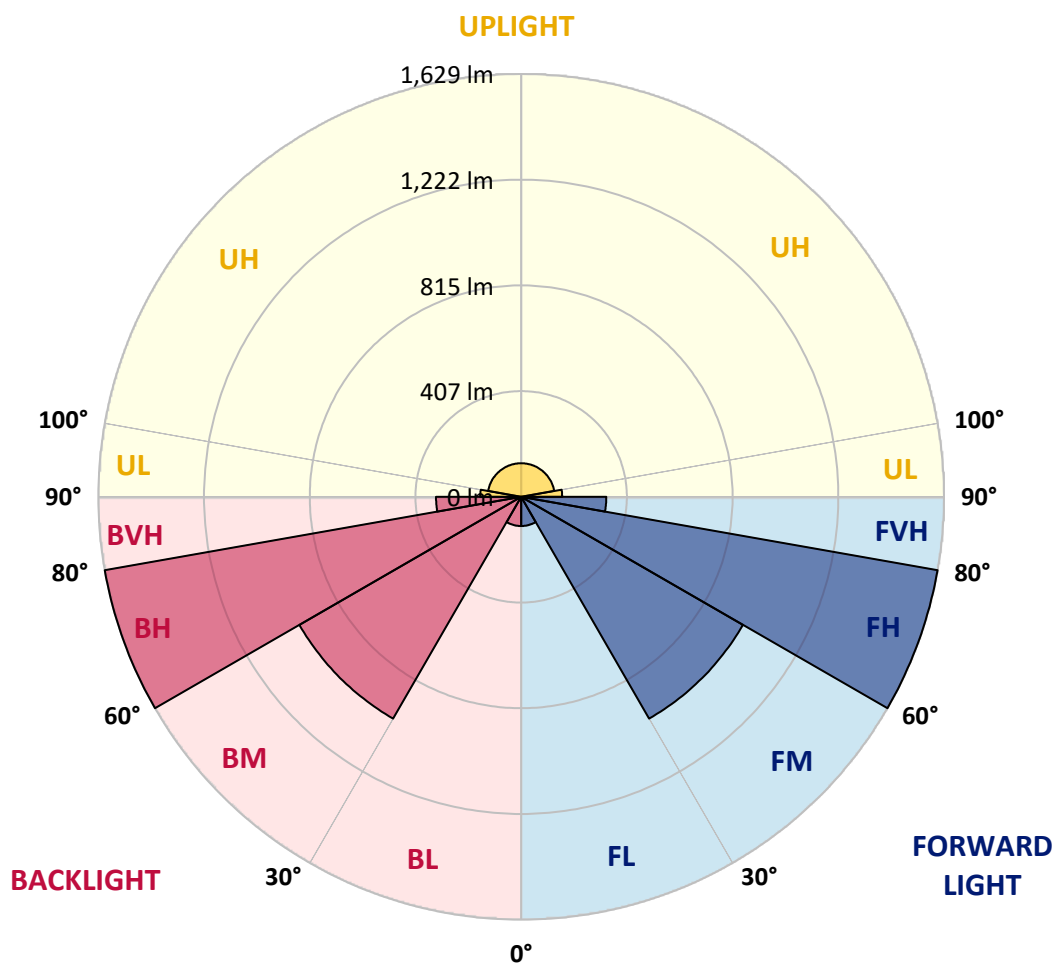
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.5	1.8			
FM	(30°-60°)	986.8	15.5			
FH	(60°-80°)	1629.3	25.6			G1/1800
FVH	(80°-90°)	328.1	5.1			G3/500
BL	(0°-30°)	112.5	1.8	B1/500		
BM	(30°-60°)	986.8	15.5	B1/1000		
BH	(60°-80°)	1629.3	25.6	B3/2500		G1/1800
BVH	(80°-90°)	328.1	5.1			G3/500
UL	(90°-100°)	158.1	2.5		U3/500	
UH	(100°-180°)	129.3	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°	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9
2.5°	120.3	120.3	120.3	123.4	120.3	120.3	120.3	120.3	120.3	120.3	119.5
5°	126.4	126.4	126.4	133.4	126.4	125.6	125.6	126.4	125.6	125.6	125.6
7.5°	138.0	137.2	137.2	146.5	137.2	136.5	135.6	135.6	135.6	134.9	134.9
10°	153.4	152.6	151.9	164.2	151.1	150.3	149.6	148.7	148.7	148.7	149.6
12.5°	173.5	173.5	171.9	185.8	169.6	167.3	165.7	165.0	165.7	166.5	167.3
15°	198.9	199.7	197.3	212.0	191.9	188.1	185.8	185.8	187.3	189.7	191.9
17.5°	232.8	232.0	227.4	245.1	221.3	213.5	208.2	208.9	214.3	220.4	224.3
20°	269.9	267.5	262.1	279.8	252.9	241.3	235.1	236.6	245.9	255.9	261.4
22.5°	310.7	308.3	300.6	318.3	286.7	272.1	266.0	268.2	279.8	294.5	305.2
25°	355.4	354.6	343.8	360.0	323.0	305.2	296.8	302.2	318.3	340.7	353.8
27.5°	404.7	403.1	389.3	407.0	363.9	342.3	332.3	337.7	359.3	388.5	409.4
30°	458.7	457.2	437.8	457.2	407.0	379.3	367.8	376.1	402.4	441.7	464.8
32.5°	516.5	515.0	491.0	509.5	454.8	419.3	404.0	415.5	449.4	492.6	523.4
35°	577.4	573.6	548.8	566.6	505.6	460.9	442.5	460.2	498.0	548.8	583.6
37.5°	642.9	638.3	609.8	625.2	558.8	508.0	487.2	503.4	551.2	605.2	647.5
40°	710.7	706.9	672.2	692.2	619.8	558.1	533.5	553.5	608.2	665.2	709.2
42.5°	782.5	778.6	745.4	770.9	685.3	612.8	584.3	609.8	669.1	732.3	780.1
45°	856.4	854.9	823.3	847.9	756.3	676.8	644.5	673.7	738.5	808.6	854.9
47.5°	946.6	937.4	913.5	937.4	841.1	755.4	715.3	746.2	817.8	894.3	940.5
50°	1036.0	1034.5	1013.7	1043.0	936.6	836.4	792.5	827.9	909.6	988.3	1032.2
52.5°	1142.4	1145.5	1123.2	1167.1	1047.6	939.0	886.5	926.6	1017.5	1093.8	1137.0
55°	1256.5	1258.0	1248.8	1295.9	1167.1	1045.4	989.8	1033.8	1127.0	1211.1	1251.9
57.5°	1389.2	1387.5	1384.5	1449.2	1307.4	1172.5	1103.9	1157.1	1254.2	1339.0	1372.9
60°	1520.2	1520.2	1527.9	1608.8	1455.5	1303.5	1224.2	1285.0	1387.5	1477.0	1501.7
62.5°	1662.0	1664.3	1671.3	1766.1	1597.2	1436.9	1346.0	1412.3	1527.9	1610.3	1630.4
65°	1777.7	1788.4	1803.9	1901.8	1738.3	1558.0	1462.3	1532.5	1651.2	1732.9	1745.3
67.5°	1861.7	1867.1	1896.3	1998.1	1842.4	1654.3	1549.5	1621.9	1739.1	1822.4	1830.1
69°	1880.9	1893.3	1920.3	2015.8	1869.3	1687.5	1579.5	1657.4	1765.3	1849.3	1849.3
70°	1872.4	1887.9	1920.3	2001.2	1875.6	1698.2	1592.6	1665.1	1770.7	1848.6	1846.2
72.5°	1779.2	1790.0	1845.5	1909.4	1828.5	1676.6	1586.5	1648.9	1723.0	1776.9	1763.0
75°	1582.6	1593.5	1655.9	1701.4	1681.3	1574.9	1510.9	1551.8	1587.2	1592.6	1566.4
77.5°	1278.9	1295.1	1381.4	1384.5	1444.6	1403.0	1369.1	1383.7	1361.3	1336.7	1279.6
80°	965.2	976.7	1056.1	1048.4	1147.9	1174.0	1170.2	1161.7	1094.7	1016.8	952.8
82.5°	669.1	678.4	757.8	722.3	852.6	915.8	938.1	908.9	807.1	719.2	662.2
85°	428.6	444.1	506.5	483.3	598.9	675.2	708.4	663.0	566.6	481.8	434.0
87.5°	277.5	283.7	329.2	309.9	397.7	476.4	511.9	474.9	389.3	318.3	278.2
90°	178.8	185.8	214.3	199.7	266.0	327.7	357.7	323.0	263.6	213.5	185.8
92.5°	124.9	130.3	146.5	138.0	178.8	225.9	252.9	225.9	182.7	151.1	131.0
95°	95.5	97.9	109.5	101.8	130.3	163.5	179.6	163.5	133.4	113.3	99.4
97.5°	75.6	77.1	85.5	79.4	97.9	121.8	134.1	122.5	102.5	88.7	77.8
100°	60.9	61.7	68.6	65.6	78.7	95.5	104.0	96.4	82.4	70.9	62.4
102.5°	49.3	49.3	56.3	54.7	64.8	77.1	83.3	79.4	67.8	57.8	49.3
105°	39.3	39.3	45.5	45.5	54.0	63.2	68.6	64.8	55.5	46.2	39.3
107.5°	30.8	31.6	36.2	36.2	44.7	52.4	56.3	53.2	45.5	36.2	30.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	24.7	25.5	29.3	30.1	37.0	44.0	47.1	44.0	37.0	28.5	23.9
112.5°	20.0	20.0	23.9	23.9	30.1	36.2	38.6	36.2	30.1	22.4	19.2
115°	17.0	17.0	19.2	19.2	24.7	30.1	32.4	30.1	23.9	18.5	16.2
117.5°	14.6	14.6	16.2	16.2	20.8	25.5	27.0	24.7	20.0	15.4	13.9
120°	13.1	13.1	13.9	13.9	17.0	20.8	22.4	20.8	16.2	13.1	12.4
122.5°	11.6	11.6	12.4	11.6	14.6	17.7	18.5	17.0	13.9	11.6	10.8
125°	10.8	10.8	10.8	10.0	12.4	14.6	15.4	13.9	11.6	10.0	10.0
127.5°	9.2	9.2	9.2	8.5	10.0	12.4	13.1	11.6	10.0	9.2	8.5
130°	8.5	8.5	8.5	7.7	9.2	10.0	10.8	10.0	8.5	8.5	8.5
132.5°	7.7	7.7	7.7	7.0	7.7	8.5	8.5	7.7	7.0	7.0	7.7
135°	7.0	7.0	7.0	6.1	6.1	6.1	7.0	6.1	6.1	6.1	7.0
137.5°	6.1	6.1	6.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.1
140°	5.4	5.4	5.4	3.9	4.6	3.9	3.9	3.9	4.6	4.6	5.4
142.5°	4.6	4.6	3.9	3.9	3.9	3.1	2.4	3.1	3.1	3.9	4.6
145°	3.9	3.9	3.1	3.1	3.1	2.4	1.5	1.5	3.1	3.1	3.1
147.5°	3.1	3.1	2.4	2.4	2.4	1.5	0.8	1.5	2.4	2.4	3.1
150°	2.4	2.4	1.5	1.5	1.5	0.8	0.8	0.8	1.5	1.5	2.4
152.5°	1.5	1.5	1.5	0.8	0.8	0.8	0.0	0.8	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8
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°	117.9
2.5°	119.5
5°	125.6
7.5°	134.9
10°	148.7
12.5°	168.1
15°	191.9
17.5°	223.5
20°	262.9
22.5°	308.3
25°	357.7
27.5°	411.6
30°	467.9
32.5°	528.9
35°	590.4
37.5°	651.4
40°	716.9
42.5°	783.2
45°	857.2
47.5°	942.8
50°	1040.6
52.5°	1141.7
55°	1248.8
57.5°	1372.9
60°	1503.9
62.5°	1631.9
65°	1742.2
67.5°	1827.7
69°	1847.0
70°	1840.9
72.5°	1746.8
75°	1547.1
77.5°	1266.5
80°	932.0
82.5°	638.3
85°	424.0
87.5°	271.4
90°	178.1
92.5°	127.2
95°	96.4
97.5°	76.3
100°	60.9
102.5°	49.3
105°	38.6
107.5°	30.1



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CANDELA DISTRIBUTION (continued):

	90°
110°	23.9
112.5°	19.2
115°	16.2
117.5°	13.9
120°	11.6
122.5°	10.8
125°	10.0
127.5°	8.5
130°	8.5
132.5°	7.7
135°	7.0
137.5°	6.1
140°	5.4
142.5°	4.6
145°	3.9
147.5°	2.4
150°	2.4
152.5°	1.5
155°	0.8
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)