

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: P240365

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240365
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 6024.5 lumens
Efficiency: N/A
Efficacy: 94.1 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



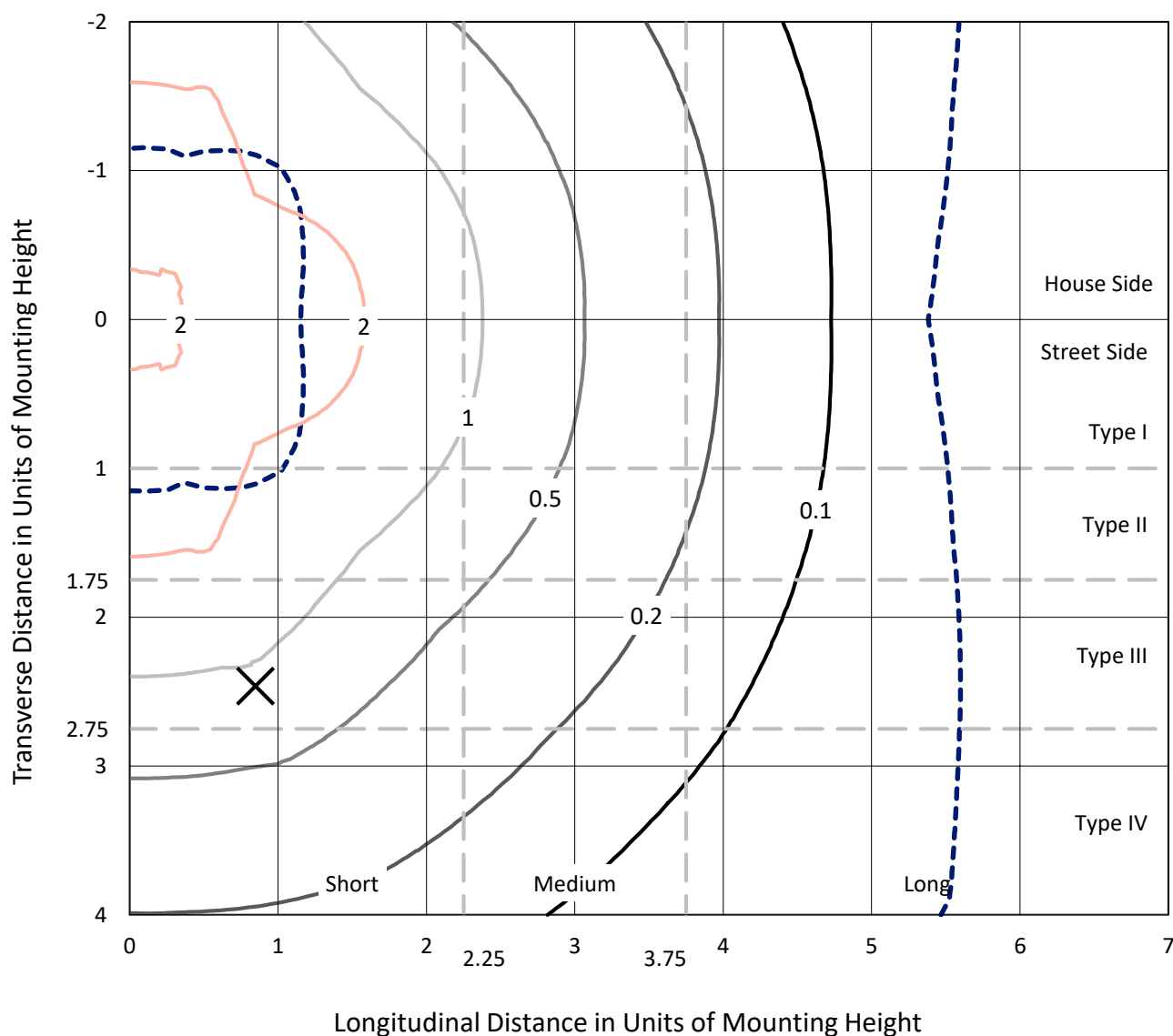
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

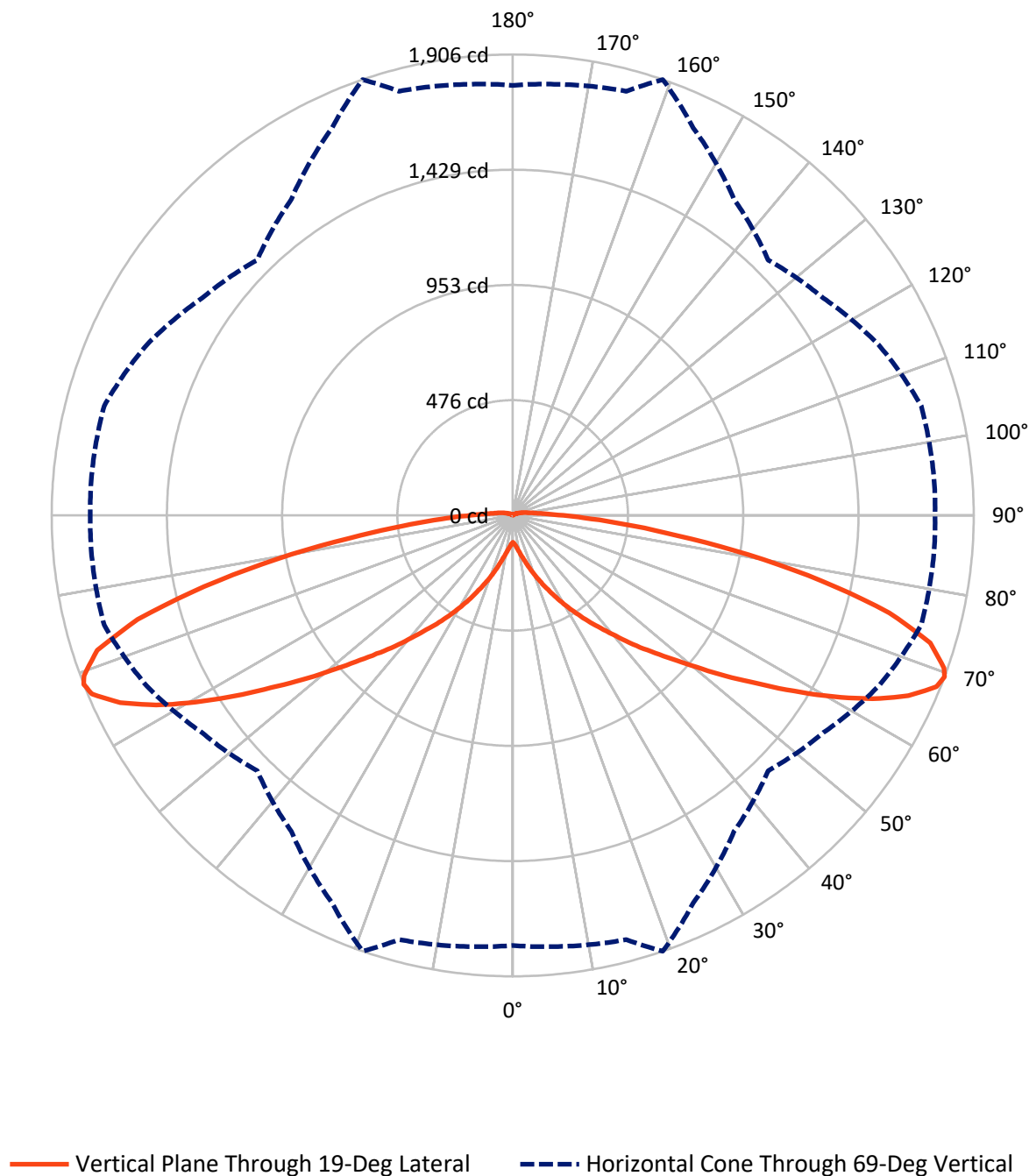


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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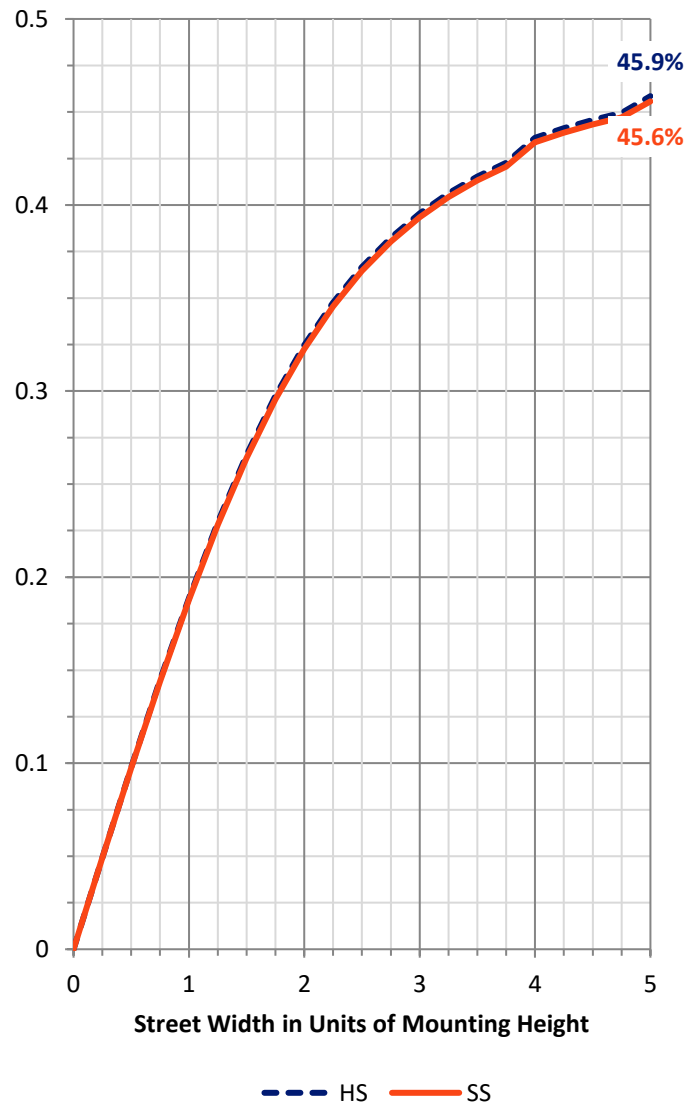
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2890.1	122.2	3012.2
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2890.1	122.2	3012.2
	% Fixture	48.0	2.0	50.0
Total	Lumens	5780.1	244.4	6024.5
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.2
10°-20°	53.8	0.9
20°-30°	146.7	2.4
30°-40°	310.2	5.1
40°-50°	566.5	9.4
50°-60°	989.4	16.4
60°-70°	1550.9	25.7
70°-80°	1530.0	25.4
80°-90°	620.4	10.3
90°-100°	149.5	2.5
100°-110°	54.6	0.9
110°-120°	22.9	0.4
120°-130°	10.5	0.2
130°-140°	4.9	0.1
140°-150°	1.7	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5780.1	95.9
0°-180°	6024.5	100.0

Coefficient of Utilization



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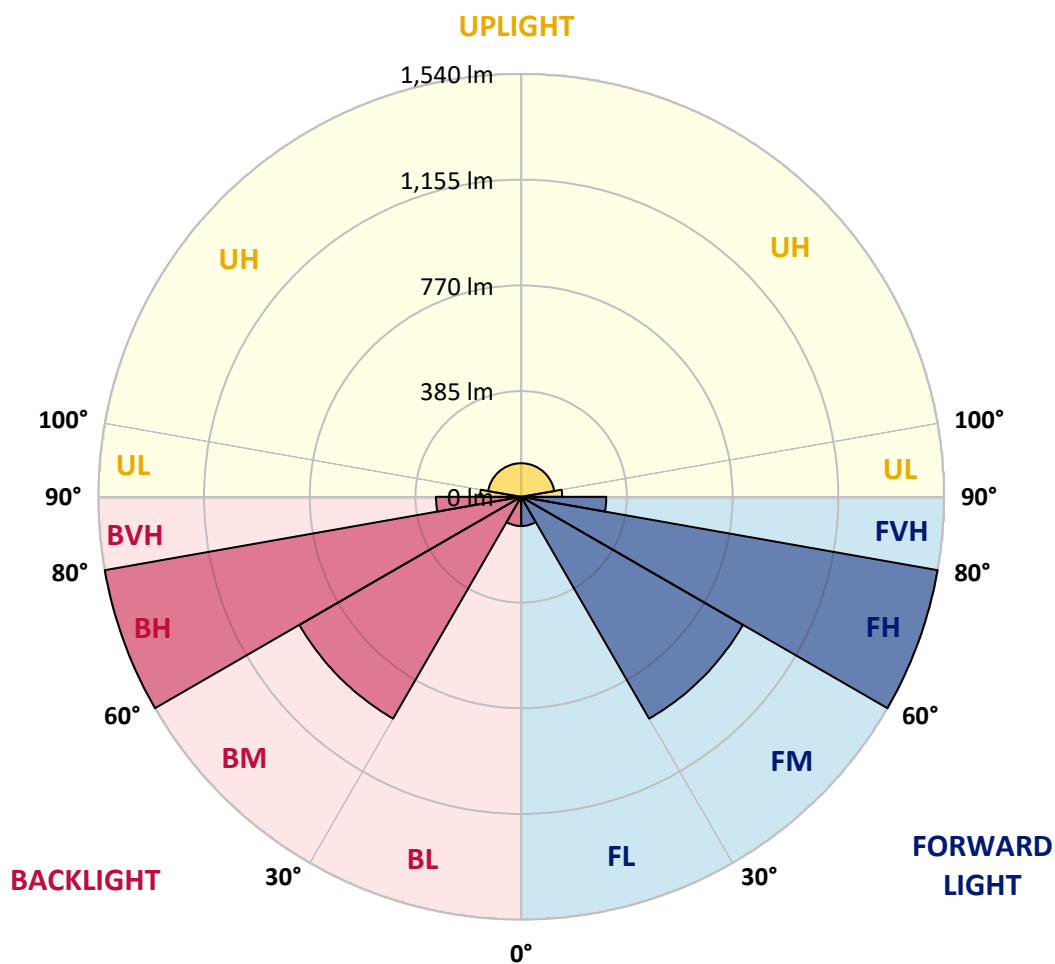
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.3	1.8			
FM	(30°-60°)	933.0	15.5			
FH	(60°-80°)	1540.5	25.6			G1/1800
FVH	(80°-90°)	310.2	5.1			G3/500
BL	(0°-30°)	106.3	1.8	B0/110		
BM	(30°-60°)	933.0	15.5	B1/1000		
BH	(60°-80°)	1540.5	25.6	B3/2500		G1/1800
BVH	(80°-90°)	310.2	5.1			G3/500
UL	(90°-100°)	149.5	2.5		U3/500	
UH	(100°-180°)	122.2	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°	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6
2.5°	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.7	113.0
5°	119.5	119.5	119.5	119.5	118.8	118.8	119.5	118.8	118.8	118.8	118.8
7.5°	130.4	129.7	129.7	129.7	129.0	128.3	128.3	128.3	127.5	127.5	127.5
10°	145.0	144.3	143.5	142.8	142.1	141.4	140.6	140.6	140.6	140.6	141.4
12.5°	164.0	164.0	162.6	160.4	158.2	156.7	156.0	156.7	157.5	158.2	158.2
15°	188.0	188.8	186.7	181.5	177.9	175.7	175.7	177.1	179.3	181.5	181.5
17.5°	220.1	219.4	215.0	209.2	201.9	196.7	197.5	202.5	208.4	212.1	212.1
20°	255.1	252.9	247.8	239.1	228.2	222.4	223.8	232.5	242.0	247.0	247.0
22.5°	293.7	291.5	284.3	271.2	257.3	251.4	253.6	264.6	278.4	288.7	288.7
25°	336.0	335.3	325.0	305.4	288.7	280.6	285.7	301.0	322.1	334.6	334.6
27.5°	382.6	381.2	368.1	344.0	323.6	314.1	319.2	339.7	367.3	387.0	387.0
30°	433.6	432.2	414.0	384.8	358.6	347.7	355.6	380.4	417.6	439.4	439.4
32.5°	488.3	486.9	464.3	430.1	396.5	382.0	392.9	424.9	465.8	494.8	494.8
35°	545.9	542.3	519.0	478.1	435.8	418.4	435.1	470.8	519.0	551.8	551.8
37.5°	607.8	603.4	576.6	528.4	480.3	460.6	476.0	521.1	572.2	612.2	612.2
40°	672.0	668.3	635.6	585.9	527.7	504.3	523.4	575.0	629.0	670.6	670.6
42.5°	739.8	736.2	704.8	647.9	579.4	552.5	576.6	632.6	692.3	737.6	737.6
45°	809.7	808.3	778.4	715.0	639.9	609.3	637.0	698.2	764.6	808.3	808.3
47.5°	895.1	886.3	863.7	795.2	714.2	676.5	705.5	773.3	845.4	889.2	889.2
50°	979.6	978.1	958.4	885.5	790.8	749.3	782.8	860.1	934.3	975.9	975.9
52.5°	1080.1	1083.1	1061.9	990.6	887.7	838.1	876.0	962.0	1034.2	1075.0	1075.0
55°	1187.9	1189.5	1180.8	1103.5	988.4	935.8	977.5	1065.6	1145.0	1183.6	1183.6
57.5°	1313.4	1311.8	1309.0	1236.2	1108.6	1043.8	1094.0	1185.8	1266.0	1298.1	1298.1
60°	1437.3	1437.3	1444.6	1376.0	1232.5	1157.4	1215.0	1311.8	1396.5	1419.9	1419.9
62.5°	1571.3	1573.6	1580.1	1510.2	1358.5	1272.6	1335.2	1444.6	1522.5	1541.5	1541.5
65°	1680.7	1690.9	1705.5	1643.6	1473.1	1382.6	1449.0	1561.2	1638.5	1650.2	1650.2
67.5°	1760.1	1765.3	1793.0	1741.9	1564.1	1464.9	1533.5	1644.3	1723.0	1730.2	1730.2
69°	1778.4	1790.0	1815.6	1905.9	1767.5	1595.4	1493.3	1567.0	1669.1	1748.4	1748.4
70°	1770.3	1785.0	1815.6	1892.1	1773.3	1605.7	1505.8	1574.3	1674.2	1747.8	1745.6
72.5°	1682.1	1692.4	1744.9	1805.4	1728.8	1585.3	1500.0	1559.0	1628.9	1680.0	1666.9
75°	1496.3	1506.5	1565.5	1608.6	1589.6	1488.9	1428.6	1467.2	1500.6	1505.8	1481.0
77.5°	1209.2	1224.5	1306.0	1309.0	1365.8	1326.5	1294.4	1308.3	1287.2	1263.8	1209.9
80°	912.6	923.5	998.5	991.2	1085.3	1110.1	1106.4	1098.4	1035.0	961.4	900.9
82.5°	632.6	641.4	716.4	683.0	806.2	865.9	886.9	859.4	763.0	680.0	626.0
85°	405.3	419.8	478.9	457.0	566.3	638.5	669.8	626.8	535.7	455.5	410.4
87.5°	262.3	268.2	311.2	293.1	376.1	450.4	483.9	448.9	368.1	301.0	263.1
90°	169.2	175.7	202.5	188.8	251.4	309.8	338.1	305.4	249.2	201.9	175.7
92.5°	118.1	123.1	138.4	130.4	169.2	213.6	239.1	213.6	172.7	142.8	123.9
95°	90.3	92.6	103.5	96.2	123.1	154.5	169.8	154.5	126.0	107.2	94.1
97.5°	71.4	72.8	80.9	75.1	92.6	115.2	126.8	116.0	96.9	83.8	73.6
100°	57.6	58.4	64.9	62.0	74.3	90.3	98.5	91.1	78.0	67.0	59.0
102.5°	46.7	46.7	53.2	51.8	61.1	72.8	78.6	75.1	64.1	54.6	46.7
105°	37.1	37.1	43.0	43.0	51.1	59.8	64.9	61.1	52.5	43.7	37.1
107.5°	29.2	29.9	34.3	34.3	42.3	49.6	53.2	50.3	43.0	34.3	29.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	23.3	24.0	27.7	28.4	35.0	41.5	44.5	41.5	35.0	27.0	22.6
112.5°	18.9	18.9	22.6	22.6	28.4	34.3	36.5	34.3	28.4	21.1	18.2
115°	16.1	16.1	18.2	18.2	23.3	28.4	30.6	28.4	22.6	17.5	15.3
117.5°	13.8	13.8	15.3	15.3	19.6	24.0	25.4	23.3	18.9	14.5	13.1
120°	12.3	12.3	13.1	13.1	16.1	19.6	21.1	19.6	15.3	12.3	11.7
122.5°	10.9	10.9	11.7	10.9	13.8	16.7	17.5	16.1	13.1	10.9	10.2
125°	10.2	10.2	10.2	9.5	11.7	13.8	14.5	13.1	10.9	9.5	9.5
127.5°	8.7	8.7	8.7	7.9	9.5	11.7	12.3	10.9	9.5	8.7	7.9
130°	7.9	7.9	7.9	7.3	8.7	9.5	10.2	9.5	7.9	7.9	7.9
132.5°	7.3	7.3	7.3	6.5	7.3	7.9	7.9	7.3	6.5	6.5	7.3
135°	6.5	6.5	6.5	5.8	5.8	5.8	6.5	5.8	5.8	5.8	6.5
137.5°	5.8	5.8	5.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.8
140°	5.1	5.1	5.1	3.6	4.4	3.6	3.6	3.6	4.4	4.4	5.1
142.5°	4.4	4.4	3.6	3.6	3.6	2.9	2.1	2.9	2.9	3.6	4.4
145°	3.6	3.6	2.9	2.9	2.9	2.1	1.4	1.4	2.9	2.9	2.9
147.5°	2.9	2.9	2.1	2.1	2.1	1.4	0.8	1.4	2.1	2.1	2.9
150°	2.1	2.1	1.4	1.4	1.4	0.8	0.8	0.8	1.4	1.4	2.1
152.5°	1.4	1.4	1.4	0.8	0.8	0.8	0.0	0.8	0.8	1.4	1.4
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°	111.6
2.5°	113.0
5°	118.8
7.5°	127.5
10°	140.6
12.5°	158.9
15°	181.5
17.5°	211.4
20°	248.6
22.5°	291.5
25°	338.1
27.5°	389.2
30°	442.4
32.5°	500.0
35°	558.4
37.5°	615.9
40°	677.9
42.5°	740.6
45°	810.4
47.5°	891.3
50°	984.0
52.5°	1079.4
55°	1180.8
57.5°	1298.1
60°	1422.0
62.5°	1543.0
65°	1647.2
67.5°	1728.1
69°	1746.3
70°	1740.5
72.5°	1651.6
75°	1462.8
77.5°	1197.5
80°	881.1
82.5°	603.4
85°	400.9
87.5°	256.5
90°	168.4
92.5°	120.3
95°	91.1
97.5°	72.1
100°	57.6
102.5°	46.7
105°	36.5
107.5°	28.4



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CANDELA DISTRIBUTION (continued):

	90°
110°	22.6
112.5°	18.2
115°	15.3
117.5°	13.1
120°	10.9
122.5°	10.2
125°	9.5
127.5°	7.9
130°	7.9
132.5°	7.3
135°	6.5
137.5°	5.8
140°	5.1
142.5°	4.4
145°	3.6
147.5°	2.1
150°	2.1
152.5°	1.4
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)