

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: P240369

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240369
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-AF24-100-D-U-5WQ-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 7994.5 lumens
Efficiency: N/A
Efficacy: 83.3 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): 96
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



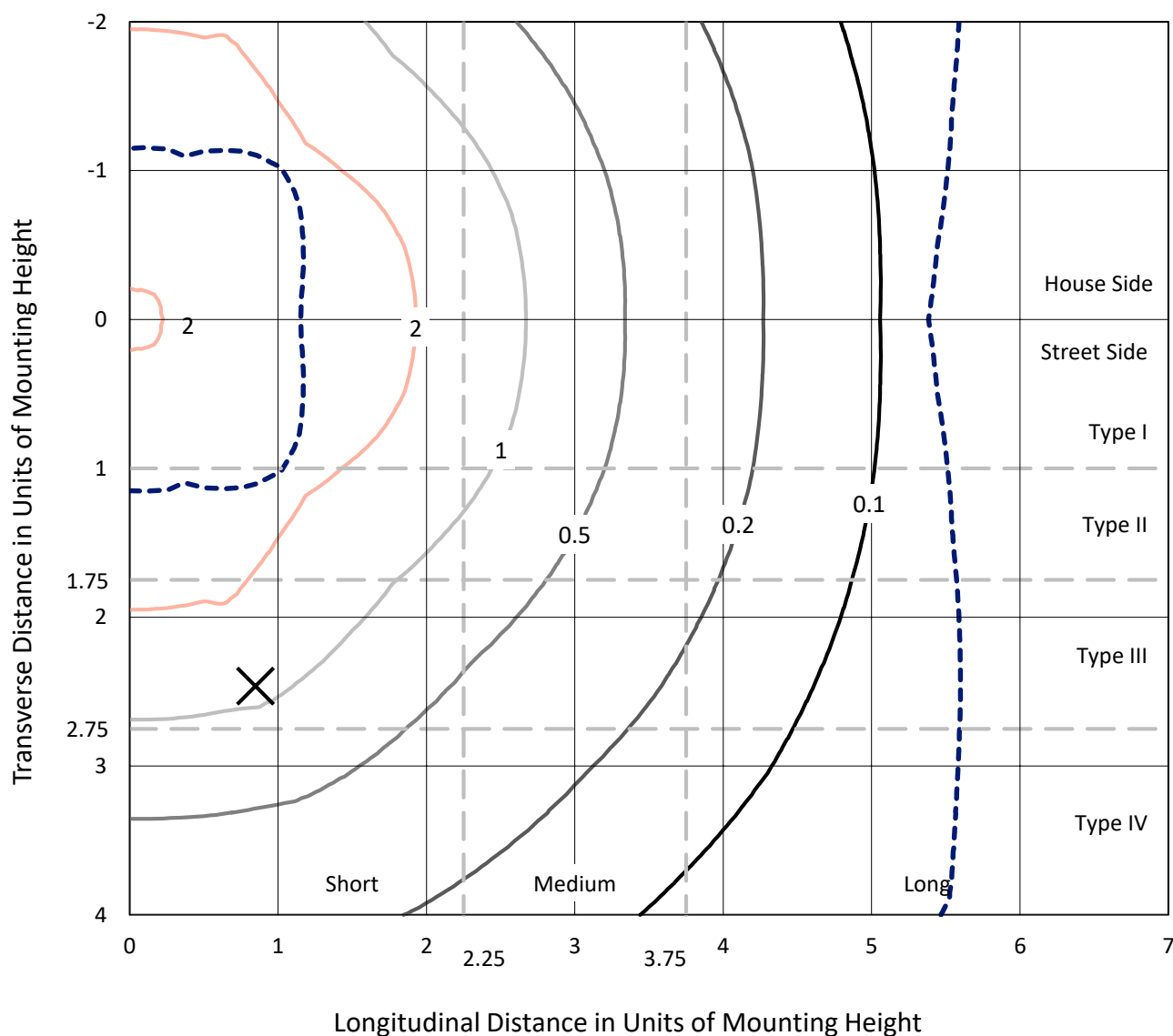
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

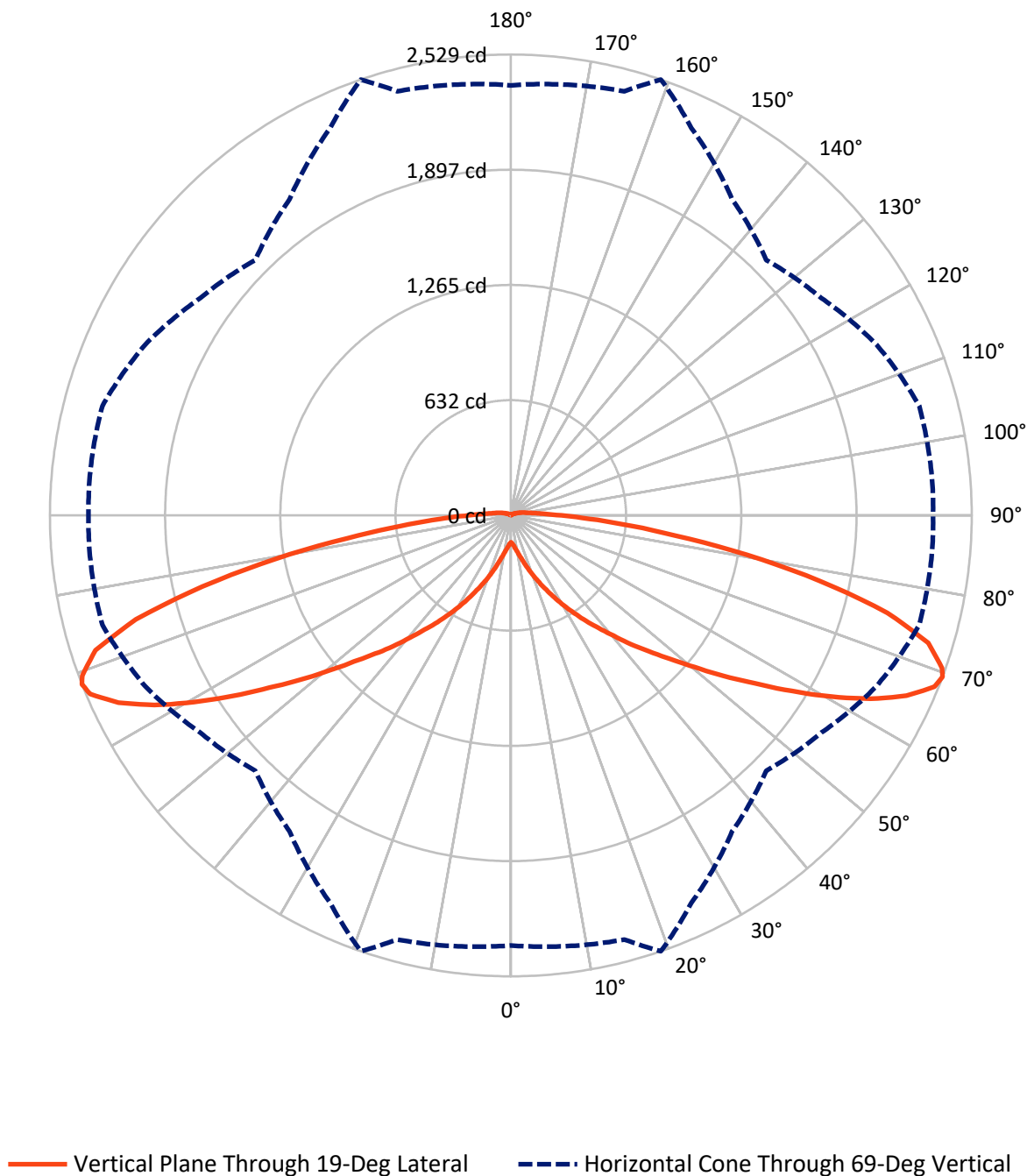


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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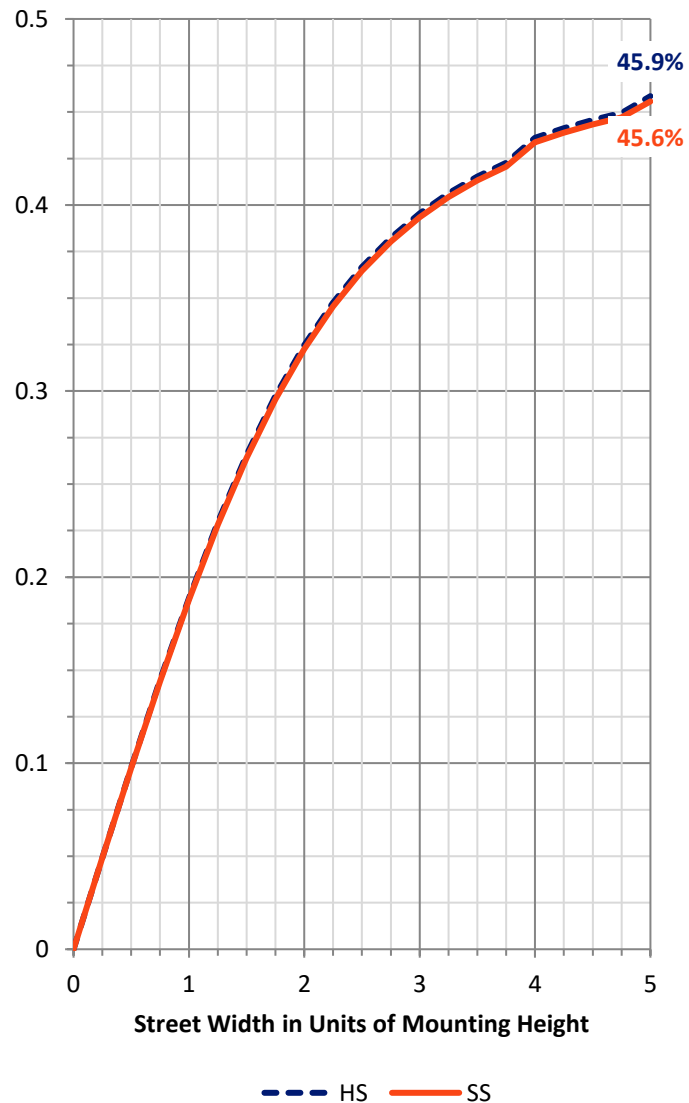
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3835.1	162.2	3997.2
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3835.1	162.2	3997.2
	% Fixture	48.0	2.0	50.0
Total	Lumens	7670.1	324.4	7994.5
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.2
10°-20°	71.4	0.9
20°-30°	194.7	2.4
30°-40°	411.7	5.1
40°-50°	751.7	9.4
50°-60°	1312.9	16.4
60°-70°	2058.0	25.7
70°-80°	2030.3	25.4
80°-90°	823.3	10.3
90°-100°	198.4	2.5
100°-110°	72.4	0.9
110°-120°	30.4	0.4
120°-130°	14.0	0.2
130°-140°	6.5	0.1
140°-150°	2.3	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7670.1	95.9
0°-180°	7994.5	100.0

Coefficient of Utilization



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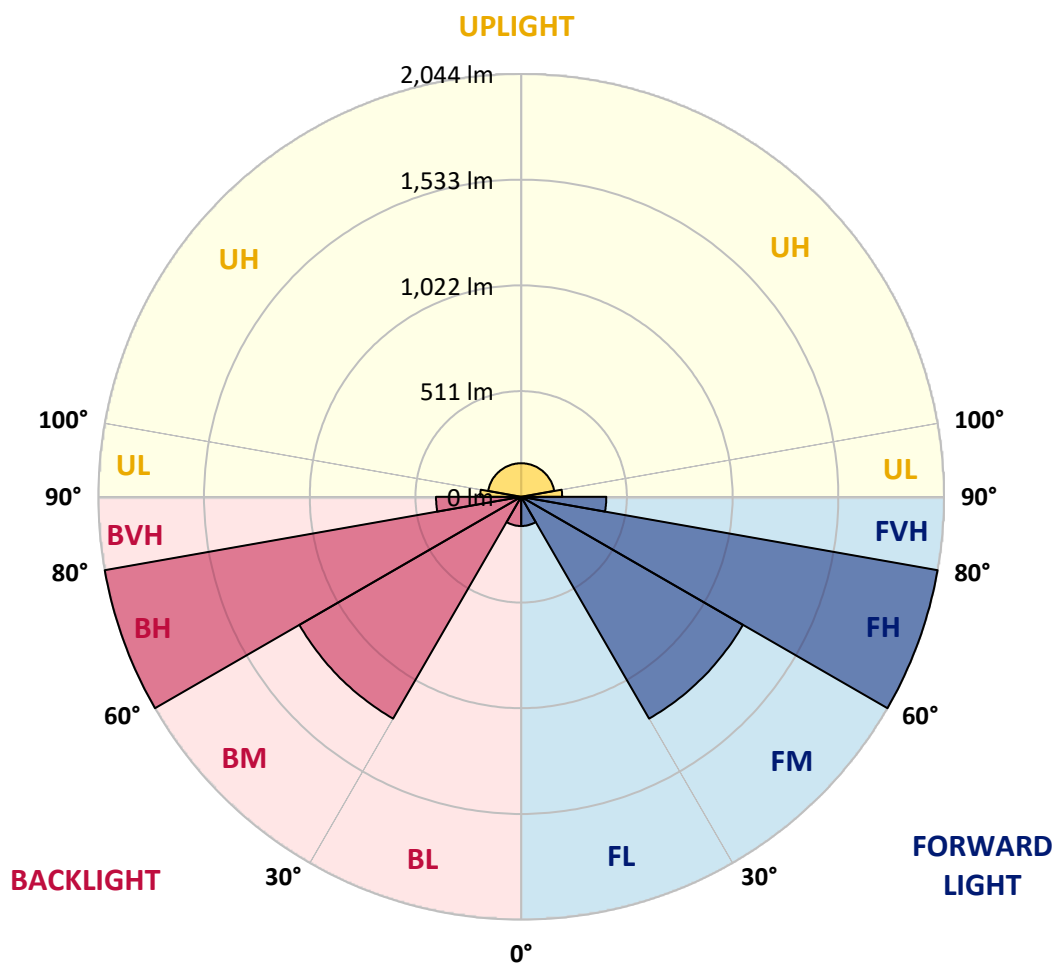
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.1	1.8			
FM	(30°-60°)	1238.1	15.5			
FH	(60°-80°)	2044.2	25.6			G2/5000
FVH	(80°-90°)	411.7	5.1			G3/500
BL	(0°-30°)	141.1	1.8	B1/500		
BM	(30°-60°)	1238.1	15.5	B2/2500		
BH	(60°-80°)	2044.2	25.6	B3/2500		G2/5000
BVH	(80°-90°)	411.7	5.1			G3/500
UL	(90°-100°)	198.4	2.5		U3/500	
UH	(100°-180°)	162.2	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°	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9
2.5°	150.9	150.9	150.9	154.7	150.9	150.9	150.9	150.9	150.9	150.9	149.9
5°	158.7	158.7	158.7	167.2	158.7	157.7	157.7	158.7	157.7	157.7	157.7
7.5°	173.1	172.2	172.2	183.8	172.2	171.2	170.2	170.2	170.2	169.3	169.3
10°	192.6	191.5	190.5	206.0	189.6	188.6	187.6	186.7	186.7	186.7	187.6
12.5°	217.7	217.7	215.7	233.0	212.7	209.9	207.9	206.9	207.9	208.9	209.9
15°	249.5	250.5	247.6	265.9	240.8	236.0	233.0	233.0	235.0	237.9	240.8
17.5°	292.0	291.0	285.2	307.6	277.6	267.9	261.1	262.1	268.9	276.7	281.5
20°	338.4	335.7	328.9	351.0	317.2	302.7	295.0	296.9	308.5	321.1	327.9
22.5°	389.7	386.9	377.2	399.5	359.8	341.4	333.7	336.6	351.0	369.4	383.0
25°	445.9	444.9	431.3	451.7	405.3	383.0	372.3	379.1	399.5	427.5	443.9
27.5°	507.7	505.9	488.4	510.7	456.4	429.4	416.9	423.6	450.7	487.4	513.5
30°	575.5	573.5	549.3	573.5	510.7	475.9	461.3	472.0	504.9	554.2	583.2
32.5°	648.0	646.0	616.1	639.2	570.7	526.2	506.8	521.2	563.9	618.0	656.7
35°	724.4	719.6	688.7	710.8	634.5	578.4	555.1	577.4	624.8	688.7	732.1
37.5°	806.7	800.9	765.1	784.4	701.2	637.4	611.3	631.5	691.5	759.3	812.5
40°	891.8	886.8	843.4	868.5	777.6	700.3	669.3	694.5	763.0	834.6	889.8
42.5°	981.7	976.9	935.3	967.2	859.8	768.8	733.1	765.1	839.5	918.8	978.8
45°	1074.6	1072.6	1032.9	1063.8	948.8	849.2	808.5	845.3	926.5	1014.6	1072.6
47.5°	1187.6	1176.0	1146.1	1176.0	1055.2	947.9	897.6	936.3	1026.2	1121.9	1180.0
50°	1299.8	1297.9	1271.8	1308.6	1175.1	1049.3	994.3	1038.7	1141.2	1239.9	1295.0
52.5°	1433.4	1437.2	1409.1	1464.3	1314.4	1178.1	1112.3	1162.5	1276.7	1372.4	1426.6
55°	1576.5	1578.5	1566.8	1625.8	1464.3	1311.4	1241.8	1297.0	1414.1	1519.5	1570.7
57.5°	1742.8	1740.9	1737.0	1818.3	1640.3	1471.0	1385.0	1451.7	1573.6	1680.0	1722.6
60°	1907.2	1907.2	1917.0	2018.4	1826.0	1635.5	1535.8	1612.2	1740.9	1853.1	1884.0
62.5°	2085.2	2088.2	2096.8	2215.8	2004.0	1802.8	1688.7	1771.8	1917.0	2020.4	2045.6
65°	2230.3	2243.8	2263.2	2386.0	2181.0	1954.6	1834.7	1922.8	2071.7	2174.2	2189.7
67.5°	2335.8	2342.5	2379.2	2507.0	2311.5	2075.6	1944.0	2035.0	2181.9	2286.4	2296.1
69°	2359.9	2375.4	2409.1	2529.2	2345.4	2117.1	1981.8	2079.4	2214.8	2320.2	2320.2
70°	2349.3	2368.6	2409.1	2510.8	2353.1	2130.7	1998.2	2089.0	2221.6	2319.2	2316.4
72.5°	2232.2	2245.8	2315.4	2395.7	2294.1	2103.6	1990.4	2068.9	2161.5	2229.3	2212.0
75°	1985.6	1999.1	2077.4	2134.5	2109.4	1976.0	1895.6	1946.9	1991.4	1998.2	1965.2
77.5°	1604.6	1624.8	1733.2	1737.0	1812.5	1760.2	1717.7	1736.0	1708.0	1677.0	1605.4
80°	1210.9	1225.5	1325.0	1315.4	1440.1	1473.1	1468.1	1457.5	1373.4	1275.7	1195.4
82.5°	839.5	851.1	950.8	906.2	1069.6	1149.0	1177.0	1140.3	1012.7	902.4	830.8
85°	537.8	557.1	635.5	606.4	751.4	847.2	888.9	831.8	710.8	604.5	544.5
87.5°	348.2	355.9	413.0	388.9	499.1	597.7	642.2	595.8	488.4	399.5	349.2
90°	224.4	233.0	268.9	250.5	333.7	411.1	448.7	405.3	330.7	267.9	233.0
92.5°	156.7	163.5	183.8	173.1	224.4	283.4	317.2	283.4	229.2	189.6	164.4
95°	119.9	122.8	137.3	127.7	163.5	205.1	225.4	205.1	167.2	142.1	124.8
97.5°	94.8	96.7	107.4	99.7	122.8	152.9	168.3	153.7	128.6	111.2	97.7
100°	76.4	77.3	86.1	82.2	98.7	119.9	130.6	121.0	103.5	88.9	78.3
102.5°	62.0	62.0	70.6	68.7	81.3	96.7	104.5	99.7	85.1	72.5	62.0
105°	49.2	49.2	57.1	57.1	67.7	79.3	86.1	81.3	69.6	58.0	49.2
107.5°	38.7	39.7	45.5	45.5	56.0	65.8	70.6	66.7	57.1	45.5	38.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	30.9	31.9	36.7	37.7	46.4	55.1	59.0	55.1	46.4	35.8	29.9
112.5°	25.1	25.1	29.9	29.9	37.7	45.5	48.4	45.5	37.7	28.1	24.1
115°	21.3	21.3	24.1	24.1	30.9	37.7	40.7	37.7	29.9	23.2	20.3
117.5°	18.3	18.3	20.3	20.3	26.1	31.9	33.9	30.9	25.1	19.3	17.4
120°	16.4	16.4	17.4	17.4	21.3	26.1	28.1	26.1	20.3	16.4	15.6
122.5°	14.5	14.5	15.6	14.5	18.3	22.3	23.2	21.3	17.4	14.5	13.5
125°	13.5	13.5	13.5	12.6	15.6	18.3	19.3	17.4	14.5	12.6	12.6
127.5°	11.6	11.6	11.6	10.6	12.6	15.6	16.4	14.5	12.6	11.6	10.6
130°	10.6	10.6	10.6	9.8	11.6	12.6	13.5	12.6	10.6	10.6	10.6
132.5°	9.8	9.8	9.8	8.7	9.8	10.6	10.6	9.8	8.7	8.7	9.8
135°	8.7	8.7	8.7	7.7	7.7	7.7	8.7	7.7	7.7	7.7	8.7
137.5°	7.7	7.7	7.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.7
140°	6.8	6.8	6.8	4.8	5.8	4.8	4.8	4.8	5.8	5.8	6.8
142.5°	5.8	5.8	4.8	4.8	4.8	3.9	2.9	3.9	3.9	4.8	5.8
145°	4.8	4.8	3.9	3.9	3.9	2.9	1.9	1.9	3.9	3.9	3.9
147.5°	3.9	3.9	2.9	2.9	2.9	1.9	1.0	1.9	2.9	2.9	3.9
150°	2.9	2.9	1.9	1.9	1.9	1.0	1.0	1.0	1.9	1.9	2.9
152.5°	1.9	1.9	1.9	1.0	1.0	1.0	0.0	1.0	1.0	1.9	1.9
155°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
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°	147.9
2.5°	149.9
5°	157.7
7.5°	169.3
10°	186.7
12.5°	210.9
15°	240.8
17.5°	280.5
20°	329.9
22.5°	386.9
25°	448.7
27.5°	516.5
30°	587.0
32.5°	663.5
35°	740.9
37.5°	817.3
40°	899.4
42.5°	982.7
45°	1075.4
47.5°	1182.8
50°	1305.6
52.5°	1432.4
55°	1566.8
57.5°	1722.6
60°	1886.9
62.5°	2047.5
65°	2185.8
67.5°	2293.2
69°	2317.4
70°	2309.6
72.5°	2191.6
75°	1941.1
77.5°	1589.0
80°	1169.3
82.5°	800.9
85°	532.0
87.5°	340.5
90°	223.4
92.5°	159.6
95°	121.0
97.5°	95.7
100°	76.4
102.5°	62.0
105°	48.4
107.5°	37.7



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CANDELA DISTRIBUTION (continued):

	90°
110°	29.9
112.5°	24.1
115°	20.3
117.5°	17.4
120°	14.5
122.5°	13.5
125°	12.6
127.5°	10.6
130°	10.6
132.5°	9.8
135°	8.7
137.5°	7.7
140°	6.8
142.5°	5.8
145°	4.8
147.5°	2.9
150°	2.9
152.5°	1.9
155°	1.0
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)