

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: P240368

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240368
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-AF24-90-D-U-5WQ-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA 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: 7978.1 lumens
Efficiency: N/A
Efficacy: 84.9 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): 94
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

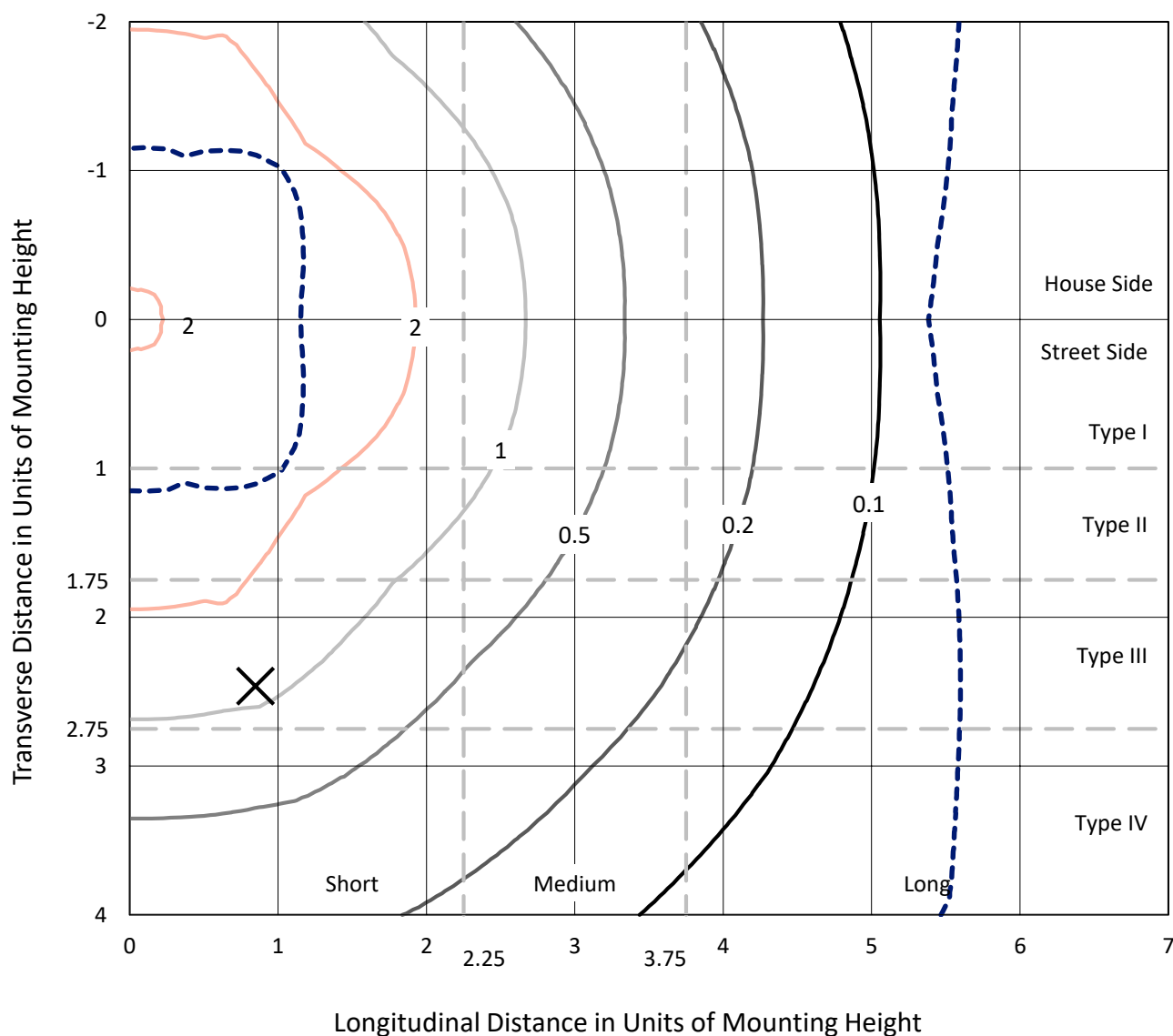


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

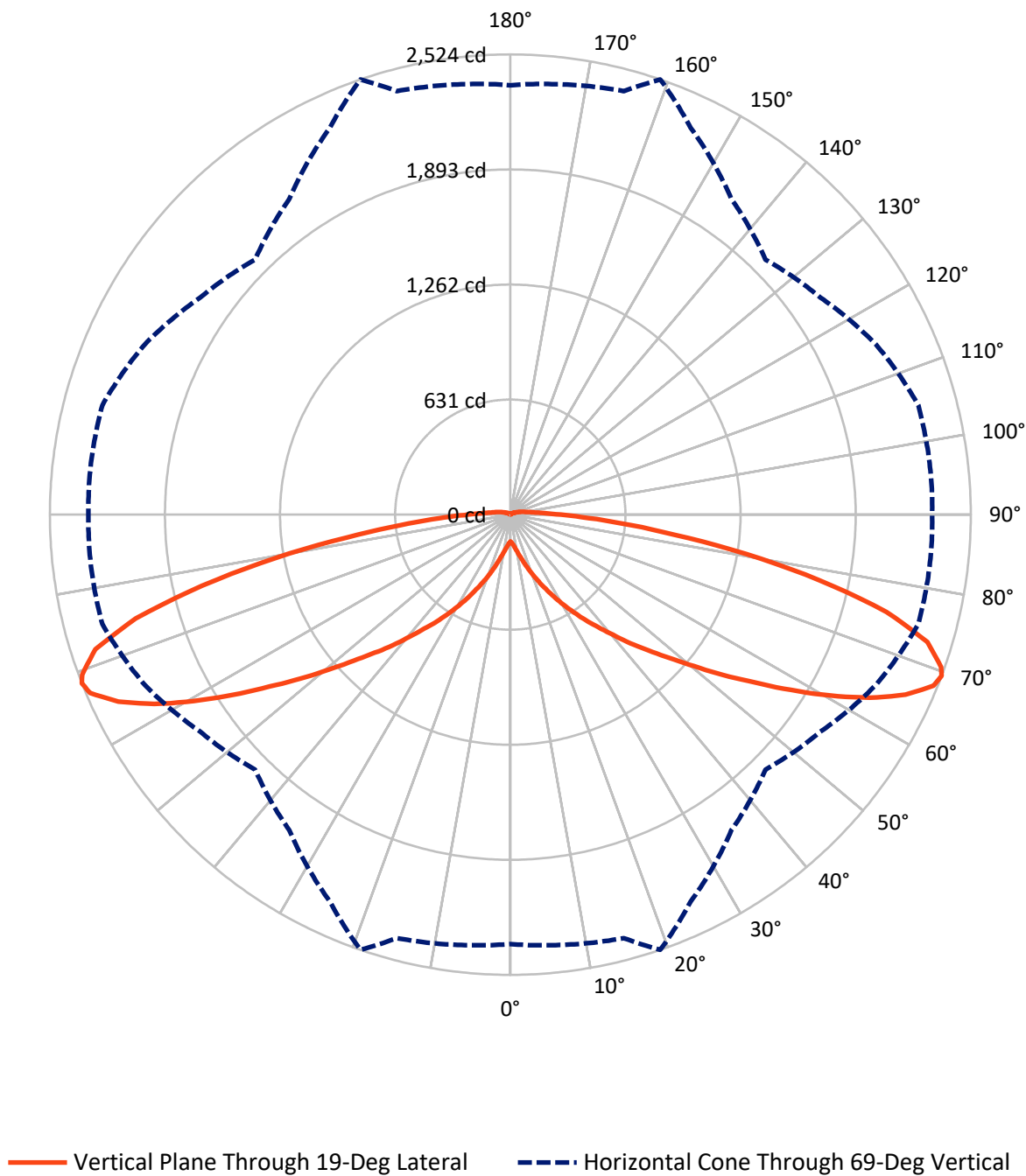


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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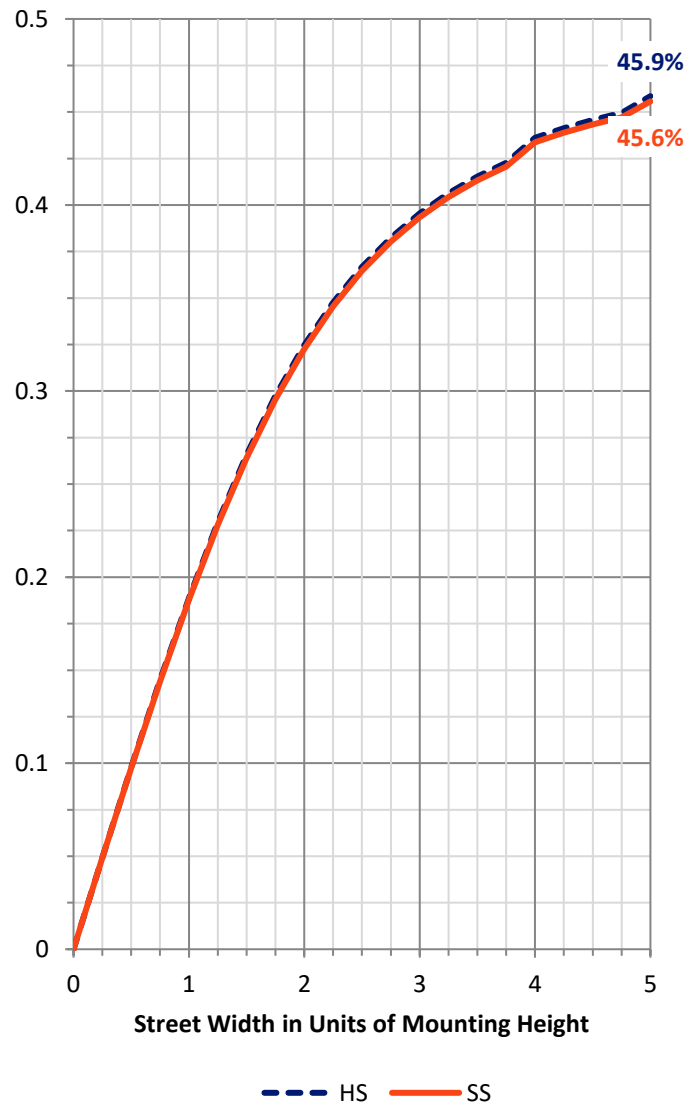
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.2	161.9	3989.1
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3827.2	161.9	3989.1
	% Fixture	48.0	2.0	50.0
Total	Lumens	7654.4	323.7	7978.1
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.2
10°-20°	71.2	0.9
20°-30°	194.3	2.4
30°-40°	410.8	5.1
40°-50°	750.1	9.4
50°-60°	1310.2	16.4
60°-70°	2053.8	25.7
70°-80°	2026.2	25.4
80°-90°	821.6	10.3
90°-100°	198.0	2.5
100°-110°	72.2	0.9
110°-120°	30.4	0.4
120°-130°	13.9	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°	7654.4	95.9
0°-180°	7978.1	100.0

Coefficient of Utilization



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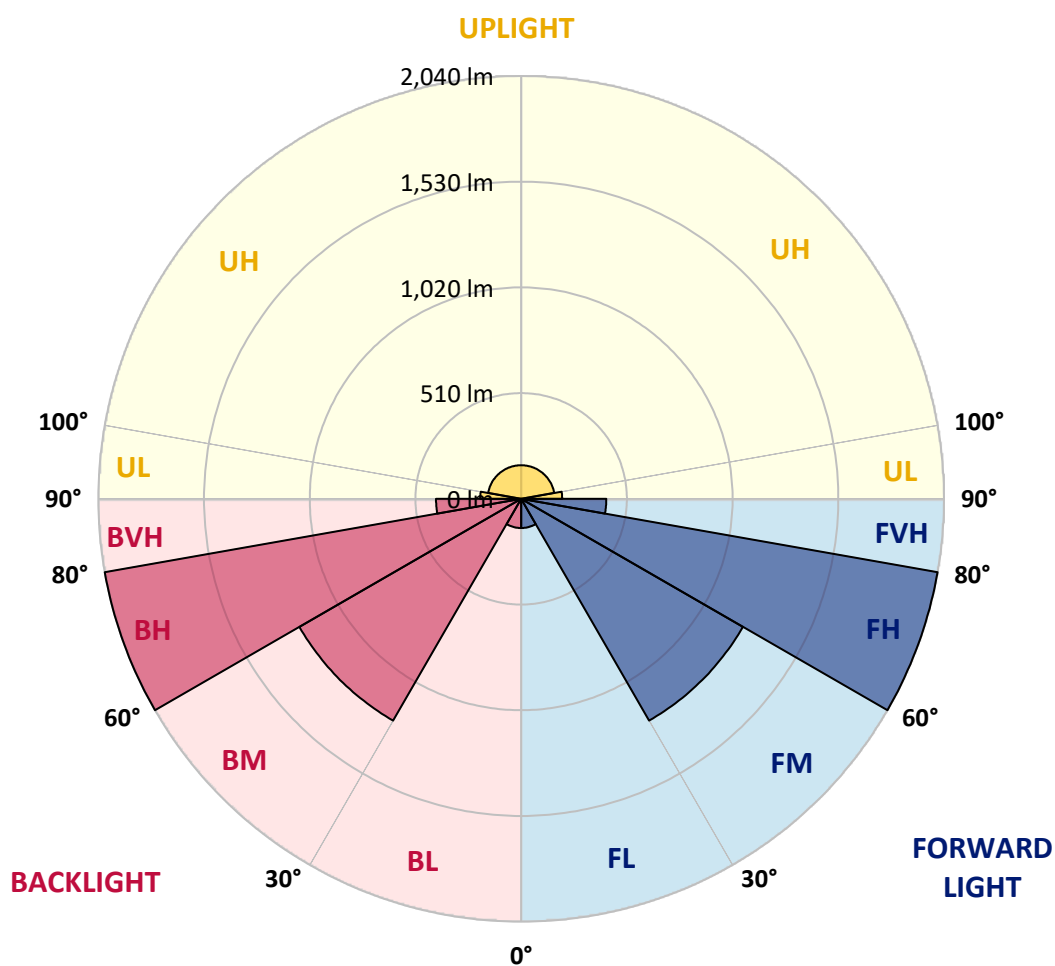
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.8	1.8			
FM	(30°-60°)	1235.6	15.5			
FH	(60°-80°)	2040.0	25.6			G2/5000
FVH	(80°-90°)	410.8	5.1			G3/500
BL	(0°-30°)	140.8	1.8	B1/500		
BM	(30°-60°)	1235.6	15.5	B2/2500		
BH	(60°-80°)	2040.0	25.6	B3/2500		G2/5000
BVH	(80°-90°)	410.8	5.1			G3/500
UL	(90°-100°)	198.0	2.5		U3/500	
UH	(100°-180°)	161.9	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°	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7
2.5°	150.6	150.6	150.6	154.4	150.6	150.6	150.6	150.6	150.6	150.6	149.5
5°	158.3	158.3	158.3	166.9	158.3	157.4	157.4	158.3	157.4	157.4	157.4
7.5°	172.7	171.7	171.7	183.3	171.7	170.9	169.9	169.9	169.9	169.0	169.0
10°	192.1	191.1	190.1	205.6	189.1	188.3	187.3	186.3	186.3	186.3	187.3
12.5°	217.2	217.2	215.2	232.6	212.3	209.4	207.5	206.5	207.5	208.4	209.4
15°	249.0	249.9	247.0	265.4	240.4	235.5	232.6	232.6	234.6	237.4	240.4
17.5°	291.5	290.5	284.7	306.9	277.0	267.3	260.6	261.5	268.3	276.0	280.9
20°	337.8	334.9	328.3	350.4	316.7	302.1	294.4	296.3	307.9	320.4	327.2
22.5°	389.0	386.1	376.4	398.6	359.0	340.7	333.0	335.9	350.4	368.8	382.2
25°	444.9	444.0	430.5	450.7	404.4	382.2	371.6	378.4	398.6	426.6	443.0
27.5°	506.8	504.8	487.4	509.5	455.6	428.6	415.9	422.8	449.8	486.4	512.5
30°	574.2	572.4	548.3	572.4	509.5	474.8	460.4	471.0	503.8	553.1	582.1
32.5°	646.7	644.7	614.8	638.0	569.5	525.1	505.8	520.2	562.6	616.8	655.3
35°	723.0	718.1	687.2	709.4	633.1	577.2	554.1	576.3	623.6	687.2	730.6
37.5°	804.9	799.1	763.5	782.8	699.8	636.1	610.0	630.3	690.1	757.7	810.7
40°	889.9	885.1	841.7	866.8	776.0	698.8	667.9	693.0	761.5	833.0	888.0
42.5°	979.6	974.8	933.3	965.2	858.0	767.3	731.6	763.5	837.8	916.9	976.8
45°	1072.3	1070.4	1030.9	1061.7	946.8	847.5	806.9	843.6	924.7	1012.5	1070.4
47.5°	1185.3	1173.7	1143.7	1173.7	1053.0	945.8	895.7	934.2	1024.1	1119.6	1177.5
50°	1297.2	1295.3	1269.3	1305.8	1172.7	1047.2	992.2	1036.7	1138.9	1237.4	1292.4
52.5°	1430.4	1434.2	1406.2	1461.4	1311.6	1175.6	1110.0	1160.2	1274.1	1369.6	1423.6
55°	1573.3	1575.2	1563.6	1622.5	1461.4	1308.8	1239.3	1294.2	1411.1	1516.3	1567.5
57.5°	1739.3	1737.3	1733.5	1814.6	1636.9	1468.0	1382.1	1448.8	1570.4	1676.6	1718.9
60°	1903.3	1903.3	1913.0	2014.3	1822.2	1632.2	1532.7	1609.0	1737.3	1849.3	1880.2
62.5°	2081.0	2083.8	2092.6	2211.2	1999.9	1799.1	1685.3	1768.3	1913.0	2016.3	2041.4
65°	2225.7	2239.3	2258.5	2381.1	2176.5	1950.6	1830.9	1918.8	2067.4	2169.8	2185.1
67.5°	2330.9	2337.7	2374.3	2501.8	2306.8	2071.3	1940.0	2030.8	2177.4	2281.7	2291.3
69°	2355.1	2370.5	2404.2	2524.0	2340.6	2112.7	1977.7	2075.2	2210.4	2315.5	2315.5
70°	2344.4	2363.8	2404.2	2505.7	2348.3	2126.3	1994.1	2084.7	2217.0	2314.5	2311.6
72.5°	2227.7	2241.1	2310.7	2390.8	2289.4	2099.3	1986.4	2064.6	2157.3	2224.7	2207.4
75°	1981.5	1995.1	2073.2	2130.1	2105.1	1971.9	1891.8	1942.9	1987.3	1994.1	1961.3
77.5°	1601.2	1621.5	1729.6	1733.5	1808.8	1756.7	1714.2	1732.6	1704.6	1673.7	1602.2
80°	1208.4	1222.9	1322.2	1312.6	1437.2	1470.0	1465.1	1454.6	1370.5	1273.1	1193.0
82.5°	837.8	849.4	948.8	904.3	1067.5	1146.6	1174.6	1137.9	1010.5	900.6	829.1
85°	536.7	555.9	634.1	605.2	749.9	845.5	886.9	830.1	709.4	603.2	543.3
87.5°	347.5	355.2	412.1	388.0	498.0	596.4	641.0	594.6	487.4	398.6	348.4
90°	223.9	232.6	268.3	249.9	333.0	410.2	447.9	404.4	330.1	267.3	232.6
92.5°	156.3	163.2	183.3	172.7	223.9	282.8	316.7	282.8	228.8	189.1	164.1
95°	119.6	122.6	137.0	127.4	163.2	204.7	224.8	204.7	166.9	141.9	124.5
97.5°	94.6	96.4	107.2	99.4	122.6	152.5	167.9	153.5	128.4	111.0	97.5
100°	76.3	77.2	85.9	82.1	98.5	119.6	130.3	120.6	103.2	88.8	78.2
102.5°	61.7	61.7	70.5	68.5	81.1	96.4	104.3	99.4	84.9	72.4	61.7
105°	49.2	49.2	57.0	57.0	67.5	79.1	85.9	81.1	69.5	57.9	49.2
107.5°	38.6	39.6	45.4	45.4	55.9	65.7	70.5	66.6	57.0	45.4	38.6



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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	46.3	55.0	58.9	55.0	46.3	35.7	29.9
112.5°	25.1	25.1	29.9	29.9	37.7	45.4	48.3	45.4	37.7	28.0	24.1
115°	21.2	21.2	24.1	24.1	30.9	37.7	40.5	37.7	29.9	23.2	20.3
117.5°	18.3	18.3	20.3	20.3	26.1	31.9	33.8	30.9	25.1	19.3	17.4
120°	16.4	16.4	17.4	17.4	21.2	26.1	28.0	26.1	20.3	16.4	15.4
122.5°	14.5	14.5	15.4	14.5	18.3	22.2	23.2	21.2	17.4	14.5	13.5
125°	13.5	13.5	13.5	12.6	15.4	18.3	19.3	17.4	14.5	12.6	12.6
127.5°	11.6	11.6	11.6	10.6	12.6	15.4	16.4	14.5	12.6	11.6	10.6
130°	10.6	10.6	10.6	9.7	11.6	12.6	13.5	12.6	10.6	10.6	10.6
132.5°	9.7	9.7	9.7	8.7	9.7	10.6	10.6	9.7	8.7	8.7	9.7
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°	147.7
2.5°	149.5
5°	157.4
7.5°	169.0
10°	186.3
12.5°	210.5
15°	240.4
17.5°	279.9
20°	329.1
22.5°	386.1
25°	447.9
27.5°	515.3
30°	585.8
32.5°	662.1
35°	739.3
37.5°	815.6
40°	897.7
42.5°	980.6
45°	1073.3
47.5°	1180.4
50°	1303.0
52.5°	1429.4
55°	1563.6
57.5°	1718.9
60°	1883.1
62.5°	2043.2
65°	2181.4
67.5°	2288.4
69°	2312.6
70°	2304.9
72.5°	2187.2
75°	1937.1
77.5°	1585.8
80°	1166.9
82.5°	799.1
85°	530.9
87.5°	339.8
90°	223.0
92.5°	159.3
95°	120.6
97.5°	95.6
100°	76.3
102.5°	61.7
105°	48.3
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°	9.7
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)