

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: P240377

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240377
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 8438.4 lumens
Efficiency: N/A
Efficacy: 89.8 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



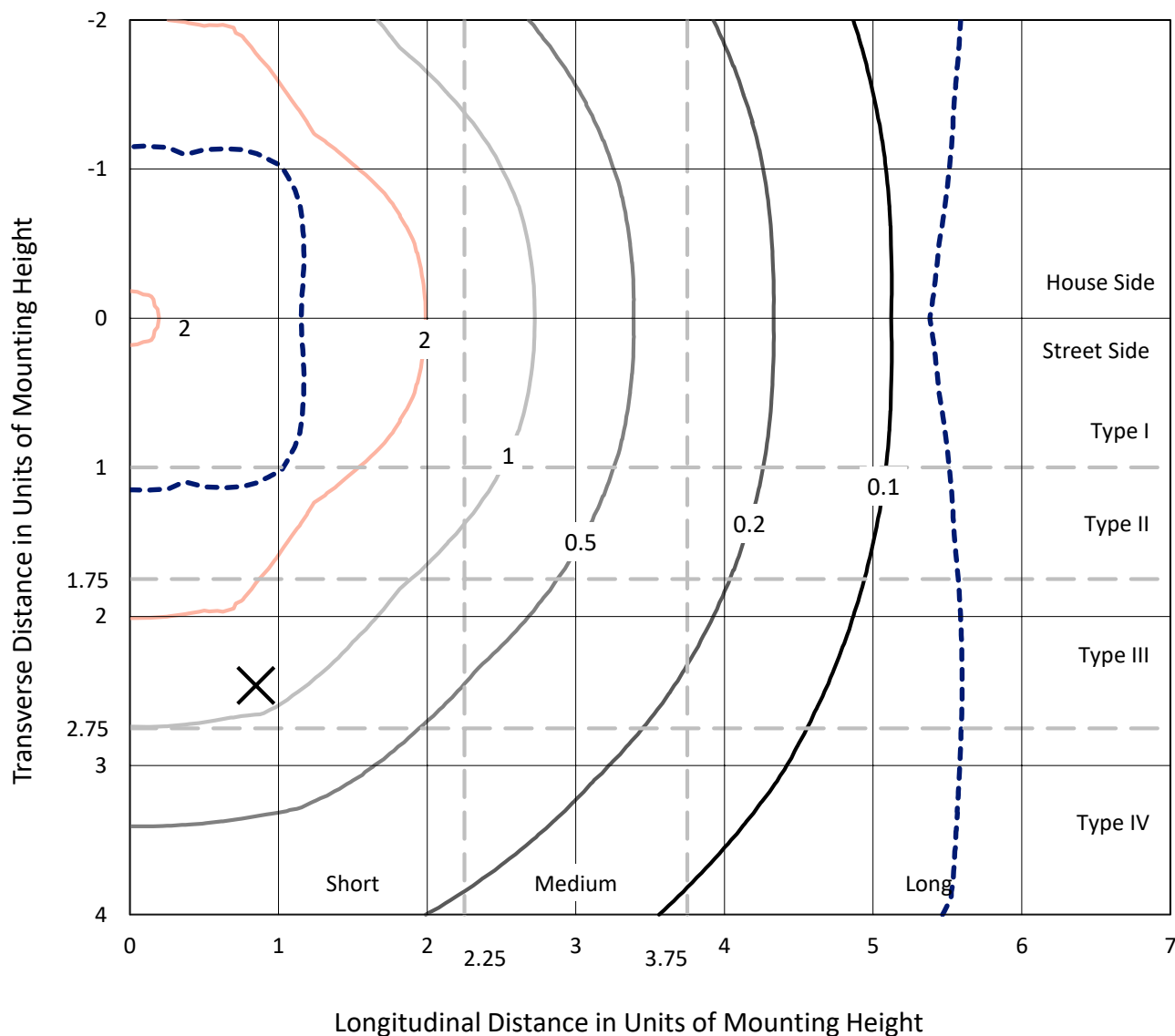
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

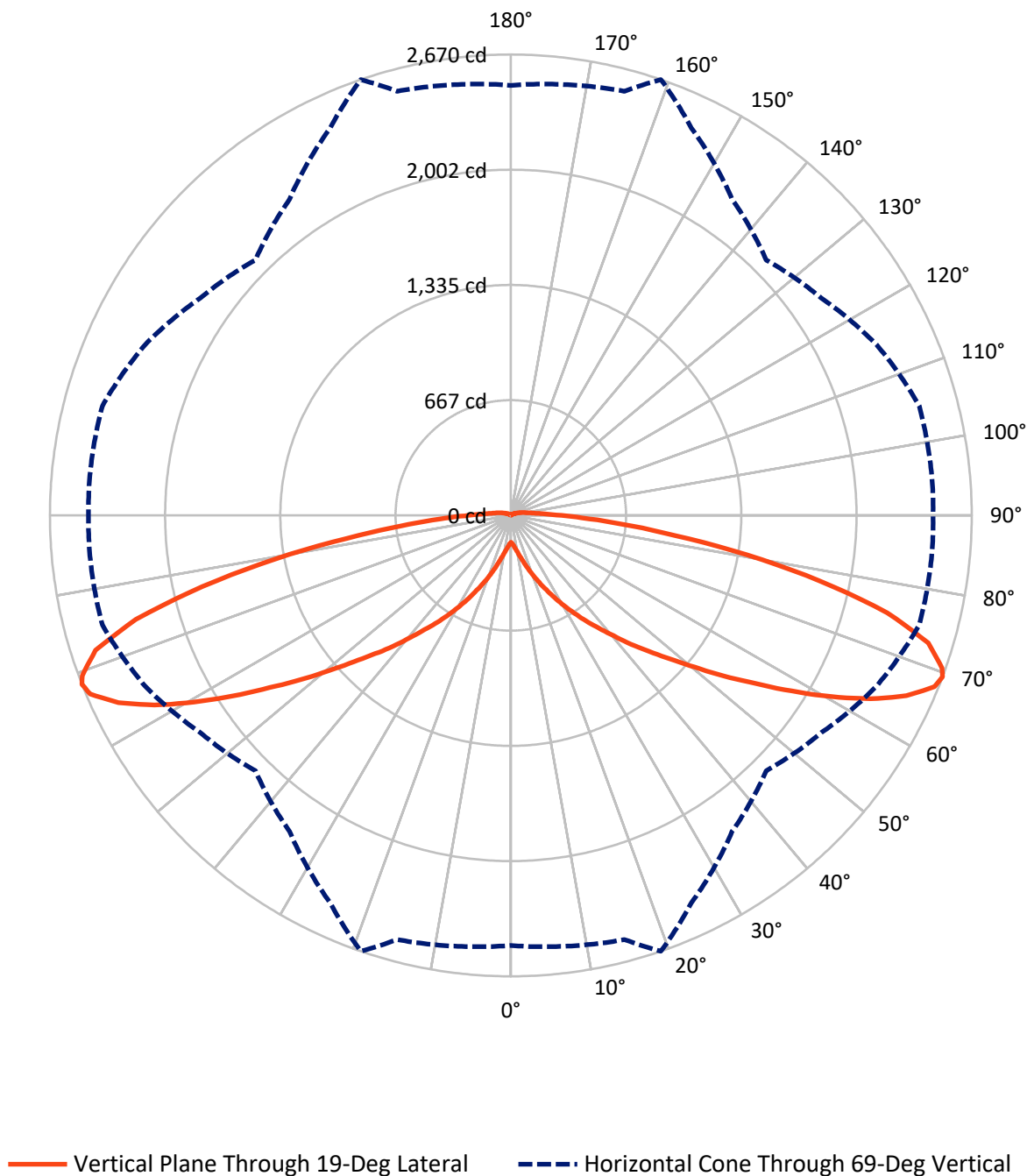


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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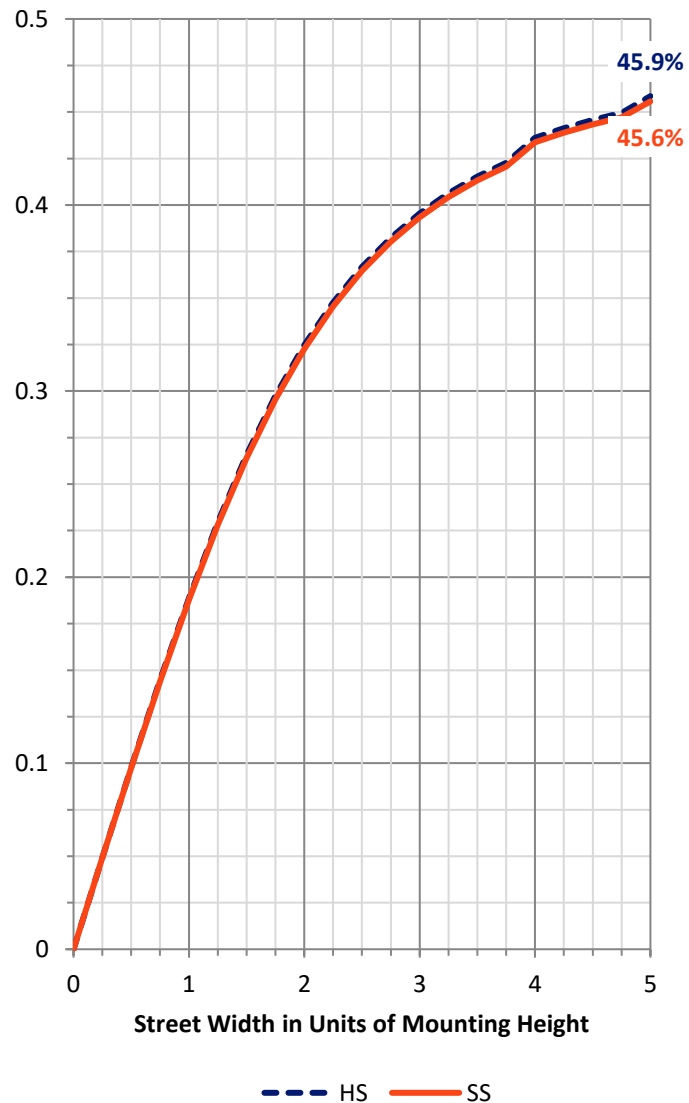
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4048.0	171.2	4219.2
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	4048.0	171.2	4219.2
	% Fixture	48.0	2.0	50.0
Total	Lumens	8095.9	342.4	8438.4
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	0.2
10°-20°	75.4	0.9
20°-30°	205.5	2.4
30°-40°	434.5	5.1
40°-50°	793.4	9.4
50°-60°	1385.8	16.4
60°-70°	2172.3	25.7
70°-80°	2143.0	25.4
80°-90°	869.0	10.3
90°-100°	209.4	2.5
100°-110°	76.4	0.9
110°-120°	32.1	0.4
120°-130°	14.8	0.2
130°-140°	6.9	0.1
140°-150°	2.4	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8095.9	95.9
0°-180°	8438.4	100.0

Coefficient of Utilization



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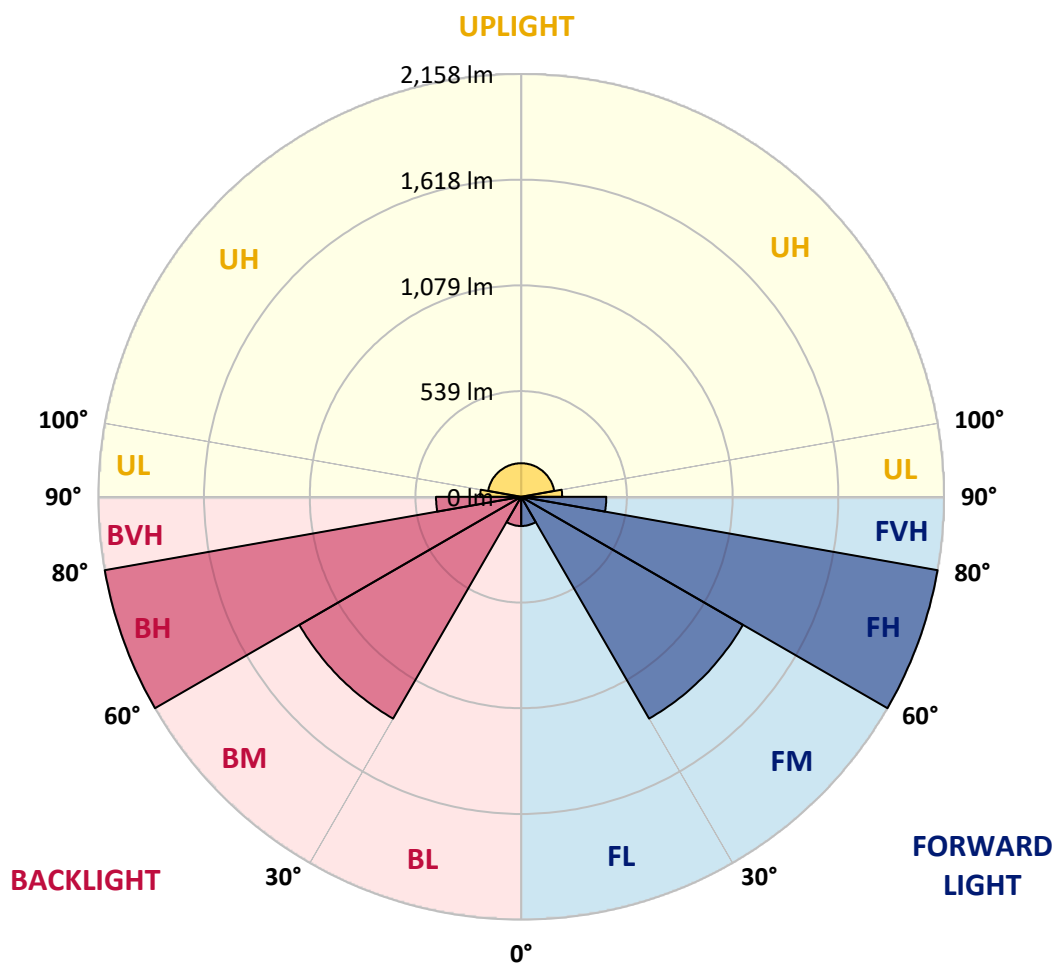
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.0	1.8			
FM	(30°-60°)	1306.9	15.5			
FH	(60°-80°)	2157.6	25.6			G2/5000
FVH	(80°-90°)	434.5	5.1			G3/500
BL	(0°-30°)	149.0	1.8	B1/500		
BM	(30°-60°)	1306.9	15.5	B2/2500		
BH	(60°-80°)	2157.6	25.6	B3/2500		G2/5000
BVH	(80°-90°)	434.5	5.1			G3/500
UL	(90°-100°)	209.4	2.5		U3/500	
UH	(100°-180°)	171.2	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°	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2	156.2
2.5°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	158.3
5°	167.5	167.5	167.5	167.5	166.4	166.4	166.4	166.4	166.4	166.4	166.4
7.5°	182.7	181.7	181.7	181.7	180.7	179.6	179.6	179.6	179.6	178.6	178.6
10°	203.2	202.1	201.1	201.1	199.1	198.0	197.0	197.0	197.0	197.0	198.0
12.5°	229.7	229.7	227.6	227.6	224.6	221.6	219.5	218.5	219.5	220.5	221.6
15°	263.4	264.4	261.4	261.4	254.2	249.1	246.0	246.0	248.1	251.1	254.2
17.5°	308.3	307.3	301.2	301.2	293.0	282.7	275.6	276.6	283.8	292.0	297.1
20°	357.3	354.2	347.1	347.1	334.8	319.6	311.4	313.4	325.6	338.9	346.1
22.5°	411.4	408.4	398.1	398.1	379.7	360.4	352.2	355.3	370.6	389.9	404.3
25°	470.7	469.6	455.3	455.3	427.7	404.3	393.0	400.2	421.7	451.2	468.6
27.5°	535.9	533.9	515.6	515.6	481.8	453.3	440.0	447.1	475.7	514.5	542.1
30°	607.4	605.4	579.8	579.8	539.0	502.3	486.9	498.2	532.9	584.9	615.6
32.5°	683.9	681.9	650.3	650.3	602.3	555.4	534.9	550.2	595.2	652.3	693.2
35°	764.7	759.5	726.8	726.8	669.7	610.5	585.9	609.5	659.5	726.8	772.8
37.5°	851.4	845.3	807.5	807.5	740.1	672.8	645.2	666.7	729.9	801.4	857.5
40°	941.2	936.1	890.2	890.2	820.8	739.1	706.4	732.9	805.5	881.0	939.2
42.5°	1036.1	1031.0	987.1	987.1	907.6	811.6	773.9	807.5	886.1	969.9	1033.1
45°	1134.1	1132.1	1090.3	1090.3	1001.5	896.3	853.4	892.2	977.9	1070.9	1132.1
47.5°	1253.6	1241.4	1209.7	1209.7	1113.8	1000.4	947.4	988.2	1083.1	1184.2	1245.4
50°	1372.1	1370.0	1342.4	1342.4	1240.3	1107.7	1049.4	1096.4	1204.6	1308.8	1367.0
52.5°	1512.9	1517.0	1487.4	1487.4	1387.3	1243.4	1174.0	1227.0	1347.5	1448.6	1505.8
55°	1664.0	1666.1	1653.8	1653.8	1545.6	1384.3	1310.8	1369.0	1492.5	1603.8	1657.9
57.5°	1839.6	1837.5	1833.4	1833.4	1731.3	1552.7	1461.9	1532.3	1661.0	1773.3	1818.2
60°	2013.2	2013.2	2023.4	2023.4	1927.3	1726.2	1621.2	1701.8	1837.5	1956.0	1988.6
62.5°	2201.0	2204.0	2213.3	2213.3	2115.3	1902.9	1782.4	1870.3	2023.4	2132.5	2159.1
65°	2354.1	2368.4	2388.8	2388.8	2302.0	2063.2	1936.5	2029.4	2186.7	2294.9	2311.3
67.5°	2465.4	2472.6	2511.3	2511.3	2439.8	2190.8	2051.9	2147.9	2303.1	2413.3	2423.6
69°	2490.9	2507.3	2543.0	2543.0	2475.6	2234.6	2091.7	2194.8	2337.7	2449.0	2449.0
70°	2479.6	2500.1	2543.0	2543.0	2483.7	2249.0	2109.1	2205.1	2344.9	2448.0	2445.0
72.5°	2356.2	2370.5	2443.9	2443.9	2421.5	2220.4	2100.9	2183.6	2281.6	2353.1	2334.7
75°	2095.8	2110.1	2192.8	2192.8	2226.5	2085.6	2000.9	2055.0	2102.0	2109.1	2074.4
77.5°	1693.6	1715.1	1829.3	1829.3	1913.1	1858.0	1813.1	1832.4	1802.8	1770.2	1694.6
80°	1278.1	1293.4	1398.6	1398.6	1520.1	1554.8	1549.7	1538.4	1449.6	1346.5	1261.8
82.5°	886.1	898.4	1003.5	1003.5	1129.0	1212.8	1242.4	1203.6	1068.9	952.5	876.9
85°	567.6	588.0	670.7	670.7	793.2	894.3	938.1	877.9	750.3	638.0	574.8
87.5°	367.5	375.6	435.9	435.9	526.7	630.9	677.8	628.8	515.6	421.7	368.6
90°	236.8	246.0	283.8	283.8	352.2	433.8	473.7	427.7	349.1	282.7	246.0
92.5°	165.4	172.6	194.0	194.0	236.8	299.1	334.8	299.1	241.9	200.1	173.6
95°	126.5	129.6	145.0	145.0	172.6	216.5	237.8	216.5	176.6	150.1	131.7
97.5°	100.0	102.1	113.3	113.3	129.6	161.3	177.6	162.3	135.7	117.4	103.1
100°	80.6	81.6	90.8	90.8	104.1	126.5	137.8	127.6	109.3	93.9	82.7
102.5°	65.4	65.4	74.6	74.6	85.7	102.1	110.3	105.2	89.8	76.5	65.4
105°	52.1	52.1	60.3	60.3	71.5	83.7	90.8	85.7	73.6	61.3	52.1
107.5°	40.8	41.8	48.0	48.0	59.2	69.5	74.6	70.5	60.3	48.0	40.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	32.6	33.7	38.8	39.8	49.0	58.2	62.3	58.2	49.0	37.7	31.6
112.5°	26.5	26.5	31.6	31.6	39.8	48.0	51.0	48.0	39.8	29.6	25.5
115°	22.5	22.5	25.5	25.5	32.6	39.8	42.9	39.8	31.6	24.6	21.5
117.5°	19.4	19.4	21.5	21.5	27.5	33.7	35.7	32.6	26.5	20.5	18.4
120°	17.4	17.4	18.4	18.4	22.5	27.5	29.6	27.5	21.5	17.4	16.4
122.5°	15.3	15.3	16.4	15.3	19.4	23.5	24.6	22.5	18.4	15.3	14.3
125°	14.3	14.3	14.3	13.3	16.4	19.4	20.5	18.4	15.3	13.3	13.3
127.5°	12.3	12.3	12.3	11.3	13.3	16.4	17.4	15.3	13.3	12.3	11.3
130°	11.3	11.3	11.3	10.2	12.3	13.3	14.3	13.3	11.3	11.3	11.3
132.5°	10.2	10.2	10.2	9.2	10.2	11.3	11.3	10.2	9.2	9.2	10.2
135°	9.2	9.2	9.2	8.2	8.2	8.2	9.2	8.2	8.2	8.2	9.2
137.5°	8.2	8.2	8.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.2
140°	7.2	7.2	7.2	5.1	6.1	5.1	5.1	5.1	6.1	6.1	7.2
142.5°	6.1	6.1	5.1	5.1	5.1	4.1	3.1	4.1	4.1	5.1	6.1
145°	5.1	5.1	4.1	4.1	4.1	3.1	2.0	2.0	4.1	4.1	4.1
147.5°	4.1	4.1	3.1	3.1	3.1	2.0	1.0	2.0	3.1	3.1	4.1
150°	3.1	3.1	2.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	3.1
152.5°	2.0	2.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	2.0	2.0
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°	156.2
2.5°	158.3
5°	166.4
7.5°	178.6
10°	197.0
12.5°	222.6
15°	254.2
17.5°	296.0
20°	348.1
22.5°	408.4
25°	473.7
27.5°	545.1
30°	619.7
32.5°	700.3
35°	781.9
37.5°	862.7
40°	949.4
42.5°	1037.2
45°	1135.2
47.5°	1248.5
50°	1378.1
52.5°	1511.9
55°	1653.8
57.5°	1818.2
60°	1991.7
62.5°	2161.2
65°	2307.2
67.5°	2420.5
69°	2446.0
70°	2437.8
72.5°	2313.3
75°	2048.9
77.5°	1677.2
80°	1234.2
82.5°	845.3
85°	561.5
87.5°	359.4
90°	235.8
92.5°	168.5
95°	127.6
97.5°	101.1
100°	80.6
102.5°	65.4
105°	51.0
107.5°	39.8



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CANDELA DISTRIBUTION (continued):

	90°
110°	31.6
112.5°	25.5
115°	21.5
117.5°	18.4
120°	15.3
122.5°	14.3
125°	13.3
127.5°	11.3
130°	11.3
132.5°	10.2
135°	9.2
137.5°	8.2
140°	7.2
142.5°	6.1
145°	5.1
147.5°	3.1
150°	3.1
152.5°	2.0
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)