

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: P266498

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266498
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 7166.8 lumens
Efficiency: N/A
Efficacy: 76.2 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



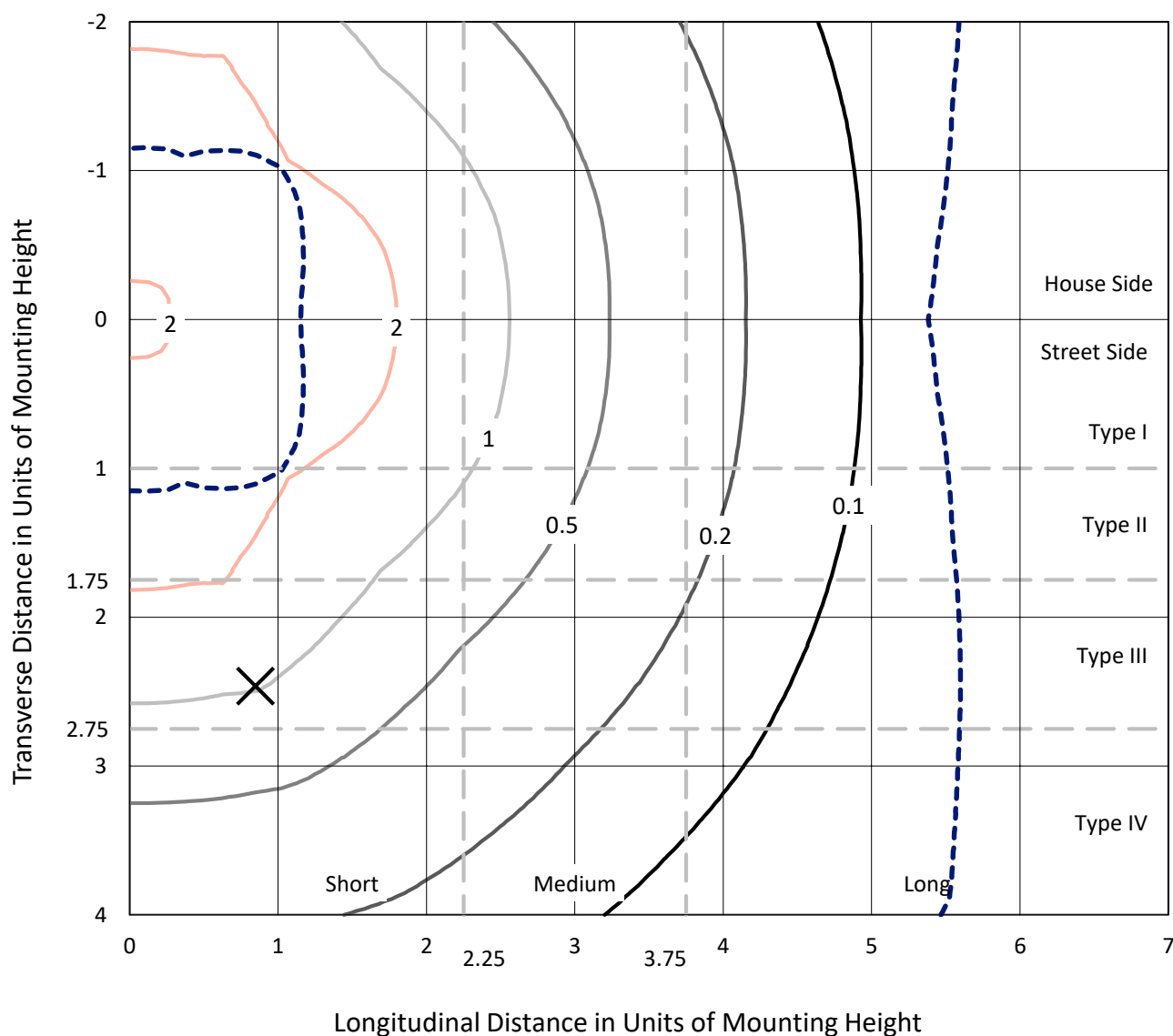
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

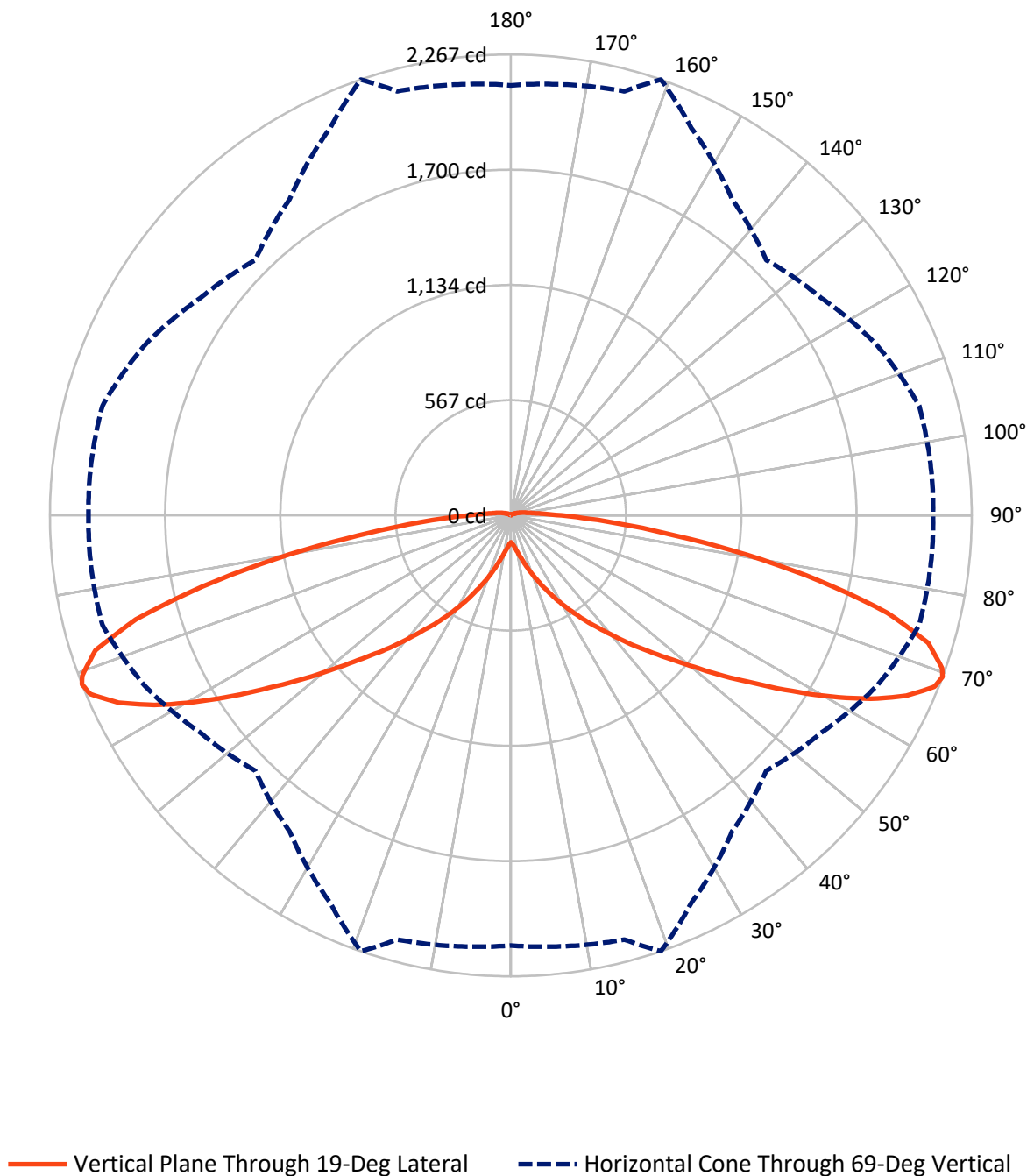


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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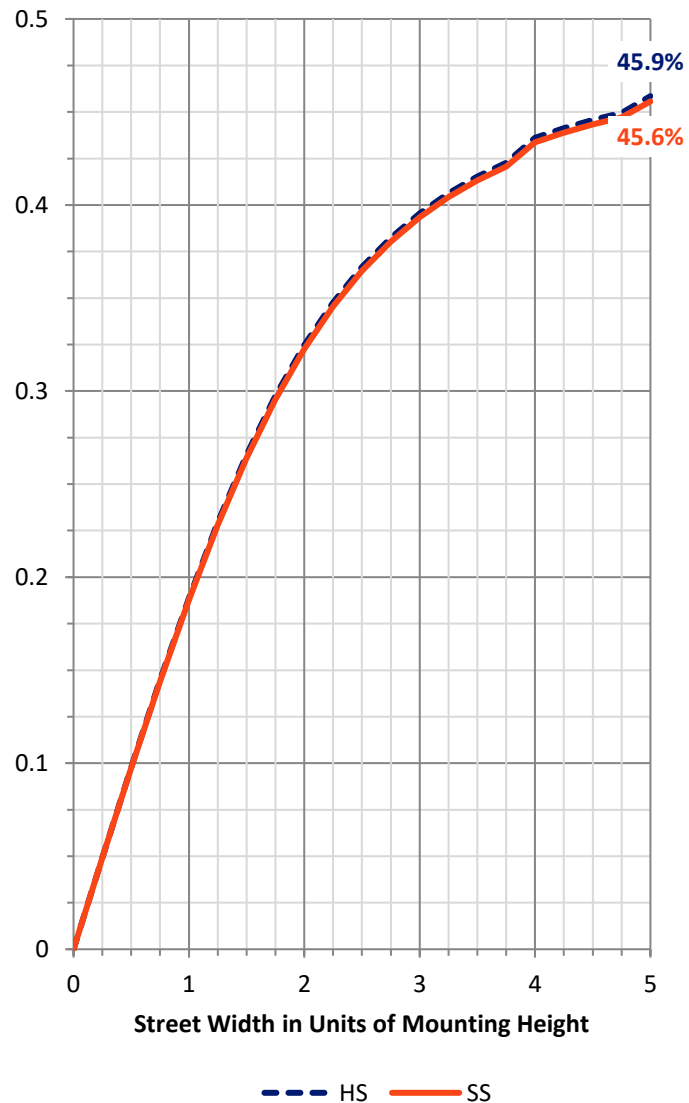
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3438.0	145.4	3583.4
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3438.0	145.4	3583.4
	% Fixture	48.0	2.0	50.0
Total	Lumens	6876.0	290.8	7166.8
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	0.2
10°-20°	64.0	0.9
20°-30°	174.6	2.4
30°-40°	369.1	5.1
40°-50°	673.9	9.4
50°-60°	1177.0	16.4
60°-70°	1844.9	25.7
70°-80°	1820.1	25.4
80°-90°	738.0	10.3
90°-100°	177.9	2.5
100°-110°	64.9	0.9
110°-120°	27.3	0.4
120°-130°	12.5	0.2
130°-140°	5.8	0.1
140°-150°	2.1	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6876.0	95.9
0°-180°	7166.8	100.0

Coefficient of Utilization



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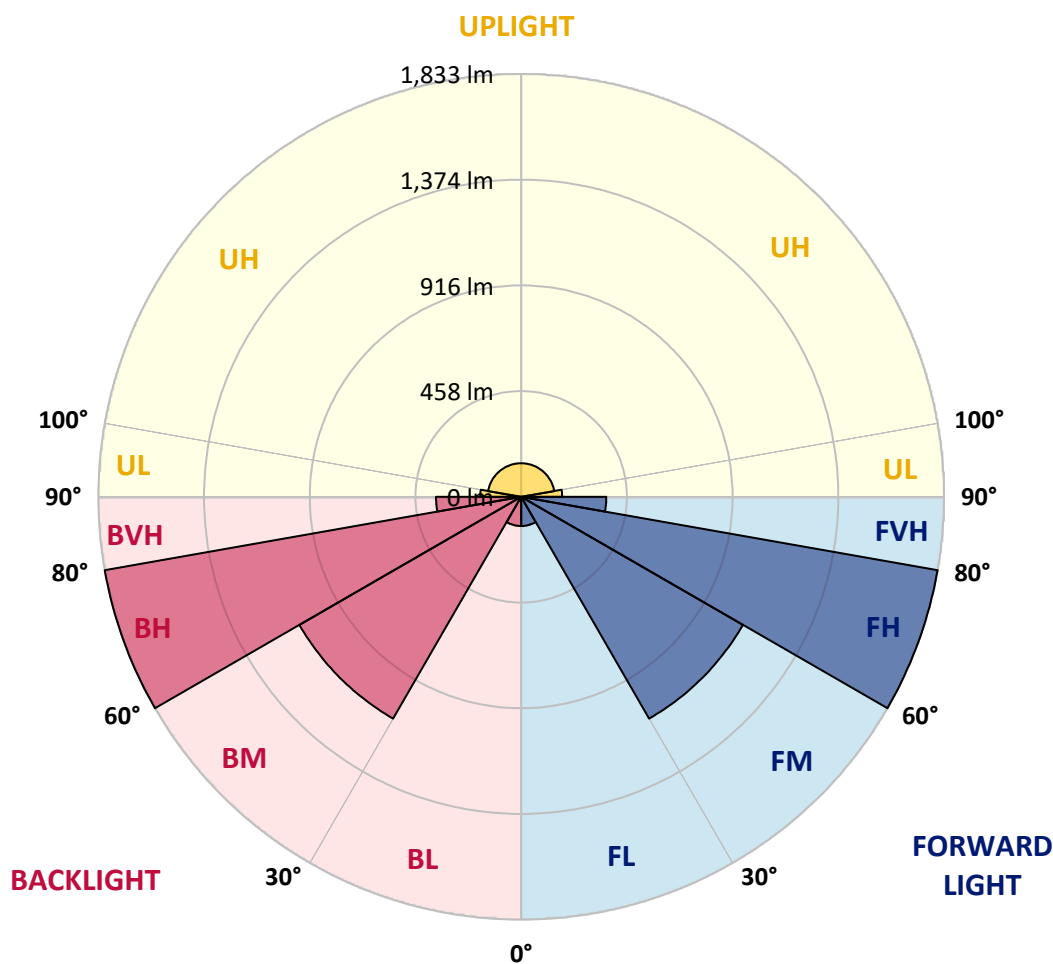
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.5	1.8			
FM	(30°-60°)	1109.9	15.5			
FH	(60°-80°)	1832.5	25.6			G2/5000
FVH	(80°-90°)	369.0	5.1			G3/500
BL	(0°-30°)	126.5	1.8	B1/500		
BM	(30°-60°)	1109.9	15.5	B2/2500		
BH	(60°-80°)	1832.5	25.6	B3/2500		G2/5000
BVH	(80°-90°)	369.0	5.1			G3/500
UL	(90°-100°)	177.9	2.5		U3/500	
UH	(100°-180°)	145.4	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°	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7	132.7
2.5°	135.3	135.3	135.3	138.7	135.3	135.3	135.3	135.3	135.3	135.3	134.3
5°	142.2	142.2	142.2	149.9	142.2	141.4	141.4	142.2	141.4	141.4	141.4
7.5°	155.1	154.2	154.2	164.7	154.2	153.5	152.6	152.6	152.6	151.8	151.8
10°	172.6	171.7	170.8	184.7	169.9	169.2	168.3	167.4	167.4	167.4	168.3
12.5°	195.1	195.1	193.3	208.9	190.7	188.1	186.4	185.5	186.4	187.2	188.1
15°	223.7	224.5	221.9	238.4	216.0	211.6	208.9	208.9	210.7	213.3	216.0
17.5°	261.9	261.0	255.7	275.7	248.8	240.1	234.1	234.9	241.0	247.9	252.3
20°	303.4	300.8	294.9	314.8	284.5	271.4	264.5	266.2	276.6	287.8	293.9
22.5°	349.4	346.8	338.1	358.1	322.5	306.1	299.1	301.7	314.8	331.3	343.3
25°	399.7	398.8	386.7	404.9	363.3	343.3	333.8	339.9	358.1	383.2	397.9
27.5°	455.3	453.5	437.8	457.7	409.3	385.0	373.6	379.8	404.1	436.9	460.4
30°	515.8	514.2	492.5	514.2	457.7	426.5	413.6	423.1	452.6	496.9	522.9
32.5°	580.9	579.1	552.3	573.1	511.6	471.7	454.4	467.3	505.4	554.1	588.7
35°	649.5	645.1	617.3	637.3	568.7	518.5	497.8	517.7	560.2	617.3	656.3
37.5°	723.0	717.8	685.9	703.2	628.6	571.4	548.0	566.2	619.9	680.6	728.3
40°	799.4	795.1	756.1	778.7	697.1	627.7	600.0	622.5	684.1	748.3	797.7
42.5°	880.0	875.7	838.4	867.0	770.7	689.3	657.2	685.9	752.6	823.7	877.5
45°	963.3	961.5	926.1	953.7	850.5	761.3	724.8	757.8	830.7	909.5	961.5
47.5°	1064.8	1054.3	1027.4	1054.3	945.9	849.6	804.6	839.2	920.0	1005.7	1057.8
50°	1165.3	1163.6	1140.2	1173.0	1053.4	940.7	891.3	931.3	1023.1	1111.6	1161.0
52.5°	1284.9	1288.3	1263.2	1312.8	1178.2	1056.0	997.1	1042.2	1144.5	1230.3	1278.8
55°	1413.3	1415.0	1404.6	1457.5	1312.8	1175.7	1113.3	1162.6	1267.6	1362.1	1408.1
57.5°	1562.4	1560.6	1557.2	1630.1	1470.4	1318.7	1241.5	1301.5	1410.7	1506.1	1544.1
60°	1709.7	1709.7	1718.5	1809.5	1636.9	1466.2	1376.8	1445.4	1560.6	1661.2	1689.0
62.5°	1869.4	1871.9	1879.8	1986.3	1796.5	1616.1	1513.9	1588.5	1718.5	1811.3	1833.8
65°	1999.4	2011.6	2028.8	2139.0	1955.2	1752.2	1644.7	1723.7	1857.2	1949.1	1962.9
67.5°	2093.9	2100.0	2132.8	2247.4	2072.2	1860.7	1742.7	1824.3	1956.0	2049.7	2058.3
69°	2115.6	2129.4	2159.7	2267.3	2102.6	1897.8	1776.6	1864.2	1985.6	2080.0	2080.0
70°	2106.0	2123.4	2159.7	2250.9	2109.5	1910.1	1791.3	1872.7	1991.5	2079.1	2076.5
72.5°	2001.2	2013.2	2075.7	2147.7	2056.6	1885.8	1784.4	1854.6	1937.9	1998.5	1982.9
75°	1780.0	1792.2	1862.4	1913.5	1891.0	1771.4	1699.4	1745.3	1785.2	1791.3	1761.8
77.5°	1438.4	1456.6	1553.7	1557.2	1624.9	1578.1	1539.9	1556.4	1531.3	1503.5	1439.3
80°	1085.5	1098.5	1187.7	1179.1	1291.0	1320.5	1316.1	1306.7	1231.1	1143.6	1071.7
82.5°	752.6	763.0	852.3	812.3	958.9	1030.0	1055.1	1022.2	907.7	809.0	744.8
85°	482.1	499.4	569.6	543.7	673.6	759.5	796.7	745.7	637.3	541.9	488.0
87.5°	312.2	319.1	370.2	348.5	447.4	535.7	575.8	534.1	437.8	358.1	313.0
90°	201.1	208.9	241.0	224.5	299.1	368.5	402.4	363.3	296.5	240.1	208.9
92.5°	140.4	146.6	164.7	155.1	201.1	254.0	284.5	254.0	205.5	169.9	147.4
95°	107.4	110.1	123.1	114.4	146.6	183.9	201.9	183.9	149.9	127.5	111.8
97.5°	85.0	86.6	96.3	89.3	110.1	137.0	150.8	137.9	115.3	99.7	87.6
100°	68.5	69.3	77.2	73.8	88.5	107.4	117.0	108.3	92.7	79.8	70.2
102.5°	55.4	55.4	63.3	61.5	72.9	86.6	93.7	89.3	76.3	65.0	55.4
105°	44.2	44.2	51.2	51.2	60.6	71.1	77.2	72.9	62.4	52.0	44.2
107.5°	34.7	35.6	40.8	40.8	50.2	59.0	63.3	59.8	51.2	40.8	34.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	27.8	28.7	33.0	33.9	41.6	49.4	52.9	49.4	41.6	32.1	26.9
112.5°	22.5	22.5	26.9	26.9	33.9	40.8	43.4	40.8	33.9	25.2	21.6
115°	19.0	19.0	21.6	21.6	27.8	33.9	36.4	33.9	26.9	20.8	18.2
117.5°	16.4	16.4	18.2	18.2	23.4	28.7	30.4	27.8	22.5	17.3	15.6
120°	14.7	14.7	15.6	15.6	19.0	23.4	25.2	23.4	18.2	14.7	13.8
122.5°	13.0	13.0	13.8	13.0	16.4	19.9	20.8	19.0	15.6	13.0	12.1
125°	12.1	12.1	12.1	11.3	13.8	16.4	17.3	15.6	13.0	11.3	11.3
127.5°	10.4	10.4	10.4	9.5	11.3	13.8	14.7	13.0	11.3	10.4	9.5
130°	9.5	9.5	9.5	8.7	10.4	11.3	12.1	11.3	9.5	9.5	9.5
132.5°	8.7	8.7	8.7	7.8	8.7	9.5	9.5	8.7	7.8	7.8	8.7
135°	7.8	7.8	7.8	6.9	6.9	6.9	7.8	6.9	6.9	6.9	7.8
137.5°	6.9	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.9
140°	6.1	6.1	6.1	4.3	5.2	4.3	4.3	4.3	5.2	5.2	6.1
142.5°	5.2	5.2	4.3	4.3	4.3	3.5	2.6	3.5	3.5	4.3	5.2
145°	4.3	4.3	3.5	3.5	3.5	2.6	1.7	1.7	3.5	3.5	3.5
147.5°	3.5	3.5	2.6	2.6	2.6	1.7	0.9	1.7	2.6	2.6	3.5
150°	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9	1.7	1.7	2.6
152.5°	1.7	1.7	1.7	0.9	0.9	0.9	0.0	0.9	0.9	1.7	1.7
155°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9
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°	132.7
2.5°	134.3
5°	141.4
7.5°	151.8
10°	167.4
12.5°	189.1
15°	216.0
17.5°	251.4
20°	295.6
22.5°	346.8
25°	402.4
27.5°	462.9
30°	526.2
32.5°	594.8
35°	664.1
37.5°	732.7
40°	806.4
42.5°	880.9
45°	964.2
47.5°	1060.4
50°	1170.5
52.5°	1284.0
55°	1404.6
57.5°	1544.1
60°	1691.6
62.5°	1835.4
65°	1959.6
67.5°	2055.7
69°	2077.4
70°	2070.5
72.5°	1964.8
75°	1740.1
77.5°	1424.5
80°	1048.2
82.5°	717.8
85°	476.9
87.5°	305.2
90°	200.3
92.5°	143.1
95°	108.3
97.5°	85.9
100°	68.5
102.5°	55.4
105°	43.4
107.5°	33.9



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CANDELA DISTRIBUTION (continued):

	90°
110°	26.9
112.5°	21.6
115°	18.2
117.5°	15.6
120°	13.0
122.5°	12.1
125°	11.3
127.5°	9.5
130°	9.5
132.5°	8.7
135°	7.8
137.5°	6.9
140°	6.1
142.5°	5.2
145°	4.3
147.5°	2.6
150°	2.6
152.5°	1.7
155°	0.9
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)