

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: P266532

Luminaire Tested: **UTLD-AF24-100-D-U-5WQ-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266532
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 7181.5 lumens
Efficiency: N/A
Efficacy: 74.8 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): 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



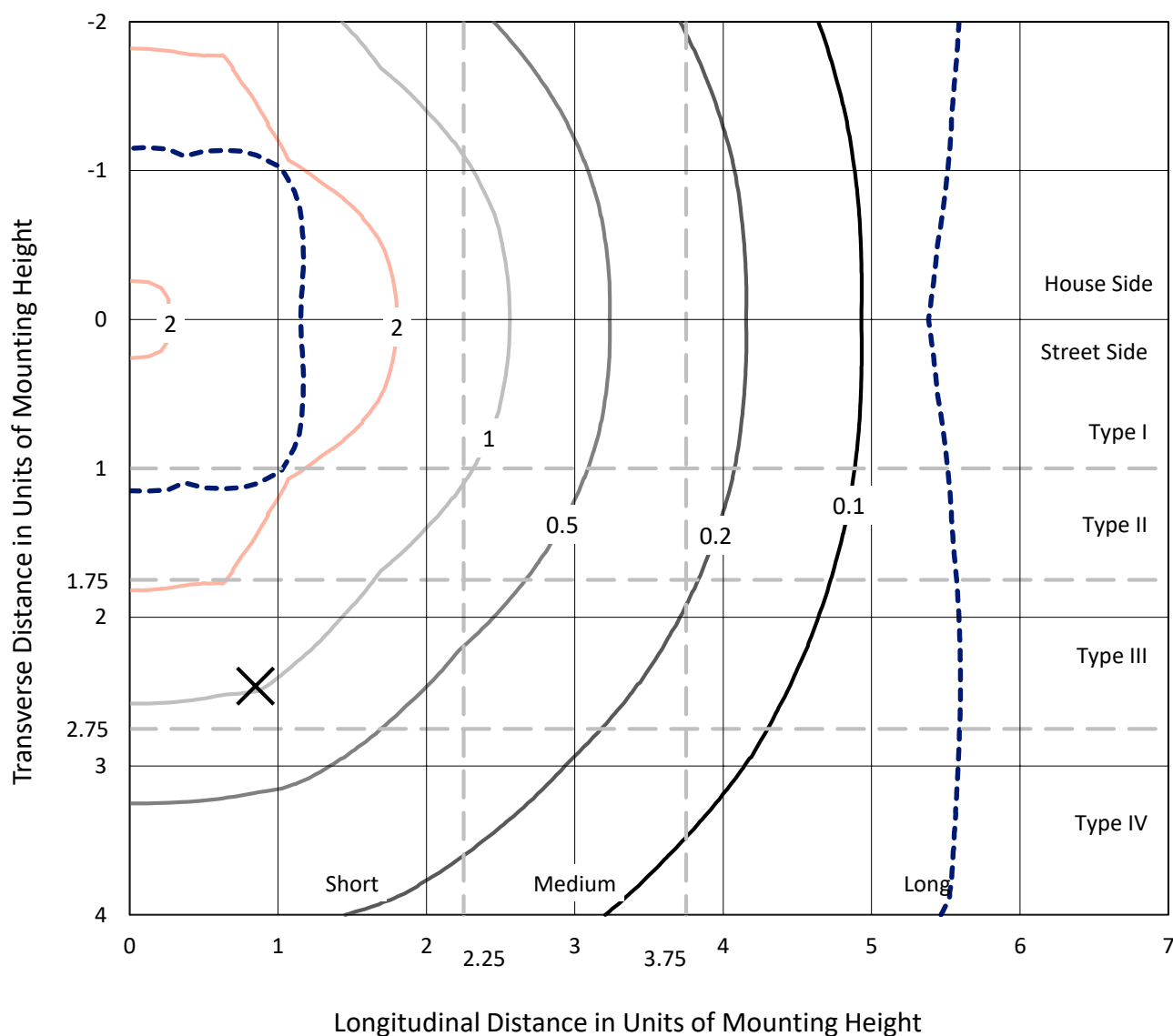
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

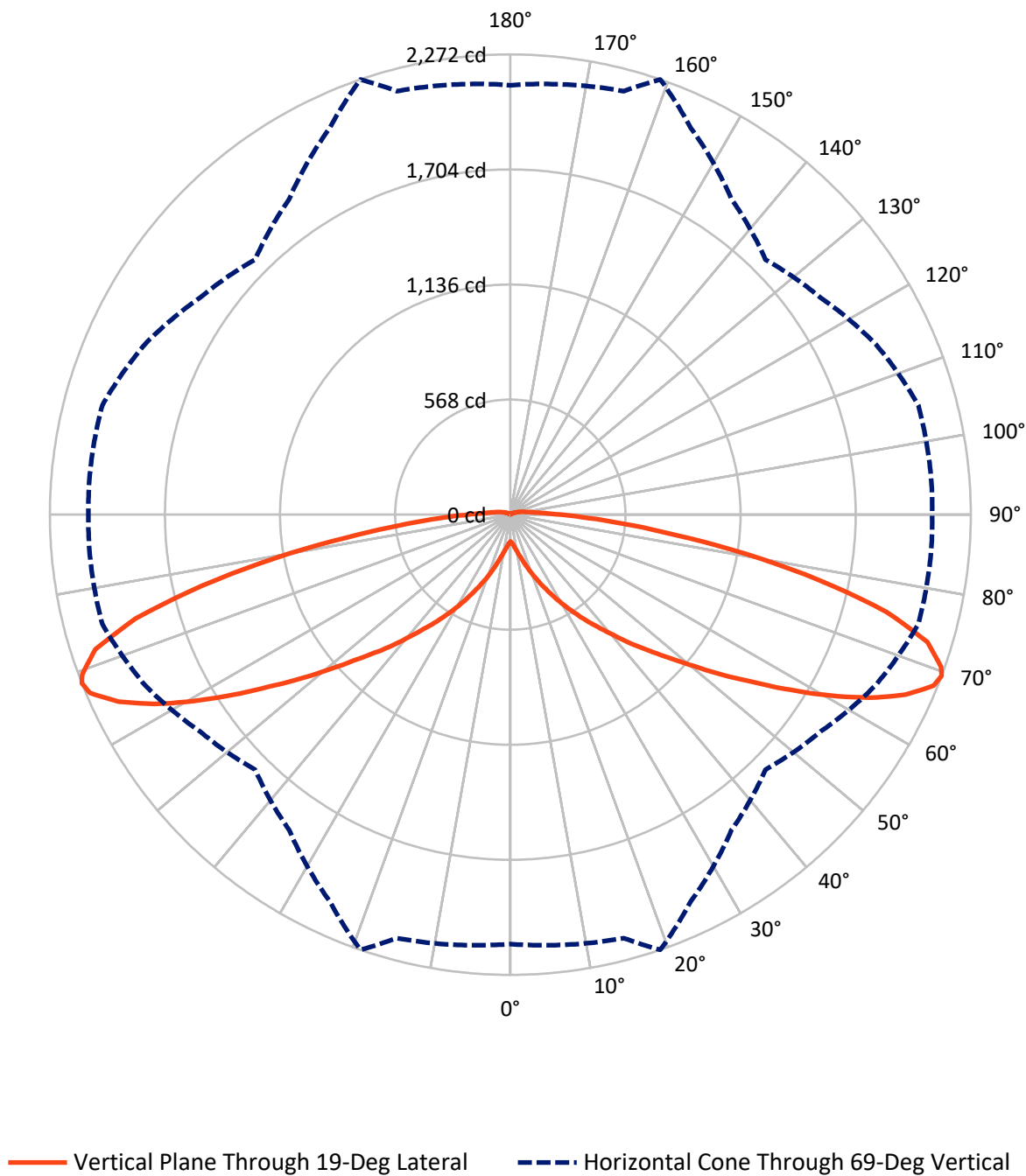


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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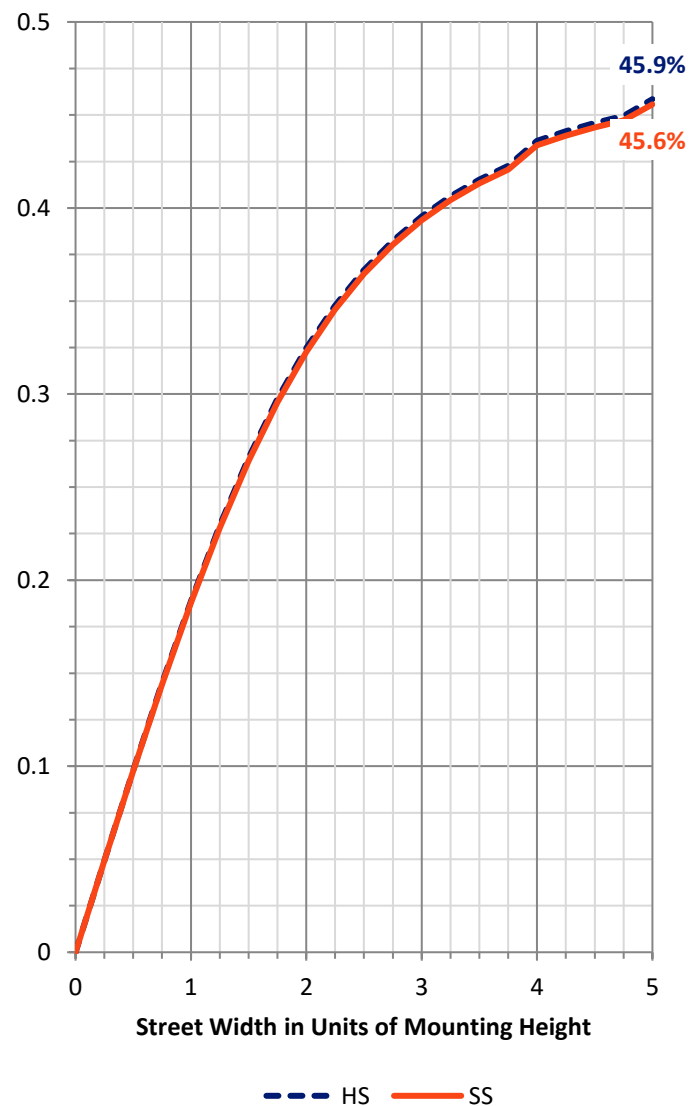
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3445.1	145.7	3590.7
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	3445.1	145.7	3590.7
	% Fixture	48.0	2.0	50.0
Total	Lumens	6890.1	291.3	7181.5
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.2
10°-20°	64.1	0.9
20°-30°	174.9	2.4
30°-40°	369.8	5.1
40°-50°	675.2	9.4
50°-60°	1179.4	16.4
60°-70°	1848.7	25.7
70°-80°	1823.8	25.4
80°-90°	739.6	10.3
90°-100°	178.2	2.5
100°-110°	65.0	0.9
110°-120°	27.3	0.4
120°-130°	12.5	0.2
130°-140°	5.9	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°	6890.1	95.9
0°-180°	7181.5	100.0

Coefficient of Utilization



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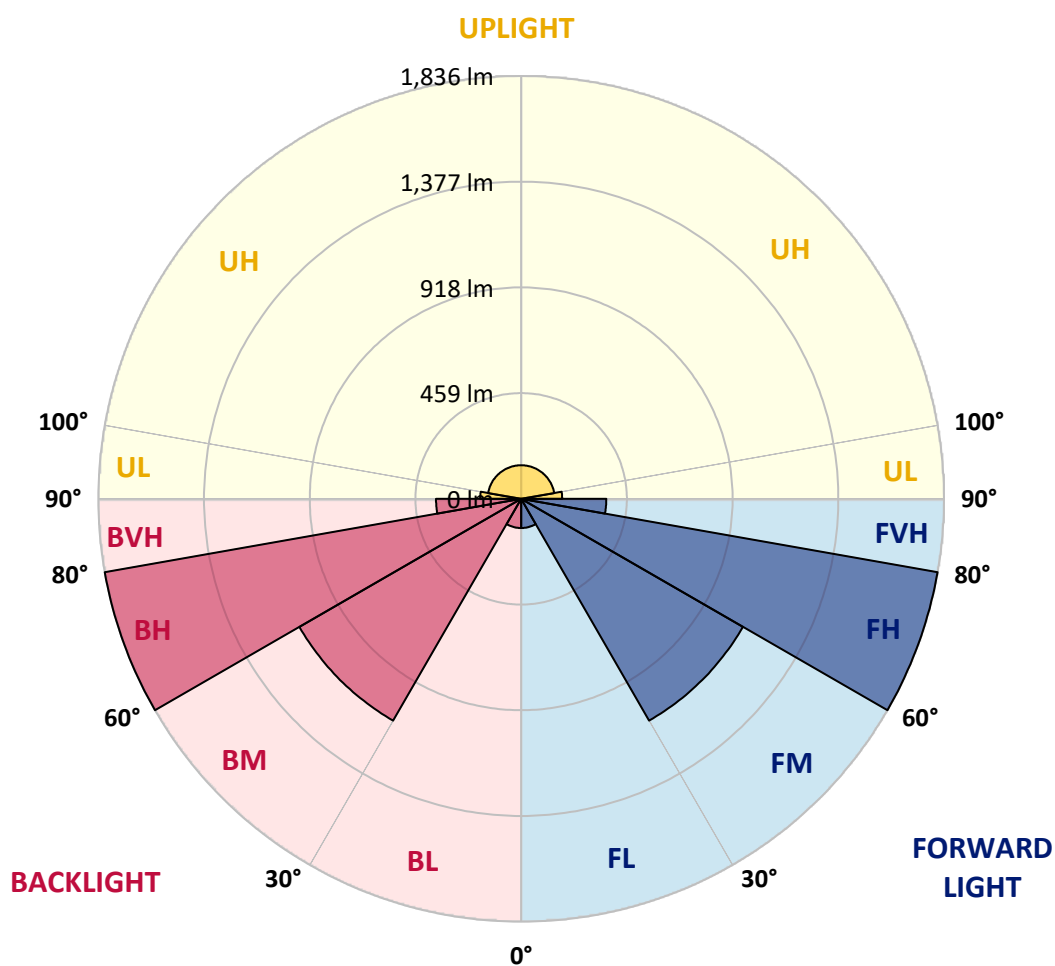
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.8	1.8			
FM	(30°-60°)	1112.2	15.5			
FH	(60°-80°)	1836.3	25.6			G2/5000
FVH	(80°-90°)	369.8	5.1			G3/500
BL	(0°-30°)	126.8	1.8	B1/500		
BM	(30°-60°)	1112.2	15.5	B2/2500		
BH	(60°-80°)	1836.3	25.6	B3/2500		G2/5000
BVH	(80°-90°)	369.8	5.1			G3/500
UL	(90°-100°)	178.2	2.5		U3/500	
UH	(100°-180°)	145.7	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°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9
2.5°	135.6	135.6	135.6	139.0	135.6	135.6	135.6	135.6	135.6	135.6	134.7
5°	142.6	142.6	142.6	150.2	142.6	141.7	141.7	142.6	141.7	141.7	141.7
7.5°	155.5	154.7	154.7	165.1	154.7	153.8	152.9	152.9	152.9	152.1	152.1
10°	173.0	172.0	171.1	185.1	170.3	169.4	168.5	167.7	167.7	167.7	168.5
12.5°	195.6	195.6	193.8	209.3	191.1	188.6	186.8	185.9	186.8	187.7	188.6
15°	224.1	225.0	222.4	238.9	216.3	212.0	209.3	209.3	211.1	213.7	216.3
17.5°	262.3	261.4	256.2	276.3	249.4	240.7	234.5	235.4	241.6	248.6	252.9
20°	304.0	301.6	295.5	315.3	284.9	271.9	265.0	266.7	277.1	288.4	294.6
22.5°	350.1	347.6	338.8	358.9	323.2	306.7	299.8	302.4	315.3	331.8	344.1
25°	400.6	399.7	387.4	405.8	364.1	344.1	334.4	340.5	358.9	384.0	398.8
27.5°	456.1	454.5	438.7	458.8	410.0	385.7	374.5	380.5	404.9	437.8	461.3
30°	517.0	515.2	493.4	515.2	458.8	427.5	414.4	424.0	453.6	497.8	523.9
32.5°	582.1	580.3	553.4	574.2	512.7	472.7	455.3	468.2	506.6	555.2	589.9
35°	650.7	646.4	618.7	638.5	570.0	519.6	498.6	518.7	561.3	618.7	657.6
37.5°	724.7	719.5	687.3	704.6	629.9	572.6	549.1	567.3	621.2	682.1	729.9
40°	801.1	796.6	757.6	780.2	698.5	629.1	601.2	623.9	685.4	749.7	799.3
42.5°	881.9	877.6	840.2	868.8	772.4	690.6	658.5	687.3	754.1	825.4	879.3
45°	965.3	963.5	927.9	955.6	852.3	762.8	726.3	759.3	832.3	911.4	963.5
47.5°	1066.8	1056.4	1029.5	1056.4	947.9	851.5	806.3	841.1	921.8	1007.8	1060.0
50°	1167.6	1165.9	1142.5	1175.5	1055.6	942.6	893.2	933.1	1025.1	1113.8	1163.3
52.5°	1287.6	1291.0	1265.8	1315.4	1180.7	1058.3	999.2	1044.3	1146.9	1232.8	1281.5
55°	1416.2	1418.0	1407.5	1460.5	1315.4	1178.0	1115.5	1165.1	1270.3	1365.0	1411.0
57.5°	1565.6	1563.9	1560.4	1633.4	1473.5	1321.4	1244.2	1304.1	1413.6	1509.2	1547.4
60°	1713.2	1713.2	1722.1	1813.1	1640.3	1469.2	1379.6	1448.2	1563.9	1664.6	1692.4
62.5°	1873.1	1875.8	1883.6	1990.5	1800.2	1619.5	1517.0	1591.6	1722.1	1814.9	1837.6
65°	2003.5	2015.6	2033.0	2143.4	1959.2	1755.8	1648.1	1727.3	1861.0	1953.1	1967.0
67.5°	2098.3	2104.3	2137.2	2252.1	2076.4	1864.5	1746.3	1828.1	1960.0	2053.9	2062.6
69°	2119.9	2133.8	2164.1	2272.0	2106.9	1901.8	1780.3	1867.9	1989.6	2084.2	2084.2
70°	2110.4	2127.7	2164.1	2255.5	2113.8	1914.0	1795.0	1876.6	1995.7	2083.3	2080.8
72.5°	2005.2	2017.4	2079.9	2152.1	2060.8	1889.7	1788.0	1858.5	1941.7	2002.6	1987.1
75°	1783.7	1795.8	1866.1	1917.4	1894.9	1775.1	1702.8	1748.9	1788.9	1795.0	1765.3
77.5°	1441.4	1459.6	1556.9	1560.4	1628.2	1581.2	1543.0	1559.5	1534.3	1506.5	1442.1
80°	1087.8	1100.9	1190.3	1181.6	1293.6	1323.3	1318.8	1309.3	1233.7	1146.0	1073.8
82.5°	754.1	764.5	854.1	814.0	960.8	1032.2	1057.3	1024.3	909.7	810.6	746.3
85°	483.1	500.4	570.9	544.7	675.0	761.0	798.5	747.2	638.5	543.0	489.1
87.5°	312.8	319.7	371.0	349.4	448.3	536.9	576.9	535.2	438.7	358.9	313.7
90°	201.6	209.3	241.6	225.0	299.8	369.3	403.1	364.1	297.1	240.7	209.3
92.5°	140.8	146.9	165.1	155.5	201.6	254.6	284.9	254.6	205.9	170.3	147.7
95°	107.7	110.3	123.3	114.7	146.9	184.2	202.5	184.2	150.2	127.6	112.1
97.5°	85.2	86.9	96.5	89.6	110.3	137.4	151.2	138.1	115.5	99.9	87.8
100°	68.6	69.4	77.3	73.8	88.7	107.7	117.3	108.7	93.0	79.9	70.3
102.5°	55.7	55.7	63.4	61.7	73.0	86.9	93.9	89.6	76.4	65.1	55.7
105°	44.2	44.2	51.3	51.3	60.8	71.2	77.3	73.0	62.5	52.1	44.2
107.5°	34.8	35.7	40.9	40.9	50.3	59.1	63.4	59.9	51.3	40.9	34.8



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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	41.7	49.5	53.0	49.5	41.7	32.2	26.9
112.5°	22.5	22.5	26.9	26.9	33.9	40.9	43.5	40.9	33.9	25.2	21.6
115°	19.1	19.1	21.6	21.6	27.8	33.9	36.6	33.9	26.9	20.8	18.2
117.5°	16.4	16.4	18.2	18.2	23.4	28.7	30.5	27.8	22.5	17.3	15.6
120°	14.7	14.7	15.6	15.6	19.1	23.4	25.2	23.4	18.2	14.7	14.0
122.5°	13.0	13.0	14.0	13.0	16.4	20.0	20.8	19.1	15.6	13.0	12.1
125°	12.1	12.1	12.1	11.3	14.0	16.4	17.3	15.6	13.0	11.3	11.3
127.5°	10.4	10.4	10.4	9.5	11.3	14.0	14.7	13.0	11.3	10.4	9.5
130°	9.5	9.5	9.5	8.8	10.4	11.3	12.1	11.3	9.5	9.5	9.5
132.5°	8.8	8.8	8.8	7.8	8.8	9.5	9.5	8.8	7.8	7.8	8.8
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°	132.9
2.5°	134.7
5°	141.7
7.5°	152.1
10°	167.7
12.5°	189.5
15°	216.3
17.5°	252.0
20°	296.4
22.5°	347.6
25°	403.1
27.5°	464.0
30°	527.3
32.5°	596.0
35°	665.6
37.5°	734.2
40°	807.9
42.5°	882.8
45°	966.0
47.5°	1062.5
50°	1172.8
52.5°	1286.7
55°	1407.5
57.5°	1547.4
60°	1695.0
62.5°	1839.3
65°	1963.5
67.5°	2060.0
69°	2081.7
70°	2074.7
72.5°	1968.7
75°	1743.7
77.5°	1427.4
80°	1050.4
82.5°	719.5
85°	477.9
87.5°	305.9
90°	200.7
92.5°	143.4
95°	108.7
97.5°	86.0
100°	68.6
102.5°	55.7
105°	43.5
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°	8.8
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)