

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: P239936

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6388 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U4 - 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



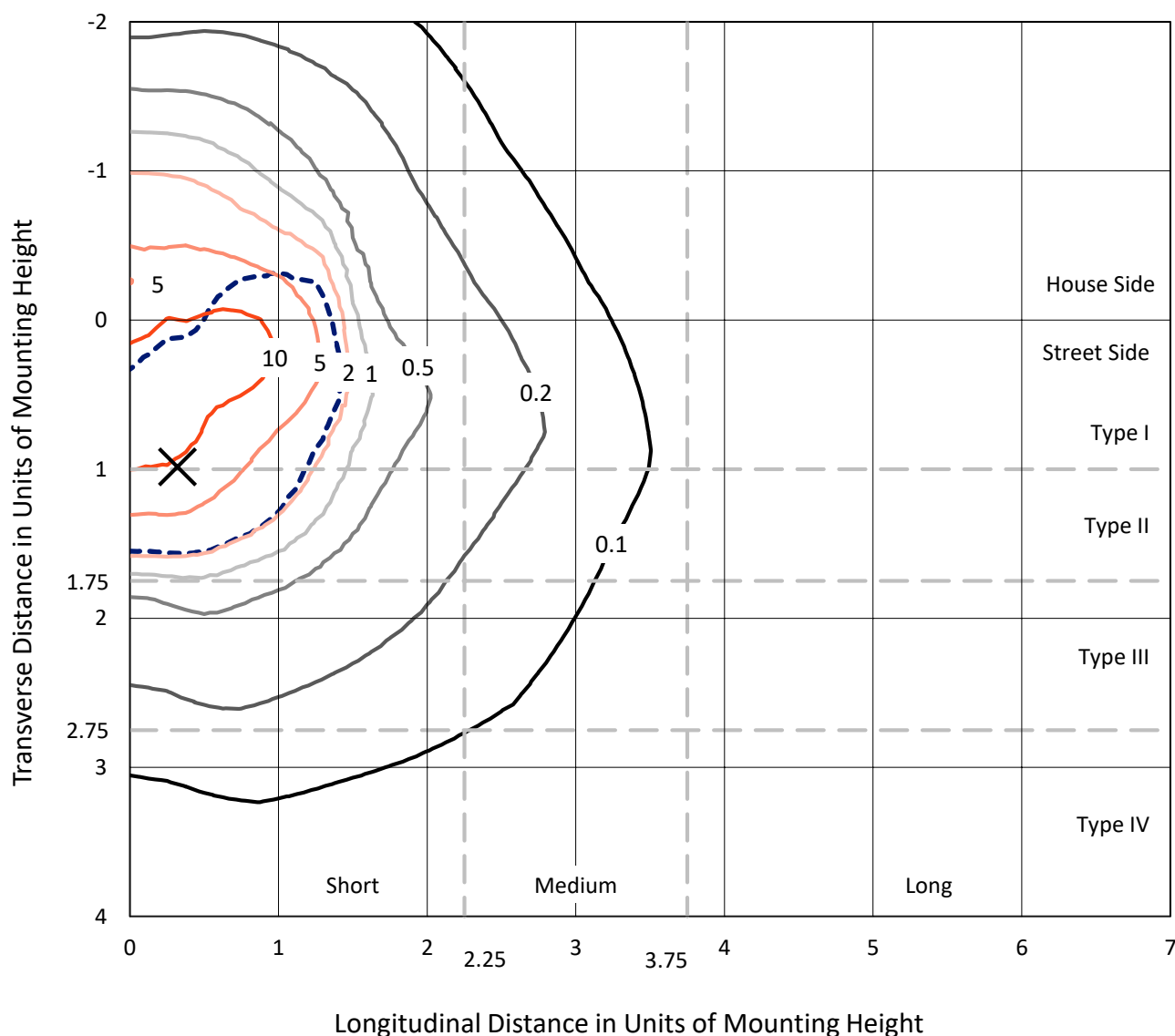
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

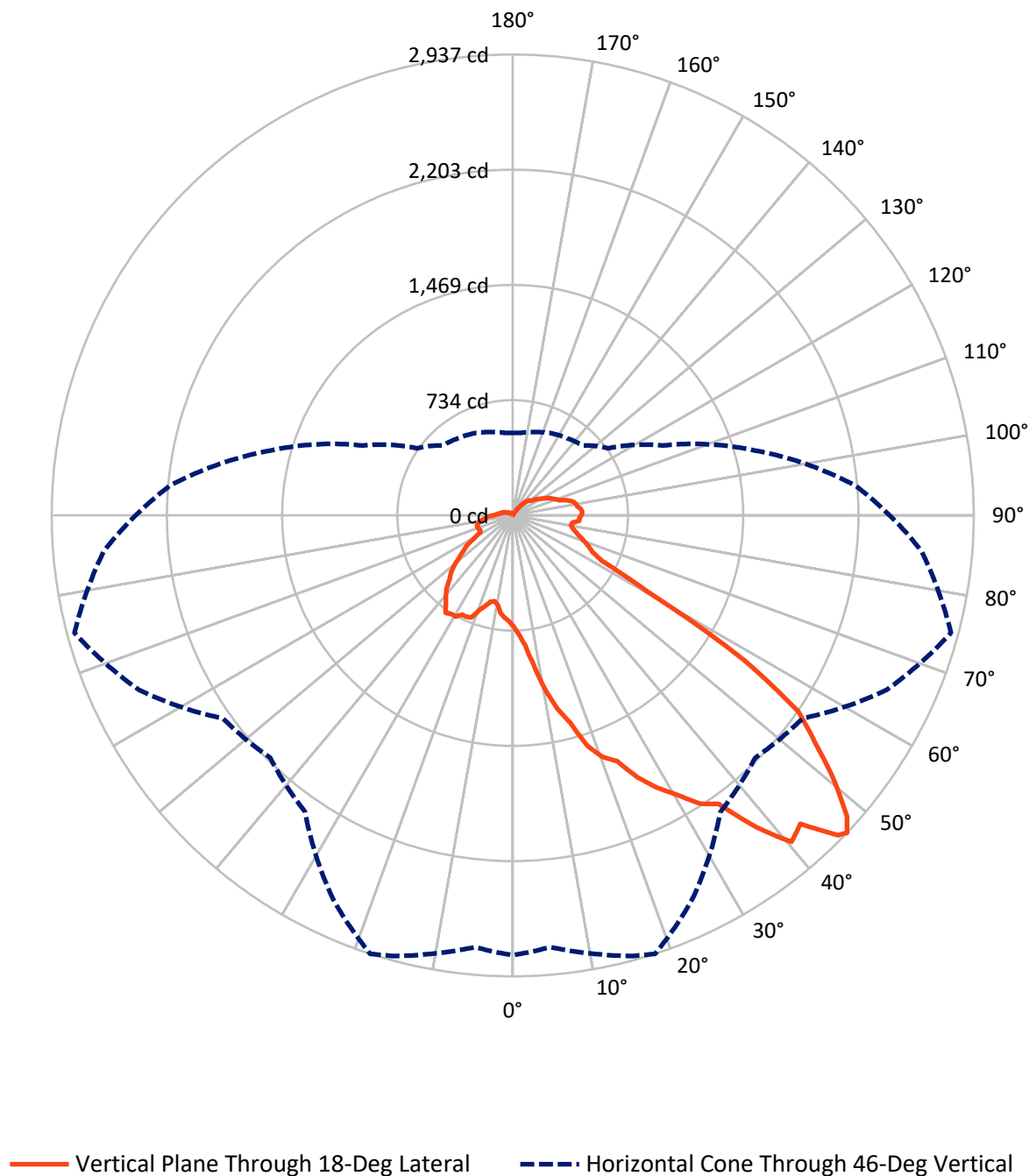


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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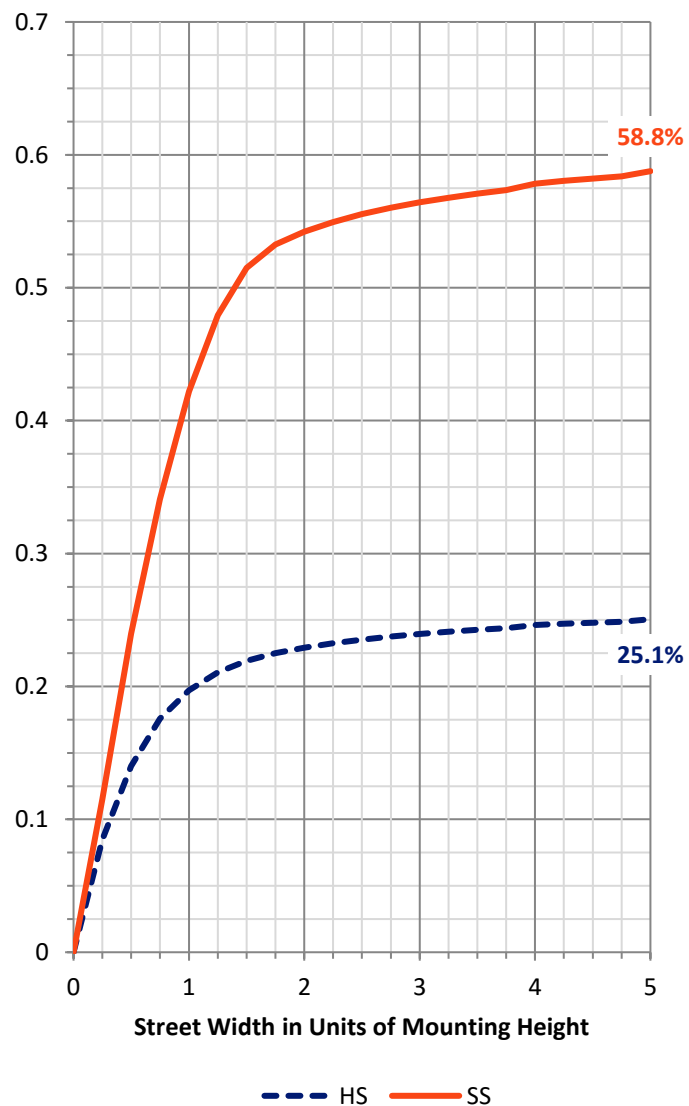
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.7	206.9	1868.5
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3899.3	620.2	4519.5
	% Fixture	61.0	9.7	70.7
Total	Lumens	5561.0	827.0	6388.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.2
10°-20°	309.2	4.8
20°-30°	628.9	9.8
30°-40°	1029.6	16.1
40°-50°	1340.1	21.0
50°-60°	1002.8	15.7
60°-70°	417.7	6.5
70°-80°	380.0	5.9
80°-90°	376.7	5.9
90°-100°	302.9	4.7
100°-110°	215.3	3.4
110°-120°	145.5	2.3
120°-130°	93.7	1.5
130°-140°	55.5	0.9
140°-150°	13.5	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5561.0	87.1
0°-180°	6388.0	100.0

Coefficient of Utilization



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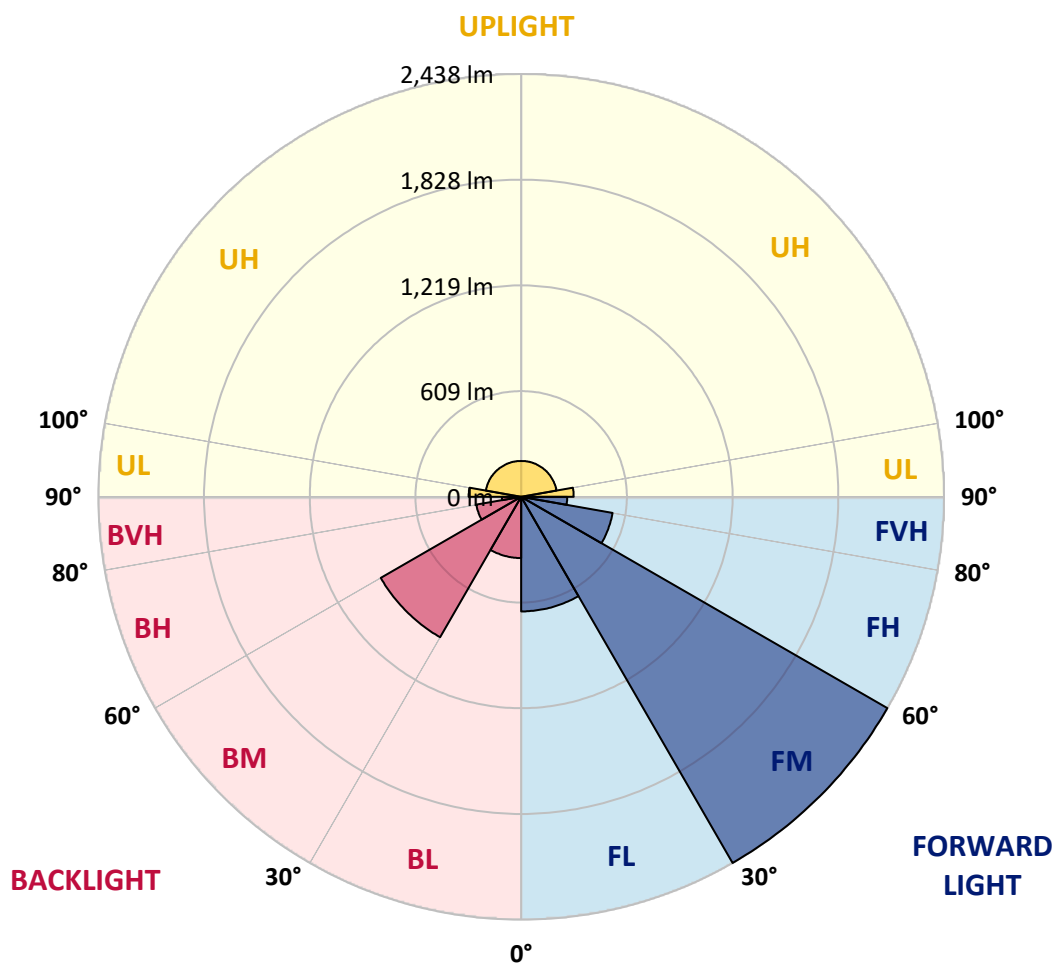
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.8	10.3			
FM	(30°-60°)	2437.9	38.2			
FH	(60°-80°)	535.0	8.4			G0/660
FVH	(80°-90°)	265.6	4.2			G3/500
BL	(0°-30°)	353.2	5.5	B1/500		
BM	(30°-60°)	934.7	14.6	B1/1000		
BH	(60°-80°)	262.7	4.1	B1/500		G1/500
BVH	(80°-90°)	111.1	1.7			G2/225
UL	(90°-100°)	302.9	4.7		U3/500	
UH	(100°-180°)	206.9	3.2		U3/500	

BUG Rating: B1-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5
2.5°	760.5	757.0	758.8	758.8	754.3	752.6	748.2	742.9	735.8	727.8	720.8
5°	835.6	833.0	832.1	831.2	830.3	818.8	805.6	794.1	781.7	768.5	749.9
7.5°	974.3	973.4	968.1	961.9	953.1	933.6	909.8	898.3	881.5	861.2	833.0
10°	1147.4	1135.0	1123.6	1123.6	1105.9	1098.8	1091.8	1075.0	1064.4	1036.1	995.5
12.5°	1246.3	1240.2	1264.0	1262.2	1285.2	1326.7	1340.8	1355.0	1290.5	1208.4	1132.4
15°	1339.1	1339.1	1369.1	1370.0	1438.0	1529.9	1599.7	1531.6	1413.3	1280.8	1179.2
17.5°	1466.3	1474.2	1517.5	1546.7	1638.5	1796.6	1748.9	1623.5	1446.8	1288.7	1174.8
20°	1521.9	1539.6	1605.8	1643.8	1786.0	1935.3	1889.4	1741.9	1536.9	1356.7	1241.9
22.5°	1556.4	1568.7	1646.5	1700.4	1882.3	2008.6	2001.6	1852.3	1658.8	1433.6	1301.1
25°	1697.7	1705.7	1794.0	1849.6	2042.2	2082.8	2002.4	1899.1	1709.2	1475.1	1358.5
27.5°	1745.4	1746.3	1882.3	1966.2	2124.3	2110.2	2006.0	1962.7	1866.4	1681.8	1603.2
30°	1809.9	1808.1	1975.9	2066.0	2162.3	2102.3	2018.3	2056.3	2062.5	1912.3	1769.3
32.5°	1889.4	1882.3	2082.8	2190.6	2221.5	2100.5	2038.7	2103.1	2196.8	2041.3	1887.6
35°	1962.7	1968.9	2184.4	2257.7	2286.9	2111.1	2049.3	2190.6	2380.5	2260.4	2002.4
37.5°	2434.4	2427.3	2495.3	2520.9	2447.6	2147.3	2089.9	2299.2	2577.5	2525.4	2248.9
40°	2541.3	2517.4	2720.6	2735.6	2606.6	2275.4	2201.2	2364.6	2732.9	2825.7	2605.7
42.5°	2451.2	2445.0	2666.7	2687.0	2594.3	2361.9	2274.5	2417.6	2750.6	2826.6	2460.9
45°	2847.8	2815.1	2930.8	2906.9	2649.9	2324.8	2229.4	2358.4	2689.6	2902.5	2612.8
46°	2802.7	2761.2	2906.9	2937.0	2702.9	2306.3	2184.4	2254.2	2628.7	2890.2	2614.6
47.5°	2664.9	2668.5	2862.8	2864.5	2649.0	2308.9	2110.2	2191.5	2492.7	2732.0	2364.6
50°	2326.6	2286.9	2642.0	2653.4	2447.6	2209.1	2034.2	2071.3	2358.4	2505.0	2131.4
52.5°	2240.0	2209.1	2418.5	2416.7	2231.2	2057.2	1895.6	1934.4	2258.6	2425.5	2158.8
55°	2058.1	2047.5	2223.3	2208.3	2078.4	1869.9	1754.2	1778.1	1873.5	1808.1	1075.9
57.5°	1367.3	1408.0	1711.8	1741.0	1741.9	1643.8	1499.0	1279.0	1106.8	941.6	526.4
60°	558.2	605.1	943.4	987.5	1052.0	1232.2	1086.5	855.0	714.6	742.9	454.9
62.5°	421.3	439.0	629.8	637.7	662.5	749.9	741.1	620.1	610.4	672.2	435.5
65°	392.2	408.1	558.2	555.6	544.1	568.0	566.2	537.9	548.5	626.3	433.7
67.5°	371.0	386.9	518.5	519.4	509.7	514.1	517.6	503.5	528.2	608.6	445.2
70°	349.8	366.6	477.0	479.6	486.7	502.6	508.8	498.2	520.3	586.5	444.3
72.5°	324.2	342.7	438.1	442.5	456.7	492.9	514.1	511.4	514.1	553.8	442.5
75°	315.3	333.9	405.4	413.4	433.7	488.5	543.2	525.6	507.9	532.6	431.9
77.5°	276.5	297.7	371.0	388.7	433.7	502.6	562.7	556.5	523.8	518.5	420.5
80°	265.9	286.2	356.9	376.3	424.9	515.0	582.1	583.0	566.2	537.9	431.9
82.5°	267.6	287.1	360.4	382.5	438.1	523.8	566.2	588.3	590.0	554.7	445.2
85°	314.5	333.0	402.8	425.8	474.3	521.1	553.8	569.7	585.6	585.6	488.5
87.5°	335.7	352.4	405.4	425.8	472.6	527.3	522.0	548.5	564.4	584.7	503.5
90°	355.1	365.7	420.5	439.9	464.6	508.8	494.6	486.7	499.9	521.1	471.7
92.5°	369.2	378.9	427.5	444.3	465.5	475.2	454.0	431.1	463.7	480.5	439.0
95°	394.8	403.7	429.3	435.5	432.8	441.7	409.0	400.1	414.3	432.8	406.3
97.5°	377.2	383.4	408.1	415.2	413.4	400.1	367.5	362.2	374.5	388.7	359.5
100°	377.2	385.1	403.7	408.1	397.5	363.9	330.4	328.6	336.5	343.6	316.2
102.5°	385.1	388.7	392.2	394.8	375.4	338.3	313.6	307.4	310.0	313.6	288.8
105°	364.8	365.7	367.5	359.5	343.6	315.3	290.6	280.0	288.8	299.4	279.1
107.5°	315.3	314.5	315.3	312.7	310.9	294.1	276.5	263.2	263.2	266.8	247.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	294.1	295.0	294.1	294.1	286.2	274.7	257.9	243.8	236.7	238.5	220.8
112.5°	269.4	269.4	270.3	271.2	266.8	256.2	239.4	225.2	216.4	214.6	197.9
115°	269.4	266.8	258.8	257.9	249.1	234.1	221.7	204.0	197.9	197.9	187.3
117.5°	240.3	238.5	232.3	230.5	225.2	212.9	205.8	191.7	187.3	184.6	174.9
120°	212.9	212.9	210.2	209.3	204.0	197.0	182.0	176.7	173.1	176.7	170.5
122.5°	197.9	197.9	193.4	191.7	185.5	180.2	166.9	157.2	151.0	158.1	154.6
125°	182.0	181.1	174.9	174.0	163.4	163.4	156.3	144.0	127.2	134.3	132.5
127.5°	159.9	159.0	151.0	150.2	144.0	151.0	149.3	133.4	110.4	114.8	114.8
130°	153.7	151.9	144.9	143.1	136.9	135.1	142.2	116.6	103.3	107.8	106.9
132.5°	153.7	151.9	143.1	140.4	130.7	121.0	128.1	101.6	98.9	104.2	103.3
135°	138.7	138.7	130.7	125.4	115.7	98.0	99.8	78.6	86.6	94.5	94.5
137.5°	117.5	117.5	109.5	107.8	96.3	78.6	70.7	60.1	73.3	82.1	83.0
140°	91.9	91.9	85.7	82.1	74.2	52.1	32.7	37.1	55.6	63.6	66.2
142.5°	66.2	65.4	60.1	55.6	47.7	28.3	10.6	21.2	32.7	43.3	46.8
145°	45.9	45.0	38.9	36.2	29.1	13.2	2.6	8.8	19.4	25.6	30.0
147.5°	27.4	27.4	23.0	22.1	15.0	3.5	1.8	2.6	9.7	15.9	18.5
150°	15.9	15.9	11.5	8.8	3.5	0.9	0.9	0.9	2.6	7.1	8.8
152.5°	3.5	3.5	2.6	1.8	1.8	0.9	0.0	0.9	0.9	0.9	1.8
155°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.9	0.9	0.9	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
162.5°	0.9	0.9	0.0	0.0	0.9	0.0	0.9	0.0	0.9	0.9	0.9
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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5	707.5
2.5°	717.2	713.7	705.8	696.0	689.0	682.8	678.4	675.7	674.0	669.5	671.3
5°	743.7	736.7	718.1	703.1	687.2	673.1	662.5	655.4	652.8	649.2	649.2
7.5°	819.7	802.9	774.7	739.3	706.6	678.4	651.9	636.9	623.6	616.5	614.8
10°	969.0	946.9	886.0	813.5	742.0	678.4	627.1	590.0	572.4	566.2	566.2
12.5°	1092.6	1058.2	978.7	897.4	802.0	702.2	626.3	575.9	552.1	544.1	544.1
15°	1129.7	1084.7	991.1	911.6	825.9	742.0	671.3	598.9	555.6	542.3	537.9
17.5°	1118.3	1074.1	989.3	893.0	796.7	734.0	671.3	632.4	592.7	569.7	566.2
20°	1191.6	1150.9	1062.6	954.8	836.5	696.0	656.3	647.5	637.7	622.7	622.7
22.5°	1252.5	1214.5	1126.2	1010.5	868.3	776.4	717.2	708.4	697.8	695.2	693.4
25°	1299.3	1258.7	1137.7	1004.3	901.0	833.8	757.9	727.8	702.2	694.3	691.6
27.5°	1549.3	1486.6	1292.3	1103.2	954.8	853.3	765.8	727.0	703.1	693.4	699.6
30°	1695.9	1627.9	1415.0	1166.8	1019.3	895.7	781.7	735.8	742.0	749.9	756.1
32.5°	1808.1	1718.9	1468.9	1174.8	1008.7	903.6	807.3	752.6	734.9	745.5	747.3
35°	1918.5	1809.9	1538.7	1225.1	1022.9	874.5	789.7	757.9	752.6	766.7	764.1
37.5°	2142.9	2000.7	1625.3	1239.3	1009.6	840.0	759.6	726.1	698.7	695.2	699.6
40°	2436.1	2245.3	1711.8	1233.1	947.8	798.5	721.7	683.7	662.5	649.2	641.3
42.5°	2289.5	2097.8	1600.5	1183.6	872.7	724.3	682.8	649.2	621.8	605.1	600.6
45°	2450.3	2263.0	1628.8	1083.8	787.0	658.1	624.5	601.5	563.5	547.6	545.0
46°	2401.7	2189.7	1597.0	1052.9	745.5	629.8	601.5	577.7	549.4	527.3	525.6
47.5°	2225.0	1977.7	1503.4	969.9	717.2	583.0	563.5	549.4	534.4	508.8	505.2
50°	1985.7	1796.6	1334.7	862.1	604.2	520.3	503.5	499.1	482.3	451.4	454.0
52.5°	1967.1	1784.3	1242.8	793.2	536.2	455.8	450.5	437.2	423.1	395.7	394.8
55°	948.7	806.5	689.9	621.0	448.7	403.7	401.0	394.8	377.2	352.4	356.9
57.5°	449.6	391.3	338.3	358.6	352.4	354.2	356.0	355.1	334.8	301.2	308.3
60°	394.0	341.8	292.4	277.4	291.5	313.6	313.6	300.3	272.1	232.3	228.8
62.5°	379.8	327.7	282.7	262.3	269.4	282.7	275.6	254.4	226.1	189.9	188.1
65°	381.6	325.9	281.8	256.2	262.3	267.6	254.4	237.6	222.6	197.0	197.0
67.5°	389.5	333.0	285.3	253.5	257.9	261.5	249.1	236.7	227.9	208.5	210.2
70°	391.3	337.4	288.8	254.4	253.5	257.0	248.2	236.7	232.3	219.1	218.2
72.5°	391.3	341.0	285.3	248.2	246.4	248.2	242.9	236.7	235.8	227.9	226.1
75°	378.1	333.0	272.9	235.8	234.1	235.8	234.1	233.2	236.7	233.2	229.7
77.5°	364.8	325.1	264.1	226.1	223.5	222.6	221.7	222.6	227.9	225.2	219.9
80°	371.0	328.6	262.3	218.2	210.2	206.7	206.7	207.6	207.6	199.6	191.7
82.5°	381.6	334.8	253.5	203.2	189.9	183.7	185.5	191.7	194.3	188.1	182.0
85°	420.5	363.0	255.3	192.6	173.1	166.1	168.7	176.7	171.4	162.5	155.5
87.5°	437.2	372.8	250.0	176.7	160.8	158.1	158.1	162.5	159.0	144.9	138.7
90°	417.8	356.9	226.1	150.2	139.6	142.2	143.1	138.7	123.7	107.8	102.5
92.5°	391.3	333.9	209.3	137.8	123.7	122.8	121.9	119.2	107.8	90.1	86.6
95°	369.2	314.5	193.4	126.3	113.1	110.4	109.5	106.0	95.4	82.1	80.4
97.5°	321.5	274.7	175.8	116.6	101.6	99.8	98.9	94.5	84.8	75.1	74.2
100°	288.8	244.7	157.2	105.1	91.9	89.2	88.3	85.7	77.7	70.7	69.8
102.5°	262.3	224.4	145.7	96.3	82.1	78.6	78.6	76.8	72.4	68.0	68.0
105°	255.3	219.9	141.3	88.3	73.3	71.5	70.7	70.7	67.1	64.5	64.5
107.5°	224.4	192.6	121.9	78.6	66.2	64.5	64.5	64.5	63.6	62.7	63.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	202.3	174.0	112.2	73.3	61.8	59.2	59.2	59.2	59.2	60.9	60.9
112.5°	180.2	156.3	103.3	69.8	57.4	54.8	53.0	52.1	51.2	54.8	55.6
115°	170.5	149.3	98.9	66.2	54.8	52.1	48.6	46.8	44.2	46.8	47.7
117.5°	160.8	141.3	97.2	65.4	53.0	48.6	45.0	43.3	39.7	42.4	42.4
120°	158.1	140.4	98.9	66.2	51.2	45.0	42.4	38.0	36.2	38.0	38.9
122.5°	145.7	129.8	92.7	61.8	48.6	43.3	39.7	32.7	31.8	34.4	34.4
125°	123.7	111.3	80.4	55.6	45.9	42.4	38.9	29.1	30.0	31.8	32.7
127.5°	108.6	98.0	73.3	53.9	45.9	43.3	36.2	25.6	28.3	30.9	31.8
130°	101.6	93.6	73.3	55.6	47.7	44.2	30.0	23.8	26.5	29.1	29.1
132.5°	98.9	92.7	75.1	59.2	49.5	42.4	24.7	22.1	24.7	26.5	26.5
135°	91.0	85.7	71.5	57.4	45.0	33.6	19.4	19.4	23.0	24.7	24.7
137.5°	80.4	76.0	64.5	53.0	39.7	25.6	14.1	16.8	19.4	21.2	21.2
140°	64.5	61.8	53.0	41.5	28.3	14.1	10.6	13.2	15.9	17.7	17.7
142.5°	45.9	44.2	37.1	26.5	16.8	6.2	7.1	9.7	12.4	14.1	14.1
145°	30.0	28.3	23.0	16.8	7.1	1.8	4.4	7.1	9.7	10.6	10.6
147.5°	18.5	17.7	14.1	7.9	2.6	1.8	1.8	5.3	7.1	7.9	7.9
150°	9.7	8.8	6.2	2.6	0.9	0.9	0.9	1.8	4.4	5.3	6.2
152.5°	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.6
155°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.9	0.0	0.9	0.9	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

(END OF REPORT)