

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: P239942

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239942
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-AF24-60-D-U-T4W-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 5450 lumens
Efficiency: N/A
Efficacy: 85.2 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 - U3 - G3

Input Watts (W): 64
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

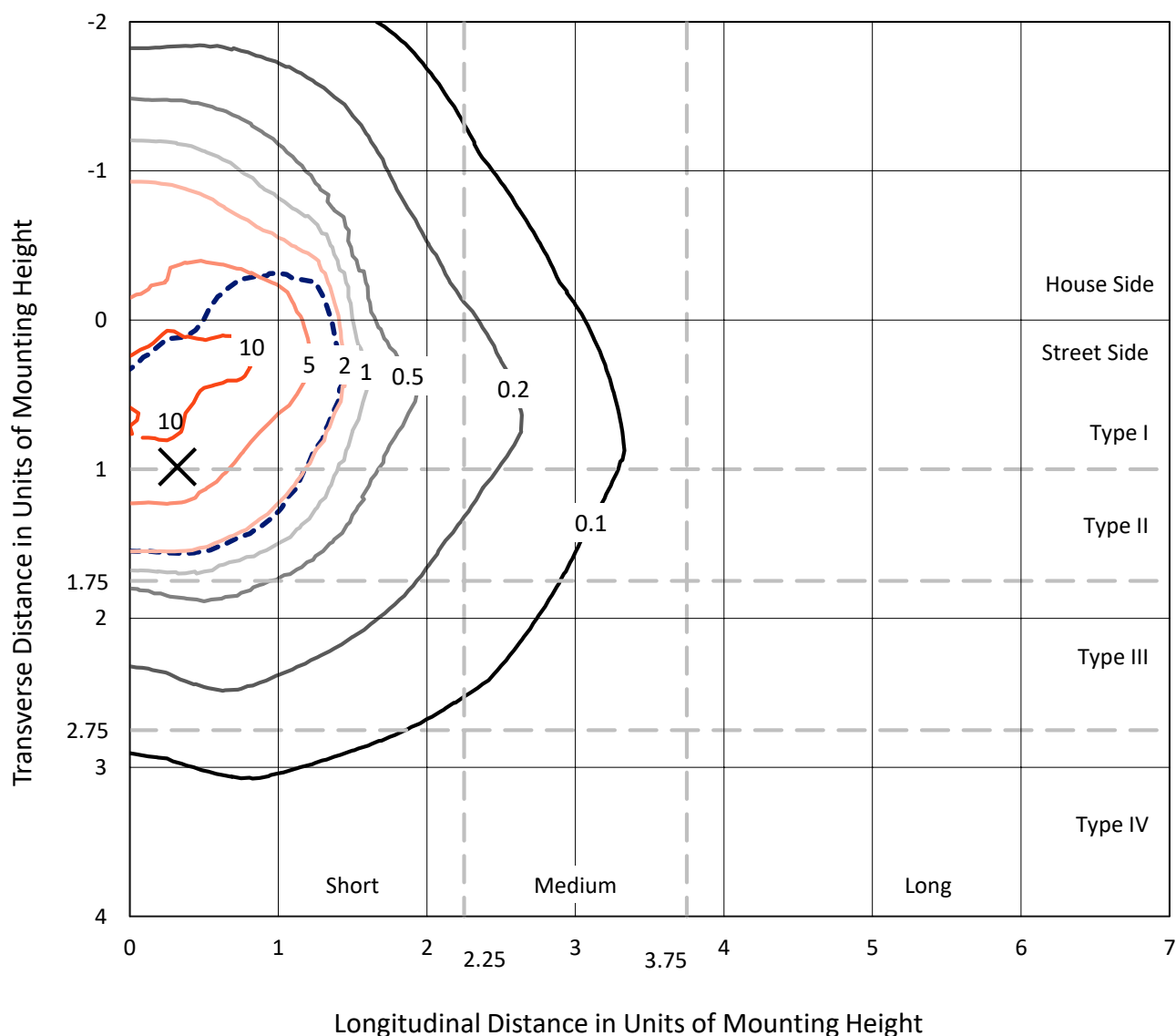


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

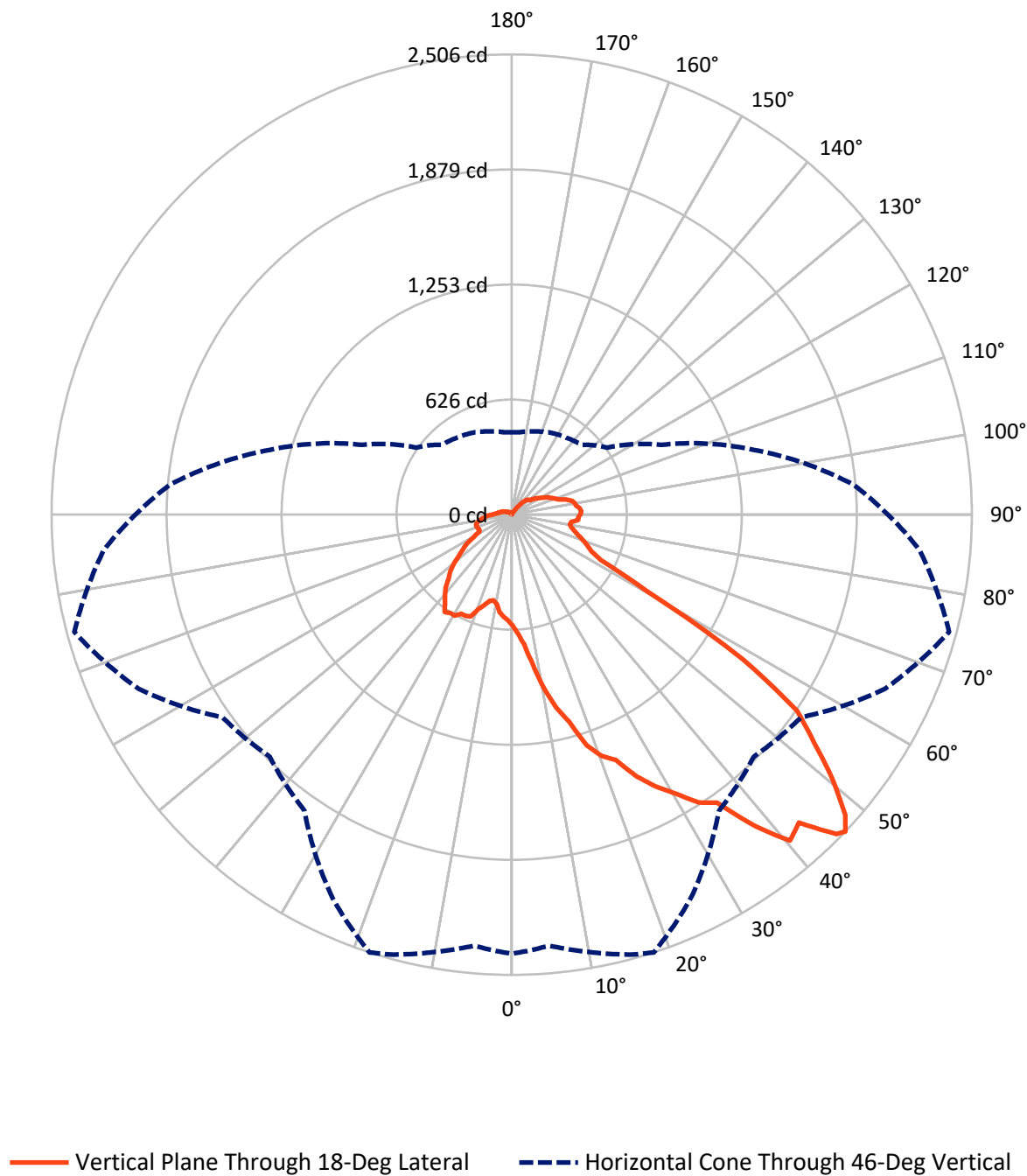


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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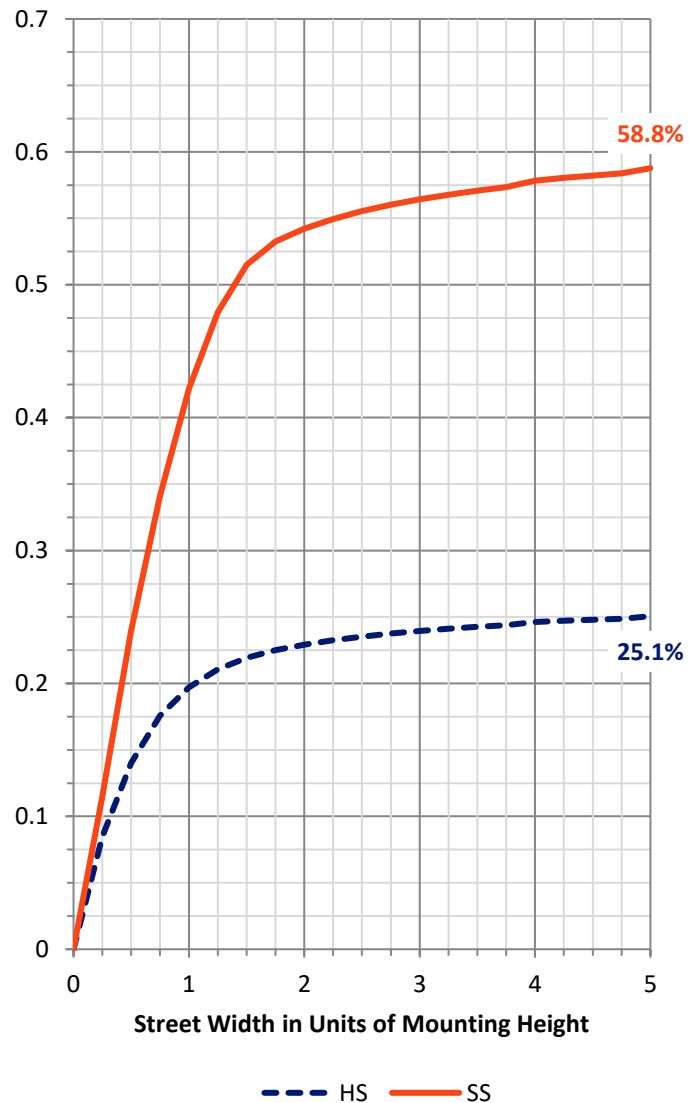
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.7	176.5	1594.2
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3326.7	529.1	3855.8
	% Fixture	61.0	9.7	70.7
Total	Lumens	4744.4	705.6	5450.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.2
10°-20°	263.8	4.8
20°-30°	536.6	9.8
30°-40°	878.5	16.1
40°-50°	1143.4	21.0
50°-60°	855.5	15.7
60°-70°	356.4	6.5
70°-80°	324.2	5.9
80°-90°	321.4	5.9
90°-100°	258.4	4.7
100°-110°	183.7	3.4
110°-120°	124.2	2.3
120°-130°	79.9	1.5
130°-140°	47.3	0.9
140°-150°	11.5	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4744.4	87.1
0°-180°	5450.0	100.0

Coefficient of Utilization



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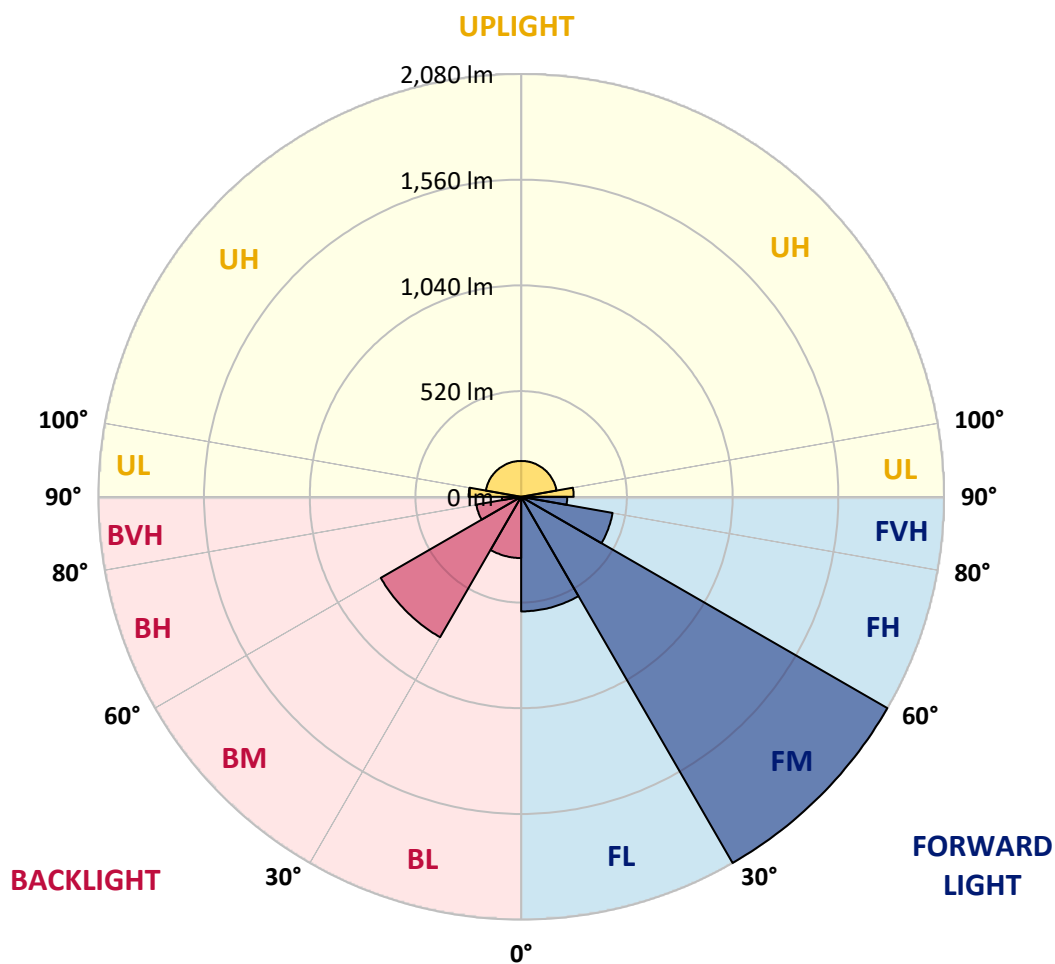
CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.7	10.3			
FM	(30°-60°)	2079.9	38.2			
FH	(60°-80°)	456.5	8.4			G0/660
FVH	(80°-90°)	226.6	4.2			G3/500
BL	(0°-30°)	301.4	5.5	B1/500		
BM	(30°-60°)	797.4	14.6	B1/1000		
BH	(60°-80°)	224.1	4.1	B1/500		G1/500
BVH	(80°-90°)	94.8	1.7			G1/100
UL	(90°-100°)	258.4	4.7		U3/500	
UH	(100°-180°)	176.5	3.2		U3/500	

BUG Rating: B1-U3-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6
2.5°	648.8	645.8	647.3	647.3	643.6	642.1	638.3	633.8	627.7	621.0	614.9
5°	712.9	710.6	709.9	709.1	708.4	698.6	687.3	677.5	666.9	655.6	639.8
7.5°	831.2	830.5	825.9	820.7	813.1	796.6	776.2	766.4	752.1	734.8	710.6
10°	978.9	968.4	958.6	958.6	943.5	937.5	931.4	917.1	908.1	884.0	849.3
12.5°	1063.3	1058.1	1078.4	1076.9	1096.5	1131.9	1144.0	1156.0	1101.0	1030.9	966.1
15°	1142.5	1142.5	1168.1	1168.8	1226.9	1305.2	1364.8	1306.7	1205.8	1092.7	1006.1
17.5°	1251.0	1257.8	1294.7	1319.6	1397.9	1532.8	1492.1	1385.1	1234.4	1099.5	1002.3
20°	1298.4	1313.5	1370.0	1402.4	1523.8	1651.1	1611.9	1486.1	1311.3	1157.5	1059.6
22.5°	1327.8	1338.4	1404.7	1450.7	1605.9	1713.7	1707.7	1580.3	1415.3	1223.1	1110.1
25°	1448.4	1455.2	1530.6	1578.0	1742.3	1777.0	1708.4	1620.2	1458.2	1258.5	1159.0
27.5°	1489.1	1489.9	1605.9	1677.5	1812.4	1800.3	1711.4	1674.5	1592.4	1434.9	1367.8
30°	1544.1	1542.6	1685.8	1762.7	1844.8	1793.6	1722.0	1754.4	1759.7	1631.5	1509.5
32.5°	1611.9	1605.9	1777.0	1868.9	1895.3	1792.1	1739.3	1794.3	1874.2	1741.6	1610.4
35°	1674.5	1679.8	1863.6	1926.2	1951.1	1801.1	1748.3	1868.9	2030.9	1928.5	1708.4
37.5°	2076.9	2070.9	2128.9	2150.8	2088.2	1832.0	1783.0	1961.6	2199.0	2154.5	1918.7
40°	2168.1	2147.8	2321.1	2333.9	2223.9	1941.3	1878.0	2017.4	2331.6	2410.8	2223.1
42.5°	2091.2	2086.0	2275.1	2292.4	2213.3	2015.1	1940.5	2062.6	2346.7	2411.5	2099.5
45°	2429.6	2401.7	2500.4	2480.1	2260.8	1983.5	1902.1	2012.1	2294.7	2476.3	2229.1
46°	2391.2	2355.7	2480.1	2505.7	2306.0	1967.6	1863.6	1923.2	2242.7	2465.8	2230.7
47.5°	2273.6	2276.6	2442.4	2443.9	2260.0	1969.9	1800.3	1869.7	2126.7	2330.9	2017.4
50°	1985.0	1951.1	2254.0	2263.8	2088.2	1884.7	1735.5	1767.2	2012.1	2137.2	1818.4
52.5°	1911.1	1884.7	2063.4	2061.8	1903.6	1755.1	1617.2	1650.4	1927.0	2069.4	1841.8
55°	1755.9	1746.8	1896.8	1884.0	1773.2	1595.4	1496.6	1517.0	1598.4	1542.6	917.9
57.5°	1166.6	1201.2	1460.5	1485.3	1486.1	1402.4	1278.9	1091.2	944.3	803.3	449.1
60°	476.3	516.2	804.8	842.5	897.5	1051.3	926.9	729.5	609.7	633.8	388.1
62.5°	359.5	374.5	537.3	544.1	565.2	639.8	632.3	529.0	520.7	573.5	371.5
65°	334.6	348.2	476.3	474.0	464.2	484.6	483.1	458.9	468.0	534.3	370.0
67.5°	316.5	330.1	442.4	443.1	434.8	438.6	441.6	429.6	450.7	519.2	379.8
70°	298.4	312.7	406.9	409.2	415.2	428.8	434.1	425.0	443.9	500.4	379.1
72.5°	276.6	292.4	373.8	377.6	389.6	420.5	438.6	436.3	438.6	472.5	377.6
75°	269.0	284.9	345.9	352.7	370.0	416.7	463.5	448.4	433.3	454.4	368.5
77.5°	235.9	254.0	316.5	331.6	370.0	428.8	480.0	474.8	446.9	442.4	358.7
80°	226.8	244.2	304.5	321.0	362.5	439.3	496.6	497.4	483.1	458.9	368.5
82.5°	228.3	244.9	307.5	326.3	373.8	446.9	483.1	501.9	503.4	473.3	379.8
85°	268.3	284.1	343.6	363.2	404.7	444.6	472.5	486.1	499.6	499.6	416.7
87.5°	286.4	300.7	345.9	363.2	403.2	449.9	445.4	468.0	481.5	498.9	429.6
90°	302.9	312.0	358.7	375.3	396.4	434.1	422.0	415.2	426.5	444.6	402.4
92.5°	315.0	323.3	364.7	379.1	397.1	405.4	387.3	367.8	395.6	410.0	374.5
95°	336.9	344.4	366.2	371.5	369.3	376.8	348.9	341.4	353.4	369.3	346.7
97.5°	321.8	327.1	348.2	354.2	352.7	341.4	313.5	309.0	319.5	331.6	306.7
100°	321.8	328.6	344.4	348.2	339.1	310.5	281.8	280.3	287.1	293.1	269.8
102.5°	328.6	331.6	334.6	336.9	320.3	288.6	267.5	262.3	264.5	267.5	246.4
105°	311.2	312.0	313.5	306.7	293.1	269.0	247.9	238.9	246.4	255.5	238.1
107.5°	269.0	268.3	269.0	266.8	265.3	250.9	235.9	224.6	224.6	227.6	211.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	250.9	251.7	250.9	250.9	244.2	234.4	220.1	208.0	202.0	203.5	188.4
112.5°	229.8	229.8	230.6	231.4	227.6	218.5	204.2	192.2	184.6	183.1	168.8
115°	229.8	227.6	220.8	220.1	212.5	199.7	189.2	174.1	168.8	168.8	159.8
117.5°	205.0	203.5	198.2	196.7	192.2	181.6	175.6	163.5	159.8	157.5	149.2
120°	181.6	181.6	179.4	178.6	174.1	168.1	155.2	150.7	147.7	150.7	145.4
122.5°	168.8	168.8	165.0	163.5	158.3	153.7	142.4	134.1	128.9	134.9	131.9
125°	155.2	154.5	149.2	148.5	139.4	139.4	133.4	122.8	108.5	114.5	113.0
127.5°	136.4	135.6	128.9	128.1	122.8	128.9	127.4	113.8	94.2	98.0	98.0
130°	131.1	129.6	123.6	122.1	116.8	115.3	121.3	99.5	88.2	91.9	91.2
132.5°	131.1	129.6	122.1	119.8	111.5	103.2	109.3	86.7	84.4	88.9	88.2
135°	118.3	118.3	111.5	107.0	98.7	83.6	85.2	67.1	73.9	80.6	80.6
137.5°	100.2	100.2	93.4	91.9	82.1	67.1	60.3	51.2	62.5	70.1	70.8
140°	78.4	78.4	73.1	70.1	63.3	44.5	27.9	31.7	47.5	54.3	56.5
142.5°	56.5	55.8	51.2	47.5	40.7	24.1	9.0	18.1	27.9	36.9	39.9
145°	39.2	38.4	33.2	30.9	24.9	11.3	2.3	7.5	16.6	21.9	25.6
147.5°	23.4	23.4	19.6	18.8	12.8	3.0	1.5	2.3	8.3	13.6	15.8
150°	13.6	13.6	9.8	7.5	3.0	0.8	0.8	0.8	2.3	6.0	7.5
152.5°	3.0	3.0	2.3	1.5	1.5	0.8	0.0	0.8	0.8	0.8	1.5
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
162.5°	0.8	0.8	0.0	0.0	0.8	0.0	0.8	0.0	0.8	0.8	0.8
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°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6
2.5°	611.9	608.9	602.1	593.8	587.8	582.5	578.8	576.5	575.0	571.2	572.7
5°	634.5	628.5	612.7	599.9	586.3	574.2	565.2	559.2	556.9	553.9	553.9
7.5°	699.3	685.0	660.9	630.8	602.9	578.8	556.2	543.3	532.0	526.0	524.5
10°	826.7	807.9	755.9	694.1	633.0	578.8	535.1	503.4	488.3	483.1	483.1
12.5°	932.2	902.8	835.0	765.7	684.3	599.1	534.3	491.3	471.0	464.2	464.2
15°	963.9	925.4	845.5	777.7	704.6	633.0	572.7	510.9	474.0	462.7	458.9
17.5°	954.1	916.4	844.0	761.9	679.7	626.2	572.7	539.6	505.7	486.1	483.1
20°	1016.6	981.9	906.6	814.6	713.7	593.8	559.9	552.4	544.1	531.3	531.3
22.5°	1068.6	1036.2	960.8	862.1	740.8	662.4	611.9	604.4	595.3	593.1	591.6
25°	1108.5	1073.9	970.6	856.8	768.7	711.4	646.6	621.0	599.1	592.3	590.1
27.5°	1321.8	1268.3	1102.5	941.2	814.6	728.0	653.4	620.2	599.9	591.6	596.8
30°	1446.9	1388.9	1207.3	995.5	869.7	764.1	666.9	627.7	633.0	639.8	645.1
32.5°	1542.6	1466.5	1253.2	1002.3	860.6	770.9	688.8	642.1	627.0	636.0	637.5
35°	1636.8	1544.1	1312.8	1045.2	872.7	746.1	673.7	646.6	642.1	654.1	651.9
37.5°	1828.2	1706.9	1386.6	1057.3	861.4	716.7	648.1	619.5	596.1	593.1	596.8
40°	2078.4	1915.6	1460.5	1052.0	808.6	681.3	615.7	583.3	565.2	553.9	547.1
42.5°	1953.3	1789.8	1365.5	1009.8	744.6	618.0	582.5	553.9	530.5	516.2	512.4
45°	2090.5	1930.7	1389.6	924.7	671.5	561.4	532.8	513.2	480.8	467.2	465.0
46°	2049.0	1868.2	1362.5	898.3	636.0	537.3	513.2	492.9	468.7	449.9	448.4
47.5°	1898.3	1687.3	1282.6	827.5	611.9	497.4	480.8	468.7	455.9	434.1	431.1
50°	1694.1	1532.8	1138.7	735.5	515.5	443.9	429.6	425.8	411.5	385.1	387.3
52.5°	1678.3	1522.3	1060.3	676.7	457.4	388.9	384.3	373.0	361.0	337.6	336.9
55°	809.4	688.0	588.6	529.8	382.8	344.4	342.1	336.9	321.8	300.7	304.5
57.5°	383.6	333.8	288.6	306.0	300.7	302.2	303.7	302.9	285.6	257.0	263.0
60°	336.1	291.6	249.4	236.6	248.7	267.5	267.5	256.2	232.1	198.2	195.2
62.5°	324.0	279.6	241.2	223.8	229.8	241.2	235.1	217.0	192.9	162.0	160.5
65°	325.6	278.1	240.4	218.5	223.8	228.3	217.0	202.7	189.9	168.1	168.1
67.5°	332.3	284.1	243.4	216.3	220.1	223.1	212.5	202.0	194.4	177.8	179.4
70°	333.8	287.9	246.4	217.0	216.3	219.3	211.8	202.0	198.2	186.9	186.1
72.5°	333.8	290.9	243.4	211.8	210.3	211.8	207.2	202.0	201.2	194.4	192.9
75°	322.5	284.1	232.9	201.2	199.7	201.2	199.7	198.9	202.0	198.9	195.9
77.5°	311.2	277.3	225.3	192.9	190.7	189.9	189.2	189.9	194.4	192.2	187.6
80°	316.5	280.3	223.8	186.1	179.4	176.3	176.3	177.1	177.1	170.3	163.5
82.5°	325.6	285.6	216.3	173.3	162.0	156.7	158.3	163.5	165.8	160.5	155.2
85°	358.7	309.7	217.8	164.3	147.7	141.7	143.9	150.7	146.2	138.7	132.6
87.5°	373.0	318.0	213.3	150.7	137.2	134.9	134.9	138.7	135.6	123.6	118.3
90°	356.5	304.5	192.9	128.1	119.1	121.3	122.1	118.3	105.5	91.9	87.4
92.5°	333.8	284.9	178.6	117.6	105.5	104.8	104.0	101.7	91.9	76.9	73.9
95°	315.0	268.3	165.0	107.8	96.5	94.2	93.4	90.4	81.4	70.1	68.6
97.5°	274.3	234.4	150.0	99.5	86.7	85.2	84.4	80.6	72.3	64.1	63.3
100°	246.4	208.7	134.1	89.7	78.4	76.1	75.4	73.1	66.3	60.3	59.5
102.5°	223.8	191.4	124.3	82.1	70.1	67.1	67.1	65.6	61.8	58.0	58.0
105°	217.8	187.6	120.6	75.4	62.5	61.0	60.3	60.3	57.3	55.0	55.0
107.5°	191.4	164.3	104.0	67.1	56.5	55.0	55.0	55.0	54.3	53.5	54.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	172.6	148.5	95.7	62.5	52.8	50.5	50.5	50.5	50.5	52.0	52.0
112.5°	153.7	133.4	88.2	59.5	49.0	46.7	45.2	44.5	43.7	46.7	47.5
115°	145.4	127.4	84.4	56.5	46.7	44.5	41.4	39.9	37.7	39.9	40.7
117.5°	137.2	120.6	82.9	55.8	45.2	41.4	38.4	36.9	33.9	36.2	36.2
120°	134.9	119.8	84.4	56.5	43.7	38.4	36.2	32.4	30.9	32.4	33.2
122.5°	124.3	110.8	79.1	52.8	41.4	36.9	33.9	27.9	27.1	29.4	29.4
125°	105.5	95.0	68.6	47.5	39.2	36.2	33.2	24.9	25.6	27.1	27.9
127.5°	92.7	83.6	62.5	46.0	39.2	36.9	30.9	21.9	24.1	26.4	27.1
130°	86.7	79.9	62.5	47.5	40.7	37.7	25.6	20.3	22.6	24.9	24.9
132.5°	84.4	79.1	64.1	50.5	42.2	36.2	21.1	18.8	21.1	22.6	22.6
135°	77.6	73.1	61.0	49.0	38.4	28.6	16.6	16.6	19.6	21.1	21.1
137.5°	68.6	64.8	55.0	45.2	33.9	21.9	12.1	14.3	16.6	18.1	18.1
140°	55.0	52.8	45.2	35.4	24.1	12.1	9.0	11.3	13.6	15.1	15.1
142.5°	39.2	37.7	31.7	22.6	14.3	5.3	6.0	8.3	10.6	12.1	12.1
145°	25.6	24.1	19.6	14.3	6.0	1.5	3.8	6.0	8.3	9.0	9.0
147.5°	15.8	15.1	12.1	6.8	2.3	1.5	1.5	4.5	6.0	6.8	6.8
150°	8.3	7.5	5.3	2.3	0.8	0.8	0.8	1.5	3.8	4.5	5.3
152.5°	2.3	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.8	0.0	0.8	0.8	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)