

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: P239935

Luminaire Tested: **UTLD-AF24-80-D-U-T4W-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239935
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-AF24-80-D-U-T4W-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5907 lumens
Efficiency: N/A
Efficacy: 71.2 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): 83
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



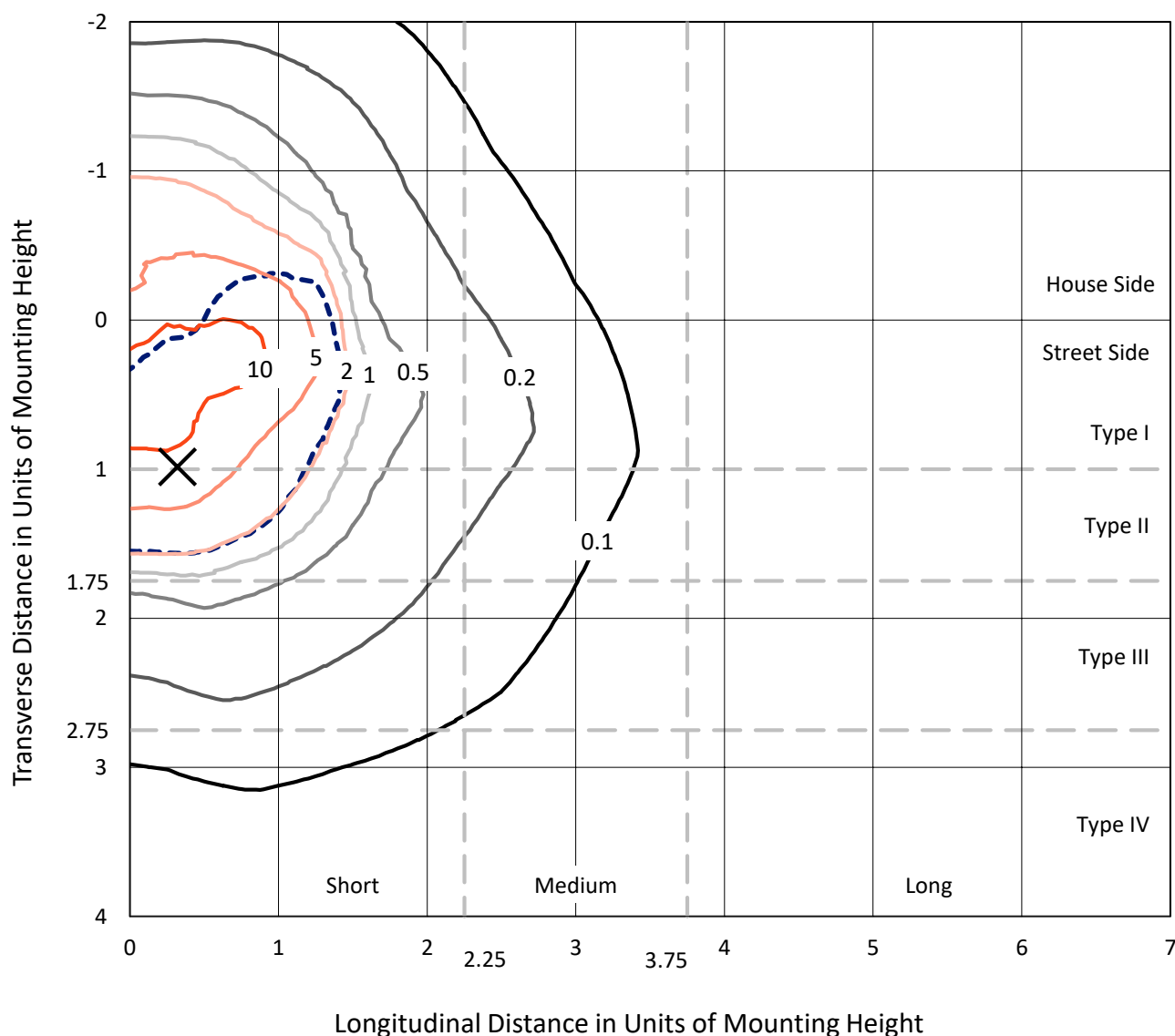
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

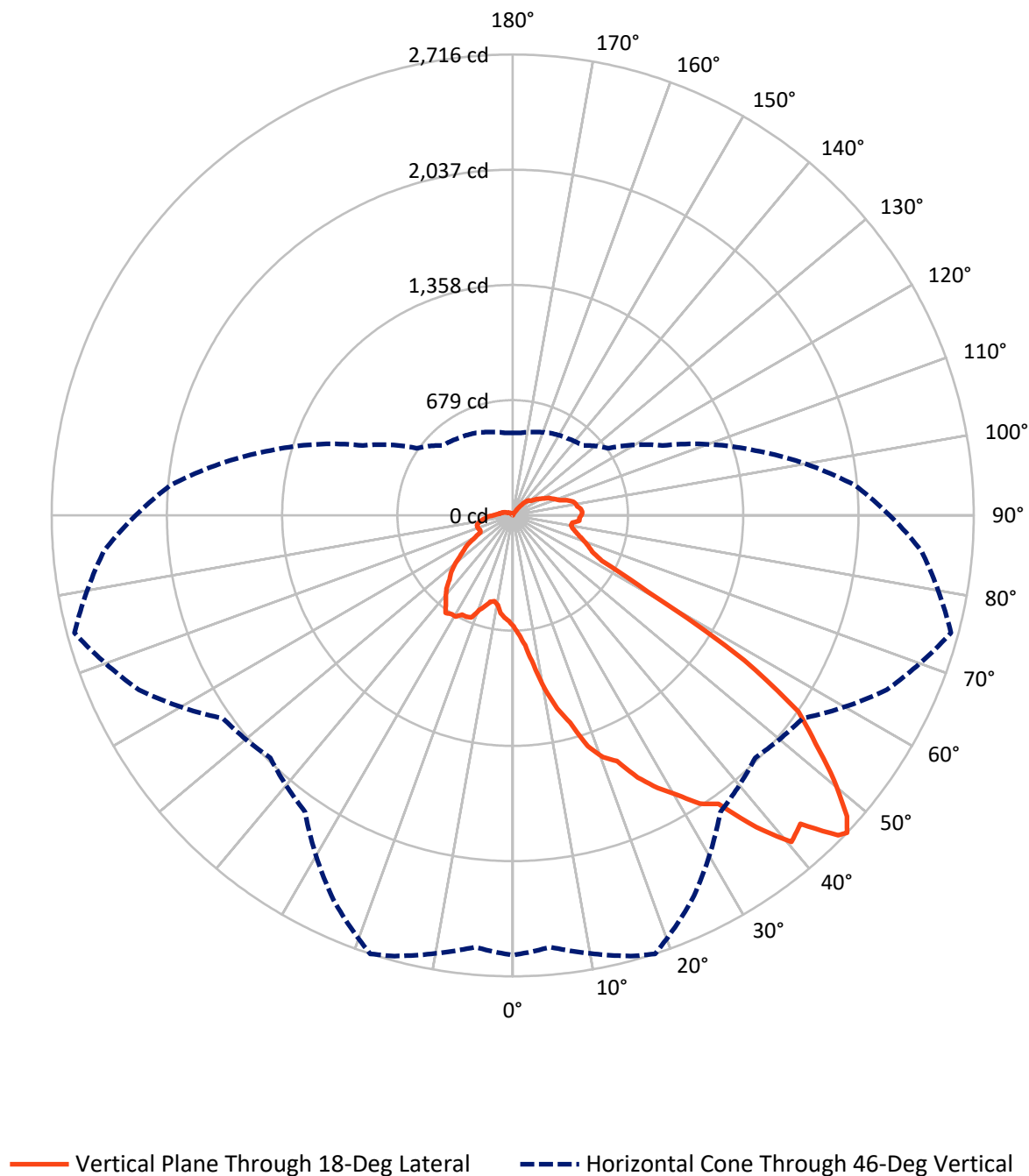


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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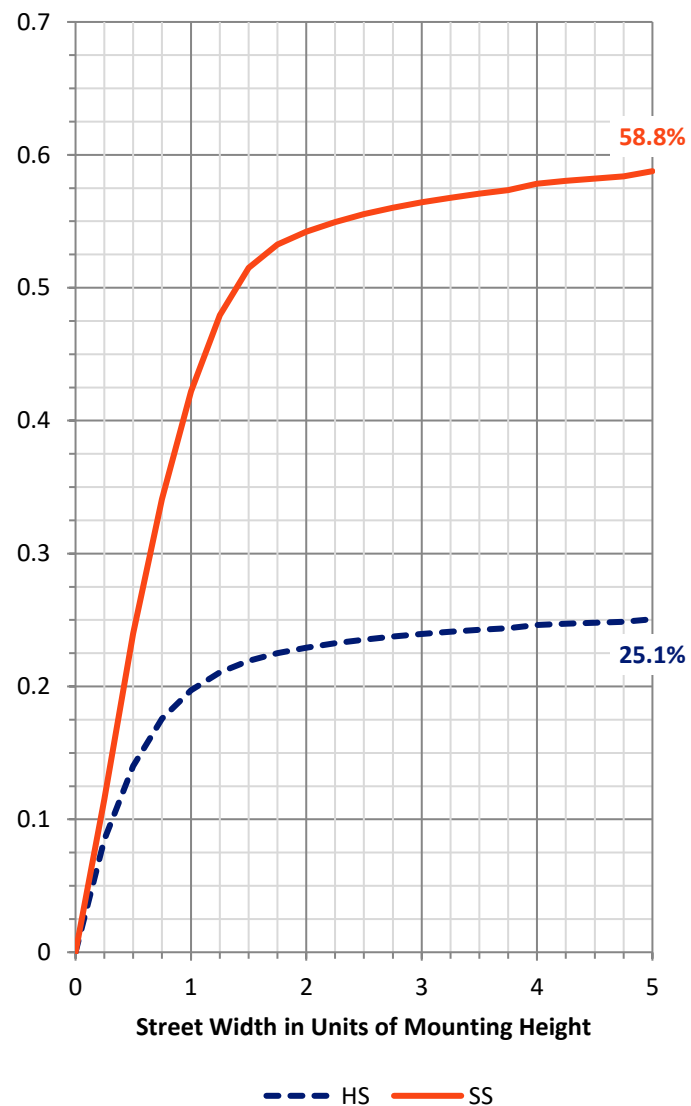
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.5	191.3	1727.8
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	3605.7	573.5	4179.2
	% Fixture	61.0	9.7	70.7
Total	Lumens	5142.2	764.8	5907.0
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.2
10°-20°	285.9	4.8
20°-30°	581.6	9.8
30°-40°	952.1	16.1
40°-50°	1239.2	21.0
50°-60°	927.3	15.7
60°-70°	386.2	6.5
70°-80°	351.4	5.9
80°-90°	348.4	5.9
90°-100°	280.1	4.7
100°-110°	199.1	3.4
110°-120°	134.6	2.3
120°-130°	86.6	1.5
130°-140°	51.3	0.9
140°-150°	12.4	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5142.2	87.1
0°-180°	5907.0	100.0

Coefficient of Utilization



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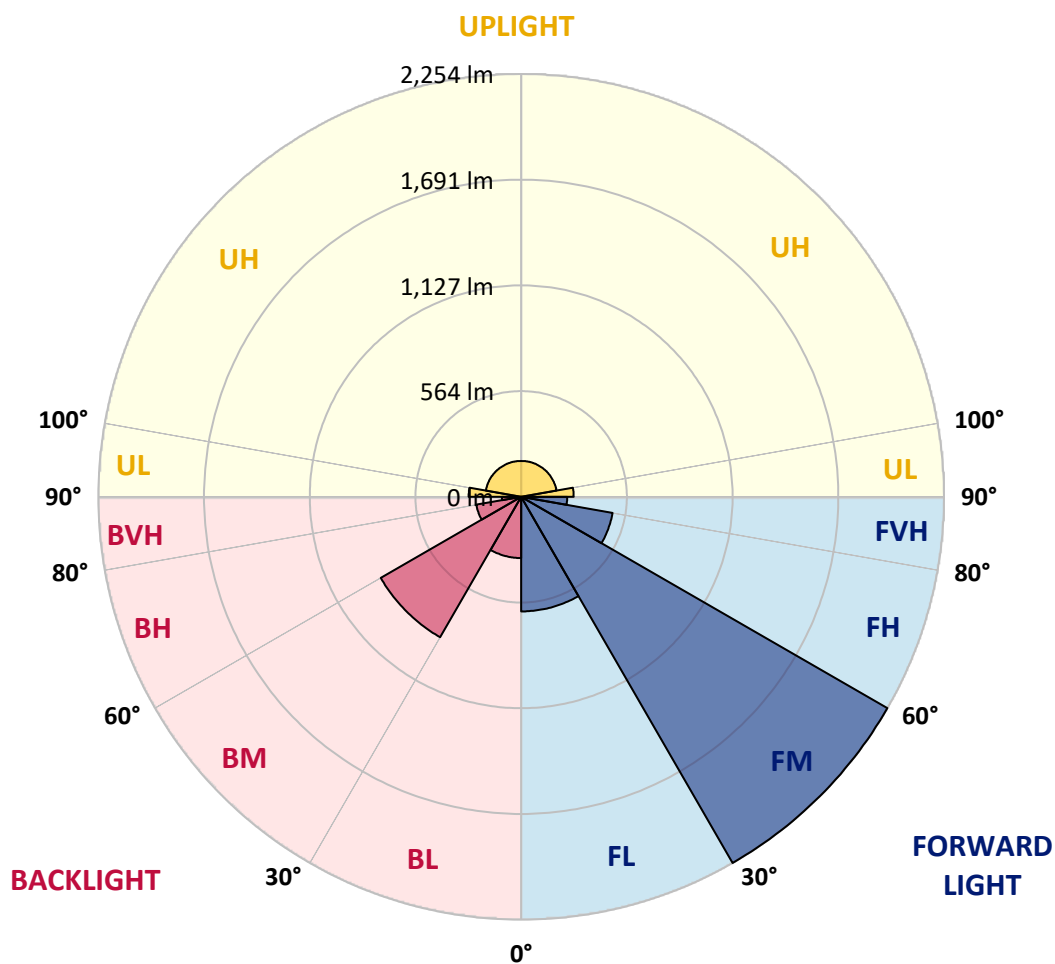
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.0	10.3			
FM	(30°-60°)	2254.3	38.2			
FH	(60°-80°)	494.7	8.4			G0/660
FVH	(80°-90°)	245.6	4.2			G3/500
BL	(0°-30°)	326.6	5.5	B1/500		
BM	(30°-60°)	864.3	14.6	B1/1000		
BH	(60°-80°)	242.9	4.1	B1/500		G1/500
BVH	(80°-90°)	102.7	1.7			G2/225
UL	(90°-100°)	280.1	4.7		U3/500	
UH	(100°-180°)	191.3	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°	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2
2.5°	703.3	700.0	701.6	701.6	697.5	695.9	691.8	686.9	680.4	673.0	666.5
5°	772.7	770.2	769.4	768.6	767.8	757.2	744.9	734.3	722.9	710.6	693.5
7.5°	900.9	900.1	895.2	889.5	881.3	863.3	841.3	830.7	815.2	796.4	770.2
10°	1061.0	1049.6	1039.0	1039.0	1022.6	1016.1	1009.6	994.0	984.2	958.1	920.5
12.5°	1152.5	1146.8	1168.8	1167.2	1188.4	1226.8	1239.9	1253.0	1193.3	1117.4	1047.1
15°	1238.3	1238.3	1266.0	1266.8	1329.7	1414.7	1479.2	1416.3	1306.9	1184.3	1090.4
17.5°	1355.9	1363.2	1403.2	1430.2	1515.1	1661.4	1617.2	1501.3	1337.9	1191.7	1086.3
20°	1407.3	1423.7	1484.9	1520.0	1651.5	1789.6	1747.1	1610.7	1421.2	1254.6	1148.4
22.5°	1439.2	1450.6	1522.5	1572.3	1740.6	1857.4	1850.8	1712.8	1533.9	1325.7	1203.1
25°	1569.9	1577.2	1658.9	1710.4	1888.4	1926.0	1851.7	1756.1	1580.5	1364.0	1256.2
27.5°	1614.0	1614.8	1740.6	1818.2	1964.4	1951.3	1854.9	1814.9	1725.9	1555.2	1482.5
30°	1673.6	1672.0	1827.2	1910.5	1999.5	1944.0	1866.4	1901.5	1907.2	1768.4	1636.0
32.5°	1747.1	1740.6	1926.0	2025.6	2054.2	1942.3	1885.2	1944.8	2031.4	1887.6	1745.5
35°	1814.9	1820.6	2019.9	2087.7	2114.7	1952.1	1895.0	2025.6	2201.2	2090.2	1851.7
37.5°	2251.1	2244.5	2307.4	2331.1	2263.3	1985.6	1932.5	2126.1	2383.4	2335.2	2079.5
40°	2349.9	2327.9	2515.7	2529.6	2410.3	2104.1	2035.4	2186.5	2527.1	2612.9	2409.5
42.5°	2266.6	2260.9	2465.9	2484.7	2398.9	2184.1	2103.2	2235.6	2543.5	2613.7	2275.6
45°	2633.3	2603.1	2710.1	2688.1	2450.4	2149.8	2061.6	2180.8	2487.1	2684.0	2416.1
46°	2591.7	2553.3	2688.1	2715.8	2499.4	2132.6	2019.9	2084.4	2430.8	2672.5	2417.7
47.5°	2464.3	2467.5	2647.2	2648.8	2449.6	2135.1	1951.3	2026.5	2305.0	2526.3	2186.5
50°	2151.4	2114.7	2443.0	2453.6	2263.3	2042.8	1881.1	1915.4	2180.8	2316.4	1970.9
52.5°	2071.4	2042.8	2236.4	2234.7	2063.2	1902.3	1752.8	1788.8	2088.5	2242.9	1996.2
55°	1903.1	1893.3	2055.9	2042.0	1921.9	1729.1	1622.1	1644.2	1732.4	1672.0	994.9
57.5°	1264.4	1302.0	1582.9	1609.9	1610.7	1520.0	1386.1	1182.7	1023.4	870.7	486.8
60°	516.2	559.5	872.3	913.2	972.8	1139.4	1004.7	790.7	660.8	686.9	420.6
62.5°	389.6	405.9	582.4	589.7	612.6	693.5	685.3	573.4	564.4	621.6	402.7
65°	362.7	377.4	516.2	513.8	503.1	525.2	523.6	497.4	507.2	579.1	401.0
67.5°	343.1	357.8	479.5	480.3	471.3	475.4	478.6	465.6	488.4	562.8	411.7
70°	323.4	339.0	441.1	443.5	450.1	464.8	470.5	460.7	481.1	542.3	410.8
72.5°	299.8	316.9	405.1	409.2	422.3	455.8	475.4	472.9	475.4	512.1	409.2
75°	291.6	308.7	374.9	382.3	401.0	451.7	502.3	486.0	469.7	492.5	399.4
77.5°	255.7	275.3	343.1	359.4	401.0	464.8	520.3	514.6	484.4	479.5	388.8
80°	245.9	264.6	330.0	348.0	392.9	476.2	538.3	539.1	523.6	497.4	399.4
82.5°	247.5	265.5	333.3	353.7	405.1	484.4	523.6	544.0	545.6	512.9	411.7
85°	290.8	307.9	372.5	393.7	438.6	481.9	512.1	526.8	541.5	541.5	451.7
87.5°	310.4	325.9	374.9	393.7	437.0	487.6	482.7	507.2	521.9	540.7	465.6
90°	328.3	338.2	388.8	406.8	429.6	470.5	457.4	450.1	462.3	481.9	436.2
92.5°	341.4	350.4	395.3	410.8	430.4	439.4	419.8	398.6	428.8	444.3	405.9
95°	365.1	373.3	397.0	402.7	400.2	408.4	378.2	370.0	383.1	400.2	375.7
97.5°	348.8	354.5	377.4	383.9	382.3	370.0	339.8	334.9	346.3	359.4	332.4
100°	348.8	356.1	373.3	377.4	367.6	336.5	305.5	303.8	311.2	317.7	292.4
102.5°	356.1	359.4	362.7	365.1	347.1	312.8	290.0	284.2	286.7	290.0	267.1
105°	337.3	338.2	339.8	332.4	317.7	291.6	268.7	258.9	267.1	276.9	258.1
107.5°	291.6	290.8	291.6	289.1	287.5	272.0	255.7	243.4	243.4	246.7	228.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	272.0	272.8	272.0	272.0	264.6	254.0	238.5	225.4	218.9	220.5	204.2
112.5°	249.1	249.1	249.9	250.8	246.7	236.9	221.4	208.3	200.1	198.5	183.0
115°	249.1	246.7	239.3	238.5	230.3	216.4	205.0	188.7	183.0	183.0	173.2
117.5°	222.2	220.5	214.8	213.2	208.3	196.8	190.3	177.2	173.2	170.7	161.7
120°	196.8	196.8	194.4	193.6	188.7	182.1	168.3	163.4	160.1	163.4	157.6
122.5°	183.0	183.0	178.9	177.2	171.5	166.6	154.4	145.4	139.7	146.2	142.9
125°	168.3	167.4	161.7	160.9	151.1	151.1	144.6	133.1	117.6	124.2	122.5
127.5°	147.8	147.0	139.7	138.9	133.1	139.7	138.0	123.3	102.1	106.2	106.2
130°	142.1	140.5	134.0	132.3	126.6	125.0	131.5	107.8	95.6	99.6	98.8
132.5°	142.1	140.5	132.3	129.9	120.9	111.9	118.4	93.9	91.5	96.4	95.6
135°	128.2	128.2	120.9	116.0	107.0	90.7	92.3	72.7	80.0	87.4	87.4
137.5°	108.6	108.6	101.3	99.6	89.0	72.7	65.3	55.5	67.8	76.0	76.8
140°	84.9	84.9	79.2	76.0	68.6	48.2	30.2	34.3	51.5	58.8	61.3
142.5°	61.3	60.4	55.5	51.5	44.1	26.1	9.8	19.6	30.2	40.0	43.3
145°	42.5	41.7	35.9	33.5	27.0	12.3	2.5	8.2	18.0	23.7	27.8
147.5°	25.3	25.3	21.2	20.4	13.9	3.3	1.6	2.5	9.0	14.7	17.2
150°	14.7	14.7	10.6	8.2	3.3	0.8	0.8	0.8	2.5	6.5	8.2
152.5°	3.3	3.3	2.5	1.6	1.6	0.8	0.0	0.8	0.8	0.8	1.6
155°	1.6	1.6	1.6	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°	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2	654.2
2.5°	663.2	660.0	652.6	643.6	637.1	631.4	627.3	624.8	623.2	619.1	620.8
5°	687.7	681.2	664.1	650.2	635.5	622.4	612.6	606.1	603.6	600.3	600.3
7.5°	758.0	742.5	716.3	683.7	653.4	627.3	602.8	588.9	576.7	570.1	568.5
10°	896.0	875.6	819.2	752.3	686.1	627.3	579.9	545.6	529.3	523.6	523.6
12.5°	1010.4	978.5	905.0	829.9	741.6	649.3	579.1	532.5	510.5	503.1	503.1
15°	1044.7	1003.0	916.4	842.9	763.7	686.1	620.8	553.8	513.8	501.5	497.4
17.5°	1034.1	993.2	914.8	825.8	736.7	678.8	620.8	584.8	548.1	526.8	523.6
20°	1101.8	1064.3	982.6	882.9	773.5	643.6	606.9	598.7	589.7	575.8	575.8
22.5°	1158.2	1123.1	1041.4	934.4	802.9	718.0	663.2	655.1	645.3	642.8	641.2
25°	1201.5	1163.9	1052.0	928.7	833.1	771.0	700.8	673.0	649.3	642.0	639.5
27.5°	1432.6	1374.7	1195.0	1020.2	882.9	789.0	708.2	672.2	650.2	641.2	646.9
30°	1568.2	1505.3	1308.5	1079.0	942.6	828.2	722.9	680.4	686.1	693.5	699.2
32.5°	1672.0	1589.5	1358.3	1086.3	932.8	835.6	746.5	695.9	679.6	689.4	691.0
35°	1774.1	1673.6	1422.8	1132.9	945.8	808.6	730.2	700.8	695.9	709.0	706.5
37.5°	1981.5	1850.0	1502.9	1146.0	933.6	776.8	702.4	671.4	646.1	642.8	646.9
40°	2252.7	2076.3	1582.9	1140.2	876.4	738.4	667.3	632.2	612.6	600.3	593.0
42.5°	2117.1	1939.9	1480.0	1094.5	807.0	669.8	631.4	600.3	575.0	559.5	555.4
45°	2265.8	2092.6	1506.2	1002.2	727.8	608.5	577.5	556.2	521.1	506.4	504.0
46°	2220.9	2024.8	1476.8	973.6	689.4	582.4	556.2	534.2	508.0	487.6	486.0
47.5°	2057.5	1828.8	1390.2	896.8	663.2	539.1	521.1	508.0	494.2	470.5	467.2
50°	1836.1	1661.4	1234.2	797.2	558.7	481.1	465.6	461.5	446.0	417.4	419.8
52.5°	1819.0	1649.9	1149.2	733.5	495.8	421.5	416.6	404.3	391.2	365.9	365.1
55°	877.2	745.7	637.9	574.2	414.9	373.3	370.8	365.1	348.8	325.9	330.0
57.5°	415.7	361.8	312.8	331.6	325.9	327.5	329.2	328.3	309.6	278.5	285.1
60°	364.3	316.1	270.4	256.5	269.5	290.0	290.0	277.7	251.6	214.8	211.5
62.5°	351.2	303.0	261.4	242.6	249.1	261.4	254.8	235.2	209.1	175.6	174.0
65°	352.9	301.4	260.6	236.9	242.6	247.5	235.2	219.7	205.8	182.1	182.1
67.5°	360.2	307.9	263.8	234.4	238.5	241.8	230.3	218.9	210.7	192.8	194.4
70°	361.8	312.0	267.1	235.2	234.4	237.7	229.5	218.9	214.8	202.6	201.7
72.5°	361.8	315.3	263.8	229.5	227.9	229.5	224.6	218.9	218.1	210.7	209.1
75°	349.6	307.9	252.4	218.1	216.4	218.1	216.4	215.6	218.9	215.6	212.4
77.5°	337.3	300.6	244.2	209.1	206.6	205.8	205.0	205.8	210.7	208.3	203.4
80°	343.1	303.8	242.6	201.7	194.4	191.1	191.1	191.9	191.9	184.6	177.2
82.5°	352.9	309.6	234.4	187.9	175.6	169.9	171.5	177.2	179.7	174.0	168.3
85°	388.8	335.7	236.1	178.1	160.1	153.6	156.0	163.4	158.5	150.3	143.8
87.5°	404.3	344.7	231.2	163.4	148.7	146.2	146.2	150.3	147.0	134.0	128.2
90°	386.3	330.0	209.1	138.9	129.1	131.5	132.3	128.2	114.4	99.6	94.7
92.5°	361.8	308.7	193.6	127.4	114.4	113.5	112.7	110.3	99.6	83.3	80.0
95°	341.4	290.8	178.9	116.8	104.5	102.1	101.3	98.0	88.2	76.0	74.3
97.5°	297.3	254.0	162.5	107.8	93.9	92.3	91.5	87.4	78.4	69.4	68.6
100°	267.1	226.3	145.4	97.2	84.9	82.5	81.7	79.2	71.9	65.3	64.5
102.5°	242.6	207.5	134.8	89.0	76.0	72.7	72.7	71.1	67.0	62.9	62.9
105°	236.1	203.4	130.7	81.7	67.8	66.2	65.3	65.3	62.1	59.6	59.6
107.5°	207.5	178.1	112.7	72.7	61.3	59.6	59.6	59.6	58.8	58.0	58.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	187.0	160.9	103.7	67.8	57.2	54.7	54.7	54.7	54.7	56.4	56.4
112.5°	166.6	144.6	95.6	64.5	53.1	50.6	49.0	48.2	47.4	50.6	51.5
115°	157.6	138.0	91.5	61.3	50.6	48.2	44.9	43.3	40.8	43.3	44.1
117.5°	148.7	130.7	89.8	60.4	49.0	44.9	41.7	40.0	36.8	39.2	39.2
120°	146.2	129.9	91.5	61.3	47.4	41.7	39.2	35.1	33.5	35.1	35.9
122.5°	134.8	120.1	85.8	57.2	44.9	40.0	36.8	30.2	29.4	31.9	31.9
125°	114.4	102.9	74.3	51.5	42.5	39.2	35.9	27.0	27.8	29.4	30.2
127.5°	100.5	90.7	67.8	49.8	42.5	40.0	33.5	23.7	26.1	28.6	29.4
130°	93.9	86.6	67.8	51.5	44.1	40.8	27.8	22.1	24.5	27.0	27.0
132.5°	91.5	85.8	69.4	54.7	45.7	39.2	22.9	20.4	22.9	24.5	24.5
135°	84.1	79.2	66.2	53.1	41.7	31.0	18.0	18.0	21.2	22.9	22.9
137.5°	74.3	70.2	59.6	49.0	36.8	23.7	13.1	15.5	18.0	19.6	19.6
140°	59.6	57.2	49.0	38.4	26.1	13.1	9.8	12.3	14.7	16.3	16.3
142.5°	42.5	40.8	34.3	24.5	15.5	5.7	6.5	9.0	11.4	13.1	13.1
145°	27.8	26.1	21.2	15.5	6.5	1.6	4.1	6.5	9.0	9.8	9.8
147.5°	17.2	16.3	13.1	7.4	2.5	1.6	1.6	4.9	6.5	7.4	7.4
150°	9.0	8.2	5.7	2.5	0.8	0.8	0.8	1.6	4.1	4.9	5.7
152.5°	2.5	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5
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)