

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: P239996

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5615 lumens
Efficiency: N/A
Efficacy: 87.7 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 - G2

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



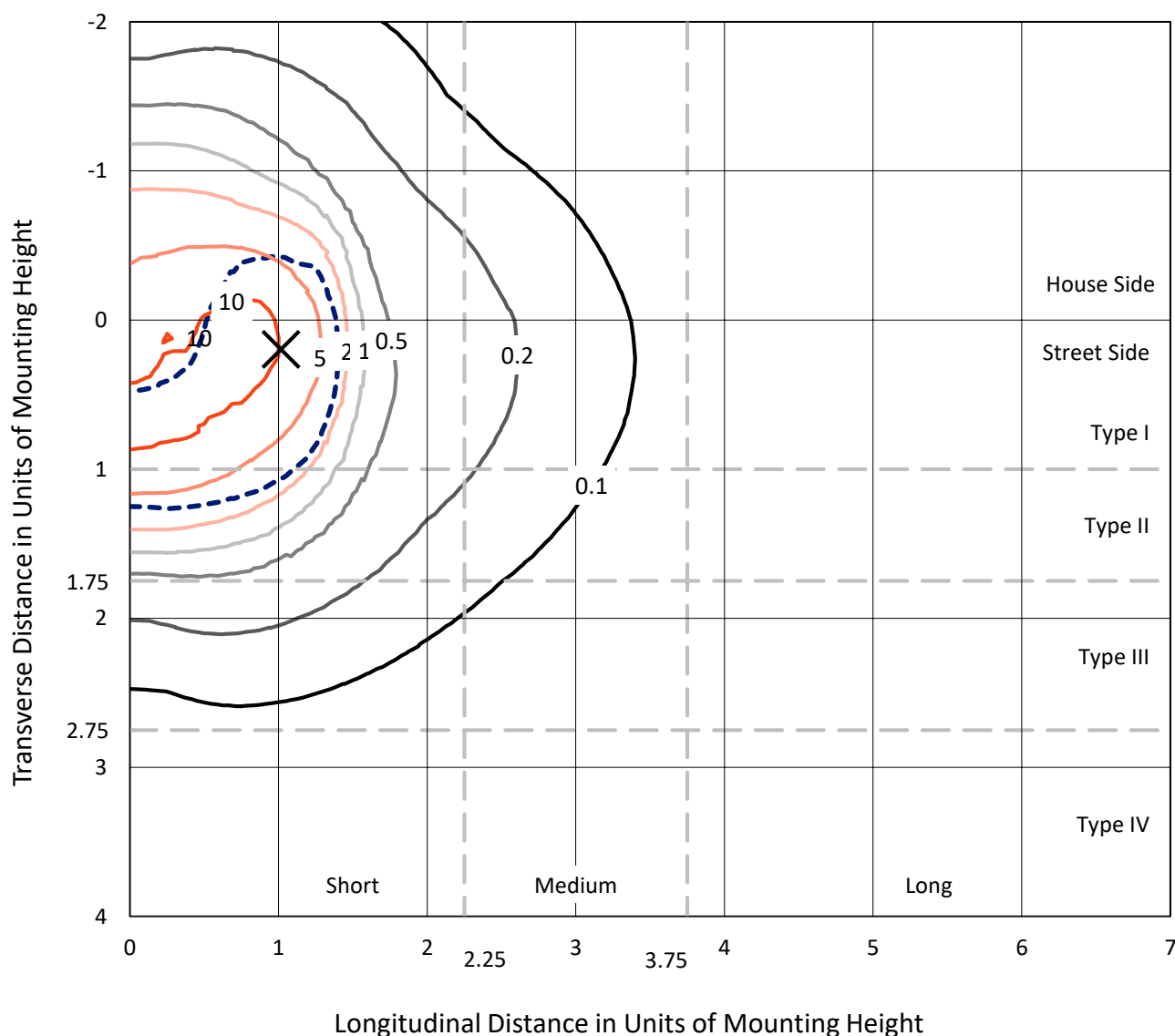
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

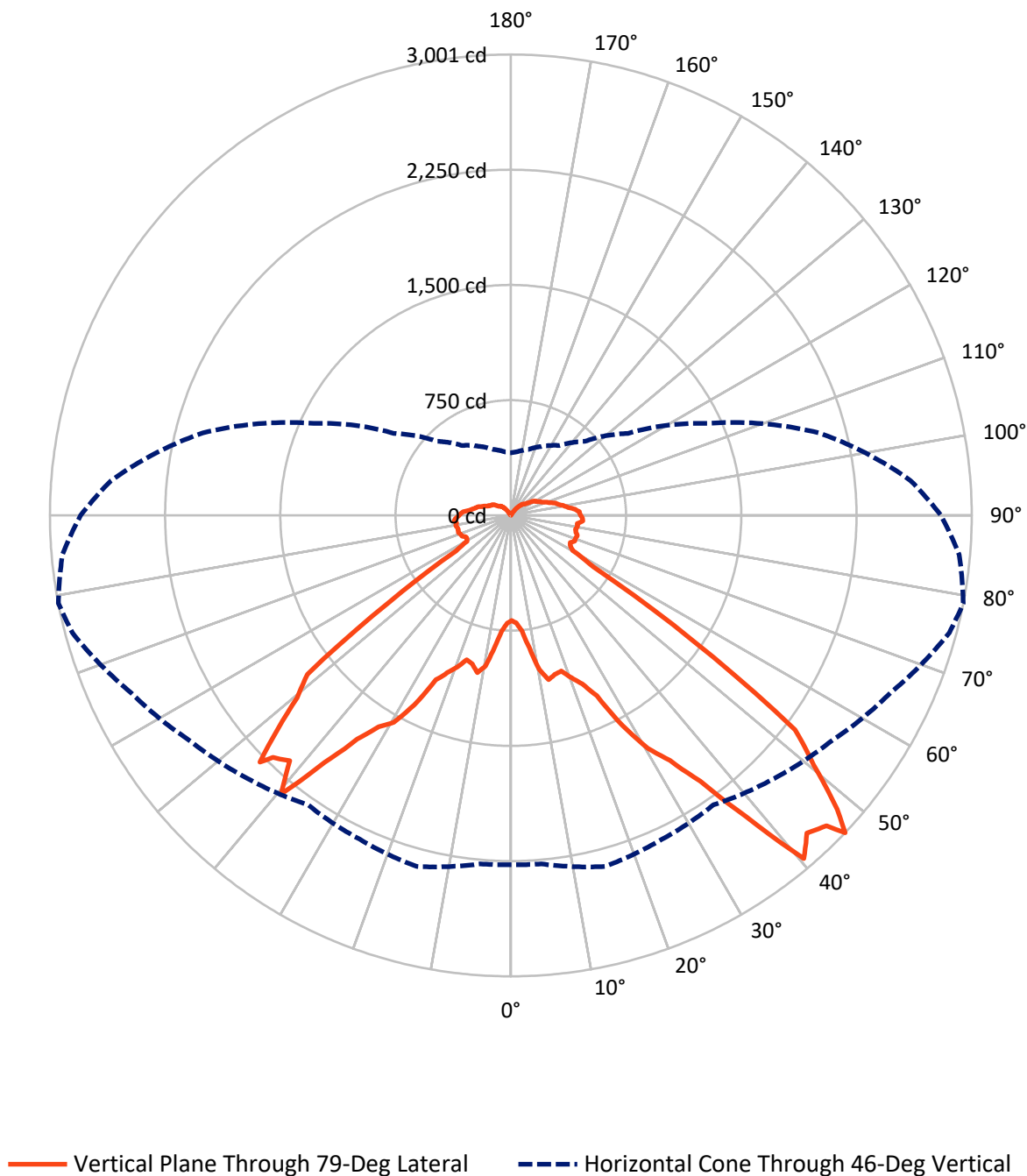


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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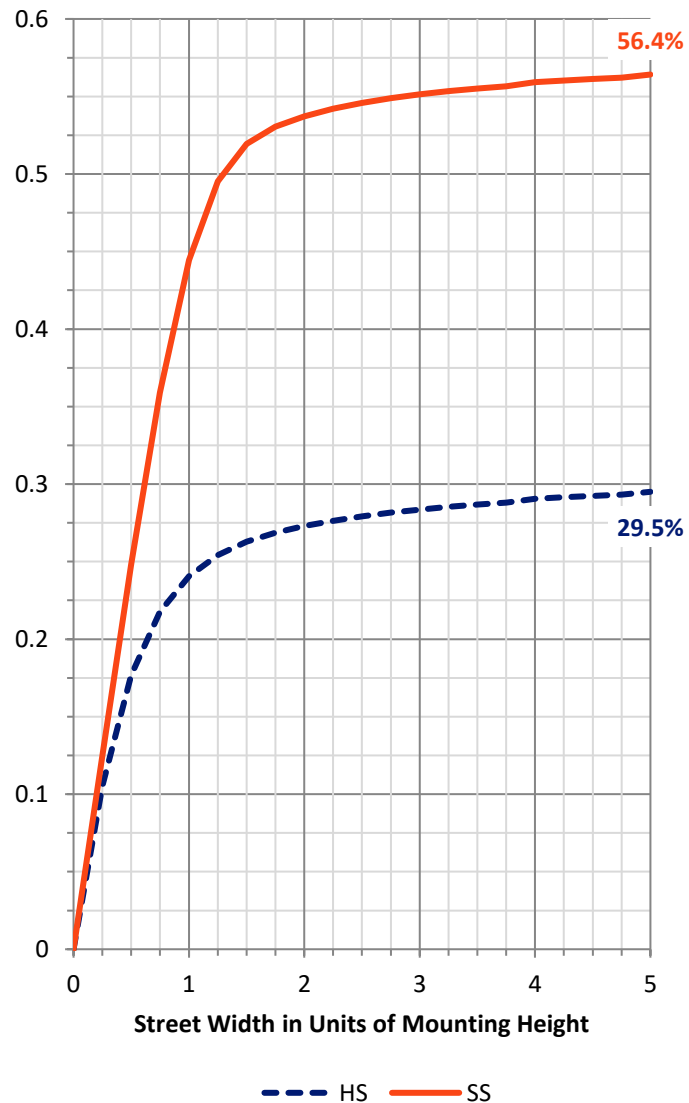
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1711.6	212.9	1924.5
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	3228.7	461.8	3690.6
	% Fixture	57.5	8.2	65.7
Total	Lumens	4940.3	674.7	5615.0
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.3
10°-20°	266.7	4.8
20°-30°	538.9	9.6
30°-40°	986.6	17.6
40°-50°	1363.4	24.3
50°-60°	870.3	15.5
60°-70°	311.7	5.6
70°-80°	279.9	5.0
80°-90°	248.9	4.4
90°-100°	228.3	4.1
100°-110°	177.5	3.2
110°-120°	123.2	2.2
120°-130°	82.5	1.5
130°-140°	49.4	0.9
140°-150°	13.1	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4940.3	88.0
0°-180°	5615.0	100.0

Coefficient of Utilization



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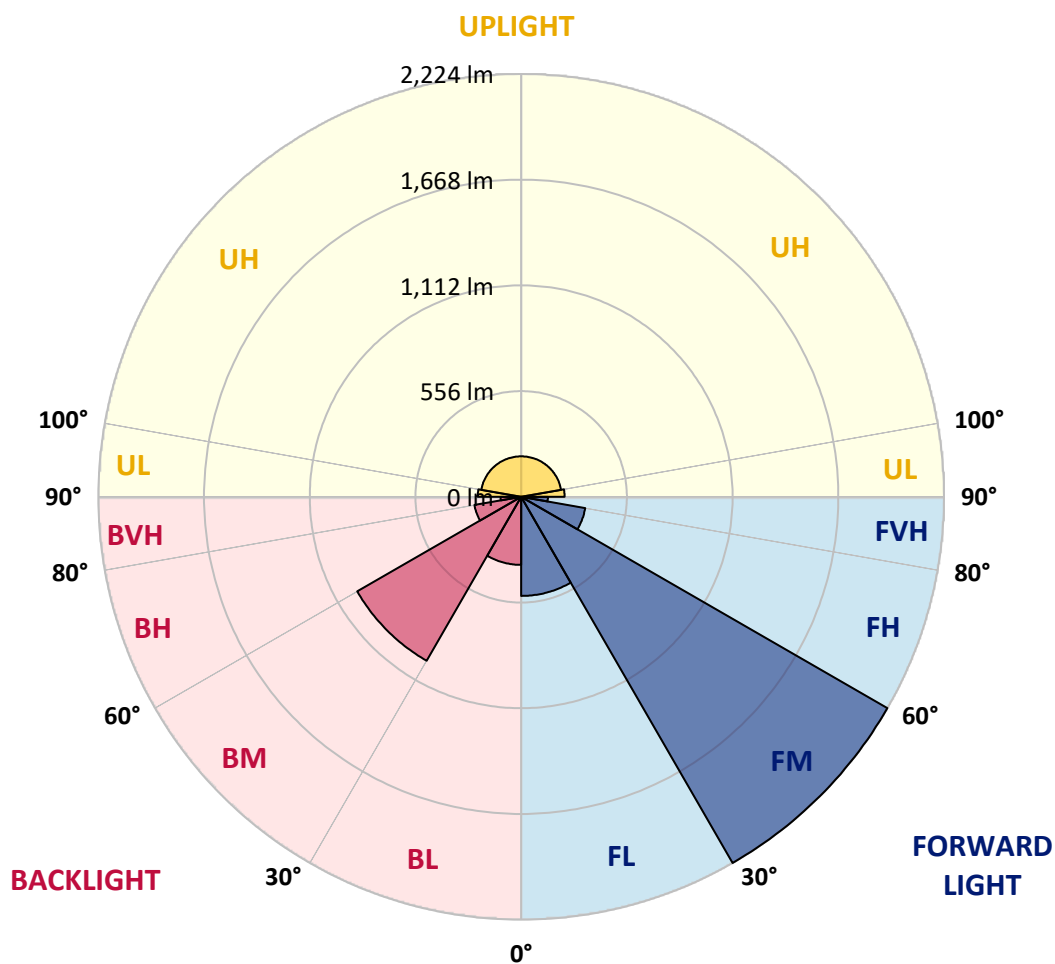
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.5	9.3			
FM	(30°-60°)	2224.5	39.6			
FH	(60°-80°)	342.1	6.1			G0/660
FVH	(80°-90°)	140.6	2.5			G2/225
BL	(0°-30°)	358.0	6.4	B1/500		
BM	(30°-60°)	995.8	17.7	B1/1000		
BH	(60°-80°)	249.5	4.4	B1/500		G1/500
BVH	(80°-90°)	108.3	1.9			G2/225
UL	(90°-100°)	228.3	4.1		U3/500	
UH	(100°-180°)	212.9	3.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	695.7	697.9	697.2	695.7	698.7	700.2	700.2	699.4	700.2	701.7	704.7
5°	728.8	728.1	730.3	736.4	744.6	746.9	753.7	752.2	756.0	756.0	760.5
7.5°	786.9	787.6	795.1	801.2	810.2	829.8	848.7	873.5	872.8	871.3	877.3
10°	847.2	847.2	862.2	884.1	921.0	962.5	980.6	1002.4	1025.0	1021.3	1015.2
12.5°	866.0	869.0	895.4	949.7	1029.5	1100.4	1136.6	1132.0	1109.4	1096.6	1076.3
15°	900.7	904.4	933.1	1016.0	1110.9	1174.3	1187.8	1132.0	1083.1	1074.0	1056.7
17.5°	1031.1	1031.1	1060.4	1136.6	1208.2	1193.9	1140.3	1114.0	1082.3	1065.0	1040.1
20°	1121.5	1126.8	1173.5	1227.0	1266.2	1219.5	1220.2	1171.2	1138.8	1128.3	1104.9
22.5°	1208.9	1216.5	1230.0	1313.7	1325.0	1334.0	1306.9	1262.4	1208.2	1190.8	1166.7
25°	1394.3	1396.6	1410.9	1450.9	1420.7	1405.6	1366.4	1330.3	1309.2	1300.1	1274.5
27.5°	1614.4	1607.6	1613.7	1616.7	1570.7	1529.2	1472.0	1510.4	1540.5	1548.8	1526.2
30°	1659.6	1648.3	1694.3	1743.3	1720.7	1670.9	1667.2	1713.1	1769.7	1759.1	1727.5
32.5°	1842.0	1824.7	1845.8	1851.1	1847.3	1833.0	1827.0	1885.0	1925.7	1902.3	1856.3
35°	1989.0	1988.2	1913.6	1931.0	1941.5	1974.7	2007.8	2087.0	2123.2	2124.7	2086.2
37.5°	2303.3	2280.7	2252.8	2142.7	2084.7	2099.8	2214.4	2354.5	2435.9	2489.4	2428.4
40°	2411.1	2420.9	2397.5	2385.4	2301.0	2265.6	2397.5	2638.7	2859.5	2937.9	2930.4
42.5°	2233.9	2256.6	2243.0	2326.7	2393.7	2439.0	2598.0	2804.5	2846.7	2826.3	2718.6
45°	2381.7	2381.7	2345.5	2293.5	2316.9	2463.8	2589.7	2729.1	2861.0	2882.1	2822.6
46°	2274.6	2276.9	2365.8	2326.7	2300.3	2422.4	2553.5	2729.1	2954.5	3000.5	2930.4
47.5°	2077.2	2073.4	2237.0	2249.8	2267.9	2368.1	2512.1	2728.4	2855.7	2858.8	2771.3
50°	1646.1	1652.8	1877.4	1996.5	2115.6	2214.4	2408.8	2530.9	2559.5	2554.3	2459.3
52.5°	1336.3	1354.4	1473.5	1623.5	1767.4	1957.3	2183.4	2297.3	2359.8	2318.4	2230.9
55°	926.3	965.5	1115.5	1250.4	1461.4	1643.8	1839.0	1849.6	1563.9	1433.5	1271.5
57.5°	572.8	580.3	713.0	903.7	1062.0	1205.2	1207.4	938.3	730.3	634.6	527.6
60°	318.1	324.8	442.4	583.4	737.9	755.2	674.6	542.7	486.9	462.0	424.3
62.5°	236.7	241.9	318.8	405.5	467.3	492.2	453.0	443.9	444.7	433.4	408.5
65°	213.3	216.3	279.6	323.3	359.5	364.8	379.1	410.8	428.1	425.8	415.3
67.5°	193.7	197.5	254.7	286.4	308.3	333.9	345.9	394.9	441.7	449.2	439.4
70°	172.6	178.6	229.9	263.0	287.9	312.8	336.9	398.0	435.6	446.2	441.7
72.5°	149.2	156.8	199.7	234.4	262.3	289.4	330.9	382.9	434.1	453.0	456.0
75°	131.1	140.9	176.4	207.3	236.7	269.1	312.8	377.6	425.8	437.9	443.9
77.5°	118.3	128.9	156.0	184.7	212.5	248.0	298.5	376.1	417.5	431.1	441.7
80°	108.5	119.1	141.7	164.3	187.7	227.6	283.4	373.8	425.8	440.2	446.2
82.5°	101.0	110.8	130.4	150.7	169.6	205.8	272.8	370.1	423.6	435.6	438.6
85°	101.7	109.3	127.4	146.2	163.6	194.5	267.6	371.6	451.5	470.3	473.3
87.5°	107.0	112.3	131.1	153.0	172.6	204.3	277.4	368.6	448.4	465.8	473.3
90°	116.1	120.6	143.2	168.8	192.2	221.6	275.1	360.3	435.6	451.5	456.0
92.5°	144.0	147.7	172.6	200.5	220.8	230.6	266.1	373.1	437.9	446.9	446.9
95°	186.2	190.7	214.8	235.9	239.7	234.4	261.5	331.6	399.5	419.1	430.4
97.5°	232.9	234.4	248.0	251.7	240.4	228.4	255.5	309.8	362.5	376.1	379.1
100°	248.0	248.0	257.0	254.0	232.1	215.6	231.4	281.9	333.1	348.2	352.7
102.5°	251.0	252.5	261.5	251.7	222.3	195.2	205.8	254.0	301.5	318.1	327.1
105°	266.1	266.8	261.5	237.4	201.2	177.1	186.2	234.4	284.9	300.7	310.5
107.5°	248.7	246.5	232.1	209.5	185.4	168.1	178.6	214.0	252.5	265.3	272.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	205.8	204.3	199.0	190.7	175.6	162.8	169.6	202.0	238.9	248.7	254.7
112.5°	198.2	196.7	191.4	181.6	164.3	154.5	165.8	193.7	216.3	220.8	221.6
115°	190.7	189.2	177.1	165.8	152.2	147.7	155.3	180.9	202.0	207.3	211.8
117.5°	164.3	162.8	153.8	147.0	141.7	144.0	156.8	171.1	186.2	190.7	193.7
120°	146.2	145.5	140.9	136.4	133.4	134.9	148.5	164.3	179.4	183.9	186.2
122.5°	137.9	137.2	131.9	125.1	125.1	125.1	135.7	147.7	164.3	168.1	173.3
125°	121.3	121.3	116.1	110.8	118.3	121.3	123.6	124.4	137.2	143.2	145.5
127.5°	107.8	108.5	104.0	100.2	113.8	120.6	119.1	109.3	116.8	121.3	124.4
130°	106.3	106.3	101.0	96.5	103.3	116.8	112.3	102.5	111.5	114.6	116.1
132.5°	103.3	103.3	98.0	91.2	92.7	107.8	98.0	95.7	104.0	107.0	107.8
135°	95.0	95.0	91.2	82.2	76.1	91.2	79.1	83.7	92.0	94.2	95.0
137.5°	84.4	84.4	80.6	73.1	60.3	68.6	61.0	70.8	79.1	81.4	82.2
140°	69.3	68.6	66.3	57.3	43.7	38.4	41.5	56.5	64.8	66.3	68.6
142.5°	51.3	52.0	48.2	40.7	26.4	14.3	24.1	36.2	45.2	47.5	49.0
145°	37.7	36.9	33.2	26.4	14.3	2.3	11.3	22.6	28.6	30.9	32.4
147.5°	24.9	24.9	21.9	15.8	4.5	0.8	3.0	11.3	18.1	19.6	20.3
150°	16.6	16.6	12.1	4.5	0.8	0.8	0.8	2.3	7.5	9.0	10.6
152.5°	5.3	5.3	2.3	1.5	0.8	0.0	0.0	0.8	1.5	1.5	2.3
155°	1.5	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	705.5	704.7	702.4	700.2	694.2	686.6	679.1	673.8	670.8	668.5	667.8
5°	759.0	760.5	749.9	732.6	716.0	700.9	686.6	673.0	665.5	659.5	657.2
7.5°	872.8	875.0	853.9	826.8	784.6	733.3	689.6	660.2	639.1	626.3	624.1
10°	1013.7	1007.7	982.8	924.8	847.9	768.8	686.6	623.3	589.4	573.6	572.8
12.5°	1071.0	1062.7	1034.8	986.6	905.9	802.7	700.9	617.3	566.8	546.4	545.7
15°	1044.6	1030.3	979.0	934.6	902.9	845.6	754.4	658.7	589.4	563.8	557.0
17.5°	1022.0	1007.7	964.7	900.7	841.1	816.2	771.8	692.6	620.3	584.1	576.6
20°	1088.3	1079.3	1025.8	940.6	875.0	775.6	739.4	685.1	630.8	608.2	602.2
22.5°	1149.4	1144.9	1077.8	988.8	900.7	831.3	759.0	719.0	666.3	650.4	643.7
25°	1263.2	1242.1	1132.0	1012.2	936.1	868.3	775.6	713.0	648.9	628.6	624.8
27.5°	1530.8	1481.8	1321.2	1141.1	988.1	880.3	774.0	682.1	612.0	586.4	584.9
30°	1701.1	1656.6	1475.7	1277.5	1069.5	909.0	764.2	653.5	600.7	575.8	576.6
32.5°	1804.3	1744.8	1541.3	1290.3	1088.3	923.3	770.3	643.7	572.8	541.2	540.4
35°	2028.2	1945.3	1649.8	1393.6	1125.3	902.2	744.6	623.3	557.7	534.4	531.4
37.5°	2347.0	2253.5	1853.3	1477.2	1140.3	874.3	711.5	599.9	521.6	489.1	486.9
40°	2807.5	2670.3	2135.2	1578.2	1128.3	853.2	675.3	564.5	499.7	478.6	471.8
42.5°	2579.1	2423.9	1967.1	1558.6	1098.1	795.1	640.6	547.2	486.9	470.3	461.3
45°	2721.6	2540.7	1987.5	1449.4	982.8	709.2	581.9	512.5	452.2	428.9	426.6
46°	2800.7	2611.5	2075.7	1416.2	930.1	682.1	555.5	496.7	444.7	414.5	407.7
47.5°	2628.9	2418.6	1908.4	1351.4	887.9	621.0	520.8	471.8	436.4	408.5	404.0
50°	2305.5	2099.8	1650.6	1152.4	764.2	547.9	464.3	434.9	399.5	369.3	364.0
52.5°	2104.3	1931.7	1511.2	1045.4	648.9	462.0	414.5	388.9	352.7	317.3	312.8
55°	1156.9	1037.8	933.8	785.3	538.1	390.4	361.0	345.9	309.0	274.3	272.1
57.5°	476.3	428.1	424.3	400.2	370.1	328.6	312.0	303.0	266.1	223.8	222.3
60°	401.0	357.3	315.0	277.4	275.1	274.3	269.1	253.2	212.5	168.8	167.3
62.5°	390.4	347.5	306.0	260.0	240.4	246.5	236.7	217.1	186.2	144.0	142.4
65°	398.0	353.5	304.5	252.5	231.4	233.6	223.1	208.0	186.9	156.8	155.3
67.5°	423.6	377.6	322.6	249.5	223.8	228.4	220.8	209.5	197.5	178.6	174.9
70°	427.3	386.6	323.3	251.0	215.6	220.8	218.6	208.8	200.5	183.9	181.6
72.5°	438.6	401.7	330.1	245.7	206.5	208.8	211.8	208.8	203.5	193.7	189.9
75°	428.1	395.7	327.1	241.2	197.5	196.0	203.5	207.3	208.8	205.0	200.5
77.5°	425.8	398.7	327.9	238.2	189.2	183.1	189.2	195.2	198.2	194.5	190.7
80°	428.9	405.5	337.7	238.9	180.1	165.1	168.1	174.9	175.6	168.8	163.6
82.5°	422.1	399.5	327.1	230.6	165.8	147.0	147.7	154.5	155.3	147.0	140.9
85°	452.2	425.1	334.6	220.1	150.7	134.2	134.9	137.9	133.4	124.4	118.3
87.5°	451.5	419.1	319.6	203.5	140.9	126.6	125.9	125.1	117.6	107.0	101.7
90°	435.6	401.7	299.2	179.4	124.4	116.1	113.8	109.3	98.7	86.7	82.9
92.5°	425.1	388.9	285.6	169.6	109.3	101.7	100.2	95.7	85.2	72.4	70.1
95°	413.8	378.4	263.0	148.5	96.5	88.9	86.7	82.2	73.9	63.3	61.8
97.5°	364.8	330.1	232.1	134.9	85.9	77.6	76.1	72.4	65.6	58.0	57.3
100°	336.9	306.0	215.6	123.6	76.9	67.8	67.1	64.8	60.3	55.0	54.3
102.5°	315.0	284.9	199.7	114.6	68.6	60.3	59.5	58.8	56.5	52.8	52.8
105°	298.5	269.8	191.4	107.0	61.8	55.0	54.3	54.3	52.0	49.7	49.7
107.5°	260.0	235.9	166.6	95.0	56.5	50.5	50.5	50.5	49.0	47.5	48.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	245.0	222.3	158.3	88.9	54.3	46.7	46.0	46.0	45.2	46.0	46.0
112.5°	211.0	191.4	139.4	85.2	52.8	44.5	42.2	40.7	39.2	40.7	41.5
115°	202.7	184.7	134.9	82.2	51.3	43.0	39.9	37.7	34.7	36.9	36.9
117.5°	186.2	169.6	125.1	79.9	51.3	40.7	37.7	35.4	32.4	33.9	33.9
120°	178.6	164.3	125.9	82.2	52.0	38.4	35.4	31.7	29.4	31.7	31.7
122.5°	168.1	155.3	118.3	77.6	49.7	37.7	34.7	27.1	25.6	27.9	27.9
125°	140.9	130.4	101.7	68.6	47.5	37.7	33.9	24.1	24.1	25.6	26.4
127.5°	119.8	111.5	88.2	64.1	48.2	39.9	32.4	21.1	22.6	24.9	24.9
130°	113.1	106.3	87.4	65.6	50.5	42.2	26.4	19.6	21.1	23.4	23.4
132.5°	105.5	99.5	84.4	67.1	51.3	39.9	21.9	18.1	19.6	21.1	21.1
135°	92.7	88.2	76.1	61.0	46.0	31.7	17.3	15.8	18.1	19.6	20.3
137.5°	81.4	77.6	67.1	55.0	41.5	27.1	12.1	14.3	15.8	16.6	17.3
140°	67.1	64.8	56.5	45.2	30.9	15.1	9.0	11.3	12.8	14.3	14.3
142.5°	49.0	47.5	39.9	29.4	18.8	6.0	6.0	8.3	9.8	11.3	11.3
145°	32.4	30.9	25.6	18.8	8.3	1.5	3.8	6.0	8.3	9.0	9.0
147.5°	20.3	19.6	15.8	9.8	3.0	1.5	1.5	4.5	6.0	6.8	6.8
150°	10.6	9.8	6.8	3.0	1.5	0.8	0.8	1.5	3.8	4.5	4.5
152.5°	2.3	2.3	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
155°	0.8	0.8	0.8	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	0.8	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

(END OF REPORT)