

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: P266406

Luminaire Tested: **UTLD-AF24-60-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4878 lumens
Efficiency: N/A
Efficacy: 76.2 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 - G2

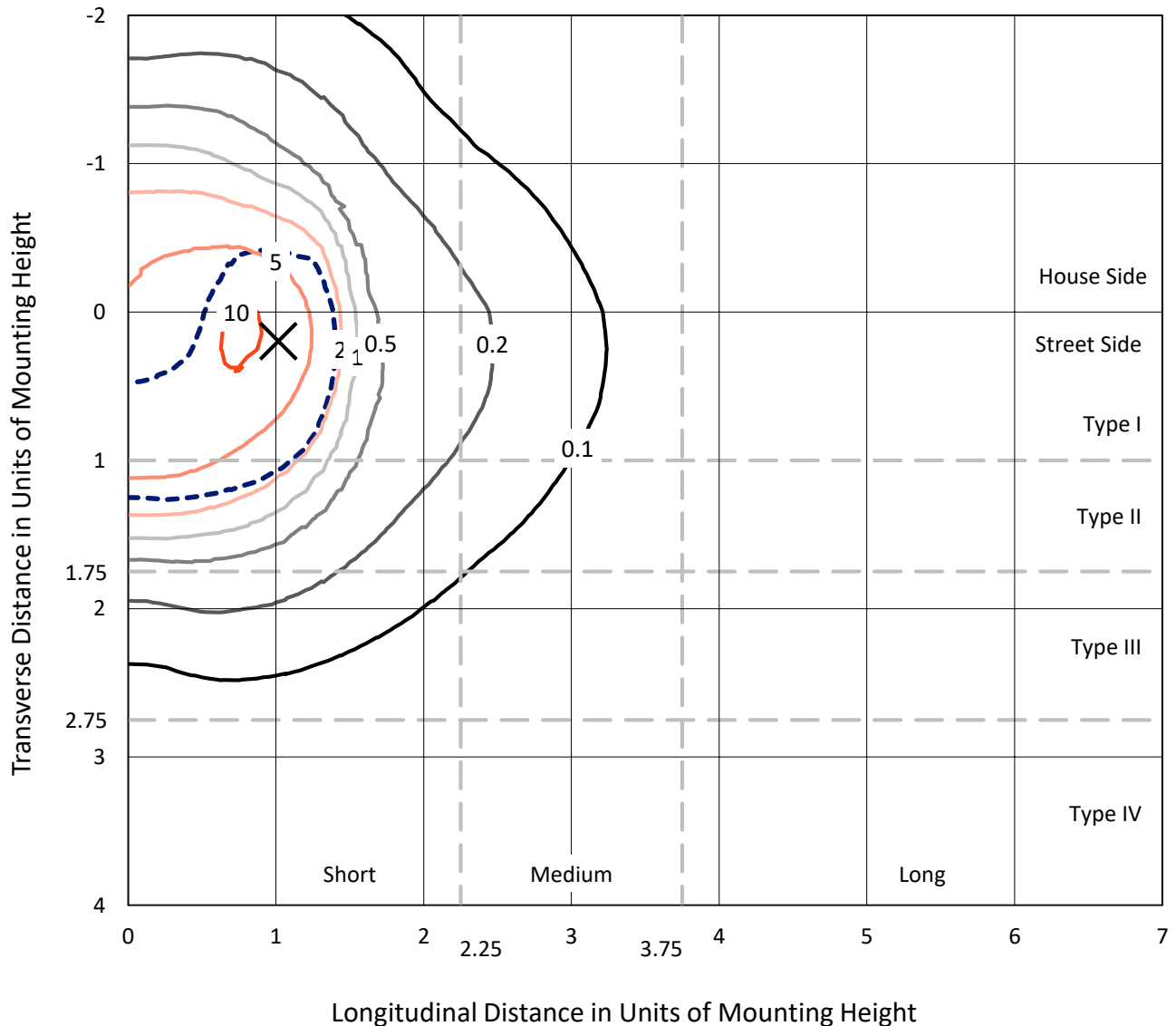
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

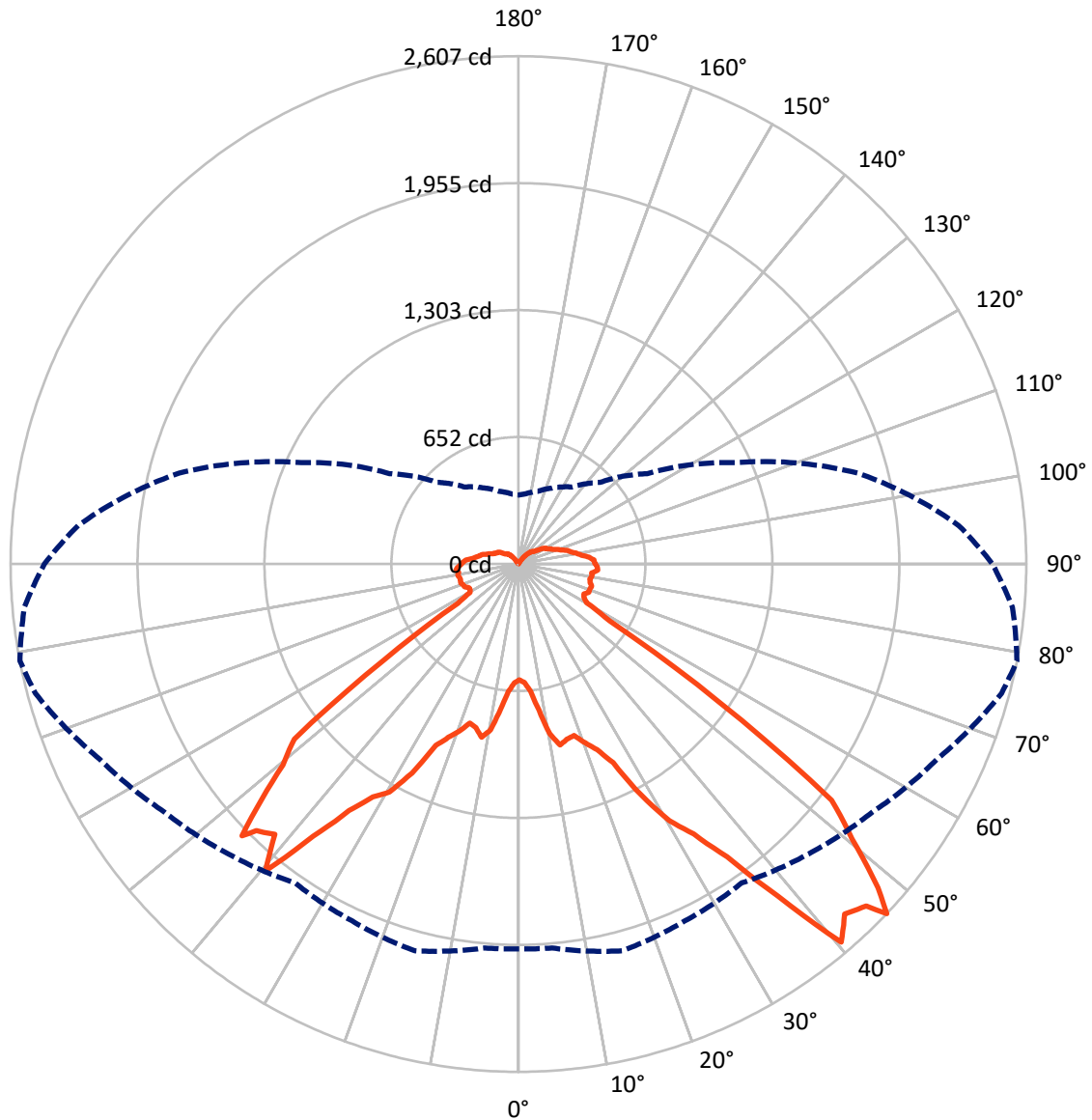
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical



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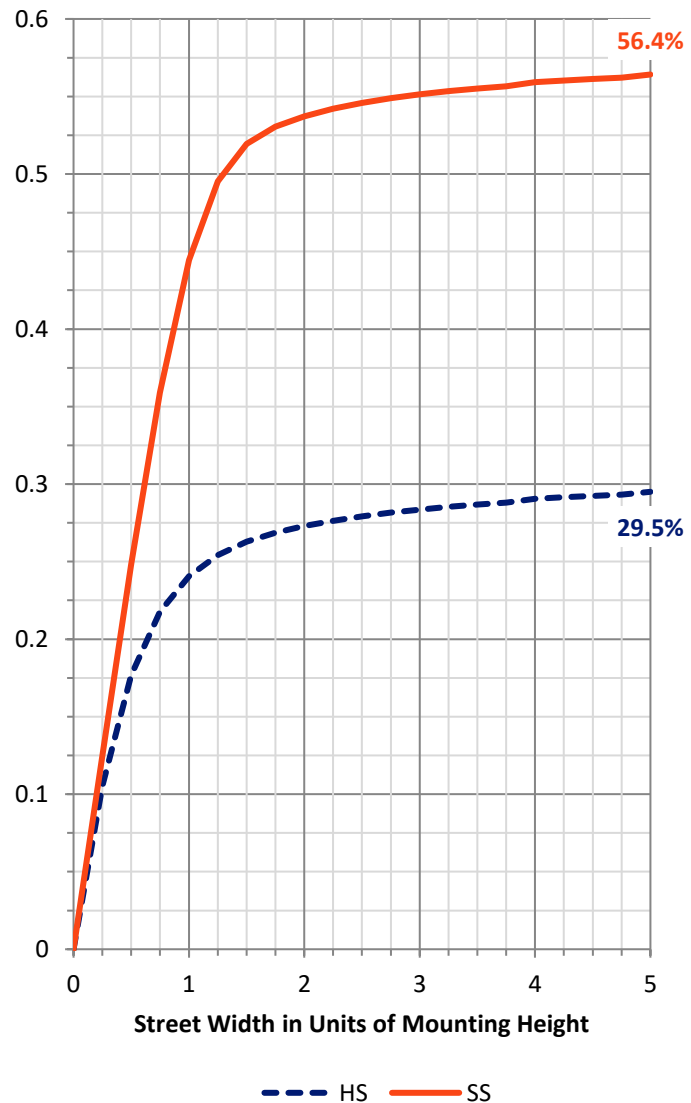
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.9	184.9	1671.8
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	2804.9	401.2	3206.1
	% Fixture	57.5	8.2	65.7
Total	Lumens	4291.8	586.1	4878.0
	% Fixture	88.0	12.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.3
10°-20°	231.7	4.8
20°-30°	468.2	9.6
30°-40°	857.1	17.6
40°-50°	1184.4	24.3
50°-60°	756.0	15.5
60°-70°	270.8	5.6
70°-80°	243.2	5.0
80°-90°	216.2	4.4
90°-100°	198.4	4.1
100°-110°	154.2	3.2
110°-120°	107.0	2.2
120°-130°	71.6	1.5
130°-140°	42.9	0.9
140°-150°	11.4	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4291.8	88.0
0°-180°	4878.0	100.0



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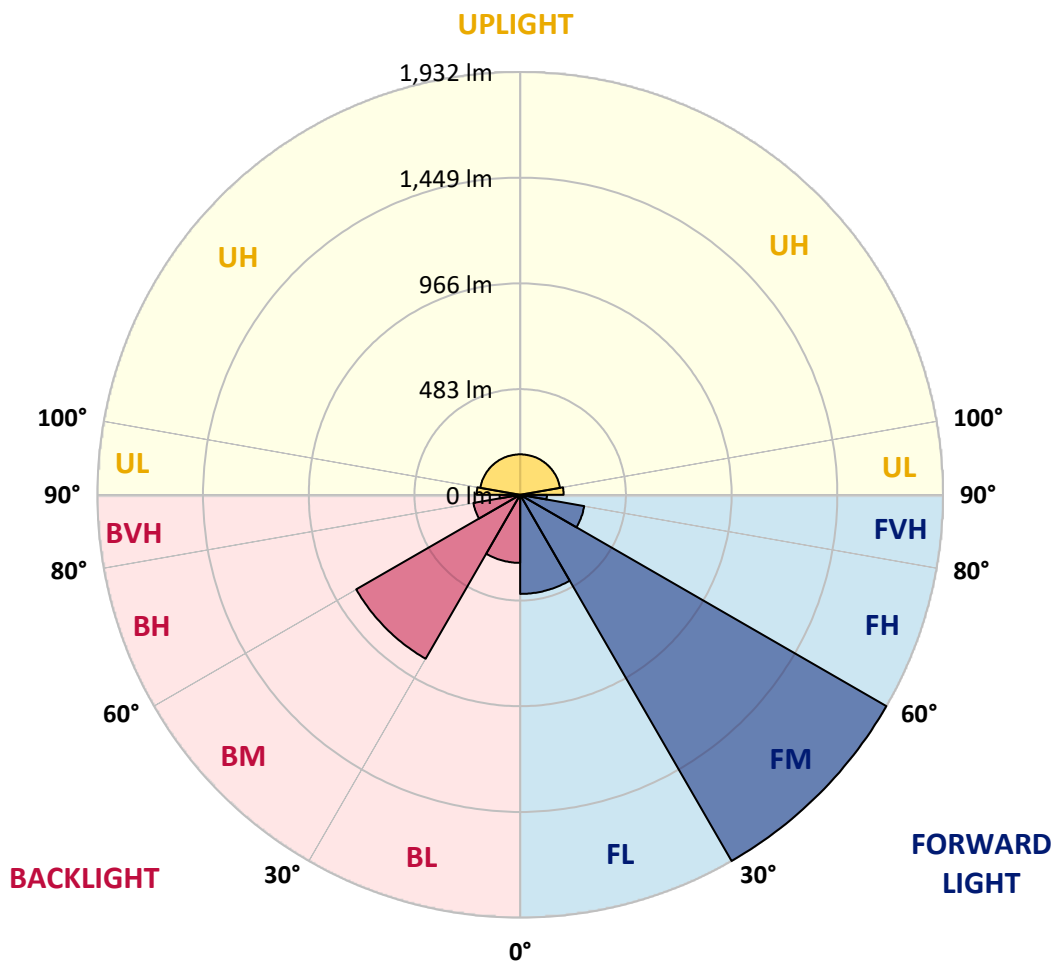
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.1	9.3			
FM (30°-60°)	1932.5	39.6			
FH (60°-80°)	297.2	6.1			G0/660
FVH (80°-90°)	122.1	2.5			G2/225
BL (0°-30°)	311.0	6.4	B1/500		
BM (30°-60°)	865.1	17.7	B1/1000		
BH (60°-80°)	216.8	4.4	B1/500		G1/500
BVH (80°-90°)	94.1	1.9			G1/100
UL (90°-100°)	198.4	4.1		U3/500	
UH (100°-180°)	184.9	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°	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5
2.5°	604.3	606.3	605.6	604.3	607.0	608.3	608.3	607.7	608.3	609.6	612.3
5°	633.1	632.4	634.5	639.8	646.9	648.8	654.8	653.4	656.8	656.8	660.7
7.5°	683.6	684.1	690.7	695.9	703.8	720.9	737.2	758.9	758.2	756.9	762.1
10°	735.9	735.9	749.0	768.1	800.1	836.1	851.9	870.8	890.5	887.2	882.0
12.5°	752.3	754.9	777.8	825.1	894.4	955.9	987.3	983.5	963.8	952.7	935.0
15°	782.5	785.7	810.6	882.7	965.0	1020.1	1032.0	983.5	940.9	933.0	918.0
17.5°	895.7	895.7	921.2	987.3	1049.6	1037.2	990.7	967.7	940.3	925.2	903.5
20°	974.3	978.9	1019.4	1066.0	1100.1	1059.5	1060.1	1017.5	989.4	980.2	959.8
22.5°	1050.3	1056.8	1068.5	1141.2	1151.1	1159.0	1135.4	1096.7	1049.6	1034.5	1013.6
25°	1211.4	1213.3	1225.6	1260.4	1234.2	1221.2	1187.1	1155.7	1137.3	1129.4	1107.3
27.5°	1402.6	1396.7	1401.8	1404.5	1364.5	1328.6	1278.7	1312.2	1338.4	1345.5	1325.9
30°	1441.8	1432.0	1472.0	1514.5	1494.8	1451.7	1448.3	1488.3	1537.4	1528.1	1500.7
32.5°	1600.2	1585.1	1603.6	1608.1	1604.8	1592.3	1587.1	1637.6	1673.0	1652.6	1612.6
35°	1727.9	1727.4	1662.5	1677.6	1686.7	1715.5	1744.2	1813.0	1844.5	1845.7	1812.4
37.5°	2001.0	1981.3	1957.0	1861.5	1811.1	1824.2	1923.7	2045.5	2116.1	2162.7	2109.6
40°	2094.6	2103.1	2082.8	2072.3	1999.0	1968.2	2082.8	2292.4	2484.2	2552.3	2545.6
42.5°	1940.7	1960.3	1948.6	2021.2	2079.5	2118.8	2256.9	2436.4	2473.0	2455.3	2361.7
45°	2069.1	2069.1	2037.6	1992.4	2012.7	2140.4	2249.7	2370.8	2485.5	2503.8	2452.1
46°	1976.1	1978.1	2055.3	2021.2	1998.3	2104.4	2218.4	2370.8	2566.6	2606.6	2545.6
47.5°	1804.5	1801.2	1943.4	1954.4	1970.3	2057.3	2182.3	2370.3	2480.8	2483.5	2407.5
50°	1430.0	1435.9	1631.1	1734.4	1837.9	1923.7	2092.6	2198.7	2223.6	2219.1	2136.4
52.5°	1160.9	1176.6	1280.1	1410.3	1535.5	1700.4	1896.9	1995.8	2050.0	2014.0	1938.2
55°	804.7	838.7	969.0	1086.2	1269.6	1428.0	1597.6	1606.8	1358.6	1245.4	1104.6
57.5°	497.7	504.2	619.4	785.1	922.6	1047.0	1049.0	815.2	634.5	551.3	458.3
60°	276.3	282.2	384.4	506.7	641.0	656.1	586.1	471.4	423.0	401.4	368.7
62.5°	205.6	210.2	276.9	352.2	405.9	427.6	393.5	385.6	386.4	376.5	354.9
65°	185.3	187.9	242.9	280.9	312.3	316.9	329.4	356.8	371.9	369.9	360.8
67.5°	168.3	171.5	221.3	248.8	267.9	290.1	300.6	343.2	383.7	390.3	381.7
70°	149.9	155.1	199.8	228.4	250.1	271.7	292.7	345.7	378.5	387.6	383.7
72.5°	129.6	136.3	173.6	203.6	227.9	251.4	287.5	332.6	377.2	393.5	396.2
75°	113.9	122.4	153.3	180.1	205.6	233.7	271.7	328.1	369.9	380.4	385.6
77.5°	102.8	112.0	135.6	160.3	184.6	215.5	259.3	326.8	362.7	374.6	383.7
80°	94.3	103.5	123.1	142.7	163.0	197.7	246.1	324.7	369.9	382.4	387.6
82.5°	87.8	96.3	113.2	131.0	147.3	178.8	237.1	321.6	367.9	378.5	381.2
85°	88.5	95.0	110.6	127.0	142.1	168.9	232.4	322.9	392.2	408.5	411.2
87.5°	93.0	97.6	113.9	132.9	149.9	177.4	240.9	320.2	389.5	404.6	411.2
90°	100.8	104.7	124.4	146.7	166.9	192.4	238.9	313.0	378.5	392.2	396.2
92.5°	125.0	128.4	149.9	174.2	191.9	200.3	231.1	324.1	380.4	388.2	388.2
95°	161.8	165.6	186.6	205.0	208.1	203.6	227.2	288.0	347.0	364.1	373.9
97.5°	202.3	203.6	215.5	218.6	208.9	198.3	222.1	269.1	314.9	326.8	329.4
100°	215.5	215.5	223.3	220.7	201.7	187.2	201.0	244.9	289.4	302.5	306.4
102.5°	218.0	219.4	227.2	218.6	193.1	169.6	178.8	220.7	261.9	276.3	284.1
105°	231.1	231.9	227.2	206.3	174.8	153.9	161.8	203.6	247.6	261.2	269.9
107.5°	216.0	214.1	201.7	182.0	161.1	146.1	155.1	185.9	219.4	230.4	236.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	178.8	177.4	172.8	165.6	152.5	141.5	147.3	175.4	207.6	216.0	221.3
112.5°	172.2	170.9	166.2	157.8	142.7	134.2	144.1	168.3	187.9	191.9	192.4
115°	165.6	164.3	153.9	144.1	132.3	128.4	134.8	157.2	175.4	180.1	184.1
117.5°	142.7	141.5	133.6	127.6	123.1	125.0	136.3	148.6	161.8	165.6	168.3
120°	127.0	126.4	122.4	118.4	115.9	117.1	128.9	142.7	155.9	159.8	161.8
122.5°	119.8	119.1	114.5	108.7	108.7	108.7	117.9	128.4	142.7	146.1	150.6
125°	105.5	105.5	100.8	96.3	102.8	105.5	107.3	108.1	119.1	124.4	126.4
127.5°	93.7	94.3	90.4	87.0	98.9	104.7	103.5	95.0	101.5	105.5	108.1
130°	92.3	92.3	87.8	83.8	89.7	101.5	97.6	89.0	96.8	99.5	100.8
132.5°	89.7	89.7	85.1	79.2	80.6	93.7	85.1	83.2	90.4	93.0	93.7
135°	82.6	82.6	79.2	71.3	66.1	79.2	68.7	72.7	79.9	81.8	82.6
137.5°	73.3	73.3	70.1	63.5	52.5	59.6	53.0	61.5	68.7	70.6	71.3
140°	60.2	59.6	57.6	49.8	38.0	33.3	36.0	49.0	56.4	57.6	59.6
142.5°	44.6	45.2	42.0	35.4	22.8	12.4	20.9	31.4	39.3	41.2	42.6
145°	32.8	32.1	28.8	22.8	12.4	1.9	9.8	19.7	25.0	26.9	28.1
147.5°	21.6	21.6	19.0	13.7	4.0	0.7	2.6	9.8	15.7	17.0	17.6
150°	14.5	14.5	10.5	4.0	0.7	0.7	0.7	1.9	6.6	7.8	9.2
152.5°	4.6	4.6	1.9	1.3	0.7	0.0	0.0	0.7	1.3	1.3	1.9
155°	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.7	0.7	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°	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5	594.5
2.5°	612.9	612.3	610.3	608.3	603.0	596.5	589.9	585.3	582.7	580.8	580.1
5°	659.4	660.7	651.5	636.4	622.0	609.0	596.5	584.6	578.1	572.8	571.0
7.5°	758.2	760.1	741.8	718.3	681.6	637.1	599.1	573.6	555.2	544.2	542.1
10°	880.7	875.4	853.7	803.4	736.6	667.9	596.5	541.5	512.0	498.3	497.7
12.5°	930.5	923.2	899.1	857.2	787.0	697.4	609.0	536.3	492.5	474.8	474.0
15°	907.5	895.0	850.5	811.9	784.4	734.6	655.5	572.3	512.0	489.8	483.8
17.5°	887.9	875.4	838.1	782.5	730.7	709.1	670.5	601.8	538.9	507.5	500.9
20°	945.5	937.7	891.1	817.2	760.1	673.8	642.3	595.1	548.1	528.5	523.2
22.5°	998.6	994.6	936.4	859.0	782.5	722.1	659.4	624.6	578.8	565.0	559.1
25°	1097.4	1079.0	983.5	879.4	813.2	754.2	673.8	619.4	563.7	546.1	542.8
27.5°	1329.9	1287.2	1147.9	991.3	858.4	764.7	672.4	592.5	531.6	509.3	508.1
30°	1477.8	1439.2	1282.1	1109.9	929.0	789.6	663.9	567.6	521.8	500.3	500.9
32.5°	1567.5	1515.8	1339.1	1120.9	945.5	802.0	669.1	559.1	497.7	470.2	469.5
35°	1761.9	1689.9	1433.2	1210.6	977.5	783.7	646.9	541.5	484.5	464.2	461.5
37.5°	2039.0	1957.8	1610.0	1283.3	990.7	759.5	618.2	521.1	453.0	425.0	423.0
40°	2439.0	2319.9	1854.9	1371.1	980.2	741.2	586.7	490.5	434.2	415.7	409.8
42.5°	2240.6	2105.6	1708.9	1354.0	954.0	690.7	556.5	475.4	423.0	408.5	400.7
45°	2364.3	2207.1	1726.6	1259.2	853.7	616.1	505.4	445.2	392.9	372.5	370.6
46°	2433.1	2268.8	1803.2	1230.3	807.9	592.5	482.6	431.5	386.4	360.1	354.2
47.5°	2283.9	2101.1	1657.8	1173.9	771.4	539.5	452.4	409.8	379.2	354.9	351.0
50°	2003.0	1824.2	1434.0	1001.2	663.9	476.0	403.2	377.7	347.0	320.9	316.3
52.5°	1828.1	1678.2	1312.9	908.1	563.7	401.4	360.1	337.9	306.4	275.7	271.7
55°	1005.1	901.5	811.3	682.3	467.5	339.2	313.6	300.6	268.5	238.3	236.3
57.5°	413.8	371.9	368.7	347.6	321.6	285.5	271.1	263.3	231.1	194.5	193.1
60°	348.4	310.4	273.8	240.9	238.9	238.3	233.7	220.1	184.6	146.7	145.3
62.5°	339.2	301.8	265.8	226.0	208.9	214.1	205.6	188.6	161.8	125.0	123.7
65°	345.7	307.1	264.6	219.4	201.0	202.9	193.9	180.6	162.4	136.3	134.8
67.5°	367.9	328.1	280.2	216.8	194.5	198.3	191.9	182.0	171.5	155.1	152.0
70°	371.3	335.8	280.9	218.0	187.2	191.9	189.9	181.4	174.2	159.8	157.8
72.5°	381.2	349.0	286.7	213.4	179.4	181.4	184.1	181.4	176.7	168.3	165.0
75°	371.9	343.7	284.1	209.6	171.5	170.3	176.7	180.1	181.4	178.1	174.2
77.5°	369.9	346.3	284.9	206.9	164.3	159.1	164.3	169.6	172.2	168.9	165.6
80°	372.5	352.2	293.3	207.6	156.5	143.4	146.1	152.0	152.5	146.7	142.1
82.5°	366.7	347.0	284.1	200.3	144.1	127.6	128.4	134.2	134.8	127.6	122.4
85°	392.9	369.4	290.7	191.2	131.0	116.5	117.1	119.8	115.9	108.1	102.8
87.5°	392.2	364.1	277.7	176.7	122.4	110.0	109.4	108.7	102.1	93.0	88.5
90°	378.5	349.0	259.9	155.9	108.1	100.8	98.9	95.0	85.8	75.3	72.0
92.5°	369.4	337.9	248.1	147.3	95.0	88.5	87.0	83.2	74.0	62.8	60.8
95°	359.4	328.7	228.4	128.9	83.8	77.3	75.3	71.3	64.1	54.9	53.7
97.5°	316.9	286.7	201.7	117.1	74.6	67.5	66.1	62.8	57.0	50.5	49.8
100°	292.7	265.8	187.2	107.3	66.7	58.8	58.3	56.4	52.5	47.8	47.2
102.5°	273.8	247.6	173.6	99.5	59.6	52.5	51.7	51.1	49.0	45.9	45.9
105°	259.3	234.4	166.2	93.0	53.7	47.8	47.2	47.2	45.2	43.2	43.2
107.5°	226.0	205.0	144.6	82.6	49.0	43.8	43.8	43.8	42.6	41.2	42.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	212.8	193.1	137.5	77.3	47.2	40.7	40.0	40.0	39.3	40.0	40.0
112.5°	183.3	166.2	121.1	74.0	45.9	38.6	36.7	35.4	34.0	35.4	36.0
115°	176.2	160.3	117.1	71.3	44.6	37.3	34.8	32.8	30.2	32.1	32.1
117.5°	161.8	147.3	108.7	69.3	44.6	35.4	32.8	30.8	28.1	29.5	29.5
120°	155.1	142.7	109.4	71.3	45.2	33.3	30.8	27.5	25.5	27.5	27.5
122.5°	146.1	134.8	102.8	67.5	43.2	32.8	30.2	23.5	22.3	24.3	24.3
125°	122.4	113.2	88.5	59.6	41.2	32.8	29.5	20.9	20.9	22.3	22.8
127.5°	104.2	96.8	76.6	55.7	42.0	34.8	28.1	18.3	19.7	21.6	21.6
130°	98.3	92.3	75.9	57.0	43.8	36.7	22.8	17.0	18.3	20.3	20.3
132.5°	91.6	86.4	73.3	58.3	44.6	34.8	19.0	15.7	17.0	18.3	18.3
135°	80.6	76.6	66.1	53.0	40.0	27.5	15.0	13.7	15.7	17.0	17.6
137.5°	70.6	67.5	58.3	47.8	36.0	23.5	10.5	12.4	13.7	14.5	15.0
140°	58.3	56.4	49.0	39.3	26.9	13.0	7.8	9.8	11.0	12.4	12.4
142.5°	42.6	41.2	34.8	25.5	16.3	5.2	5.2	7.1	8.5	9.8	9.8
145°	28.1	26.9	22.3	16.3	7.1	1.3	3.2	5.2	7.1	7.8	7.8
147.5°	17.6	17.0	13.7	8.5	2.6	1.3	1.3	4.0	5.2	5.8	5.8
150°	9.2	8.5	5.8	2.6	1.3	0.7	0.7	1.3	3.2	4.0	4.0
152.5°	1.9	1.9	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	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)