

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: P266420

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-16)
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-T4W-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4735.6 lumens
Efficiency: N/A
Efficacy: 74.0 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 - 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

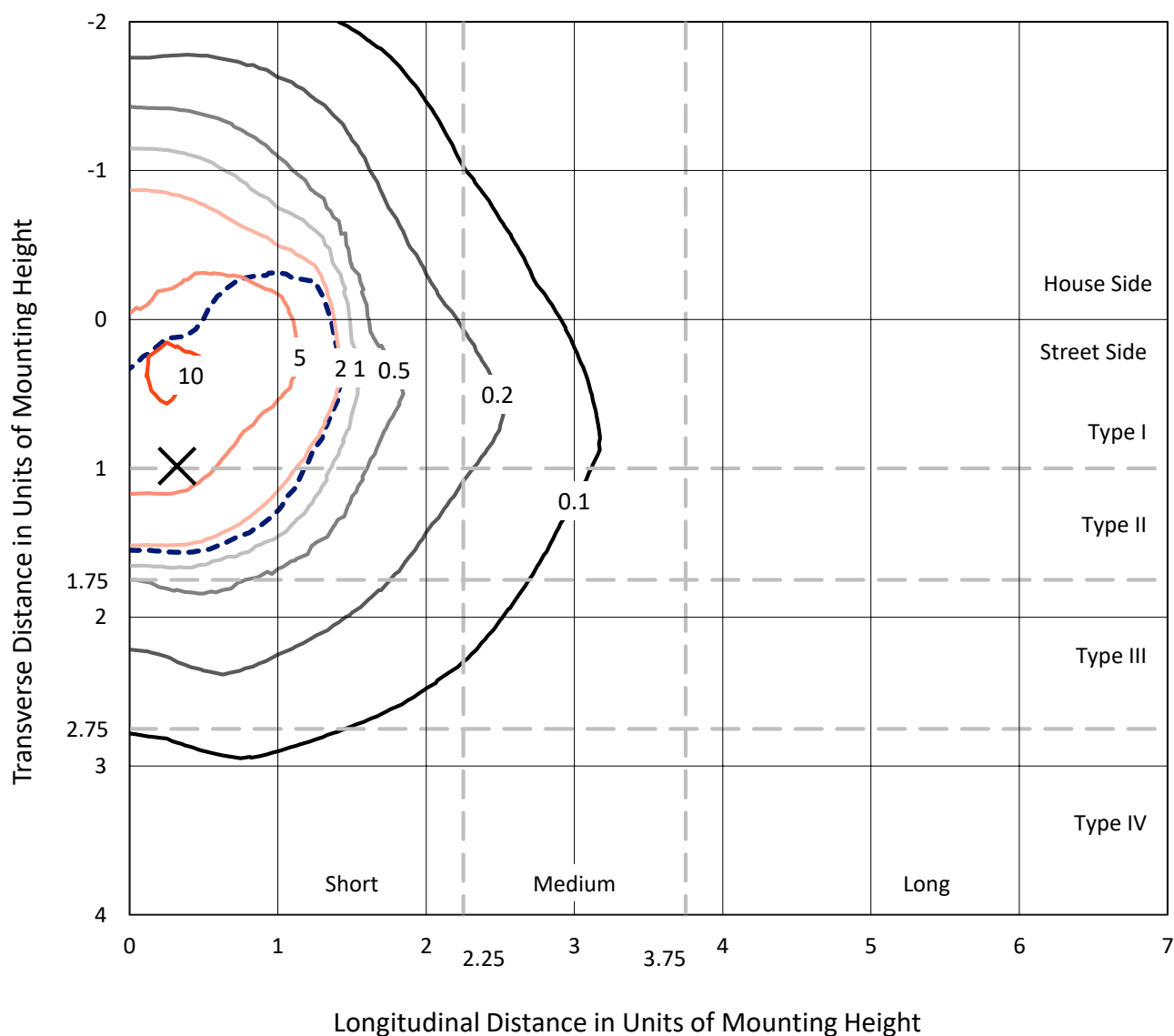


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

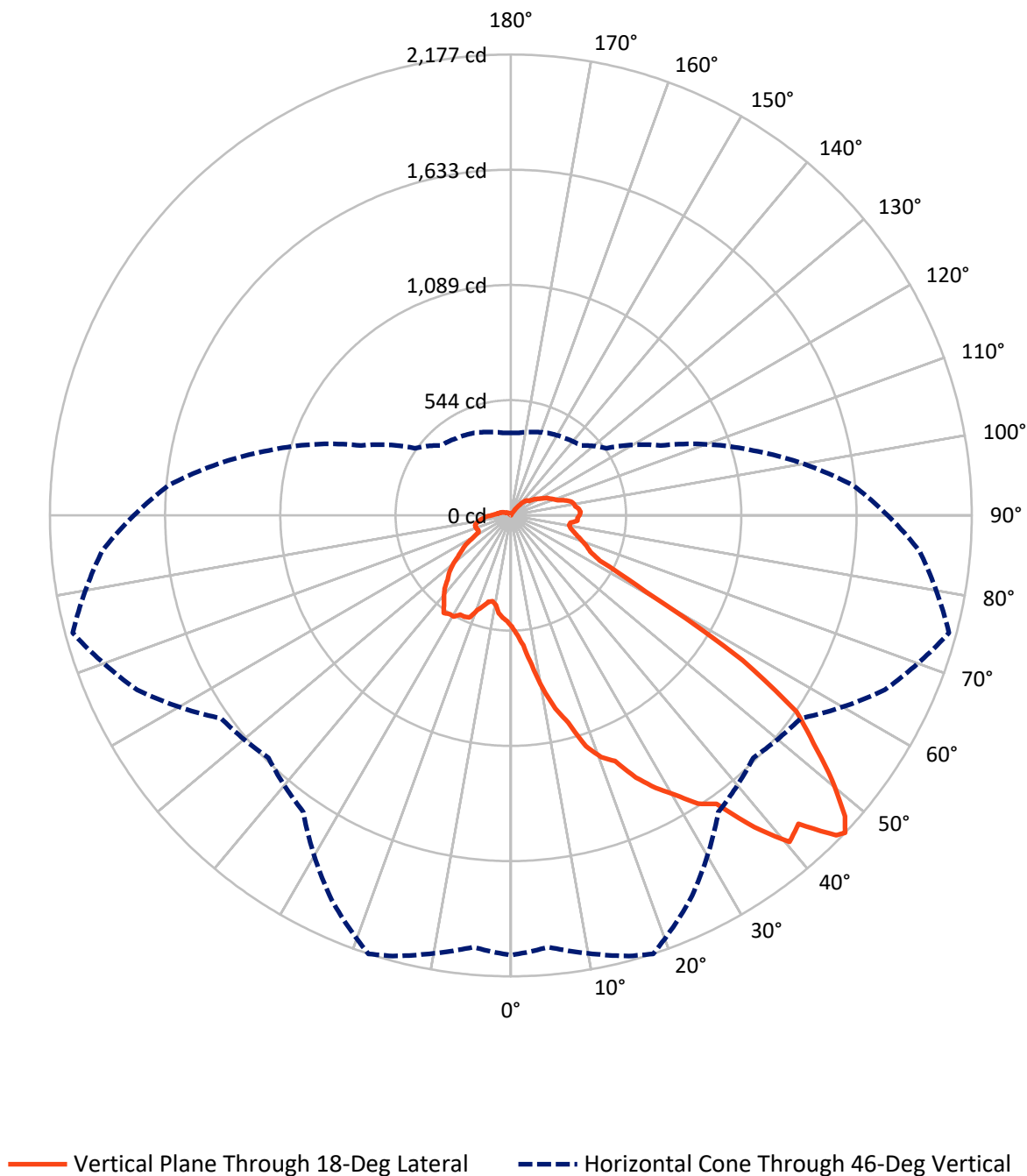


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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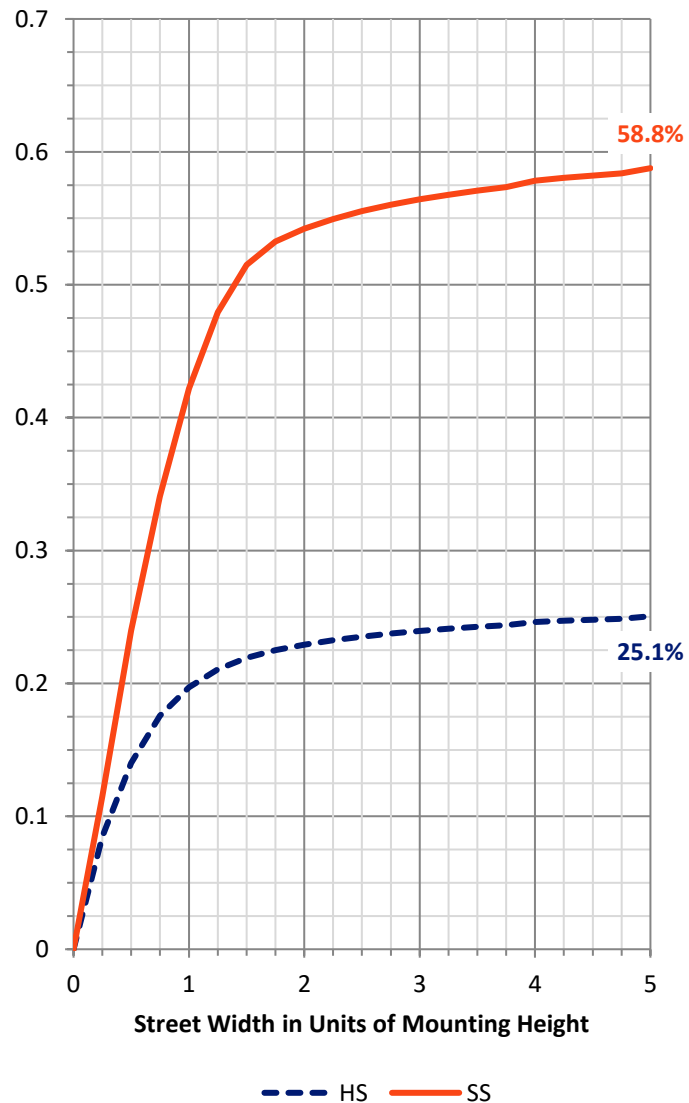
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1231.9	153.4	1385.2
	% Fixture	26.0	3.2	29.3
Street Side	Lumens	2890.7	459.7	3350.4
	% Fixture	61.0	9.7	70.7
Total	Lumens	4122.6	613.1	4735.6
	% Fixture	87.1	12.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.2
10°-20°	229.2	4.8
20°-30°	466.3	9.8
30°-40°	763.3	16.1
40°-50°	993.5	21.0
50°-60°	743.4	15.7
60°-70°	309.7	6.5
70°-80°	281.7	5.9
80°-90°	279.3	5.9
90°-100°	224.6	4.7
100°-110°	159.6	3.4
110°-120°	107.9	2.3
120°-130°	69.4	1.5
130°-140°	41.1	0.9
140°-150°	10.0	0.2
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4122.6	87.1
0°-180°	4735.6	100.0

Coefficient of Utilization



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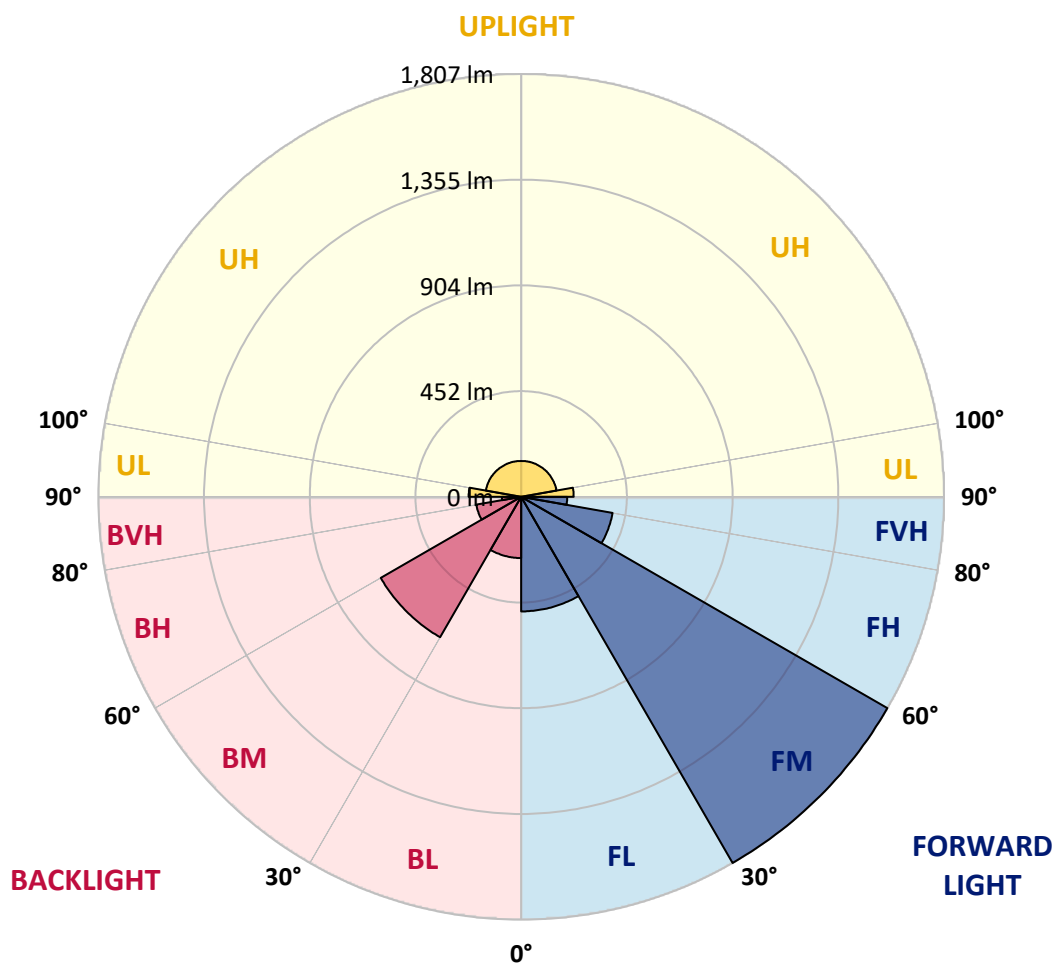
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	489.8	10.3			
FM	(30°-60°)	1807.3	38.2			
FH	(60°-80°)	396.6	8.4			G0/660
FVH	(80°-90°)	196.9	4.2			G2/225
BL	(0°-30°)	261.9	5.5	B1/500		
BM	(30°-60°)	692.9	14.6	B1/1000		
BH	(60°-80°)	194.7	4.1	B1/500		G1/500
BVH	(80°-90°)	82.4	1.7			G1/100
UL	(90°-100°)	224.6	4.7		U3/500	
UH	(100°-180°)	153.4	3.2		U3/500	

BUG Rating: B1-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
0°	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5
2.5°	563.7	561.3	562.5	562.5	559.3	557.8	554.7	550.8	545.5	539.6	534.3
5°	619.4	617.5	616.9	616.1	615.5	607.1	597.3	588.7	579.5	569.6	556.0
7.5°	722.2	721.6	717.7	713.2	706.5	692.1	674.4	666.0	653.4	638.4	617.5
10°	850.7	841.4	832.9	832.9	819.9	814.7	809.4	796.9	789.0	768.1	738.0
12.5°	923.9	919.3	937.0	935.8	952.7	983.6	994.1	1004.5	956.7	895.8	839.5
15°	992.6	992.6	1014.9	1015.7	1066.1	1134.1	1185.9	1135.5	1047.8	949.5	874.2
17.5°	1086.9	1092.9	1124.9	1146.5	1214.7	1331.8	1296.6	1203.5	1072.5	955.3	870.8
20°	1128.2	1141.3	1190.4	1218.6	1324.0	1434.8	1400.6	1291.4	1139.4	1005.8	920.8
22.5°	1153.9	1162.9	1220.5	1260.5	1395.4	1489.1	1483.8	1373.1	1229.8	1062.8	964.6
25°	1258.5	1264.5	1329.9	1371.3	1514.0	1544.0	1484.4	1407.9	1267.1	1093.5	1007.1
27.5°	1293.9	1294.5	1395.4	1457.6	1574.9	1564.4	1487.1	1455.1	1383.6	1246.8	1188.5
30°	1341.7	1340.5	1464.9	1531.6	1602.9	1558.5	1496.2	1524.5	1529.1	1417.6	1311.6
32.5°	1400.6	1395.4	1544.0	1624.0	1646.9	1557.1	1511.3	1559.1	1628.5	1513.3	1399.4
35°	1455.1	1459.6	1619.4	1673.7	1695.3	1565.0	1519.2	1624.0	1764.7	1675.7	1484.4
37.5°	1804.7	1799.5	1849.9	1868.8	1814.4	1591.8	1549.2	1704.5	1910.8	1872.2	1667.2
40°	1883.9	1866.3	2016.9	2028.0	1932.3	1686.7	1631.9	1753.0	2025.9	2094.8	1931.7
42.5°	1817.1	1812.5	1976.9	1992.0	1923.2	1750.9	1686.2	1792.3	2039.2	2095.4	1824.4
45°	2111.1	2086.9	2172.7	2155.0	1964.5	1723.5	1652.8	1748.5	1994.0	2151.7	1936.9
46°	2077.8	2047.0	2155.0	2177.3	2003.8	1709.7	1619.4	1671.0	1948.8	2142.5	1938.3
47.5°	1975.6	1978.2	2122.2	2123.7	1963.9	1711.7	1564.4	1624.7	1848.0	2025.4	1753.0
50°	1724.7	1695.3	1958.6	1967.1	1814.4	1637.7	1508.1	1535.6	1748.5	1857.1	1580.1
52.5°	1660.6	1637.7	1792.8	1791.6	1654.0	1525.1	1405.3	1434.1	1674.4	1798.1	1600.4
55°	1525.7	1517.9	1648.2	1637.0	1540.9	1386.3	1300.4	1318.2	1388.9	1340.5	797.5
57.5°	1013.6	1043.8	1269.0	1290.7	1291.4	1218.6	1111.3	948.3	820.5	698.1	390.3
60°	413.8	448.6	699.3	732.1	779.9	913.4	805.4	633.8	529.7	550.8	337.3
62.5°	312.3	325.5	466.8	472.8	491.2	556.0	549.5	459.8	452.4	498.3	322.9
65°	290.7	302.5	413.8	412.0	403.3	421.0	419.8	398.8	406.7	464.2	321.6
67.5°	275.1	286.7	384.4	385.1	377.8	381.2	383.8	373.2	391.7	451.2	330.0
70°	259.3	271.7	353.7	355.5	360.8	372.5	377.2	369.4	385.7	434.8	329.4
72.5°	240.3	254.1	324.7	328.2	338.5	365.4	381.2	379.2	381.2	410.5	328.2
75°	233.7	247.6	300.6	306.4	321.6	362.0	402.7	389.7	376.5	394.9	320.2
77.5°	205.0	220.7	275.1	288.1	321.6	372.5	417.2	412.5	388.2	384.4	311.7
80°	197.1	212.2	264.6	279.0	314.9	381.8	431.5	432.2	419.8	398.8	320.2
82.5°	198.4	212.8	267.2	283.5	324.7	388.2	419.8	436.0	437.5	411.2	330.0
85°	233.1	246.9	298.5	315.7	351.6	386.4	410.5	422.4	434.2	434.2	362.0
87.5°	248.8	261.2	300.6	315.7	350.2	390.9	387.0	406.7	418.4	433.5	373.2
90°	263.3	271.1	311.7	326.2	344.4	377.2	366.7	360.8	370.6	386.4	349.7
92.5°	273.8	280.9	316.9	329.4	345.0	352.2	336.5	319.5	343.8	356.2	325.5
95°	292.7	299.2	318.2	322.9	320.9	327.4	303.2	296.6	307.1	320.9	301.2
97.5°	279.6	284.3	302.5	307.8	306.4	296.6	272.4	268.5	277.7	288.1	266.4
100°	279.6	285.5	299.2	302.5	294.6	269.9	244.9	243.6	249.5	254.7	234.4
102.5°	285.5	288.1	290.7	292.7	278.4	250.7	232.4	227.9	229.8	232.4	214.2
105°	270.4	271.1	272.4	266.4	254.7	233.7	215.5	207.6	214.2	222.1	206.9
107.5°	233.7	233.1	233.7	231.9	230.4	218.1	205.0	195.1	195.1	197.7	183.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	18°	25°	35°	45°	55°	65°	75°	85°
110°	218.1	218.6	218.1	218.1	212.2	203.6	191.2	180.6	175.4	176.7	163.8
112.5°	199.8	199.8	200.4	201.0	197.7	189.9	177.4	166.9	160.4	159.1	146.7
115°	199.8	197.7	191.9	191.2	184.6	173.6	164.4	151.3	146.7	146.7	138.8
117.5°	178.1	176.7	172.2	170.9	166.9	157.8	152.6	142.1	138.8	136.8	129.6
120°	157.8	157.8	155.9	155.1	151.3	146.1	134.8	131.0	128.4	131.0	126.4
122.5°	146.7	146.7	143.4	142.1	137.5	133.6	123.7	116.6	112.0	117.1	114.7
125°	134.8	134.2	129.6	128.9	121.1	121.1	115.9	106.7	94.3	99.5	98.3
127.5°	118.5	117.9	112.0	111.3	106.7	112.0	110.8	98.9	81.8	85.1	85.1
130°	113.9	112.6	107.3	106.1	101.5	100.3	105.5	86.4	76.6	79.9	79.2
132.5°	113.9	112.6	106.1	104.2	96.8	89.7	95.0	75.3	73.3	77.3	76.6
135°	102.8	102.8	96.8	93.0	85.8	72.8	74.0	58.3	64.1	70.1	70.1
137.5°	87.0	87.0	81.1	79.9	71.3	58.3	52.5	44.6	54.3	60.8	61.5
140°	68.1	68.1	63.5	60.8	54.9	38.6	24.3	27.5	41.2	47.2	49.0
142.5°	49.0	48.5	44.6	41.2	35.4	20.9	7.8	15.7	24.3	32.1	34.8
145°	34.0	33.3	28.8	26.9	21.6	9.8	1.9	6.6	14.5	19.0	22.3
147.5°	20.3	20.3	17.0	16.3	11.0	2.6	1.3	1.9	7.1	11.8	13.7
150°	11.8	11.8	8.5	6.6	2.6	0.7	0.7	0.7	1.9	5.2	6.6
152.5°	2.6	2.6	1.9	1.3	1.3	0.7	0.0	0.7	0.7	0.7	1.3
155°	1.3	1.3	1.3	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	0.0	0.0	0.7	0.7	0.7	0.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
162.5°	0.7	0.7	0.0	0.0	0.7	0.0	0.7	0.0	0.7	0.7	0.7
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°	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5
2.5°	531.6	529.1	523.3	515.9	510.7	506.1	503.0	501.0	499.6	496.4	497.8
5°	551.4	546.1	532.3	521.2	509.5	499.0	491.2	485.9	483.8	481.3	481.3
7.5°	607.7	595.2	574.2	548.1	523.8	503.0	483.3	472.1	462.3	457.1	455.8
10°	718.4	701.9	656.8	603.1	550.0	503.0	465.0	437.5	424.3	419.8	419.8
12.5°	810.0	784.5	725.6	665.4	594.6	520.6	464.2	427.0	409.3	403.3	403.3
15°	837.5	804.2	734.8	675.7	612.3	550.0	497.8	443.9	412.0	402.0	398.8
17.5°	829.0	796.3	733.3	662.1	590.6	544.2	497.8	468.8	439.5	422.4	419.8
20°	883.4	853.2	787.8	707.9	620.1	515.9	486.5	480.0	472.8	461.6	461.6
22.5°	928.6	900.5	835.0	749.0	643.6	575.5	531.6	525.1	517.3	515.4	514.0
25°	963.3	933.1	843.4	744.5	667.9	618.2	561.8	539.6	520.6	514.6	512.8
27.5°	1148.6	1102.1	958.0	817.8	707.9	632.5	567.6	539.0	521.2	514.0	518.6
30°	1257.3	1206.9	1049.0	865.0	755.7	663.9	579.5	545.5	550.0	556.0	560.5
32.5°	1340.5	1274.2	1088.9	870.8	747.7	669.9	598.5	557.8	544.8	552.6	554.0
35°	1422.2	1341.7	1140.7	908.2	758.3	648.2	585.4	561.8	557.8	568.4	566.4
37.5°	1588.7	1483.2	1204.8	918.6	748.5	622.7	563.1	538.3	518.0	515.4	518.6
40°	1806.0	1664.6	1269.0	914.1	702.7	592.0	535.0	506.9	491.2	481.3	475.5
42.5°	1697.3	1555.1	1186.5	877.5	647.0	536.9	506.1	481.3	461.0	448.6	445.3
45°	1816.5	1677.7	1207.5	803.4	583.4	487.8	462.9	445.9	417.8	405.9	404.0
46°	1780.5	1623.2	1184.0	780.5	552.6	466.8	445.9	428.2	407.3	390.9	389.7
47.5°	1649.5	1466.2	1114.4	719.1	531.6	432.2	417.8	407.3	396.2	377.2	374.6
50°	1472.1	1331.8	989.5	639.1	447.9	385.7	373.2	370.0	357.5	334.6	336.5
52.5°	1458.3	1322.8	921.3	588.0	397.5	337.9	334.0	324.2	313.7	293.3	292.7
55°	703.3	597.8	511.5	460.3	332.6	299.2	297.2	292.7	279.6	261.2	264.6
57.5°	333.4	290.2	250.7	265.9	261.2	262.6	263.9	263.3	248.2	223.3	228.4
60°	292.0	253.4	216.8	205.6	216.1	232.4	232.4	222.6	201.7	172.2	169.6
62.5°	281.6	242.9	209.6	194.6	199.8	209.6	204.4	188.6	167.7	140.8	139.4
65°	282.8	241.6	208.9	189.9	194.6	198.4	188.6	176.2	165.0	146.1	146.1
67.5°	288.7	246.9	211.6	187.9	191.2	193.9	184.6	175.4	168.9	154.6	155.9
70°	290.2	250.2	214.2	188.6	187.9	190.5	184.1	175.4	172.2	162.5	161.8
72.5°	290.2	252.8	211.6	184.1	182.6	184.1	180.1	175.4	174.8	168.9	167.7
75°	280.4	246.9	202.4	174.8	173.6	174.8	173.6	172.8	175.4	172.8	170.3
77.5°	270.4	240.9	195.8	167.7	165.6	165.0	164.4	165.0	168.9	166.9	163.0
80°	275.1	243.6	194.6	161.8	155.9	153.3	153.3	153.9	153.9	148.0	142.1
82.5°	282.8	248.2	187.9	150.6	140.8	136.3	137.5	142.1	144.1	139.4	134.8
85°	311.7	269.1	189.3	142.7	128.4	123.1	125.0	131.0	127.0	120.6	115.3
87.5°	324.2	276.3	185.3	131.0	119.1	117.1	117.1	120.6	117.9	107.3	102.8
90°	309.7	264.6	167.7	111.3	103.5	105.5	106.1	102.8	91.6	79.9	75.9
92.5°	290.2	247.6	155.1	102.1	91.6	91.0	90.4	88.5	79.9	66.8	64.1
95°	273.8	233.1	143.4	93.7	83.8	81.8	81.1	78.6	70.7	60.8	59.6
97.5°	238.4	203.6	130.3	86.4	75.3	74.0	73.3	70.1	62.8	55.7	54.9
100°	214.2	181.4	116.6	78.0	68.1	66.1	65.4	63.5	57.6	52.5	51.7
102.5°	194.6	166.4	108.1	71.3	60.8	58.3	58.3	57.0	53.7	50.5	50.5
105°	189.3	163.0	104.7	65.4	54.3	53.0	52.5	52.5	49.8	47.8	47.8
107.5°	166.4	142.7	90.4	58.3	49.0	47.8	47.8	47.8	47.2	46.5	47.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	149.9	128.9	83.2	54.3	45.9	43.8	43.8	43.8	43.8	45.2	45.2
112.5°	133.6	115.9	76.6	51.7	42.6	40.7	39.3	38.6	38.0	40.7	41.2
115°	126.4	110.8	73.3	49.0	40.7	38.6	36.0	34.8	32.8	34.8	35.4
117.5°	119.1	104.7	72.0	48.5	39.3	36.0	33.3	32.1	29.5	31.4	31.4
120°	117.1	104.2	73.3	49.0	38.0	33.3	31.4	28.1	26.9	28.1	28.8
122.5°	108.1	96.3	68.8	45.9	36.0	32.1	29.5	24.3	23.5	25.5	25.5
125°	91.6	82.6	59.6	41.2	34.0	31.4	28.8	21.6	22.3	23.5	24.3
127.5°	80.6	72.8	54.3	40.0	34.0	32.1	26.9	19.0	20.9	22.9	23.5
130°	75.3	69.3	54.3	41.2	35.4	32.8	22.3	17.6	19.7	21.6	21.6
132.5°	73.3	68.8	55.7	43.8	36.7	31.4	18.3	16.3	18.3	19.7	19.7
135°	67.5	63.5	53.0	42.6	33.3	25.0	14.5	14.5	17.0	18.3	18.3
137.5°	59.6	56.4	47.8	39.3	29.5	19.0	10.5	12.4	14.5	15.7	15.7
140°	47.8	45.9	39.3	30.8	20.9	10.5	7.8	9.8	11.8	13.0	13.0
142.5°	34.0	32.8	27.5	19.7	12.4	4.6	5.2	7.1	9.2	10.5	10.5
145°	22.3	20.9	17.0	12.4	5.2	1.3	3.2	5.2	7.1	7.8	7.8
147.5°	13.7	13.0	10.5	5.8	1.9	1.3	1.3	4.0	5.2	5.8	5.8
150°	7.1	6.6	4.6	1.9	0.7	0.7	0.7	1.3	3.2	4.0	4.6
152.5°	1.9	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.9
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
157.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.7	0.0	0.7	0.7	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)