

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: P266372

Luminaire Tested: **UTLD-AF24-50-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266372
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-AF24-50-D-U-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 4196.8 lumens
Efficiency: N/A
Efficacy: 77.7 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): 54
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



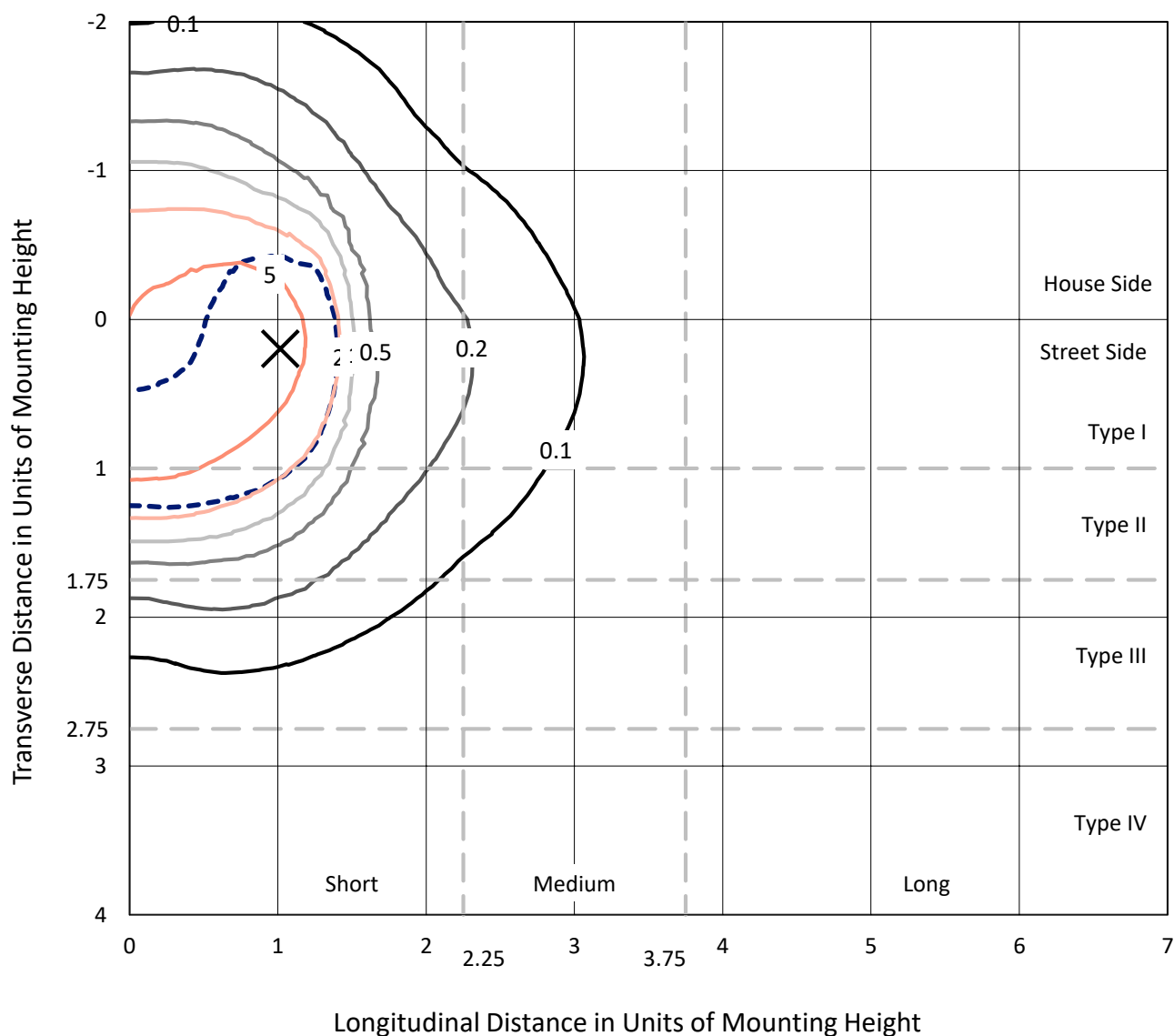
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

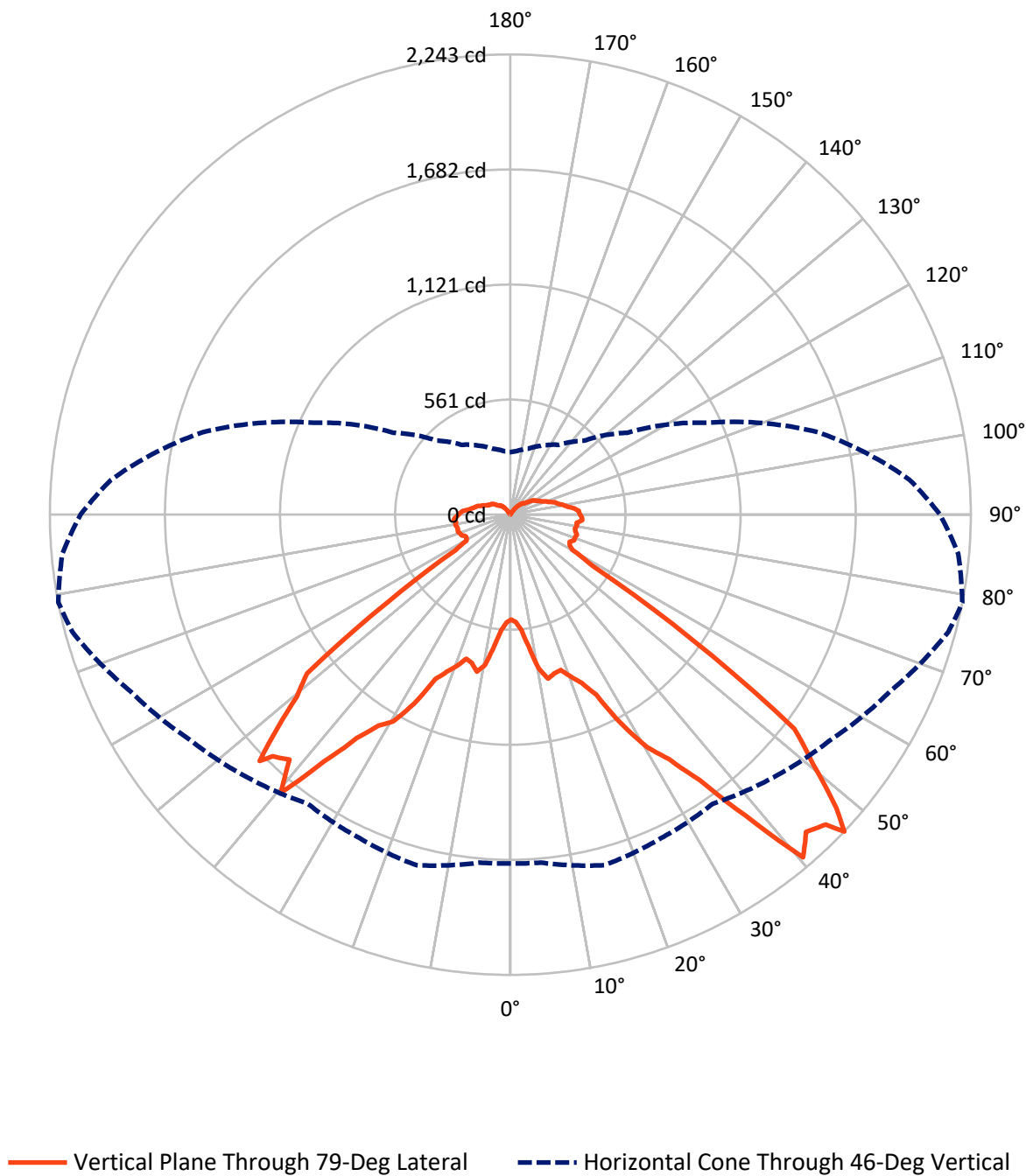


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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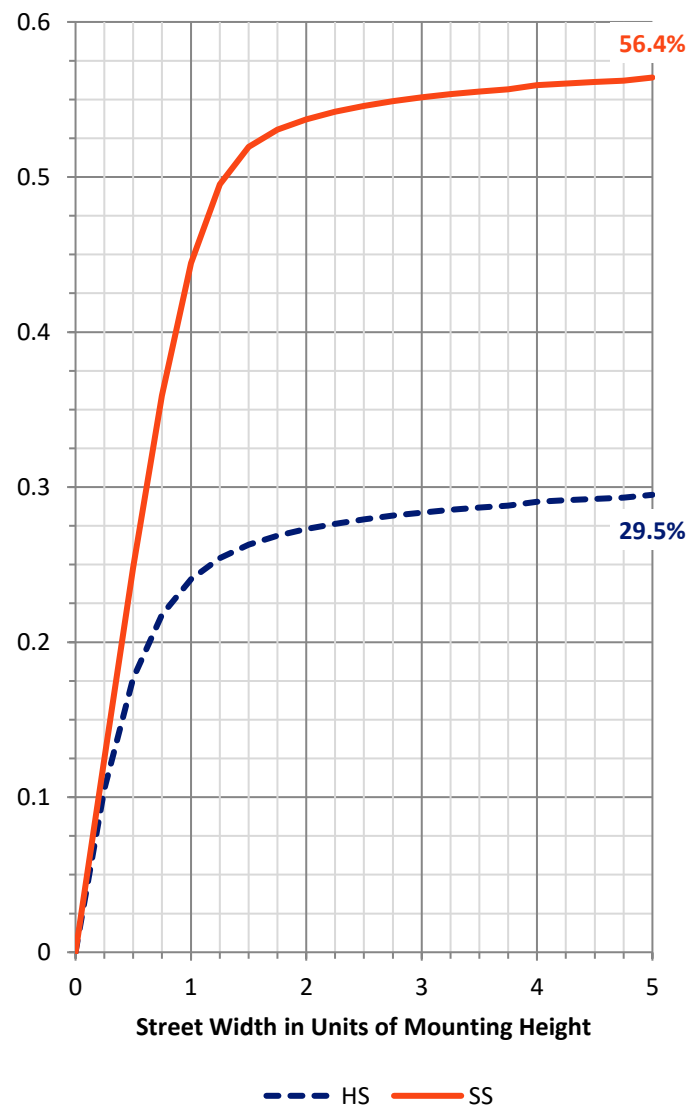
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1279.3	159.1	1438.4
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	2413.2	345.2	2758.4
	% Fixture	57.5	8.2	65.7
Total	Lumens	3692.5	504.3	4196.8
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.3
10°-20°	199.4	4.8
20°-30°	402.8	9.6
30°-40°	737.4	17.6
40°-50°	1019.0	24.3
50°-60°	650.4	15.5
60°-70°	233.0	5.6
70°-80°	209.2	5.0
80°-90°	186.0	4.4
90°-100°	170.7	4.1
100°-110°	132.7	3.2
110°-120°	92.1	2.2
120°-130°	61.6	1.5
130°-140°	36.9	0.9
140°-150°	9.8	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3692.5	88.0
0°-180°	4196.8	100.0

Coefficient of Utilization



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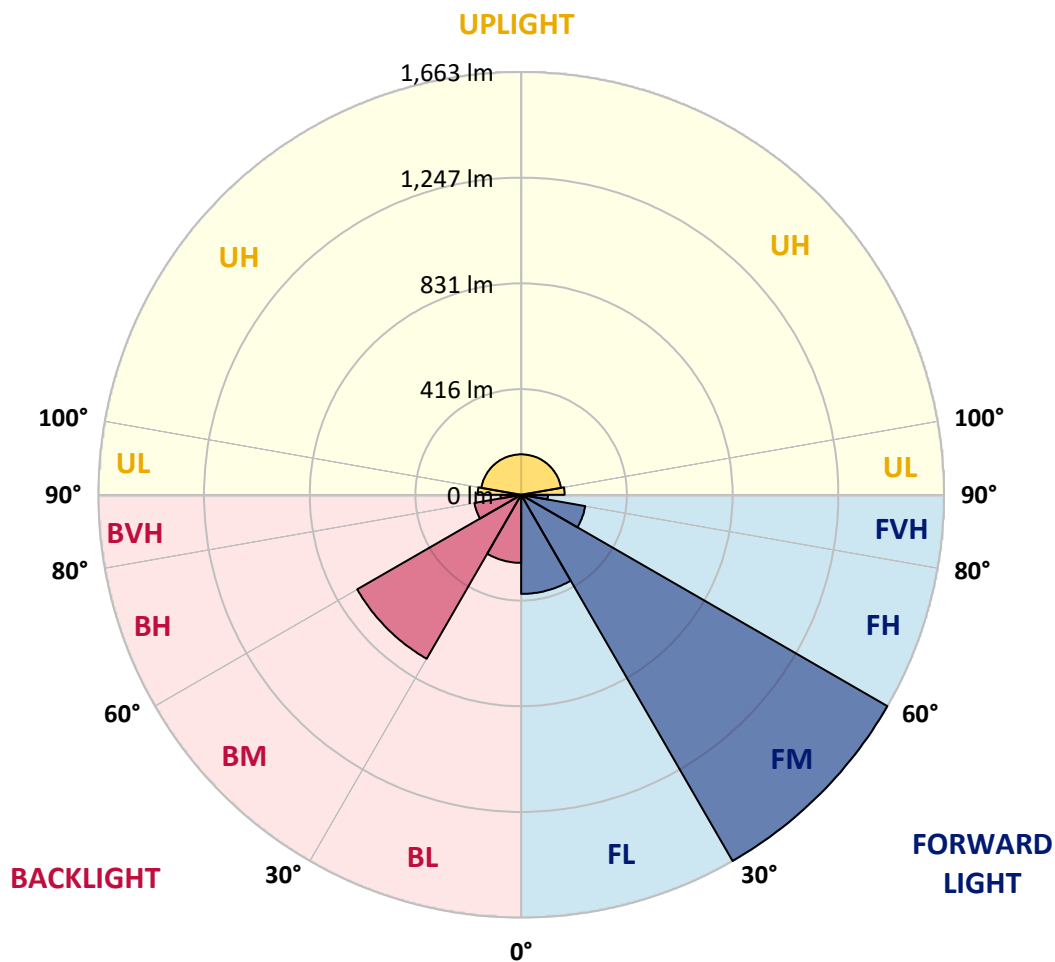
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.8	9.3			
FM	(30°-60°)	1662.6	39.6			
FH	(60°-80°)	255.7	6.1			G0/660
FVH	(80°-90°)	105.1	2.5			G2/225
BL	(0°-30°)	267.5	6.4	B1/500		
BM	(30°-60°)	744.3	17.7	B1/1000		
BH	(60°-80°)	186.5	4.4	B1/500		G1/500
BVH	(80°-90°)	81.0	1.9			G1/100
UL	(90°-100°)	170.7	4.1		U3/500	
UH	(100°-180°)	159.1	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°	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6
2.5°	519.9	521.6	521.0	519.9	522.3	523.4	523.4	522.8	523.4	524.5	526.8
5°	544.7	544.2	545.9	550.4	556.6	558.2	563.3	562.2	565.0	565.0	568.4
7.5°	588.1	588.7	594.3	598.8	605.5	620.2	634.4	652.9	652.3	651.2	655.8
10°	633.1	633.1	644.4	660.9	688.5	719.4	732.8	749.2	766.2	763.3	758.8
12.5°	647.3	649.6	669.2	709.8	769.5	822.5	849.4	846.2	829.2	819.7	804.4
15°	673.2	676.1	697.4	759.3	830.4	877.6	887.9	846.2	809.6	802.7	789.8
17.5°	770.7	770.7	792.7	849.4	903.1	892.3	852.3	832.5	809.0	796.0	777.5
20°	838.3	842.3	877.1	917.1	946.5	911.5	912.0	875.4	851.2	843.2	825.8
22.5°	903.5	909.3	919.3	981.8	990.3	997.1	976.7	943.6	903.1	890.1	872.1
25°	1042.2	1043.9	1054.6	1084.4	1061.8	1050.6	1021.4	994.2	978.6	971.7	952.7
27.5°	1206.7	1201.7	1206.2	1208.3	1173.9	1143.1	1100.2	1128.9	1151.4	1157.6	1140.8
30°	1240.5	1232.0	1266.4	1303.0	1286.2	1249.0	1246.0	1280.4	1322.8	1314.8	1291.1
32.5°	1376.8	1363.8	1379.5	1383.5	1380.8	1370.0	1365.6	1408.9	1439.4	1421.8	1387.5
35°	1486.7	1486.1	1430.3	1443.2	1451.1	1475.9	1500.7	1559.8	1586.9	1588.1	1559.3
37.5°	1721.5	1704.7	1683.9	1601.6	1558.2	1569.5	1655.0	1759.9	1820.7	1860.7	1815.0
40°	1802.1	1809.5	1791.9	1783.0	1719.8	1693.3	1791.9	1972.1	2137.2	2195.8	2190.2
42.5°	1669.7	1686.6	1676.4	1738.9	1789.2	1822.9	1941.7	2096.1	2127.7	2112.5	2032.0
45°	1780.1	1780.1	1753.1	1714.2	1731.8	1841.5	1935.6	2039.8	2138.4	2154.1	2109.7
46°	1700.1	1701.7	1768.4	1738.9	1719.3	1810.5	1908.5	2039.8	2208.3	2242.6	2190.2
47.5°	1552.5	1549.8	1671.9	1681.5	1695.0	1770.0	1877.5	2039.2	2134.5	2136.7	2071.4
50°	1230.3	1235.3	1403.2	1492.3	1581.2	1655.0	1800.5	1891.7	1913.1	1909.2	1838.1
52.5°	998.7	1012.3	1101.3	1213.4	1321.0	1463.0	1632.0	1717.0	1763.8	1732.8	1667.4
55°	692.4	721.6	833.7	934.5	1092.2	1228.6	1374.5	1382.4	1169.0	1071.5	950.3
57.5°	428.1	433.8	533.0	675.4	793.7	900.8	902.4	701.3	545.9	474.3	394.4
60°	237.7	242.8	330.7	435.9	551.5	564.5	504.2	405.7	364.0	345.3	317.1
62.5°	176.8	180.7	238.3	303.1	349.4	367.9	338.7	331.8	332.4	323.8	305.3
65°	159.4	161.7	208.9	241.6	268.8	272.6	283.3	307.0	319.9	318.3	310.5
67.5°	144.7	147.6	190.4	214.1	230.4	249.5	258.5	295.3	330.0	335.7	328.4
70°	128.9	133.5	171.8	196.5	215.2	233.7	251.9	297.5	325.5	333.5	330.0
72.5°	111.5	117.1	149.3	175.2	196.0	216.3	247.4	286.2	324.5	338.7	340.7
75°	98.1	105.3	131.8	154.9	176.8	201.1	233.7	282.2	318.3	327.3	331.8
77.5°	88.5	96.3	116.6	138.0	158.9	185.3	223.0	281.1	312.2	322.2	330.0
80°	81.1	89.0	105.9	122.8	140.2	170.0	211.8	279.5	318.3	329.0	333.5
82.5°	75.5	82.9	97.5	112.6	126.8	153.8	203.9	276.6	316.7	325.5	327.8
85°	76.0	81.7	95.2	109.2	122.2	145.3	200.1	277.8	337.5	351.5	353.8
87.5°	79.9	83.9	98.1	114.4	128.9	152.6	207.2	275.5	335.2	348.2	353.8
90°	86.7	90.1	107.1	126.2	143.6	165.6	205.6	269.3	325.5	337.5	340.7
92.5°	107.5	110.4	128.9	149.8	165.1	172.4	198.9	278.8	327.3	334.1	334.1
95°	139.1	142.6	160.5	176.2	179.1	175.2	195.6	247.8	298.5	313.1	321.7
97.5°	174.1	175.2	185.3	188.1	179.8	170.7	191.0	231.6	271.0	281.1	283.3
100°	185.3	185.3	192.1	189.8	173.6	161.2	173.0	210.7	249.0	260.2	263.7
102.5°	187.6	188.7	195.6	188.1	166.1	146.0	153.8	189.8	225.4	237.7	244.5
105°	198.9	199.5	195.6	177.4	150.3	132.4	139.1	175.2	213.0	224.8	232.1
107.5°	185.9	184.2	173.6	156.7	138.6	125.7	133.5	160.0	188.7	198.3	203.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	153.8	152.6	148.7	142.6	131.2	121.7	126.8	150.9	178.6	185.9	190.4
112.5°	148.2	147.1	143.1	135.7	122.8	115.5	124.0	144.7	161.7	165.1	165.6
115°	142.6	141.5	132.4	124.0	113.7	110.4	116.1	135.3	150.9	154.9	158.3
117.5°	122.8	121.7	115.0	109.9	105.9	107.5	117.1	127.9	139.1	142.6	144.7
120°	109.2	108.8	105.3	102.0	99.7	100.8	111.0	122.8	134.0	137.4	139.1
122.5°	103.0	102.5	98.5	93.6	93.6	93.6	101.4	110.4	122.8	125.7	129.5
125°	90.6	90.6	86.7	82.9	88.5	90.6	92.3	93.0	102.5	107.1	108.8
127.5°	80.6	81.1	77.8	74.9	85.1	90.1	89.0	81.7	87.3	90.6	93.0
130°	79.4	79.4	75.5	72.1	77.2	87.3	83.9	76.6	83.4	85.6	86.7
132.5°	77.2	77.2	73.2	68.1	69.3	80.6	73.2	71.5	77.8	79.9	80.6
135°	71.0	71.0	68.1	61.4	57.0	68.1	59.2	62.5	68.7	70.3	71.0
137.5°	63.2	63.2	60.2	54.6	45.0	51.3	45.6	53.0	59.2	60.8	61.4
140°	51.8	51.3	49.5	42.8	32.7	28.7	31.0	42.2	48.5	49.5	51.3
142.5°	38.3	38.8	36.0	30.5	19.8	10.7	18.1	27.0	33.7	35.6	36.7
145°	28.1	27.6	24.9	19.8	10.7	1.6	8.4	16.9	21.4	23.0	24.3
147.5°	18.5	18.5	16.3	11.9	3.4	0.5	2.2	8.4	13.6	14.6	15.2
150°	12.3	12.3	9.1	3.4	0.5	0.5	0.5	1.6	5.6	6.7	7.8
152.5°	4.0	4.0	1.6	1.1	0.5	0.0	0.0	0.5	1.1	1.1	1.6
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.5	0.5	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°	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6	511.6
2.5°	527.2	526.8	525.0	523.4	518.9	513.2	507.5	503.6	501.3	499.6	499.1
5°	567.3	568.4	560.5	547.5	535.2	523.9	513.2	503.1	497.4	492.9	491.3
7.5°	652.3	654.1	638.2	617.9	586.5	548.1	515.4	493.4	477.7	468.1	466.4
10°	757.7	753.1	734.5	691.2	633.8	574.6	513.2	466.0	440.4	428.8	428.1
12.5°	800.5	794.3	773.4	737.4	677.1	600.0	523.9	461.4	423.6	408.4	407.8
15°	780.7	770.0	731.8	698.5	674.8	632.0	563.9	492.4	440.4	421.3	416.4
17.5°	763.9	753.1	721.1	673.2	628.6	610.0	576.8	517.8	463.6	436.5	430.9
20°	813.4	806.7	766.8	703.1	654.1	579.6	552.6	512.0	471.5	454.6	450.1
22.5°	859.0	855.6	805.6	739.0	673.2	621.4	567.3	537.5	498.0	486.2	481.1
25°	944.2	928.4	846.2	756.6	699.7	648.9	579.6	533.0	485.1	469.9	466.9
27.5°	1144.1	1107.5	987.5	852.9	738.5	658.0	578.6	509.8	457.4	438.3	437.1
30°	1271.5	1238.3	1102.9	954.9	799.4	679.4	571.2	488.4	449.0	430.4	430.9
32.5°	1348.6	1304.1	1152.0	964.4	813.4	690.1	575.8	481.1	428.1	404.4	403.9
35°	1515.9	1453.9	1233.2	1041.7	841.1	674.3	556.6	466.0	416.9	399.3	397.1
37.5°	1754.2	1684.3	1385.2	1104.1	852.3	653.4	531.7	448.4	389.9	365.6	364.0
40°	2098.4	1995.9	1595.8	1179.7	843.2	637.6	504.8	421.9	373.4	357.7	352.7
42.5°	1927.8	1811.7	1470.3	1165.0	820.8	594.3	478.8	409.0	364.0	351.5	344.8
45°	2034.2	1898.9	1485.4	1083.3	734.5	530.1	434.9	383.0	338.0	320.5	318.9
46°	2093.3	1951.9	1551.5	1058.6	695.2	509.8	415.1	371.2	332.4	309.8	304.7
47.5°	1965.0	1807.7	1426.4	1010.1	663.6	464.2	389.2	352.7	326.2	305.3	301.9
50°	1723.2	1569.5	1233.7	861.4	571.2	409.5	347.0	325.0	298.5	276.0	272.0
52.5°	1572.8	1443.8	1129.4	781.3	485.1	345.3	309.8	290.7	263.7	237.2	233.7
55°	864.7	775.6	698.0	587.0	402.3	291.8	269.9	258.5	231.0	205.1	203.3
57.5°	356.0	319.9	317.1	299.1	276.6	245.5	233.2	226.5	198.9	167.4	166.1
60°	299.7	267.1	235.4	207.2	205.6	205.1	201.1	189.4	158.9	126.2	125.0
62.5°	291.8	259.7	228.7	194.4	179.8	184.2	176.8	162.2	139.1	107.5	106.4
65°	297.5	264.2	227.6	188.7	173.0	174.6	166.7	155.4	139.6	117.1	116.1
67.5°	316.7	282.2	241.1	186.5	167.4	170.7	165.1	156.7	147.6	133.5	130.8
70°	319.3	289.0	241.6	187.6	161.2	165.1	163.3	156.0	149.8	137.4	135.7
72.5°	327.8	300.3	246.8	183.7	154.4	156.0	158.3	156.0	152.2	144.7	141.9
75°	319.9	295.7	244.5	180.3	147.6	146.5	152.2	154.9	156.0	153.3	149.8
77.5°	318.3	298.0	245.1	178.0	141.5	136.9	141.5	146.0	148.2	145.3	142.6
80°	320.5	303.1	252.3	178.6	134.7	123.3	125.7	130.8	131.2	126.2	122.2
82.5°	315.5	298.5	244.5	172.4	124.0	109.9	110.4	115.5	116.1	109.9	105.3
85°	338.0	317.7	250.1	164.5	112.6	100.3	100.8	103.0	99.7	93.0	88.5
87.5°	337.5	313.1	238.9	152.2	105.3	94.6	94.1	93.6	87.9	79.9	76.0
90°	325.5	300.3	223.7	134.0	93.0	86.7	85.1	81.7	73.8	64.8	62.0
92.5°	317.7	290.7	213.4	126.8	81.7	76.0	74.9	71.5	63.7	54.1	52.5
95°	309.2	282.7	196.5	111.0	72.1	66.5	64.8	61.4	55.2	47.3	46.3
97.5°	272.6	246.8	173.6	100.8	64.1	58.0	57.0	54.1	49.0	43.4	42.8
100°	251.9	228.7	161.2	92.3	57.4	50.8	50.1	48.5	45.0	41.1	40.6
102.5°	235.4	213.0	149.3	85.6	51.3	45.0	44.5	43.9	42.2	39.4	39.4
105°	223.0	201.7	143.1	79.9	46.3	41.1	40.6	40.6	38.8	37.2	37.2
107.5°	194.4	176.2	124.4	71.0	42.2	37.8	37.8	37.8	36.7	35.6	36.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	183.1	166.1	118.2	66.5	40.6	34.9	34.3	34.3	33.7	34.3	34.3
112.5°	157.7	143.1	104.3	63.7	39.4	33.2	31.5	30.5	29.3	30.5	31.0
115°	151.5	138.0	100.8	61.4	38.3	32.1	29.9	28.1	26.0	27.6	27.6
117.5°	139.1	126.8	93.6	59.6	38.3	30.5	28.1	26.5	24.3	25.3	25.3
120°	133.5	122.8	94.1	61.4	38.8	28.7	26.5	23.6	22.0	23.6	23.6
122.5°	125.7	116.1	88.5	58.0	37.2	28.1	26.0	20.3	19.1	20.8	20.8
125°	105.3	97.5	76.0	51.3	35.6	28.1	25.3	18.1	18.1	19.1	19.8
127.5°	89.7	83.4	65.9	47.9	36.0	29.9	24.3	15.8	16.9	18.5	18.5
130°	84.5	79.4	65.3	49.0	37.8	31.5	19.8	14.6	15.8	17.4	17.4
132.5°	79.0	74.4	63.2	50.1	38.3	29.9	16.3	13.6	14.6	15.8	15.8
135°	69.3	65.9	57.0	45.6	34.3	23.6	12.9	11.9	13.6	14.6	15.2
137.5°	60.8	58.0	50.1	41.1	31.0	20.3	9.1	10.7	11.9	12.3	12.9
140°	50.1	48.5	42.2	33.7	23.0	11.3	6.7	8.4	9.6	10.7	10.7
142.5°	36.7	35.6	29.9	22.0	14.1	4.5	4.5	6.2	7.4	8.4	8.4
145°	24.3	23.0	19.1	14.1	6.2	1.1	2.9	4.5	6.2	6.7	6.7
147.5°	15.2	14.6	11.9	7.4	2.2	1.1	1.1	3.4	4.5	5.1	5.1
150°	7.8	7.4	5.1	2.2	1.1	0.5	0.5	1.1	2.9	3.4	3.4
152.5°	1.6	1.6	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	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)