

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: P240150

Luminaire Tested: **UTLD-AF24-70-D-U-T3-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-70-D-U-T3-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6000.5 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 74
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



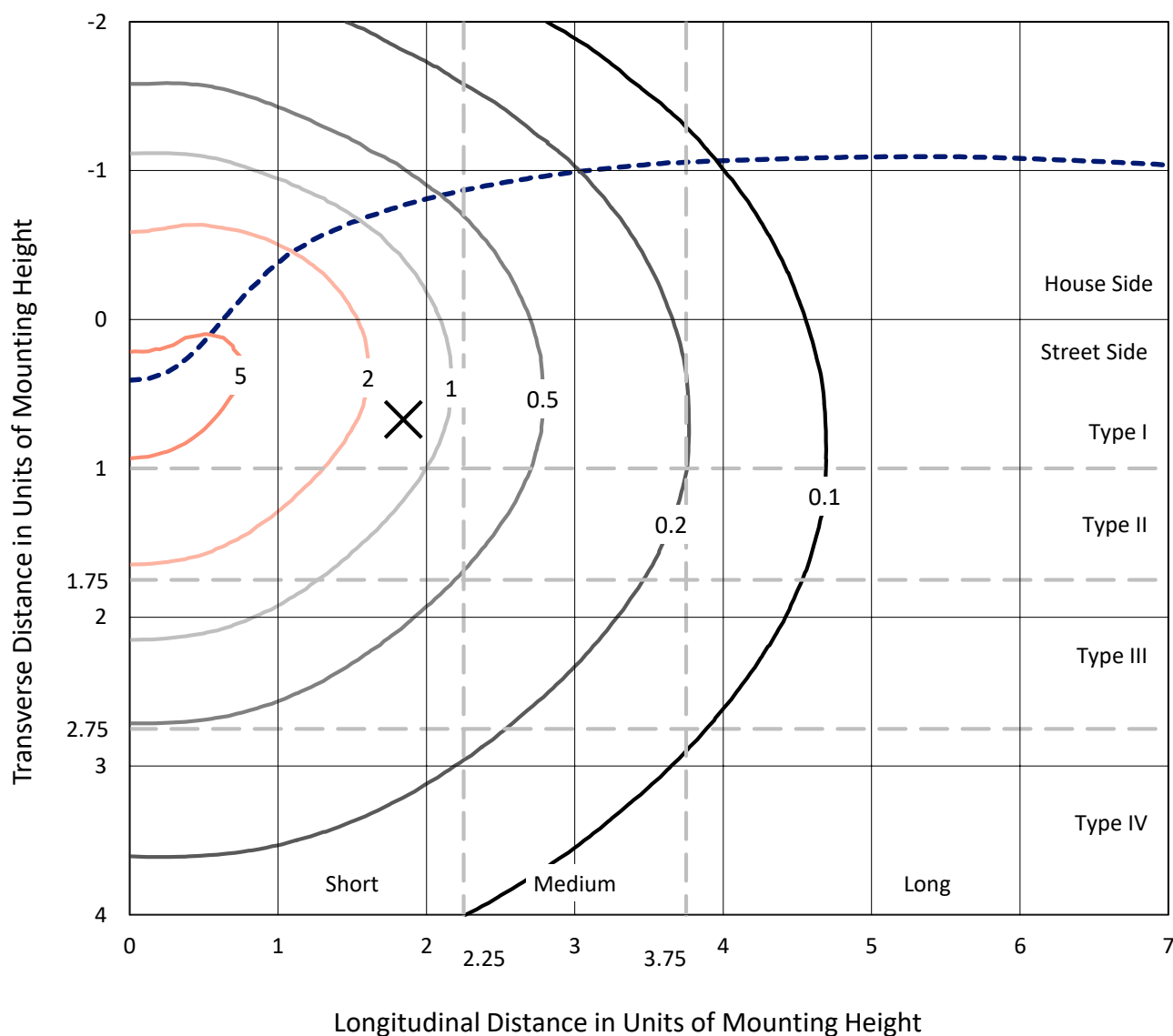
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

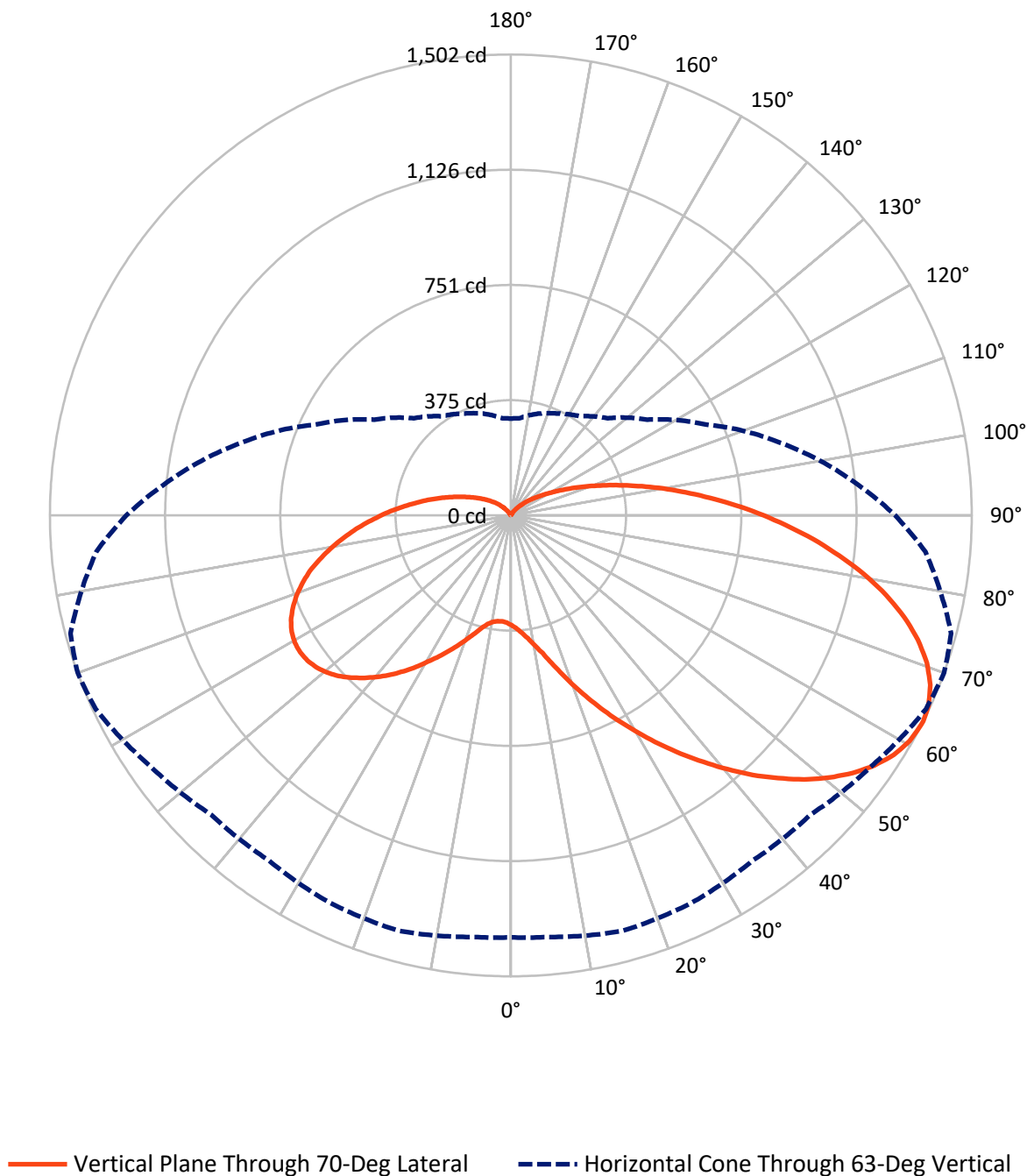


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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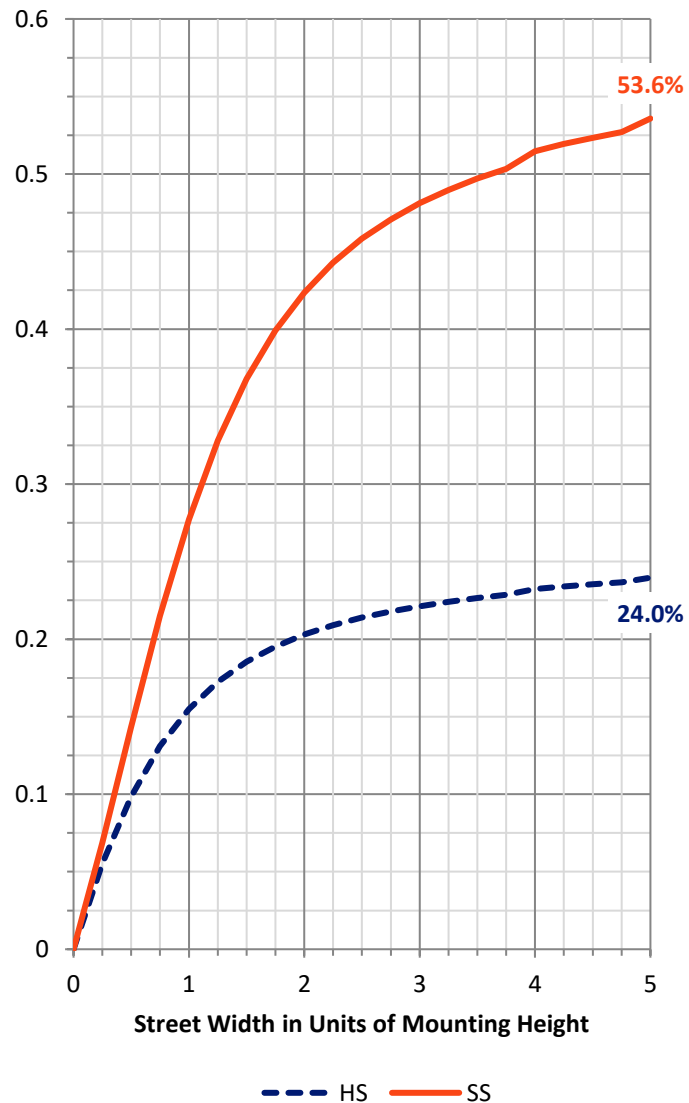
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.8	347.2	1881.0
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3467.2	652.3	4119.6
	% Fixture	57.8	10.9	68.7
Total	Lumens	5001.0	999.5	6000.5
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	0.6
10°-20°	125.2	2.1
20°-30°	268.9	4.5
30°-40°	468.6	7.8
40°-50°	696.3	11.6
50°-60°	889.2	14.8
60°-70°	964.0	16.1
70°-80°	877.8	14.6
80°-90°	675.3	11.3
90°-100°	453.0	7.5
100°-110°	274.5	4.6
110°-120°	153.2	2.6
120°-130°	77.8	1.3
130°-140°	32.2	0.5
140°-150°	8.2	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5001.0	83.3
0°-180°	6000.5	100.0

Coefficient of Utilization



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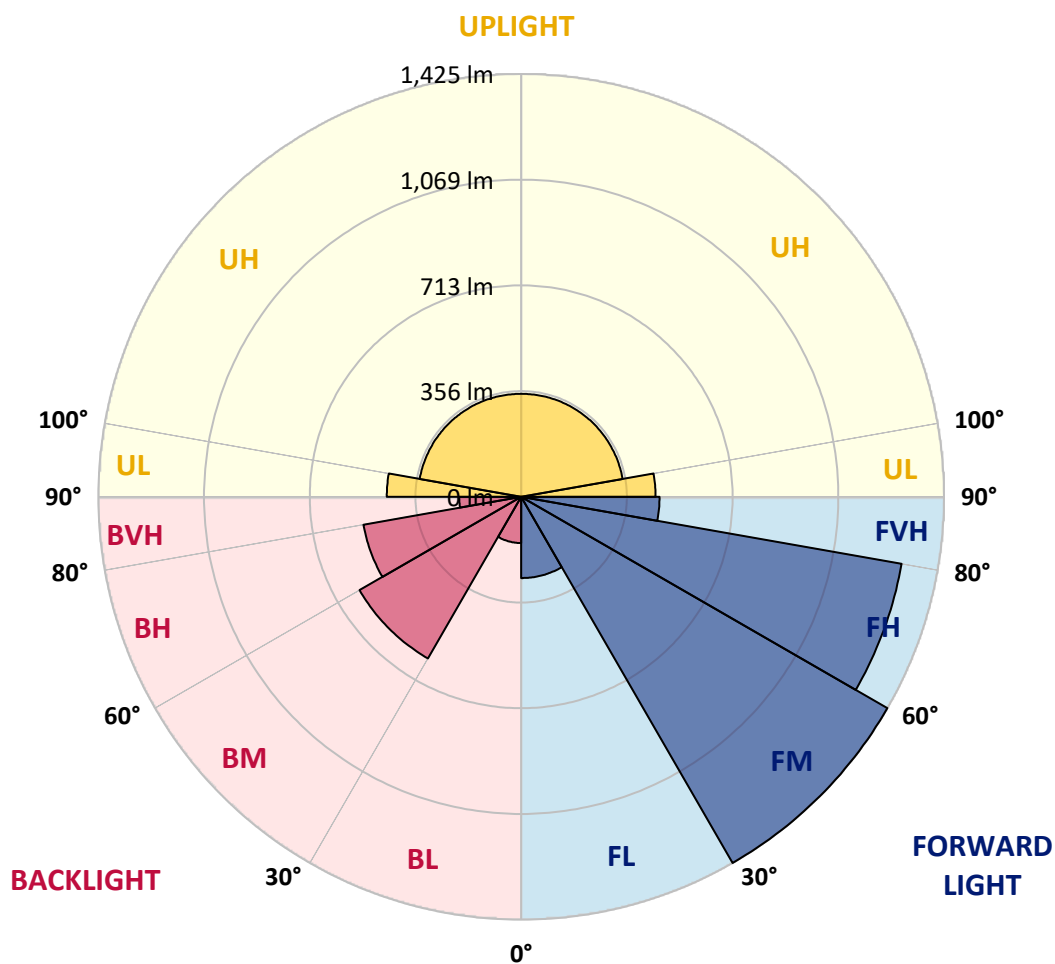
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.9	4.6			
FM	(30°-60°)	1425.2	23.8			
FH	(60°-80°)	1301.9	21.7			G1/1800
FVH	(80°-90°)	466.3	7.8			G3/500
BL	(0°-30°)	155.8	2.6	B1/500		
BM	(30°-60°)	629.0	10.5	B1/1000		
BH	(60°-80°)	539.9	9.0	B2/1000		G2/1000
BVH	(80°-90°)	209.1	3.5			G2/225
UL	(90°-100°)	453.0	7.5		U3/500	
UH	(100°-180°)	347.2	5.8		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1
2.5°	387.3	387.3	386.4	385.6	383.3	380.1	375.5	372.2	369.1	366.8	361.9
5°	420.4	422.0	418.8	417.3	411.7	405.4	398.2	389.6	385.6	380.1	370.7
7.5°	455.8	457.5	454.3	450.3	443.3	433.8	422.8	411.7	404.6	397.4	383.3
10°	495.3	496.1	492.1	487.4	478.8	466.9	455.1	438.5	430.6	421.2	402.3
12.5°	539.5	537.9	534.8	526.8	516.6	504.0	488.2	471.7	460.6	449.6	425.9
15°	590.0	589.1	583.7	574.1	561.6	547.4	528.5	510.4	499.2	487.4	459.0
17.5°	642.8	641.3	635.7	624.6	611.3	593.1	579.0	557.7	544.2	531.5	499.2
20°	695.7	694.9	690.9	678.3	663.3	649.1	630.2	608.1	594.7	577.3	540.3
22.5°	756.4	754.0	747.7	736.6	724.1	709.8	690.1	662.5	647.6	631.0	586.8
25°	817.1	816.2	808.4	796.6	786.3	770.6	751.6	719.3	704.2	681.4	634.1
27.5°	880.2	878.7	870.7	858.1	850.2	835.3	811.6	780.0	761.9	739.8	687.0
30°	945.6	944.9	935.4	922.8	914.2	900.0	875.5	841.6	823.4	799.0	739.8
32.5°	1011.0	1011.0	1001.7	990.7	980.4	962.2	939.4	907.1	887.3	861.3	795.0
35°	1079.7	1075.7	1068.7	1058.5	1041.9	1023.8	1003.2	974.0	953.5	925.2	855.0
37.5°	1144.4	1144.4	1132.6	1124.0	1105.8	1085.3	1066.4	1041.9	1019.1	991.4	913.3
40°	1208.3	1209.1	1198.0	1187.0	1163.4	1144.4	1127.9	1108.1	1087.6	1059.3	977.3
42.5°	1269.8	1268.3	1258.0	1245.3	1219.4	1198.0	1187.7	1171.3	1156.3	1126.3	1038.7
45°	1326.6	1322.7	1314.8	1299.7	1269.8	1248.5	1244.6	1236.7	1221.0	1194.1	1101.0
47.5°	1370.7	1368.4	1365.3	1345.5	1314.8	1294.2	1294.2	1297.5	1285.7	1258.0	1159.5
50°	1407.0	1406.2	1404.7	1382.5	1349.5	1333.7	1340.1	1351.1	1343.3	1318.8	1211.4
52.5°	1431.6	1430.8	1433.1	1410.2	1377.9	1363.7	1378.7	1400.7	1394.4	1372.4	1261.2
55°	1441.0	1441.0	1448.1	1426.8	1394.4	1383.4	1407.8	1438.6	1437.9	1418.0	1299.0
57.5°	1437.1	1437.9	1450.4	1430.8	1400.7	1394.4	1426.8	1468.6	1471.7	1452.0	1330.6
60°	1418.8	1419.8	1437.1	1422.0	1396.0	1394.4	1435.4	1486.7	1493.0	1475.6	1348.7
62.5°	1384.2	1387.4	1408.7	1399.2	1377.9	1383.4	1432.3	1492.3	1500.9	1484.4	1355.8
63°	1374.7	1378.7	1401.6	1392.8	1373.2	1379.5	1429.9	1492.3	1501.7	1485.2	1355.8
65°	1336.1	1340.8	1366.9	1362.9	1348.7	1360.5	1416.5	1483.5	1495.4	1480.5	1348.7
67.5°	1273.8	1283.2	1313.2	1316.3	1309.3	1327.4	1388.9	1461.5	1474.1	1459.9	1327.4
70°	1198.8	1209.9	1248.5	1258.0	1256.4	1283.2	1348.7	1424.4	1437.9	1423.6	1291.1
72.5°	1118.4	1133.3	1168.8	1189.4	1199.6	1228.8	1299.0	1373.9	1387.4	1372.4	1243.1
75°	1030.9	1046.6	1090.9	1116.1	1131.8	1168.1	1237.5	1312.4	1324.2	1312.4	1182.3
77.5°	943.4	959.1	1004.0	1036.4	1060.8	1104.2	1172.8	1241.4	1250.2	1237.5	1111.2
80°	853.5	871.6	914.9	952.7	985.8	1029.2	1095.6	1157.8	1168.1	1151.5	1034.8
82.5°	764.3	780.0	829.0	873.1	908.6	951.9	1015.1	1073.5	1078.2	1061.6	950.4
85°	683.9	697.2	745.3	792.6	834.4	877.1	935.4	981.9	989.1	967.7	866.8
87.5°	608.1	618.3	668.7	715.3	757.9	805.2	857.3	894.4	894.4	877.8	779.2
90°	537.9	544.9	590.8	642.0	687.8	729.6	778.5	810.0	806.2	785.6	697.2
92.5°	470.1	478.8	523.7	572.6	619.2	662.5	702.0	723.3	717.8	696.4	618.3
95°	414.1	418.0	462.1	512.7	555.2	594.7	629.5	644.4	635.7	614.4	540.3
97.5°	362.8	365.9	404.6	452.8	498.4	534.8	558.5	567.8	559.2	537.9	476.4
100°	321.0	321.8	356.5	403.0	445.7	477.1	498.4	498.4	490.6	469.3	413.3
102.5°	280.0	281.6	310.0	356.5	396.7	424.4	440.9	439.3	425.1	403.8	358.9
105°	246.8	248.4	270.5	315.4	351.9	377.1	390.4	381.0	367.5	348.6	310.8
107.5°	217.7	218.5	235.8	276.1	310.8	334.5	341.6	331.3	316.3	298.2	271.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	194.8	194.1	207.5	242.1	275.3	295.0	299.0	286.3	271.3	256.3	234.3
112.5°	172.7	172.7	181.4	210.6	241.4	260.2	261.9	243.7	231.1	217.7	203.4
115°	154.6	153.8	160.1	183.0	211.4	227.2	225.6	209.0	197.2	186.2	176.7
117.5°	138.8	137.2	141.9	157.8	183.8	198.8	194.8	175.9	167.1	159.3	153.8
120°	124.7	123.8	126.2	137.2	157.8	169.6	165.6	149.0	141.2	137.2	134.1
122.5°	112.0	112.0	111.2	118.3	134.1	143.5	138.0	124.7	119.8	117.6	117.6
125°	100.9	100.9	99.4	101.7	112.0	119.8	115.2	104.2	100.9	100.9	101.7
127.5°	89.9	89.9	88.3	87.5	92.4	97.8	92.4	86.0	85.2	86.0	87.5
130°	79.6	78.8	77.2	74.2	75.0	77.2	73.3	70.2	71.0	73.3	75.0
132.5°	70.2	69.4	67.0	62.3	59.1	59.1	56.0	56.0	58.4	60.7	63.9
135°	60.7	60.0	57.6	52.0	46.6	43.3	41.0	44.1	47.3	49.7	52.9
137.5°	51.3	50.5	47.3	41.8	34.8	29.9	29.2	33.9	37.0	40.2	42.6
140°	41.8	41.0	37.8	32.3	24.5	18.9	18.9	25.2	28.4	30.8	33.9
142.5°	33.1	32.3	29.9	23.7	15.8	11.8	12.6	18.1	20.5	22.8	25.2
145°	24.5	24.5	22.1	16.6	9.5	5.6	7.1	11.8	14.2	15.8	18.1
147.5°	16.6	16.6	14.2	10.3	5.6	2.4	3.2	7.1	8.6	10.3	11.8
150°	10.3	10.3	8.6	5.6	2.4	0.0	1.5	3.2	4.7	5.6	7.1
152.5°	5.6	5.6	4.0	2.4	0.8	0.0	0.0	1.5	1.5	2.4	3.2
155°	2.4	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1	358.1
2.5°	359.7	357.3	351.9	347.8	343.1	339.1	336.7	332.8	330.5	331.3	330.5
5°	365.9	361.2	350.9	342.3	332.8	324.9	318.6	313.1	310.0	307.6	308.4
7.5°	376.2	369.1	354.1	339.9	325.7	313.9	304.4	297.3	291.0	289.4	288.7
10°	392.0	382.5	361.2	342.3	324.2	307.6	295.0	284.7	278.4	275.3	275.3
12.5°	414.1	400.7	373.8	348.6	325.7	305.3	289.4	276.9	269.8	266.6	265.8
15°	444.8	428.3	395.2	361.2	332.0	307.6	288.7	276.1	270.5	269.0	268.1
17.5°	480.3	462.1	421.2	381.8	344.7	313.9	295.8	285.5	279.1	276.1	275.3
20°	520.5	496.9	450.3	404.6	362.8	330.5	310.0	295.8	287.9	284.0	283.2
22.5°	561.6	535.6	482.0	429.1	383.3	353.4	324.2	306.8	295.8	291.0	289.4
25°	605.8	576.6	514.3	455.1	408.5	374.6	341.6	316.3	303.6	298.2	298.2
27.5°	653.1	619.2	548.2	482.0	434.7	394.3	358.1	326.5	311.5	305.3	304.4
30°	702.7	664.9	582.9	511.2	459.0	412.5	372.2	337.6	319.5	312.4	311.5
32.5°	756.4	713.0	621.4	542.6	482.0	429.1	384.9	347.8	326.5	317.8	317.1
35°	809.2	760.3	657.7	573.4	502.4	443.3	395.2	358.1	332.0	323.4	322.6
37.5°	867.6	810.8	696.4	603.3	521.3	454.3	403.8	365.9	337.6	328.1	326.5
40°	923.6	860.5	732.7	630.2	537.1	464.6	411.0	373.0	342.3	332.0	330.5
42.5°	978.8	911.0	768.9	655.4	550.5	470.9	415.6	377.8	347.0	335.2	332.8
45°	1034.0	958.3	806.2	675.9	560.8	476.4	418.8	381.8	350.9	336.7	335.2
47.5°	1085.3	1004.8	839.9	694.1	567.8	478.8	420.4	383.3	354.1	337.6	335.2
50°	1134.2	1045.1	868.4	707.5	572.6	478.8	420.4	384.1	355.7	337.6	336.0
52.5°	1176.7	1079.7	891.2	716.2	573.4	476.4	418.0	383.3	355.7	336.0	333.7
55°	1209.1	1108.1	907.8	720.1	571.0	472.4	414.1	381.0	354.9	333.7	331.3
57.5°	1235.1	1127.9	918.1	719.3	565.5	466.1	409.4	377.8	352.6	329.6	327.3
60°	1250.9	1138.2	919.6	713.8	557.7	458.3	403.0	373.0	349.4	325.7	322.6
62.5°	1253.3	1137.3	914.2	702.7	545.8	448.7	395.2	366.8	343.8	319.5	316.3
63°	1252.4	1136.6	911.0	700.4	543.4	447.2	394.3	365.9	343.1	317.8	315.4
65°	1243.8	1127.1	899.1	687.8	532.4	437.7	387.3	359.7	338.3	313.1	309.2
67.5°	1221.0	1105.8	877.1	666.5	515.8	425.1	377.1	351.9	330.5	305.3	301.3
70°	1186.2	1075.7	847.1	642.8	498.4	411.7	365.9	341.6	321.8	296.5	291.8
72.5°	1139.7	1032.4	812.4	615.2	478.0	396.7	353.4	330.5	310.8	287.2	280.0
75°	1083.8	981.9	773.8	585.2	455.8	381.0	340.7	319.5	299.7	276.1	269.0
77.5°	1016.6	924.4	725.6	553.7	434.7	364.4	326.5	306.0	287.2	263.5	256.3
80°	944.9	860.5	677.5	518.2	411.0	347.0	312.4	291.8	272.9	250.9	242.1
82.5°	869.1	791.9	626.3	484.2	387.3	328.9	297.3	276.9	258.7	237.4	229.6
85°	792.6	723.3	576.6	450.3	362.8	311.5	281.6	262.7	242.9	222.5	214.4
87.5°	717.0	656.2	528.5	414.8	339.9	294.2	265.8	246.8	227.2	207.5	201.1
90°	644.4	591.5	478.0	381.8	316.3	275.3	249.9	231.1	212.2	192.4	186.2
92.5°	571.9	526.1	432.2	351.9	294.2	258.0	234.3	215.3	195.6	176.7	172.7
95°	507.2	467.7	388.9	319.5	272.9	241.4	218.5	200.4	179.8	161.7	159.3
97.5°	446.5	412.5	346.3	291.8	251.7	223.2	202.6	183.8	163.3	146.7	145.1
100°	392.0	364.4	310.0	263.5	230.3	206.6	187.7	168.8	148.3	134.1	132.5
102.5°	342.3	320.2	276.1	238.1	211.4	190.1	171.1	153.0	133.3	120.6	120.6
105°	299.7	280.0	244.5	214.4	191.6	172.7	155.3	137.2	117.6	107.3	107.3
107.5°	259.5	246.1	216.9	191.6	173.5	157.0	140.4	122.3	103.4	95.4	96.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	226.3	215.3	190.8	172.0	157.0	141.9	126.2	108.0	89.9	84.3	85.2
112.5°	197.2	188.5	168.0	153.0	140.4	127.8	112.0	93.9	78.1	75.0	75.7
115°	172.0	164.9	149.0	135.7	125.4	113.5	99.4	81.3	67.8	66.2	66.2
117.5°	149.9	144.3	130.9	120.6	111.2	100.9	86.8	70.2	58.4	58.4	58.4
120°	131.7	127.0	116.0	106.5	98.6	88.3	75.0	59.1	50.5	51.3	51.3
122.5°	114.4	111.2	100.9	93.9	86.0	77.2	63.9	48.9	43.3	44.9	45.8
125°	100.2	97.0	89.1	81.3	74.2	65.4	52.9	41.0	37.8	39.5	39.5
127.5°	86.0	84.3	77.2	70.2	63.9	55.1	43.3	33.9	33.1	34.8	34.8
130°	74.2	72.5	67.0	59.1	52.9	44.9	34.8	27.7	27.7	29.2	29.2
132.5°	63.1	62.3	56.9	49.7	43.3	35.5	27.7	22.1	23.7	25.2	25.2
135°	52.0	52.0	47.3	40.2	33.9	26.8	20.5	18.1	19.6	21.3	21.3
137.5°	42.6	41.8	37.8	31.5	25.2	19.6	15.0	14.2	16.6	18.1	18.1
140°	33.9	33.1	29.9	24.5	18.1	13.4	10.3	11.0	13.4	14.2	15.0
142.5°	25.2	25.2	22.1	18.1	11.8	7.8	6.3	8.6	10.3	11.0	11.8
145°	18.1	18.1	15.8	11.8	7.1	4.0	4.0	6.3	7.8	8.6	8.6
147.5°	11.8	11.8	10.3	7.1	4.0	1.5	2.4	4.0	5.6	6.3	6.3
150°	7.1	6.3	5.6	3.2	1.5	0.0	0.8	1.5	3.2	4.0	3.2
152.5°	3.2	3.2	2.4	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)