

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: P266477

Luminaire Tested: **UTLD-AF24-80-D-U-T2U-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-28)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T2U-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5968.4 lumens
Efficiency: N/A
Efficacy: 71.9 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): 83
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



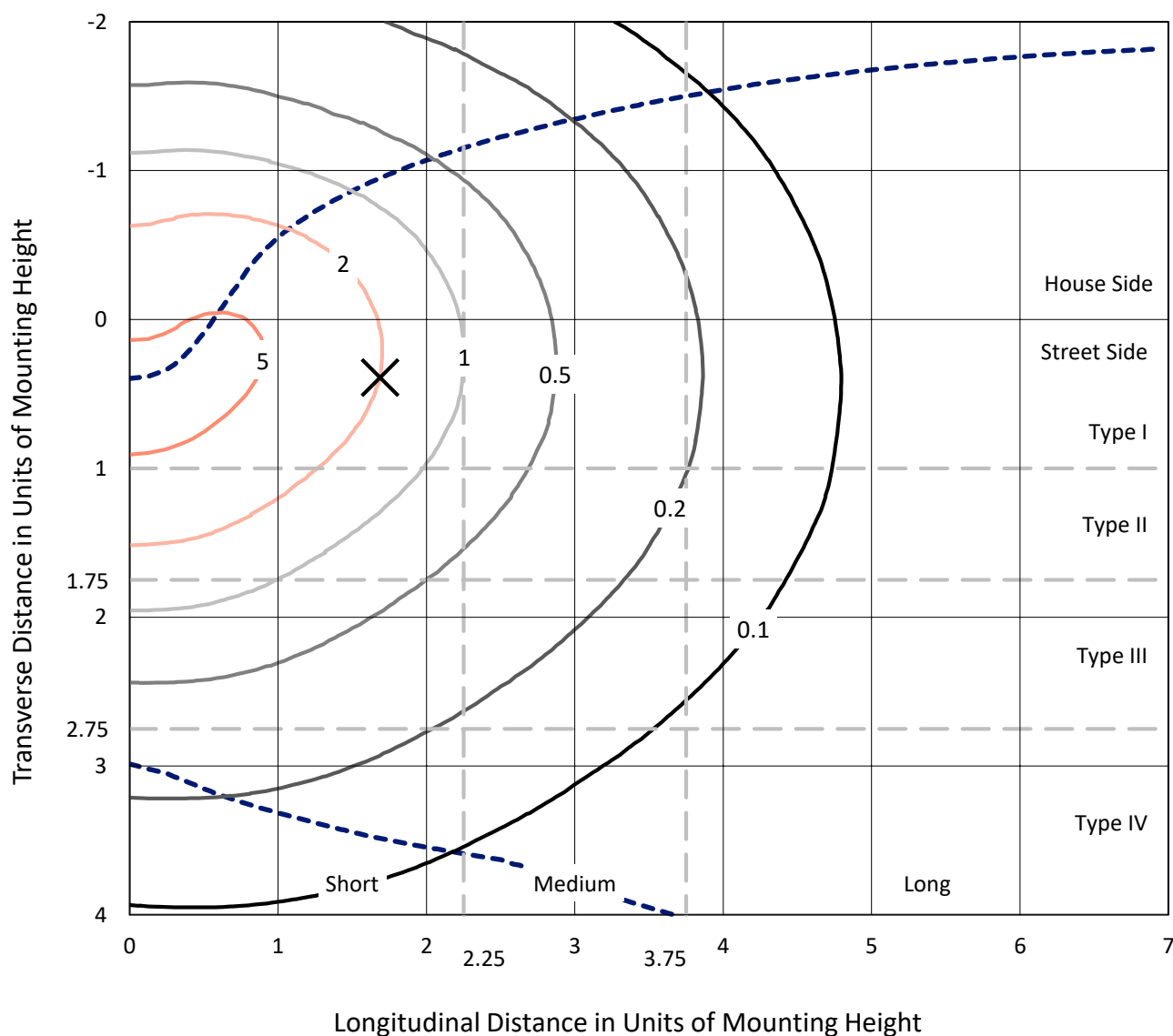
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

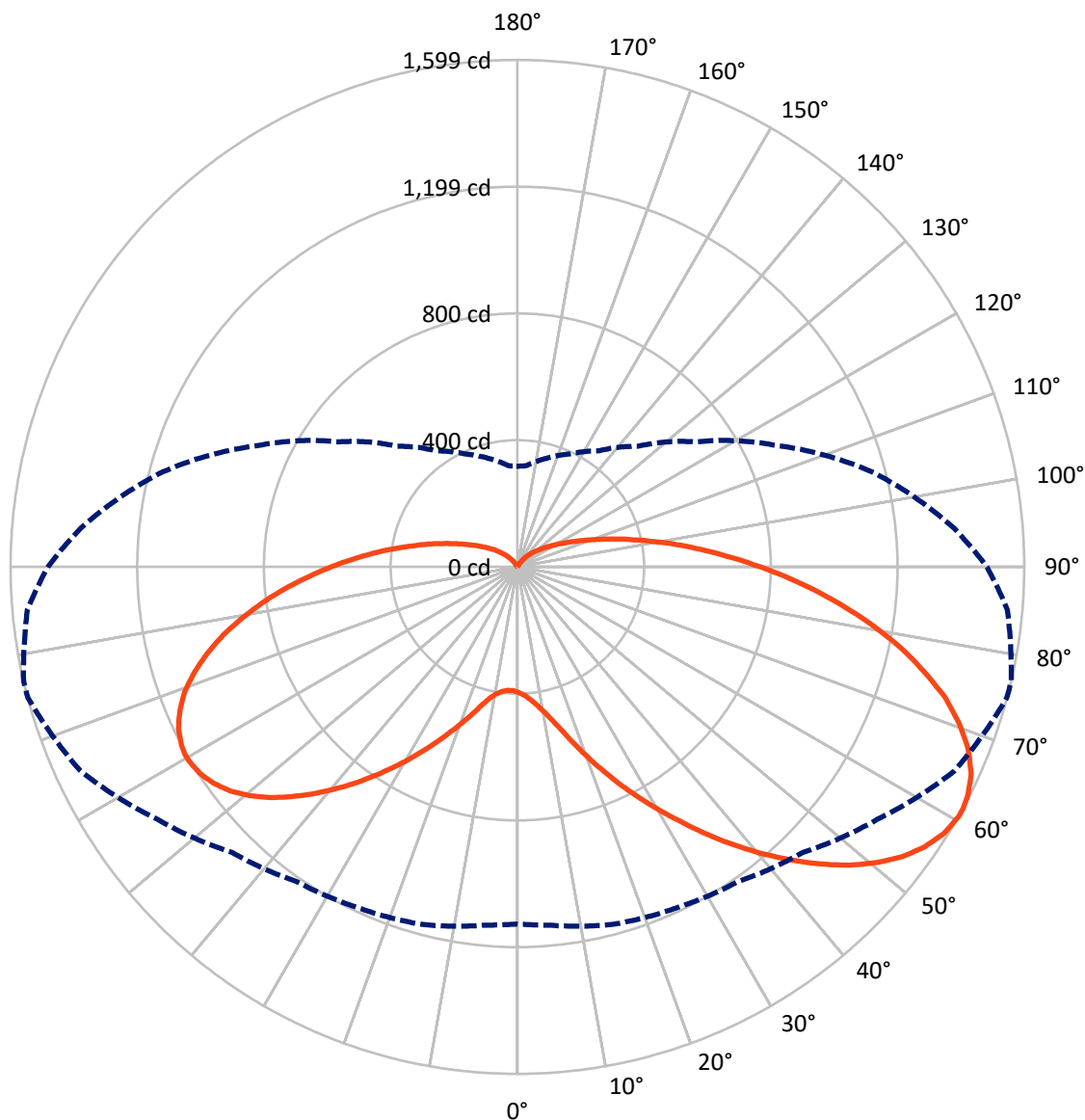


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral

- - - Horizontal Cone Through 60-Deg Vertical

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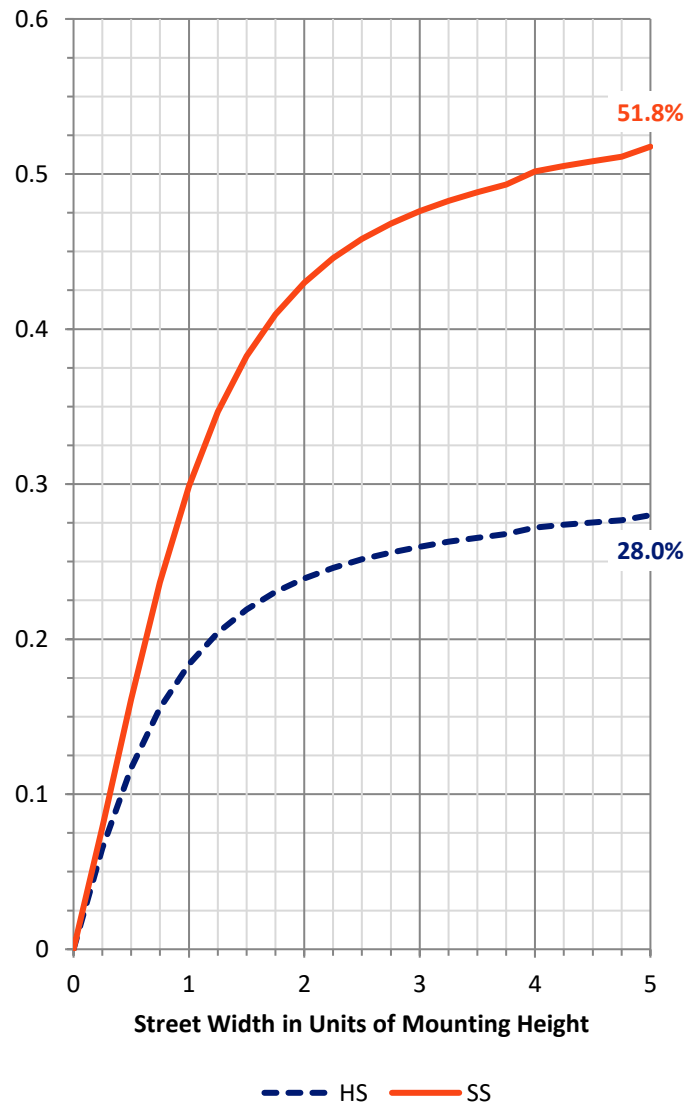
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.9	381.2	2156.1
	% Fixture	29.7	6.4	36.1
Street Side	Lumens	3274.2	538.0	3812.3
	% Fixture	54.9	9.0	63.9
Total	Lumens	5049.1	919.2	5968.4
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.7
10°-20°	139.0	2.3
20°-30°	297.8	5.0
30°-40°	513.4	8.6
40°-50°	745.4	12.5
50°-60°	917.3	15.4
60°-70°	950.5	15.9
70°-80°	828.7	13.9
80°-90°	617.7	10.3
90°-100°	408.4	6.8
100°-110°	249.2	4.2
110°-120°	142.8	2.4
120°-130°	75.5	1.3
130°-140°	33.4	0.6
140°-150°	9.3	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5049.1	84.6
0°-180°	5968.4	100.0

Coefficient of Utilization



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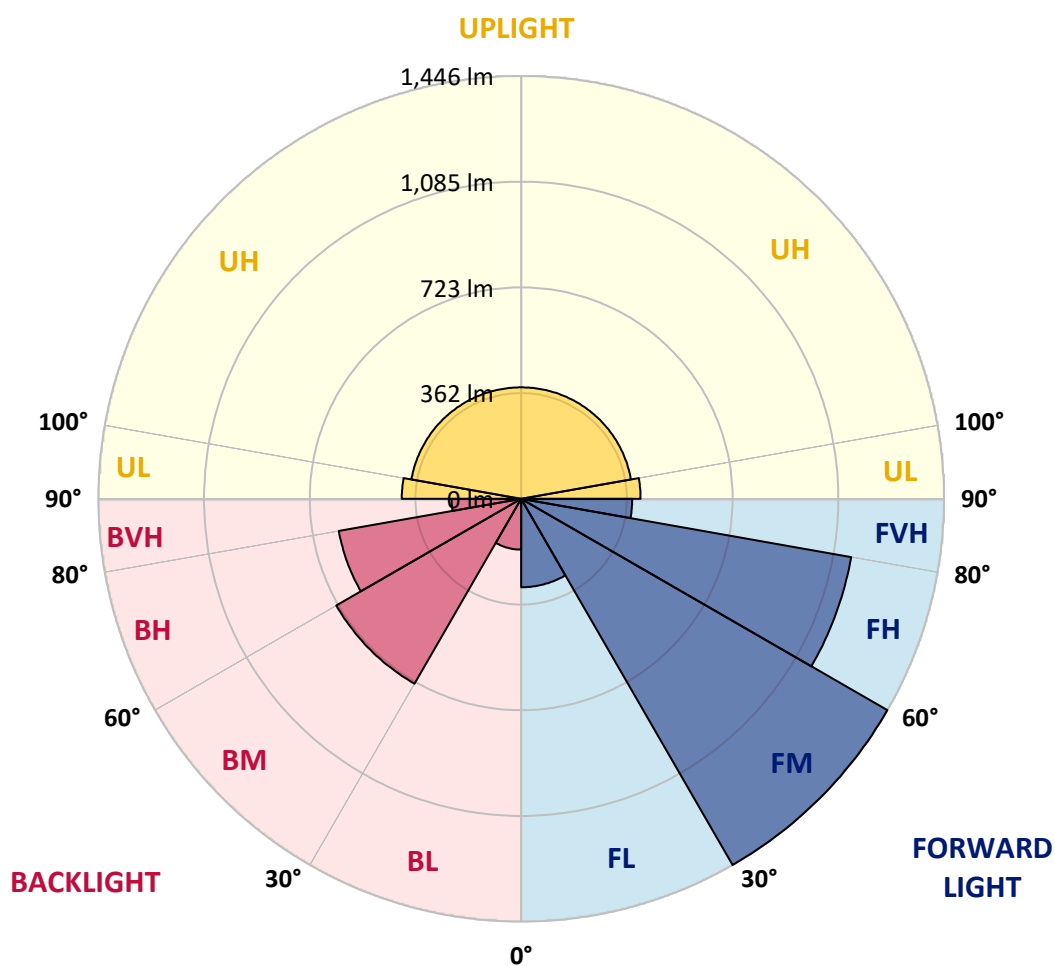
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.4	5.1			
FM	(30°-60°)	1446.0	24.2			
FH	(60°-80°)	1146.1	19.2			G1/1800
FVH	(80°-90°)	379.7	6.4			G3/500
BL	(0°-30°)	173.8	2.9	B1/500		
BM	(30°-60°)	730.0	12.2	B1/1000		
BH	(60°-80°)	633.1	10.6	B2/1000		G2/1000
BVH	(80°-90°)	238.0	4.0			G3/500
UL	(90°-100°)	408.4	6.8		U3/500	
UH	(100°-180°)	381.2	6.4		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°	75°	77°	85°
0°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	430.3	430.3	428.8	428.0	424.8	420.9	417.1	411.7	406.3	404.6	401.5
5°	467.5	467.5	466.0	462.1	456.6	449.6	441.1	432.5	421.8	419.4	410.9
7.5°	509.2	507.8	503.9	500.0	492.4	482.2	470.5	457.3	442.7	439.6	427.1
10°	551.2	551.2	547.2	541.0	531.7	518.6	504.7	488.4	469.0	465.1	448.9
12.5°	599.3	597.7	591.5	586.9	576.1	561.4	545.8	525.6	502.3	498.5	477.5
15°	650.5	649.7	644.3	634.2	621.7	607.9	591.5	569.7	545.0	538.9	515.5
17.5°	707.8	703.2	700.0	689.2	676.1	658.2	645.8	623.2	596.1	589.2	560.5
20°	760.5	761.3	754.2	745.1	732.6	720.3	702.4	682.3	652.8	643.5	610.8
22.5°	820.2	820.2	813.2	804.0	791.4	785.3	765.1	744.2	708.6	701.5	665.1
25°	882.2	879.9	873.0	864.3	858.2	850.4	831.8	806.9	770.6	763.6	722.5
27.5°	939.5	940.3	931.8	924.9	924.0	913.9	898.5	872.2	837.3	827.2	783.1
30°	998.5	999.3	993.0	984.5	985.4	979.2	965.9	938.8	905.5	893.9	846.6
32.5°	1057.5	1055.9	1047.3	1046.5	1044.2	1039.6	1029.5	1012.5	976.0	963.6	914.7
35°	1110.1	1110.1	1101.6	1104.7	1100.1	1099.3	1096.2	1082.9	1050.5	1038.0	985.4
37.5°	1159.0	1158.3	1153.6	1154.3	1151.2	1150.5	1155.8	1154.3	1124.0	1114.0	1059.7
40°	1204.0	1199.2	1195.5	1198.5	1195.5	1200.0	1213.3	1222.6	1196.9	1189.1	1134.2
42.5°	1234.9	1233.5	1231.8	1237.2	1232.7	1243.4	1264.5	1286.9	1271.5	1263.6	1208.6
45°	1259.8	1256.6	1259.8	1265.3	1262.1	1276.0	1313.2	1347.4	1347.4	1336.5	1279.9
47.5°	1269.8	1269.0	1276.9	1281.4	1279.9	1302.5	1351.9	1404.0	1414.8	1406.2	1349.0
50°	1267.5	1267.5	1279.9	1286.9	1288.3	1318.0	1380.7	1449.0	1473.7	1466.8	1410.2
52.5°	1252.7	1252.7	1271.5	1279.9	1286.2	1323.4	1400.1	1487.0	1523.3	1519.5	1462.9
55°	1224.8	1224.1	1248.1	1259.0	1272.2	1318.0	1407.9	1511.7	1562.2	1559.0	1507.8
57.5°	1181.5	1183.0	1212.4	1229.5	1246.6	1300.8	1404.0	1524.2	1588.5	1586.9	1536.6
60°	1126.5	1134.2	1167.4	1186.9	1212.4	1273.6	1387.7	1521.8	1598.5	1599.3	1552.0
61°	1103.2	1110.9	1145.0	1168.2	1195.5	1260.5	1378.4	1517.1	1597.7	1599.3	1553.6
62.5°	1066.0	1070.6	1110.9	1138.8	1168.2	1236.4	1359.8	1504.8	1592.3	1594.6	1551.3
65°	996.2	1004.8	1045.7	1080.8	1115.5	1190.0	1319.4	1473.0	1569.9	1573.7	1533.3
67.5°	919.4	929.4	976.7	1017.2	1057.5	1136.4	1269.8	1427.1	1529.5	1534.1	1499.4
70°	843.5	855.8	905.5	945.7	995.4	1076.8	1209.4	1368.3	1474.5	1479.1	1449.0
72.5°	766.0	779.9	831.0	877.6	927.9	1011.0	1141.9	1298.5	1405.5	1411.6	1383.7
75°	688.5	706.2	754.2	807.8	858.2	943.5	1072.1	1224.1	1321.0	1327.2	1305.4
77.5°	618.7	634.2	681.5	737.2	792.2	873.7	996.2	1135.6	1236.4	1239.7	1220.2
80°	548.1	564.3	615.5	668.2	726.4	804.7	917.9	1046.5	1134.2	1142.7	1122.5
82.5°	485.4	501.6	549.7	607.1	662.8	738.0	837.9	955.1	1032.6	1041.9	1028.0
85°	432.5	444.2	491.6	546.6	600.7	672.1	768.3	869.7	939.5	941.2	927.2
87.5°	379.9	392.3	437.2	490.7	545.8	610.8	693.0	780.6	837.3	842.7	828.7
90°	336.4	344.2	386.8	439.6	493.1	552.7	624.1	701.5	747.3	747.3	736.5
92.5°	298.4	302.3	344.9	395.3	446.5	497.8	560.5	620.2	659.7	658.9	646.5
95°	263.7	268.2	303.8	352.8	402.4	449.6	500.9	548.1	577.5	579.0	564.3
97.5°	232.7	235.6	269.0	317.1	361.3	405.5	448.1	486.1	505.4	506.3	495.3
100°	207.8	207.8	239.6	282.2	324.8	364.4	400.9	429.5	438.1	437.2	428.0
102.5°	186.0	184.5	211.6	252.8	292.3	326.4	355.8	374.5	381.4	379.1	372.8
105°	165.1	166.6	187.6	226.4	262.0	292.3	314.8	330.2	330.2	328.7	322.5
107.5°	149.6	148.8	165.1	200.9	234.8	261.2	279.2	286.7	284.6	282.2	278.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
110°	134.0	134.0	146.6	179.8	209.3	233.3	245.7	250.4	243.4	242.6	241.9
112.5°	120.9	120.9	131.1	158.9	186.8	207.0	217.1	217.8	210.2	209.3	210.2
115°	110.9	110.9	116.3	141.2	166.6	184.5	193.0	189.2	181.4	180.6	183.0
117.5°	100.8	100.8	105.5	123.2	147.3	163.6	169.1	163.6	156.7	156.7	159.7
120°	92.3	92.3	93.9	107.7	129.4	143.4	147.3	141.2	135.6	135.6	138.8
122.5°	84.5	83.7	84.5	93.9	111.6	124.9	126.3	120.9	117.0	117.9	122.4
125°	76.7	76.7	75.9	81.3	96.1	107.0	108.5	102.3	102.3	102.3	106.2
127.5°	69.8	69.8	68.2	70.5	81.3	90.6	90.6	86.1	87.7	89.1	92.3
130°	63.6	63.6	62.1	62.1	67.5	75.2	75.2	72.1	75.9	76.7	79.9
132.5°	57.3	56.7	55.1	52.7	55.1	59.6	59.6	58.8	65.0	65.8	68.2
135°	51.2	50.3	48.9	44.9	44.1	45.8	45.8	48.1	54.3	55.1	58.1
137.5°	44.1	44.1	42.0	38.0	33.3	33.3	33.3	38.0	44.1	45.8	47.3
140°	38.0	38.0	35.7	31.0	24.9	22.5	23.3	29.5	35.7	36.4	38.0
142.5°	31.0	31.0	28.7	24.1	17.8	13.1	14.7	20.9	26.4	27.8	29.5
145°	24.1	24.1	21.6	17.1	10.9	6.9	8.5	14.7	18.7	19.4	20.9
147.5°	17.8	17.8	15.5	11.6	6.2	2.3	4.6	8.5	12.3	13.1	14.7
150°	11.6	11.6	10.2	6.2	3.1	0.0	1.5	4.6	6.9	7.7	8.5
152.5°	6.2	6.2	4.6	3.1	0.8	0.0	0.0	1.5	3.1	3.1	3.9
155°	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.5
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	0.8	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°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	398.5	395.3	389.1	384.6	379.1	374.5	370.6	367.4	366.7	364.4	365.2
5°	405.5	400.0	388.3	378.4	367.4	358.2	350.3	344.9	341.0	339.6	338.0
7.5°	418.6	409.3	392.3	376.0	360.5	346.6	334.1	326.4	320.2	317.1	317.1
10°	437.2	425.5	401.5	379.9	358.2	339.6	324.1	311.6	303.8	300.0	300.8
12.5°	462.7	447.4	417.8	388.3	362.0	338.0	317.1	303.8	294.6	290.0	290.0
15°	499.3	482.2	442.7	404.6	369.1	339.6	317.1	302.3	295.4	292.3	291.5
17.5°	543.5	520.9	476.0	430.3	385.4	348.8	326.4	312.4	302.3	298.4	297.7
20°	588.4	562.8	510.1	458.9	408.5	369.1	341.9	323.3	310.1	304.6	303.8
22.5°	639.6	610.0	548.1	487.6	433.3	395.3	357.3	333.4	317.8	310.9	310.1
25°	692.2	659.7	589.9	521.7	466.7	420.9	376.7	343.4	324.8	316.4	315.6
27.5°	748.1	713.3	633.3	555.8	498.5	445.0	394.5	352.8	331.0	321.8	321.0
30°	810.1	768.3	680.6	595.3	530.3	467.5	411.7	363.5	337.3	326.4	324.8
32.5°	874.5	828.0	728.7	637.3	559.7	487.6	425.5	375.2	343.4	331.0	330.2
35°	942.0	890.0	778.3	678.3	586.1	505.4	438.1	385.4	348.1	334.9	333.4
37.5°	1012.5	955.1	830.3	717.0	611.7	520.9	448.1	393.7	352.8	337.3	335.6
40°	1082.9	1017.2	881.4	756.6	634.9	534.1	456.6	400.0	355.8	339.6	338.0
42.5°	1151.2	1083.7	933.3	793.1	655.0	544.3	462.7	405.5	359.0	341.0	338.8
45°	1217.9	1147.3	982.9	824.0	672.1	552.0	466.7	408.5	362.8	341.0	338.8
47.5°	1284.5	1207.1	1031.9	851.2	684.5	557.4	468.2	410.0	365.2	340.3	338.0
50°	1345.0	1260.5	1073.7	875.3	693.9	558.9	467.5	409.3	365.9	338.8	335.6
52.5°	1394.7	1307.8	1108.6	892.2	699.3	558.1	465.1	407.8	365.2	335.6	333.4
55°	1437.3	1344.3	1134.2	903.2	699.3	554.3	461.3	404.6	362.0	331.8	328.7
57.5°	1465.1	1371.4	1151.2	907.7	696.1	547.2	454.4	399.2	359.0	326.4	323.3
60°	1481.5	1384.6	1158.3	904.8	687.7	538.1	446.5	393.1	354.3	320.2	317.1
61°	1483.0	1386.2	1158.3	901.5	683.8	534.1	443.5	390.8	352.0	317.8	314.0
62.5°	1481.5	1384.6	1154.3	894.6	676.1	527.1	437.2	385.4	347.4	312.4	310.1
65°	1465.9	1369.8	1138.8	876.7	658.9	513.2	426.3	376.7	339.6	304.6	300.8
67.5°	1432.6	1340.5	1110.9	852.0	638.8	496.9	413.9	366.7	331.0	295.4	290.7
70°	1384.6	1297.0	1076.0	823.2	616.2	479.1	400.0	355.1	320.2	286.1	279.8
72.5°	1324.9	1244.2	1027.2	786.8	589.9	460.6	385.4	342.7	308.6	275.2	267.4
75°	1250.4	1176.8	973.0	746.5	560.5	438.8	369.8	328.7	295.4	263.7	255.1
77.5°	1168.2	1102.4	913.9	702.4	531.1	417.8	352.8	313.1	281.3	250.4	241.9
80°	1078.3	1021.0	847.3	655.9	500.0	396.2	335.6	298.4	267.4	237.2	227.1
82.5°	986.1	935.0	780.6	608.5	466.7	373.6	317.1	282.2	252.0	223.3	212.4
85°	892.2	848.1	713.3	559.7	433.3	351.1	300.0	265.9	235.6	208.5	199.2
87.5°	799.2	761.3	644.3	513.2	403.1	329.5	282.2	249.5	220.2	193.9	184.5
90°	712.4	679.8	580.7	469.9	372.8	307.0	264.3	233.3	204.6	178.4	172.0
92.5°	630.3	602.4	519.4	424.1	342.7	285.3	246.6	216.3	187.6	163.6	159.7
95°	555.8	529.6	463.5	383.8	314.8	265.9	229.4	200.9	172.0	149.6	146.6
97.5°	483.0	466.7	411.7	344.9	287.5	245.0	212.4	185.3	157.4	136.5	134.8
100°	422.6	405.5	361.3	309.3	262.8	226.4	196.1	169.8	143.4	124.1	123.2
102.5°	367.4	355.8	318.5	279.2	238.8	206.3	179.8	155.0	129.4	112.4	112.4
105°	321.0	310.1	282.2	248.1	215.6	189.2	163.6	139.5	115.5	100.8	101.6
107.5°	276.8	269.9	246.6	219.4	193.9	171.3	148.1	124.9	101.6	89.9	90.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	241.0	234.1	216.3	196.1	174.5	155.0	133.4	110.9	88.4	81.3	81.3
112.5°	209.3	204.6	189.9	173.6	156.7	139.5	120.2	97.6	77.6	72.1	72.9
115°	183.0	179.1	166.6	154.2	140.3	125.7	107.0	85.2	67.5	65.0	65.0
117.5°	158.9	156.7	146.6	135.6	124.9	111.6	94.6	73.7	58.1	58.1	58.1
120°	138.8	136.5	128.6	119.4	110.1	98.5	81.3	62.8	51.2	51.2	51.9
122.5°	121.7	120.2	112.4	105.5	96.8	85.2	69.8	52.7	44.9	45.8	45.8
125°	106.2	104.7	99.3	91.4	83.7	72.9	58.8	43.4	38.7	40.3	40.3
127.5°	92.3	91.4	86.1	79.1	71.3	62.1	48.1	36.4	34.1	35.7	35.7
130°	80.6	79.9	74.4	67.5	60.5	50.3	38.7	30.3	29.5	31.0	31.0
132.5°	69.0	68.2	63.6	56.7	49.6	40.3	30.3	24.1	25.6	27.0	27.0
135°	58.1	57.3	54.3	46.5	40.3	31.8	23.3	20.1	21.6	23.3	23.3
137.5°	48.1	47.3	44.1	37.2	30.3	23.3	17.1	16.3	17.8	19.4	19.4
140°	38.7	38.0	34.9	28.7	21.6	16.3	11.6	13.1	14.7	16.3	16.3
142.5°	29.5	29.5	27.0	21.6	14.7	10.2	7.7	10.2	11.6	13.1	13.1
145°	21.6	21.6	18.7	14.7	8.5	5.4	4.6	6.9	9.3	10.2	10.2
147.5°	14.7	14.7	12.3	9.3	4.6	2.3	3.1	4.6	6.2	6.9	7.7
150°	8.5	8.5	6.9	4.6	2.3	0.8	0.8	3.1	3.9	4.6	4.6
152.5°	3.9	3.9	3.1	1.5	0.8	0.8	0.8	0.8	2.3	2.3	2.3
155°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.8
157.5°	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	0.8	0.8	0.8	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)