

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: P240425

Luminaire Tested: **UTLD-AF24-30-D-U-T3-TL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-30)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-T3-TL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3151.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 31
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

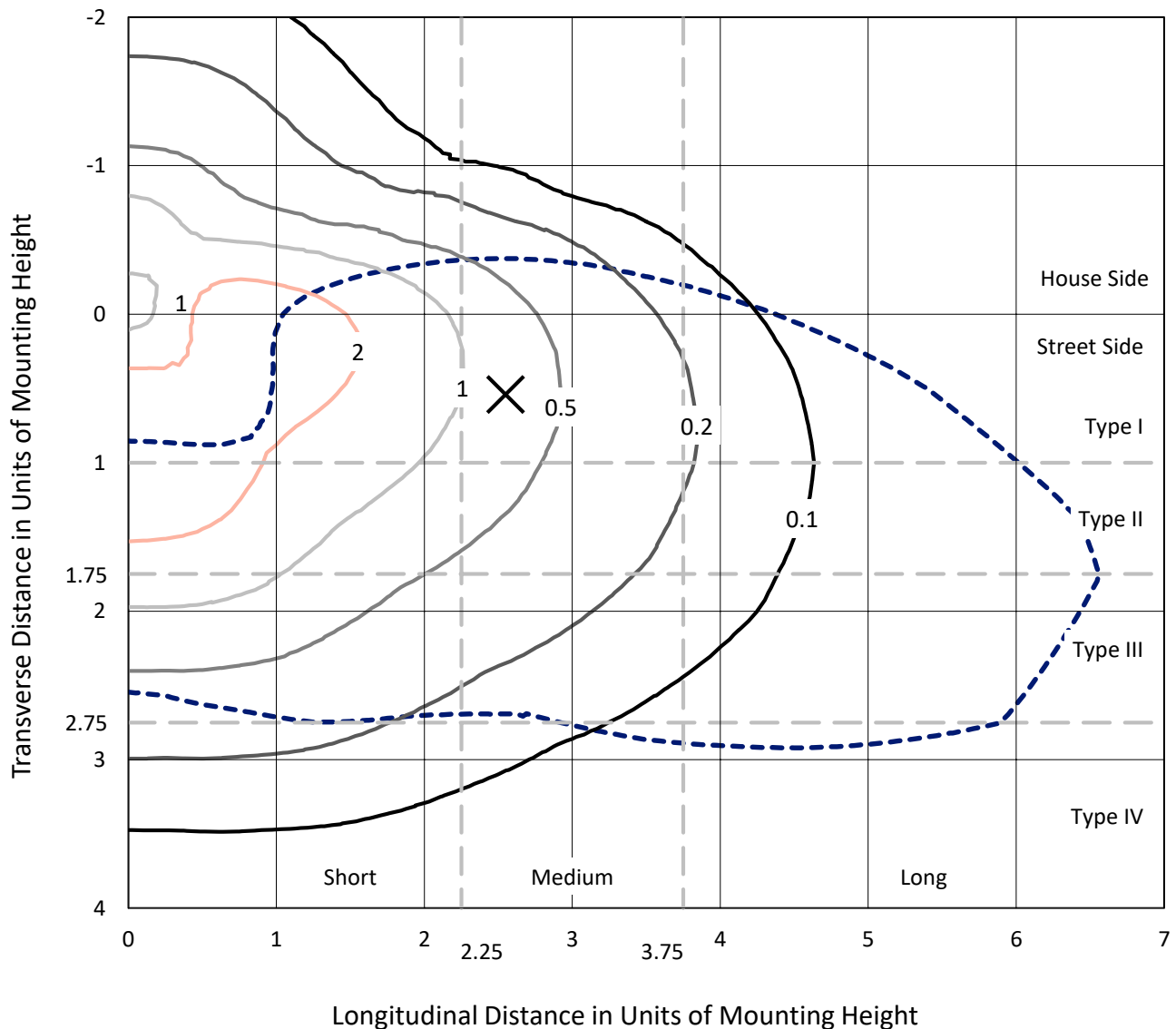


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

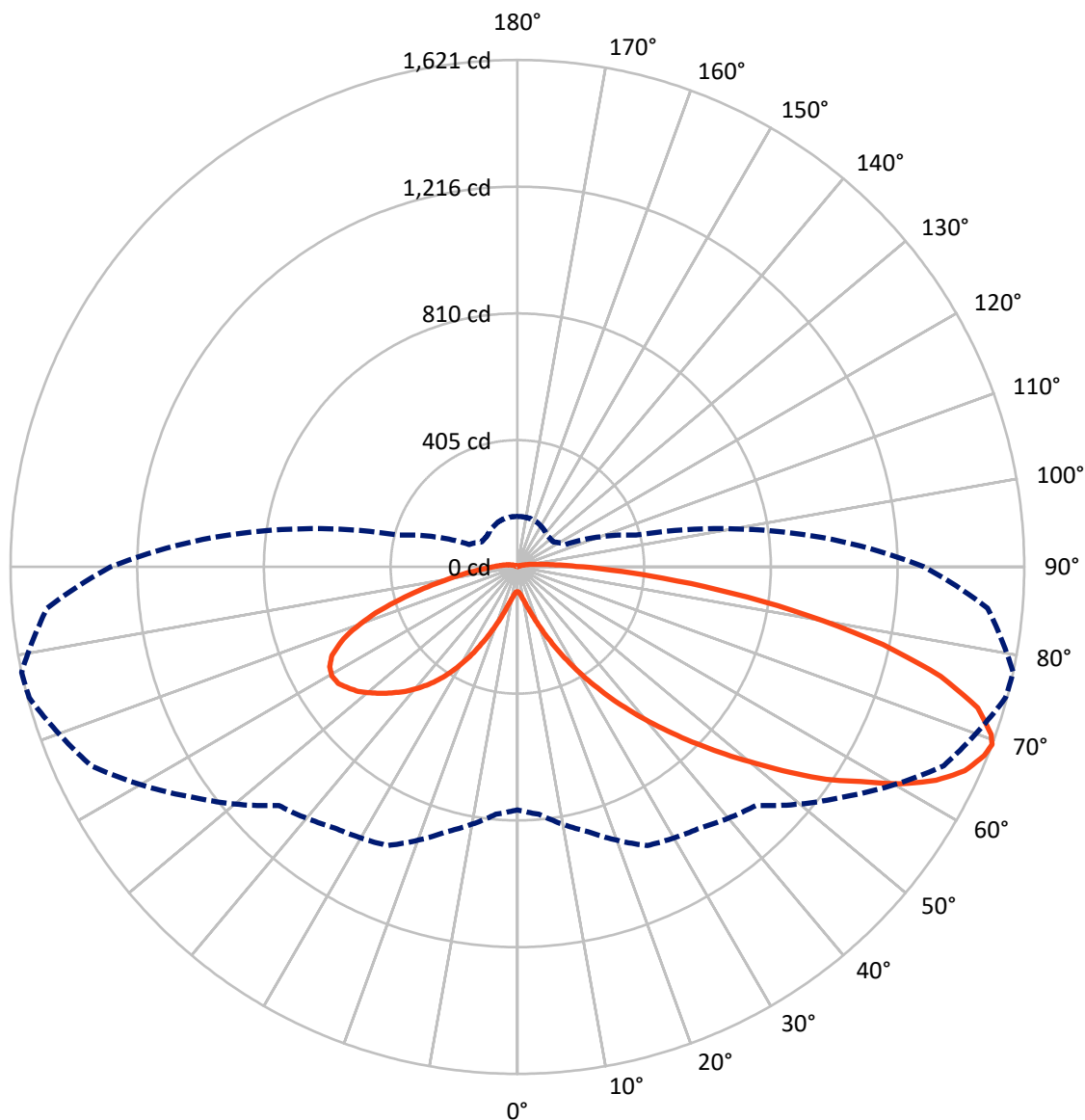


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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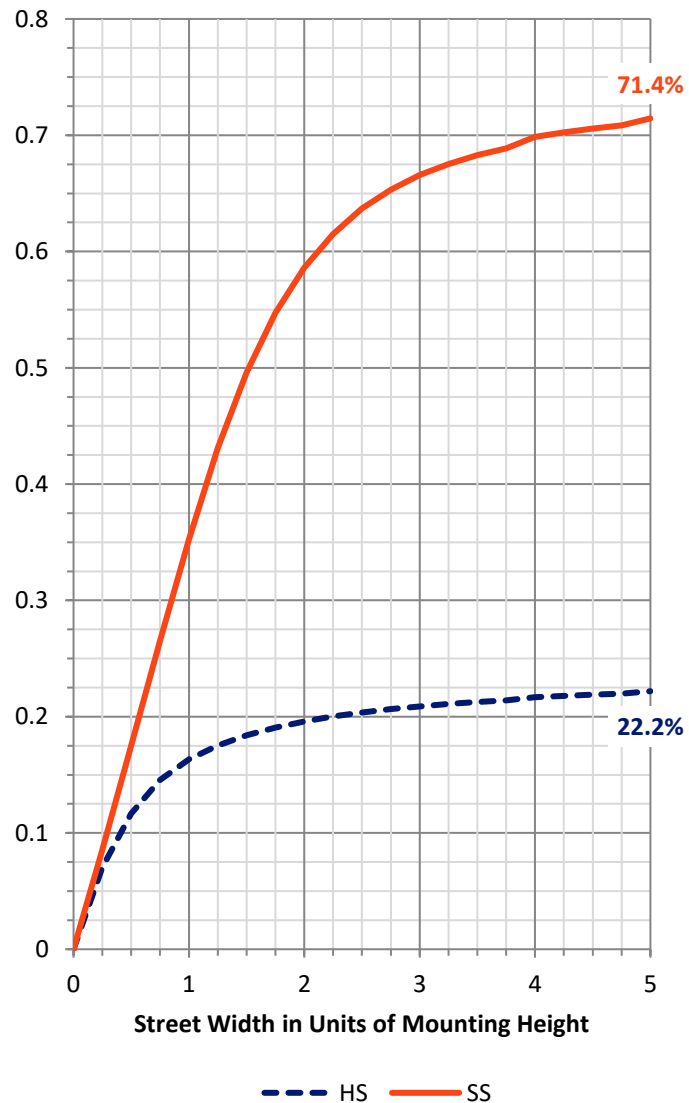
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	732.1	55.0	787.1
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	2304.1	60.4	2364.6
	% Fixture	73.1	1.9	75.0
Total	Lumens	3036.3	115.4	3151.7
	% Fixture	96.3	3.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.3
10°-20°	40.5	1.3
20°-30°	115.5	3.7
30°-40°	245.4	7.8
40°-50°	425.5	13.5
50°-60°	637.0	20.2
60°-70°	758.2	24.1
70°-80°	578.3	18.3
80°-90°	227.2	7.2
90°-100°	66.7	2.1
100°-110°	27.0	0.9
110°-120°	12.2	0.4
120°-130°	5.9	0.2
130°-140°	2.8	0.1
140°-150°	0.8	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3036.3	96.3
0°-180°	3151.7	100.0

Coefficient of Utilization



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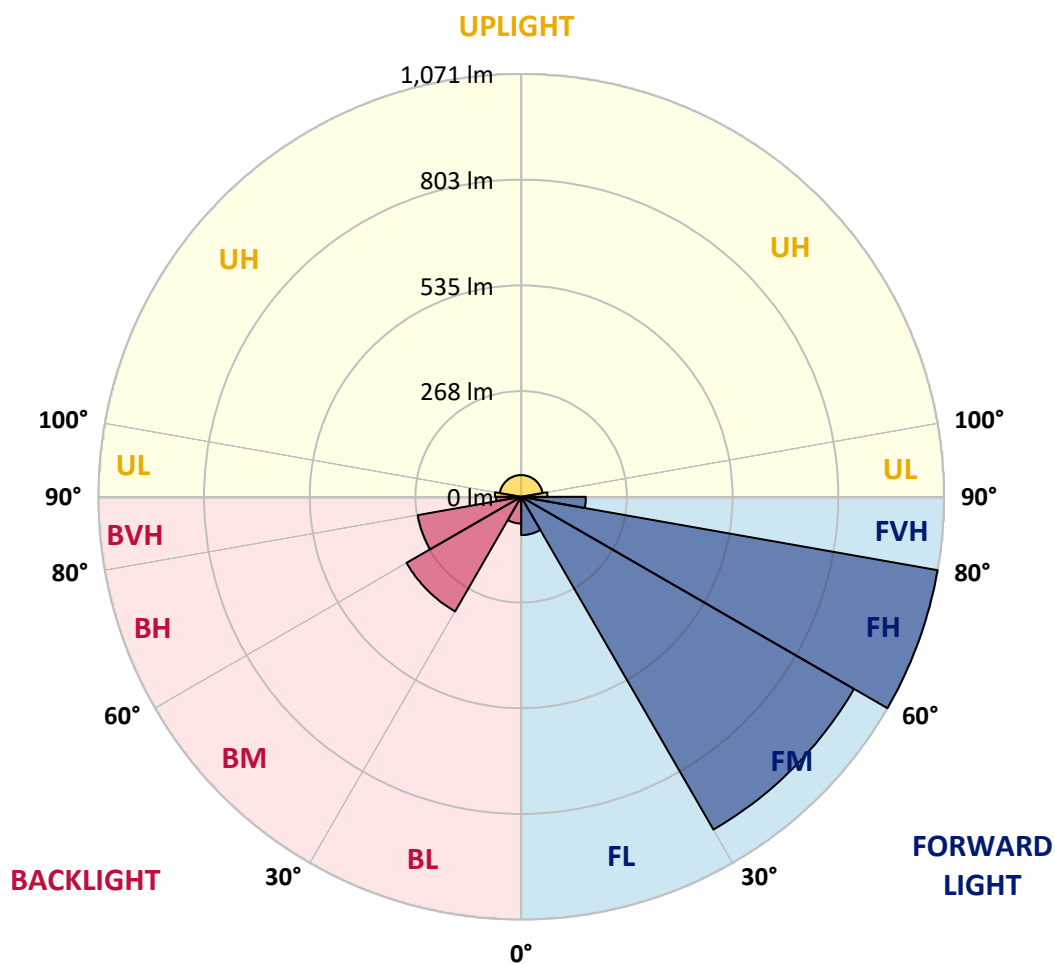
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.0	3.1			
FM	(30°-60°)	972.9	30.9			
FH	(60°-80°)	1070.6	34.0			G1/1800
FVH	(80°-90°)	163.7	5.2			G2/225
BL	(0°-30°)	67.7	2.1	B0/110		
BM	(30°-60°)	335.0	10.6	B1/1000		
BH	(60°-80°)	265.9	8.4	B1/500		G1/500
BVH	(80°-90°)	63.5	2.0			G1/100
UL	(90°-100°)	66.7	2.1		U3/500	
UH	(100°-180°)	55.0	1.7		U3/500	

BUG Rating: B1-U3-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	85.5	85.5	85.1	85.1	84.8	84.0	82.8	81.9	81.5	81.5	80.8
5°	95.1	95.1	94.3	94.3	93.1	92.0	90.3	88.4	87.2	86.7	85.5
7.5°	107.8	107.4	107.0	105.9	104.6	102.3	100.2	98.3	95.9	95.5	93.9
10°	124.2	123.4	123.4	121.7	119.4	116.6	113.0	110.2	107.8	107.4	105.9
12.5°	145.7	144.8	143.6	140.5	136.9	132.5	129.3	126.5	124.2	123.4	121.3
15°	171.1	170.7	167.6	163.6	157.1	151.6	148.0	145.7	144.8	144.0	142.1
17.5°	203.0	200.9	197.7	189.8	181.5	173.5	170.3	170.7	171.1	171.1	169.5
20°	238.3	237.5	232.7	222.0	210.5	200.5	197.7	200.2	203.4	203.4	203.0
22.5°	284.9	282.5	273.7	258.6	242.3	232.4	228.4	233.5	242.3	242.7	244.3
25°	335.8	335.0	321.1	298.8	278.1	266.2	263.4	269.8	285.7	286.8	291.2
27.5°	392.3	390.4	377.6	346.2	319.2	301.6	300.4	314.4	331.4	337.4	343.8
30°	460.7	458.8	434.5	398.3	365.3	342.2	342.6	360.5	386.8	391.9	401.1
32.5°	531.6	529.6	504.5	459.2	415.4	386.8	387.6	414.2	444.5	450.8	460.7
35°	613.2	612.3	579.3	523.6	468.3	433.7	439.7	467.9	505.3	515.7	524.5
37.5°	701.5	692.7	660.5	595.7	526.4	488.7	493.0	530.8	575.0	579.7	588.5
40°	790.2	788.3	749.6	676.8	593.3	546.4	552.3	594.8	642.6	651.3	656.1
42.5°	883.7	882.9	837.6	758.0	662.5	610.0	615.5	664.1	717.4	725.8	728.1
45°	983.2	977.6	932.6	843.5	742.5	677.6	687.5	737.8	800.6	807.3	808.5
47.5°	1068.8	1061.6	1027.8	935.1	820.5	750.8	758.4	820.8	886.9	894.1	891.3
50°	1145.9	1142.7	1108.6	1026.5	906.0	824.8	835.5	903.7	978.0	986.7	984.0
52.5°	1196.4	1194.5	1180.6	1101.4	981.2	900.4	915.5	989.6	1077.5	1090.3	1075.5
55°	1221.5	1221.5	1224.4	1167.1	1050.1	972.1	995.5	1085.0	1181.0	1198.9	1178.1
57.5°	1219.6	1217.2	1240.2	1212.0	1102.9	1029.8	1075.5	1186.5	1287.2	1294.3	1283.6
60°	1174.2	1181.7	1222.3	1227.5	1140.8	1081.1	1151.9	1280.4	1388.7	1407.8	1375.2
62.5°	1101.8	1116.1	1175.4	1209.6	1151.1	1117.7	1217.6	1362.8	1483.0	1502.5	1455.9
65°	1001.9	1016.6	1089.4	1155.5	1130.5	1130.1	1262.5	1438.0	1558.2	1572.1	1509.7
67.5°	876.6	881.4	965.3	1060.4	1072.0	1111.3	1284.0	1489.7	1612.7	1610.3	1528.7
69°	776.7	793.8	876.6	982.9	1018.7	1078.7	1280.0	1504.0	1615.9	1620.7	1509.7
70°	726.2	729.4	810.9	918.7	981.2	1049.2	1266.5	1500.9	1610.7	1607.2	1487.8
72.5°	563.9	570.2	645.0	762.4	848.7	951.3	1200.0	1447.2	1548.2	1539.0	1375.2
75°	402.3	413.1	481.8	592.1	694.4	823.7	1077.5	1331.8	1419.7	1398.6	1213.2
77.5°	274.6	285.7	337.1	438.1	539.9	680.8	908.8	1157.1	1217.6	1195.7	991.5
80°	176.3	183.8	224.4	304.4	401.5	522.8	723.7	927.1	980.8	941.8	758.0
82.5°	116.6	121.3	149.7	206.1	280.9	385.6	536.7	692.7	716.6	691.9	531.2
85°	78.8	81.9	102.3	140.0	196.9	271.4	380.0	481.8	501.3	467.2	354.1
87.5°	54.1	57.3	73.7	97.9	136.9	189.5	254.6	323.9	317.9	302.0	231.2
90°	38.6	41.4	52.9	69.7	96.7	131.7	169.9	204.9	204.1	188.6	147.6
92.5°	27.8	30.3	40.2	52.2	71.6	92.3	114.6	128.9	128.9	122.5	97.9
95°	21.1	22.7	30.7	39.8	53.7	68.4	80.0	87.6	85.9	81.2	70.8
97.5°	16.7	17.9	24.2	32.2	42.6	52.9	59.6	60.5	59.3	57.7	52.5
100°	13.9	14.7	20.3	27.1	35.4	43.0	46.1	45.0	43.4	43.0	40.2
102.5°	12.0	12.4	17.5	23.4	30.3	35.8	37.0	35.0	33.0	32.6	31.4
105°	10.7	10.7	15.1	20.3	25.9	29.9	30.7	28.2	25.5	24.7	24.2
107.5°	9.5	9.9	13.1	17.9	22.3	25.5	25.5	22.7	19.5	18.7	18.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	8.8	8.8	11.6	16.0	19.5	21.9	21.5	18.3	15.1	14.3	14.7
112.5°	8.0	8.0	10.3	13.9	17.1	18.7	17.9	14.7	12.0	11.6	11.6
115°	7.6	7.6	9.1	12.4	14.7	16.0	15.1	12.0	9.5	9.1	9.5
117.5°	6.8	7.2	8.4	10.7	12.7	13.9	12.7	9.9	8.0	7.6	8.4
120°	6.3	6.8	7.6	9.1	11.2	12.0	10.3	8.4	6.8	6.8	7.2
122.5°	5.9	6.3	6.8	8.4	9.5	9.9	8.8	6.8	5.5	5.9	6.3
125°	5.9	5.9	6.3	7.2	8.4	8.4	7.2	5.5	5.2	5.2	5.5
127.5°	5.5	5.5	5.5	6.3	7.2	7.2	5.9	4.8	4.4	4.8	5.2
130°	5.2	5.2	5.2	5.5	5.9	5.9	5.2	4.0	4.0	4.0	4.4
132.5°	4.8	4.8	4.8	4.8	5.2	4.8	4.0	3.2	3.6	3.6	4.0
135°	4.4	4.4	4.4	4.4	4.0	3.6	2.8	2.8	3.2	3.2	3.6
137.5°	4.0	4.0	4.0	3.6	3.2	2.8	2.4	2.4	2.8	2.8	3.2
140°	3.6	3.6	3.6	2.8	2.4	1.9	1.6	1.6	2.4	2.4	2.4
142.5°	3.2	3.2	2.8	2.4	1.9	1.2	0.8	1.2	1.6	1.6	1.9
145°	2.4	2.4	2.4	1.9	1.2	0.8	0.4	0.8	1.2	1.2	1.6
147.5°	1.9	1.9	1.9	1.6	0.8	0.4	0.4	0.4	0.8	0.8	1.2
150°	1.6	1.6	1.2	1.2	0.4	0.0	0.0	0.4	0.4	0.8	0.8
152.5°	1.2	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.4	0.4	0.4
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	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°	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
2.5°	80.4	80.0	79.6	78.8	78.4	77.5	76.8	76.0	76.0	76.0	75.6
5°	85.1	84.4	83.2	81.5	80.4	79.2	77.9	76.8	76.4	76.0	76.0
7.5°	92.7	92.0	89.5	87.6	85.1	83.6	81.5	80.8	80.0	79.6	79.6
10°	104.2	102.7	99.4	96.3	93.5	90.3	88.4	87.2	85.9	85.5	85.9
12.5°	119.8	117.0	113.0	108.2	103.4	99.4	97.1	95.9	95.5	95.1	95.1
15°	141.3	139.2	131.3	123.0	116.2	110.6	107.4	106.3	108.6	109.5	109.5
17.5°	169.1	165.5	156.0	144.4	130.5	122.1	119.8	121.7	123.8	126.1	126.5
20°	203.8	197.7	185.5	166.7	148.0	136.1	134.1	136.5	141.3	144.4	144.8
22.5°	241.5	237.5	218.4	190.6	165.5	151.6	147.2	150.8	158.4	162.8	163.2
25°	290.1	283.7	255.0	216.9	183.8	164.3	159.2	164.3	173.5	180.2	180.7
27.5°	343.0	333.1	295.6	243.2	199.4	175.0	168.7	175.4	187.8	195.8	196.6
30°	397.9	384.0	335.8	267.8	213.3	182.2	175.4	183.8	197.7	206.9	208.1
32.5°	455.6	438.8	372.9	289.3	222.4	186.2	179.0	189.0	203.8	213.3	214.5
35°	514.4	493.4	407.4	304.8	226.8	187.0	179.4	190.6	204.9	214.8	216.0
37.5°	576.5	545.5	437.7	315.6	227.6	184.6	177.9	189.0	202.5	211.6	212.5
40°	636.7	596.5	463.2	320.3	224.8	181.1	173.9	185.5	196.9	203.8	204.5
42.5°	702.7	651.3	485.4	320.3	219.2	176.7	169.5	180.2	189.5	194.2	194.6
45°	770.0	706.2	503.0	316.3	212.1	171.1	165.1	174.7	181.9	183.8	183.8
47.5°	847.5	763.9	519.2	309.5	204.1	165.5	160.7	169.5	174.7	174.7	175.0
50°	925.5	824.4	531.6	300.0	195.0	160.7	157.1	165.5	169.5	167.2	167.2
52.5°	1009.9	886.5	543.1	287.7	186.6	156.4	154.8	163.6	166.3	162.8	161.9
55°	1095.0	945.0	545.5	272.2	177.1	152.8	153.5	161.9	164.7	160.7	160.4
57.5°	1186.1	1005.0	545.1	254.3	168.7	150.0	152.4	161.5	164.3	160.4	160.0
60°	1256.6	1052.4	532.3	235.6	161.1	147.2	152.0	161.1	164.3	161.1	161.1
62.5°	1320.2	1080.3	508.5	215.6	154.0	145.3	150.8	160.4	163.6	161.9	161.9
65°	1349.3	1088.2	471.9	196.2	148.0	142.8	150.0	159.2	162.8	162.3	162.8
67.5°	1331.4	1051.3	423.4	178.6	142.5	140.0	148.0	157.1	161.1	161.9	162.3
69°	1300.4	1009.9	393.1	169.5	139.2	138.1	146.4	155.2	160.0	161.1	161.1
70°	1272.9	974.5	368.1	164.0	136.9	136.9	145.7	154.0	158.8	160.0	160.4
72.5°	1140.0	859.1	311.2	149.2	131.7	132.9	141.7	150.0	155.2	156.4	156.4
75°	976.8	704.7	253.5	136.9	125.7	128.5	136.9	144.8	149.7	150.8	150.4
77.5°	777.9	546.4	205.7	126.1	119.0	121.7	130.5	138.1	142.8	143.6	142.1
80°	580.5	398.3	166.7	115.0	111.0	114.6	122.5	128.9	133.7	134.1	131.7
82.5°	402.3	287.7	135.6	104.2	102.3	105.1	112.2	117.7	122.1	120.9	119.8
85°	268.2	197.3	111.0	92.3	92.3	95.5	100.7	104.2	108.6	107.0	104.6
87.5°	176.7	136.1	91.1	80.8	81.5	84.4	88.4	89.5	93.5	92.3	89.5
90°	119.8	97.9	74.8	69.7	70.8	73.7	75.6	75.6	78.4	76.4	75.2
92.5°	85.1	74.8	62.5	60.0	61.3	63.6	64.0	62.5	64.9	63.6	62.1
95°	64.0	58.9	52.9	51.8	53.3	54.9	54.5	52.2	52.9	52.2	51.8
97.5°	49.7	48.2	45.0	44.2	45.7	47.0	46.1	43.4	43.8	43.0	42.1
100°	40.2	39.0	38.2	38.2	39.4	39.8	38.6	36.2	35.8	34.6	35.0
102.5°	31.8	31.8	32.2	33.0	33.9	33.9	32.2	30.3	29.5	28.2	28.2
105°	25.1	25.5	27.1	27.4	28.2	28.2	26.7	25.1	23.4	22.3	22.3
107.5°	19.5	20.3	21.9	23.1	23.8	23.4	22.3	20.7	18.7	17.5	17.5



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-TL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	15.5	16.3	17.9	19.5	19.8	19.8	18.7	16.7	14.3	13.9	13.9
112.5°	12.7	13.1	15.1	16.3	16.7	16.7	15.5	13.9	11.6	11.2	11.2
115°	10.3	10.7	12.4	13.5	13.9	13.9	13.1	11.6	9.1	9.1	9.1
117.5°	8.8	9.1	10.3	11.6	12.0	12.0	10.7	9.1	7.6	7.6	7.6
120°	7.6	8.0	8.8	9.5	9.9	9.9	9.1	7.6	6.3	6.3	6.3
122.5°	6.8	7.2	7.6	8.4	8.8	8.8	7.6	5.9	5.5	5.5	5.5
125°	5.9	6.3	6.8	7.2	7.6	7.2	6.3	5.2	4.8	5.2	5.2
127.5°	5.2	5.5	5.9	5.9	6.3	5.9	5.2	4.4	4.0	4.4	4.4
130°	4.8	4.8	5.2	5.2	5.5	5.2	4.4	3.6	3.6	4.0	4.0
132.5°	4.4	4.4	4.4	4.4	4.8	4.4	3.6	2.8	3.2	3.6	3.6
135°	3.6	3.6	4.0	3.6	4.0	3.2	2.8	2.4	2.8	3.2	3.2
137.5°	3.2	3.2	3.2	3.2	2.8	2.8	1.9	1.9	2.4	2.8	2.4
140°	2.8	2.8	2.8	2.4	2.4	1.9	1.6	1.6	1.9	1.9	1.9
142.5°	1.9	1.9	1.9	1.9	1.6	1.2	0.8	1.2	1.2	1.6	1.6
145°	1.6	1.6	1.6	1.2	0.8	0.8	0.4	0.8	0.8	1.2	1.2
147.5°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.4	0.4	0.4
152.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	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)