

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: P240416

Luminaire Tested: **UTLD-AF24-30-D-U-T3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240416
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 2979.5 lumens
Efficiency: N/A
Efficacy: 96.1 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

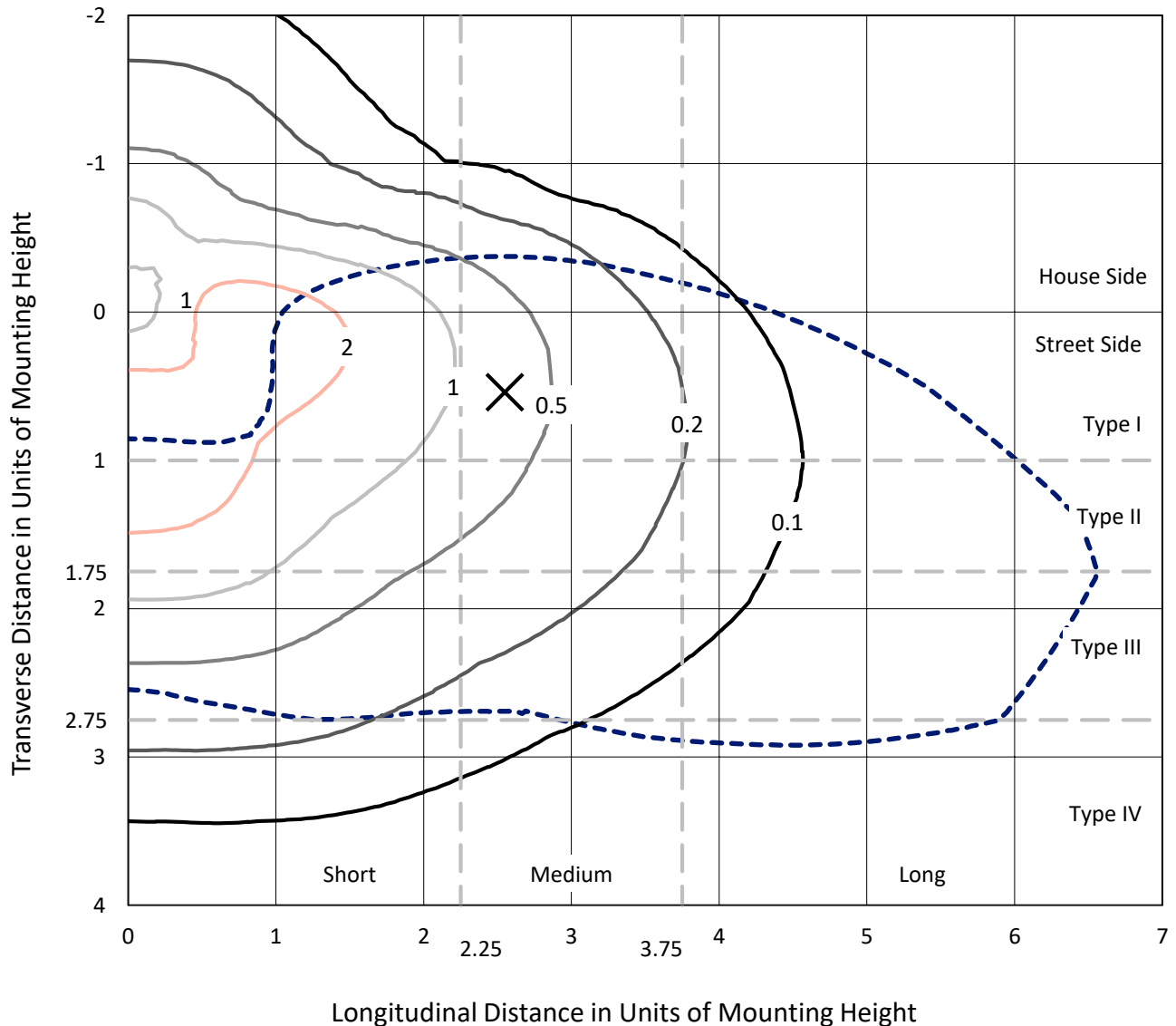


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

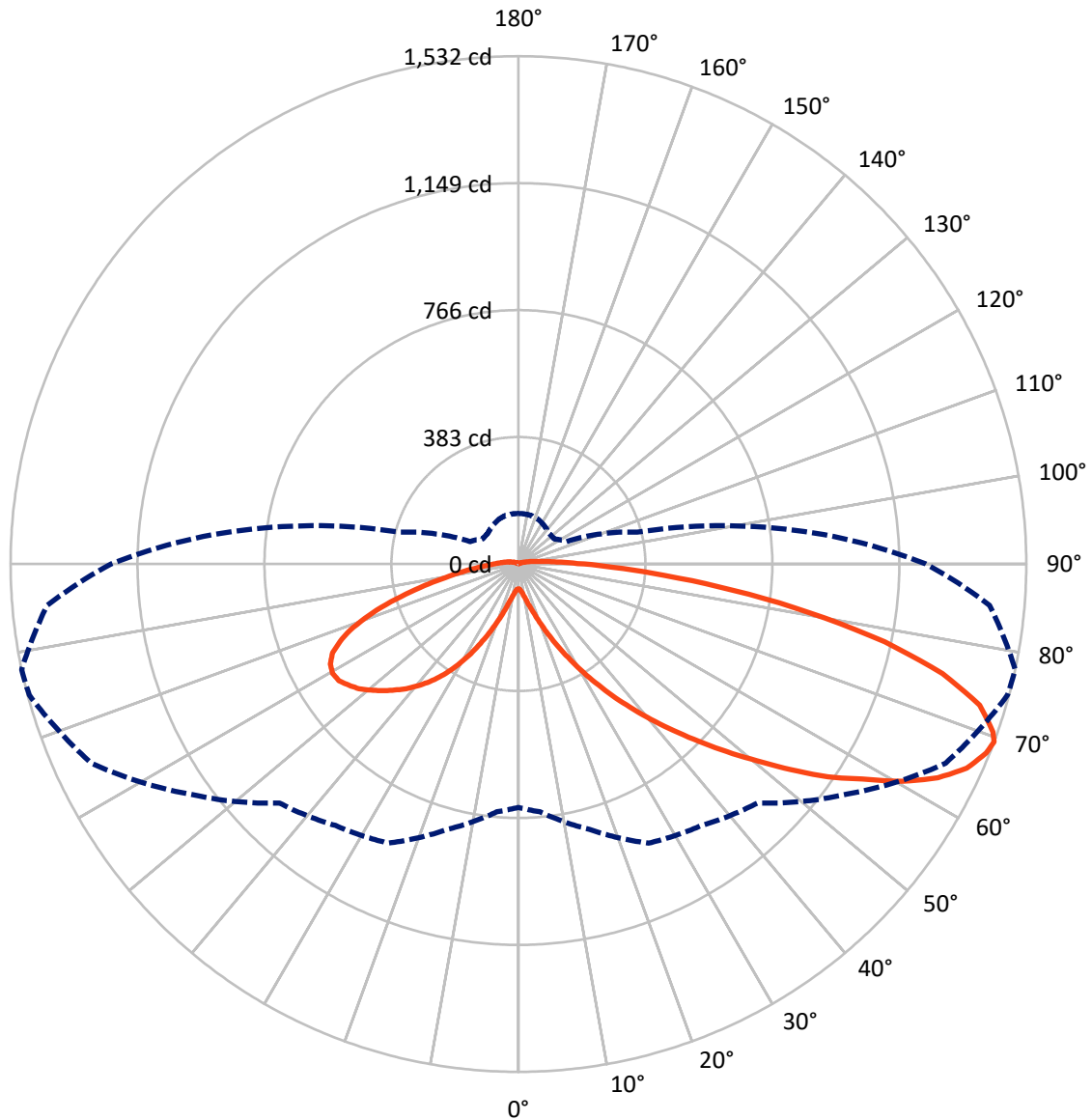


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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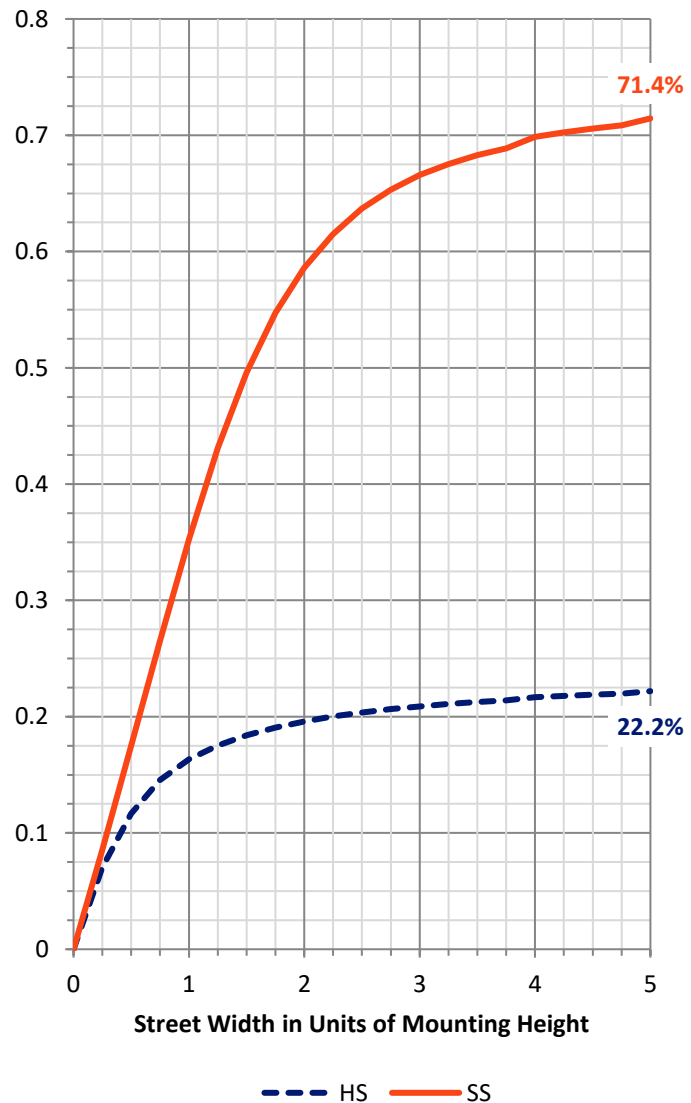
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.1	52.0	744.1
	% Fixture	23.2	1.7	25.0
Street Side	Lumens	2178.2	57.1	2235.3
	% Fixture	73.1	1.9	75.0
Total	Lumens	2870.4	109.1	2979.5
	% Fixture	96.3	3.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.3
10°-20°	38.3	1.3
20°-30°	109.2	3.7
30°-40°	232.0	7.8
40°-50°	402.2	13.5
50°-60°	602.2	20.2
60°-70°	716.7	24.1
70°-80°	546.7	18.3
80°-90°	214.8	7.2
90°-100°	63.0	2.1
100°-110°	25.5	0.9
110°-120°	11.5	0.4
120°-130°	5.6	0.2
130°-140°	2.6	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°	2870.4	96.3
0°-180°	2979.5	100.0



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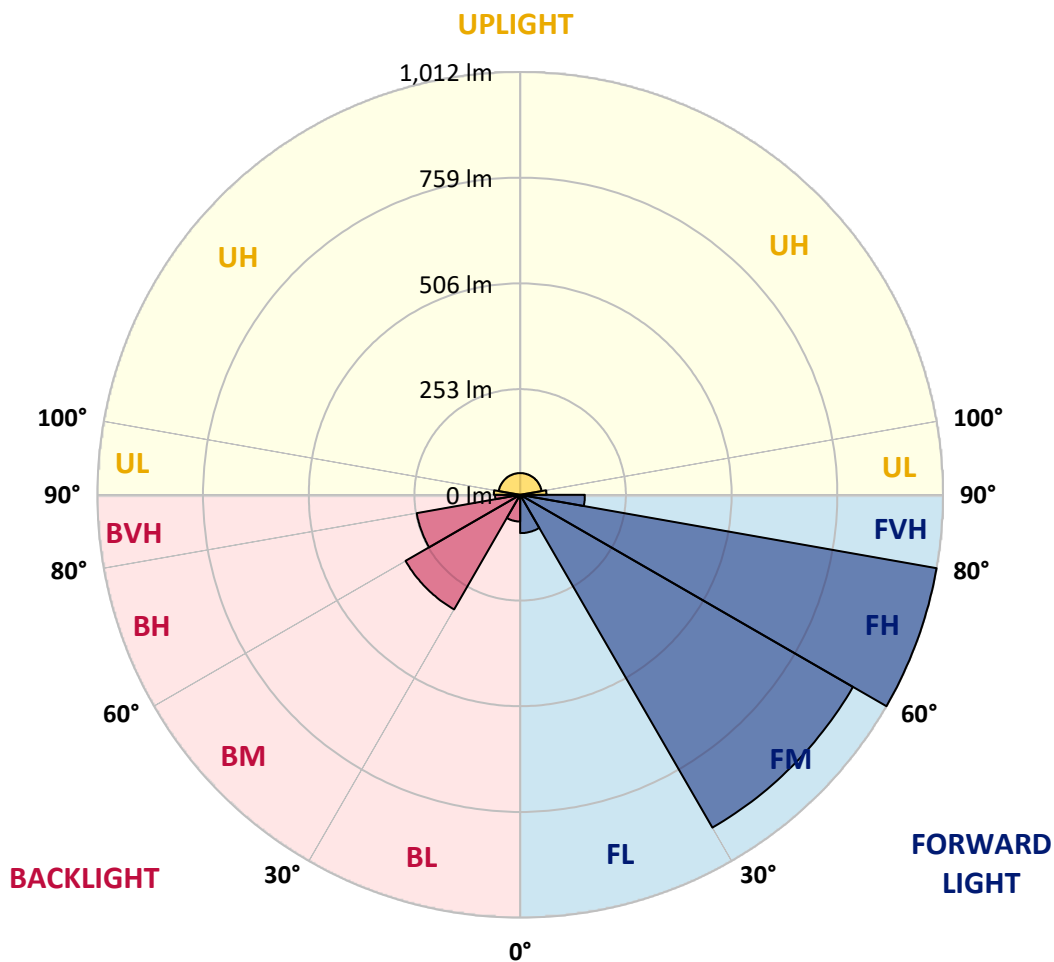
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.7	3.1			
FM	(30°-60°)	919.7	30.9			
FH	(60°-80°)	1012.1	34.0			G1/1800
FVH	(80°-90°)	154.8	5.2			G2/225
BL	(0°-30°)	64.0	2.1	B0/110		
BM	(30°-60°)	316.7	10.6	B1/1000		
BH	(60°-80°)	251.4	8.4	B1/500		G1/500
BVH	(80°-90°)	60.0	2.0			G1/100
UL	(90°-100°)	63.0	2.1		U3/500	
UH	(100°-180°)	52.0	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°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	80.9	80.9	80.6	80.6	80.1	79.3	78.2	77.5	77.1	77.1	76.4
5°	89.9	89.9	89.1	89.1	88.1	86.9	85.4	83.5	82.4	82.1	80.9
7.5°	101.9	101.6	101.2	100.1	98.9	96.7	94.8	92.9	90.6	90.2	88.7
10°	117.4	116.6	116.6	115.0	112.9	110.3	106.8	104.3	101.9	101.6	100.1
12.5°	137.6	136.9	135.8	132.8	129.4	125.2	122.3	119.6	117.4	116.6	114.7
15°	161.7	161.3	158.3	154.6	148.6	143.3	140.0	137.6	136.9	136.1	134.3
17.5°	191.9	190.0	187.0	179.4	171.5	164.0	161.0	161.3	161.7	161.7	160.3
20°	225.3	224.5	220.0	209.9	199.0	189.6	187.0	189.2	192.2	192.2	191.9
22.5°	269.4	267.0	258.8	244.5	229.1	219.7	215.9	220.8	229.1	229.5	231.0
25°	317.5	316.8	303.5	282.6	263.0	251.7	249.0	255.0	270.1	271.2	275.4
27.5°	370.9	369.0	356.9	327.2	301.7	285.1	284.0	297.1	313.3	318.9	325.0
30°	435.6	433.8	410.9	376.5	345.3	323.5	323.9	340.8	365.6	370.5	379.1
32.5°	502.6	500.6	476.9	434.1	392.7	365.6	366.3	391.5	420.2	426.2	435.6
35°	579.6	578.8	547.7	495.1	442.7	410.0	415.6	442.4	477.7	487.6	495.8
37.5°	663.2	654.9	624.4	563.1	497.6	461.9	466.1	501.8	543.6	548.1	556.3
40°	747.0	745.1	708.6	639.8	560.8	516.5	522.1	562.3	607.5	615.7	620.3
42.5°	835.4	834.7	791.8	716.6	626.3	576.7	582.0	627.8	678.2	686.1	688.4
45°	929.5	924.3	881.7	797.5	701.9	640.6	650.0	697.4	756.8	763.1	764.4
47.5°	1010.3	1003.5	971.7	884.0	775.6	709.8	717.0	776.0	838.4	845.2	842.6
50°	1083.3	1080.3	1048.1	970.4	856.5	779.8	790.0	854.3	924.6	932.8	930.3
52.5°	1131.1	1129.2	1116.1	1041.2	927.6	851.2	865.6	935.5	1018.7	1030.7	1016.7
55°	1154.8	1154.8	1157.4	1103.3	992.7	919.0	941.2	1025.8	1116.4	1133.3	1113.8
57.5°	1152.9	1150.7	1172.5	1145.8	1042.7	973.5	1016.7	1121.6	1216.8	1223.6	1213.5
60°	1110.1	1117.1	1155.5	1160.5	1078.4	1022.0	1089.0	1210.5	1312.8	1330.9	1299.9
62.5°	1041.6	1055.1	1111.1	1143.5	1088.2	1056.6	1151.0	1288.3	1401.9	1420.4	1376.3
65°	947.2	961.1	1029.9	1092.4	1068.7	1068.3	1193.5	1359.4	1473.1	1486.2	1427.2
67.5°	828.6	833.2	912.6	1002.5	1013.4	1050.6	1213.9	1408.4	1524.6	1522.3	1445.2
69°	734.2	750.4	828.6	929.1	963.0	1019.7	1210.0	1421.9	1527.6	1532.2	1427.2
70°	686.4	689.5	766.6	868.5	927.6	992.0	1197.3	1418.8	1522.6	1519.2	1406.5
72.5°	532.9	539.0	609.7	720.7	802.3	899.4	1134.4	1368.0	1463.6	1455.0	1299.9
75°	380.3	390.5	455.5	559.7	656.4	778.7	1018.7	1259.0	1342.1	1322.1	1146.9
77.5°	259.6	270.1	318.6	414.2	510.5	643.6	859.1	1093.9	1151.0	1130.4	937.3
80°	166.6	173.8	212.2	287.8	379.5	494.3	684.2	876.5	927.2	890.4	716.6
82.5°	110.3	114.7	141.4	194.8	265.6	364.5	507.4	654.9	677.4	654.1	502.1
85°	74.6	77.5	96.7	132.4	186.2	256.5	359.3	455.5	473.9	441.6	334.8
87.5°	51.2	54.2	69.6	92.6	129.4	179.0	240.7	306.2	300.6	285.5	218.5
90°	36.5	39.2	50.0	65.8	91.4	124.5	160.6	193.7	193.0	178.3	139.6
92.5°	26.3	28.6	38.0	49.2	67.7	87.3	108.3	121.9	121.9	115.9	92.6
95°	19.8	21.5	29.0	37.5	50.8	64.7	75.6	82.7	81.3	76.7	66.9
97.5°	15.9	16.9	23.0	30.5	40.2	50.0	56.4	57.2	56.0	54.5	49.6
100°	13.1	13.8	19.2	25.5	33.5	40.7	43.6	42.5	41.0	40.7	38.0
102.5°	11.3	11.7	16.5	22.2	28.6	33.9	35.0	33.1	31.2	30.8	29.7
105°	10.2	10.2	14.3	19.2	24.5	28.2	29.0	26.7	24.0	23.3	23.0
107.5°	9.1	9.4	12.4	16.9	21.1	24.0	24.0	21.5	18.5	17.7	17.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
110°	8.3	8.3	10.9	15.1	18.5	20.6	20.3	17.3	14.3	13.5	13.8
112.5°	7.5	7.5	9.9	13.1	16.2	17.7	16.9	13.8	11.3	10.9	10.9
115°	7.1	7.1	8.6	11.7	13.8	15.1	14.3	11.3	9.1	8.6	9.1
117.5°	6.4	6.8	7.8	10.2	12.0	13.1	12.0	9.4	7.5	7.1	7.8
120°	6.0	6.4	7.1	8.6	10.5	11.3	9.9	7.8	6.4	6.4	6.8
122.5°	5.7	6.0	6.4	7.8	9.1	9.4	8.3	6.4	5.3	5.7	6.0
125°	5.7	5.7	6.0	6.8	7.8	7.8	6.8	5.3	4.9	4.9	5.3
127.5°	5.3	5.3	5.3	6.0	6.8	6.8	5.7	4.5	4.2	4.5	4.9
130°	4.9	4.9	4.9	5.3	5.7	5.7	4.9	3.8	3.8	3.8	4.2
132.5°	4.5	4.5	4.5	4.5	4.9	4.5	3.8	3.1	3.4	3.4	3.8
135°	4.2	4.2	4.2	4.2	3.8	3.4	2.6	2.6	3.1	3.1	3.4
137.5°	3.8	3.8	3.8	3.4	3.1	2.6	2.3	2.3	2.6	2.6	3.1
140°	3.4	3.4	3.4	2.6	2.3	1.8	1.5	1.5	2.3	2.3	2.3
142.5°	3.1	3.1	2.6	2.3	1.8	1.1	0.8	1.1	1.5	1.5	1.8
145°	2.3	2.3	2.3	1.8	1.1	0.8	0.3	0.8	1.1	1.1	1.5
147.5°	1.8	1.8	1.8	1.5	0.8	0.3	0.3	0.3	0.8	0.8	1.1
150°	1.5	1.5	1.1	1.1	0.3	0.0	0.0	0.3	0.3	0.8	0.8
152.5°	1.1	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.3	0.3	0.3
155°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3
157.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	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°	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2.5°	75.9	75.6	75.3	74.6	74.1	73.3	72.5	71.9	71.9	71.9	71.4
5°	80.6	79.8	78.6	77.1	75.9	74.9	73.8	72.5	72.2	71.9	71.9
7.5°	87.6	86.9	84.6	82.7	80.6	79.0	77.1	76.4	75.6	75.3	75.3
10°	98.6	97.0	94.1	91.0	88.4	85.4	83.5	82.4	81.3	80.9	81.3
12.5°	113.2	110.6	106.8	102.2	97.8	94.1	91.8	90.6	90.2	89.9	89.9
15°	133.6	131.6	124.1	116.3	109.8	104.6	101.6	100.4	102.7	103.5	103.5
17.5°	159.8	156.5	147.5	136.6	123.4	115.5	113.2	115.0	117.0	119.2	119.6
20°	192.7	187.0	175.3	157.7	140.0	128.6	126.7	129.0	133.6	136.6	136.9
22.5°	228.4	224.5	206.5	180.2	156.5	143.3	139.2	142.6	149.6	153.8	154.3
25°	274.2	268.2	241.1	205.0	173.8	155.3	150.4	155.3	164.0	170.5	170.8
27.5°	324.3	314.8	279.4	229.9	188.5	165.5	159.5	165.8	177.5	185.0	185.8
30°	376.2	363.0	317.5	253.2	201.6	172.3	165.8	173.8	187.0	195.6	196.7
32.5°	430.7	414.8	352.5	273.4	210.4	176.0	169.3	178.6	192.7	201.6	202.7
35°	486.4	466.4	385.1	288.1	214.3	176.8	169.7	180.2	193.7	203.1	204.2
37.5°	545.1	515.7	413.8	298.3	215.1	174.5	168.2	178.6	191.4	200.2	200.8
40°	601.8	563.9	437.8	302.7	212.5	171.1	164.4	175.3	186.2	192.7	193.4
42.5°	664.3	615.7	458.9	302.7	207.3	167.0	160.3	170.5	179.0	183.5	184.0
45°	727.8	667.7	475.5	299.1	200.5	161.7	156.1	165.1	171.9	173.8	173.8
47.5°	801.2	722.2	490.9	292.6	193.0	156.5	152.0	160.3	165.1	165.1	165.5
50°	874.9	779.3	502.6	283.6	184.3	152.0	148.6	156.5	160.3	158.0	158.0
52.5°	954.7	838.1	513.4	271.9	176.5	147.8	146.3	154.6	157.3	153.8	153.1
55°	1035.2	893.4	515.7	257.3	167.3	144.4	145.2	153.1	155.7	152.0	151.6
57.5°	1121.3	950.1	515.3	240.4	159.5	141.8	144.1	152.8	155.3	151.6	151.3
60°	1187.8	995.0	503.2	222.7	152.3	139.2	143.6	152.3	155.3	152.3	152.3
62.5°	1248.1	1021.2	480.7	203.9	145.6	137.3	142.6	151.6	154.6	153.1	153.1
65°	1275.6	1028.7	446.1	185.4	140.0	135.1	141.8	150.4	153.8	153.5	153.8
67.5°	1258.6	993.8	400.2	169.0	134.7	132.4	140.0	148.6	152.3	153.1	153.5
69°	1229.2	954.7	371.6	160.3	131.6	130.6	138.4	146.7	151.3	152.3	152.3
70°	1203.3	921.2	348.0	154.9	129.4	129.4	137.6	145.6	150.1	151.3	151.6
72.5°	1077.8	812.2	294.1	141.1	124.5	125.6	134.0	141.8	146.7	147.8	147.8
75°	923.5	666.2	239.6	129.4	118.9	121.5	129.4	136.9	141.4	142.6	142.1
77.5°	735.5	516.5	194.5	119.2	112.4	115.0	123.4	130.6	135.1	135.8	134.3
80°	548.8	376.5	157.7	108.7	105.0	108.3	115.9	121.9	126.4	126.7	124.5
82.5°	380.3	271.9	128.3	98.6	96.7	99.3	106.1	111.3	115.5	114.4	113.2
85°	253.5	186.7	105.0	87.3	87.3	90.2	95.2	98.6	102.7	101.2	98.9
87.5°	167.0	128.6	86.1	76.4	77.1	79.8	83.5	84.6	88.4	87.3	84.6
90°	113.2	92.6	70.7	65.8	66.9	69.6	71.4	71.4	74.1	72.2	71.1
92.5°	80.6	70.7	59.1	56.9	57.9	60.2	60.5	59.1	61.3	60.2	58.7
95°	60.5	55.7	50.0	48.9	50.4	51.9	51.6	49.2	50.0	49.2	48.9
97.5°	47.0	45.6	42.5	41.7	43.2	44.4	43.6	41.0	41.4	40.7	39.9
100°	38.0	36.8	36.2	36.2	37.2	37.5	36.5	34.2	33.9	32.8	33.1
102.5°	30.0	30.0	30.5	31.2	32.0	32.0	30.5	28.6	27.9	26.7	26.7
105°	23.7	24.0	25.5	26.0	26.7	26.7	25.2	23.7	22.2	21.1	21.1
107.5°	18.5	19.2	20.6	21.9	22.6	22.2	21.1	19.5	17.7	16.5	16.5



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	14.6	15.4	16.9	18.5	18.8	18.8	17.7	15.9	13.5	13.1	13.1
112.5°	12.0	12.4	14.3	15.4	15.9	15.9	14.6	13.1	10.9	10.5	10.5
115°	9.9	10.2	11.7	12.8	13.1	13.1	12.4	10.9	8.6	8.6	8.6
117.5°	8.3	8.6	9.9	10.9	11.3	11.3	10.2	8.6	7.1	7.1	7.1
120°	7.1	7.5	8.3	9.1	9.4	9.4	8.6	7.1	6.0	6.0	6.0
122.5°	6.4	6.8	7.1	7.8	8.3	8.3	7.1	5.7	5.3	5.3	5.3
125°	5.7	6.0	6.4	6.8	7.1	6.8	6.0	4.9	4.5	4.9	4.9
127.5°	4.9	5.3	5.7	5.7	6.0	5.7	4.9	4.2	3.8	4.2	4.2
130°	4.5	4.5	4.9	4.9	5.3	4.9	4.2	3.4	3.4	3.8	3.8
132.5°	4.2	4.2	4.2	4.2	4.5	4.2	3.4	2.6	3.1	3.4	3.4
135°	3.4	3.4	3.8	3.4	3.8	3.1	2.6	2.3	2.6	3.1	3.1
137.5°	3.1	3.1	3.1	3.1	2.6	2.6	1.8	1.8	2.3	2.6	2.3
140°	2.6	2.6	2.6	2.3	2.3	1.8	1.5	1.5	1.8	1.8	1.8
142.5°	1.8	1.8	1.8	1.8	1.5	1.1	0.8	1.1	1.1	1.5	1.5
145°	1.5	1.5	1.5	1.1	0.8	0.8	0.3	0.8	0.8	1.1	1.1
147.5°	1.1	1.1	1.1	0.8	0.8	0.3	0.3	0.3	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.3	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)