

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: P240523

Luminaire Tested: **UTLD-AF24-20-D-U-SL3-TL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-32)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-SL3-TL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2056.2 lumens
Efficiency: N/A
Efficacy: 97.9 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 - U2 - G2

Input Watts (W): 21
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

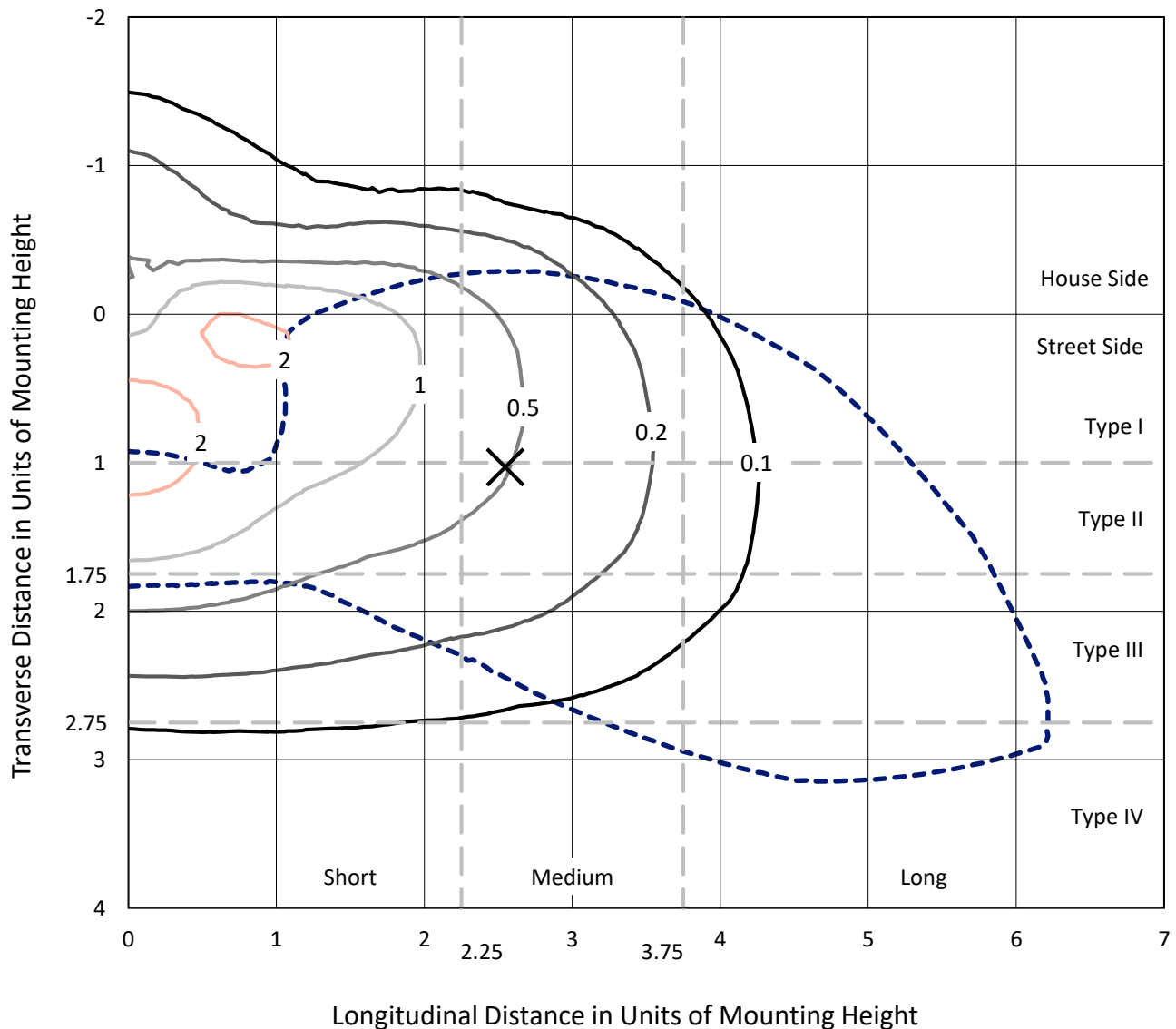


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

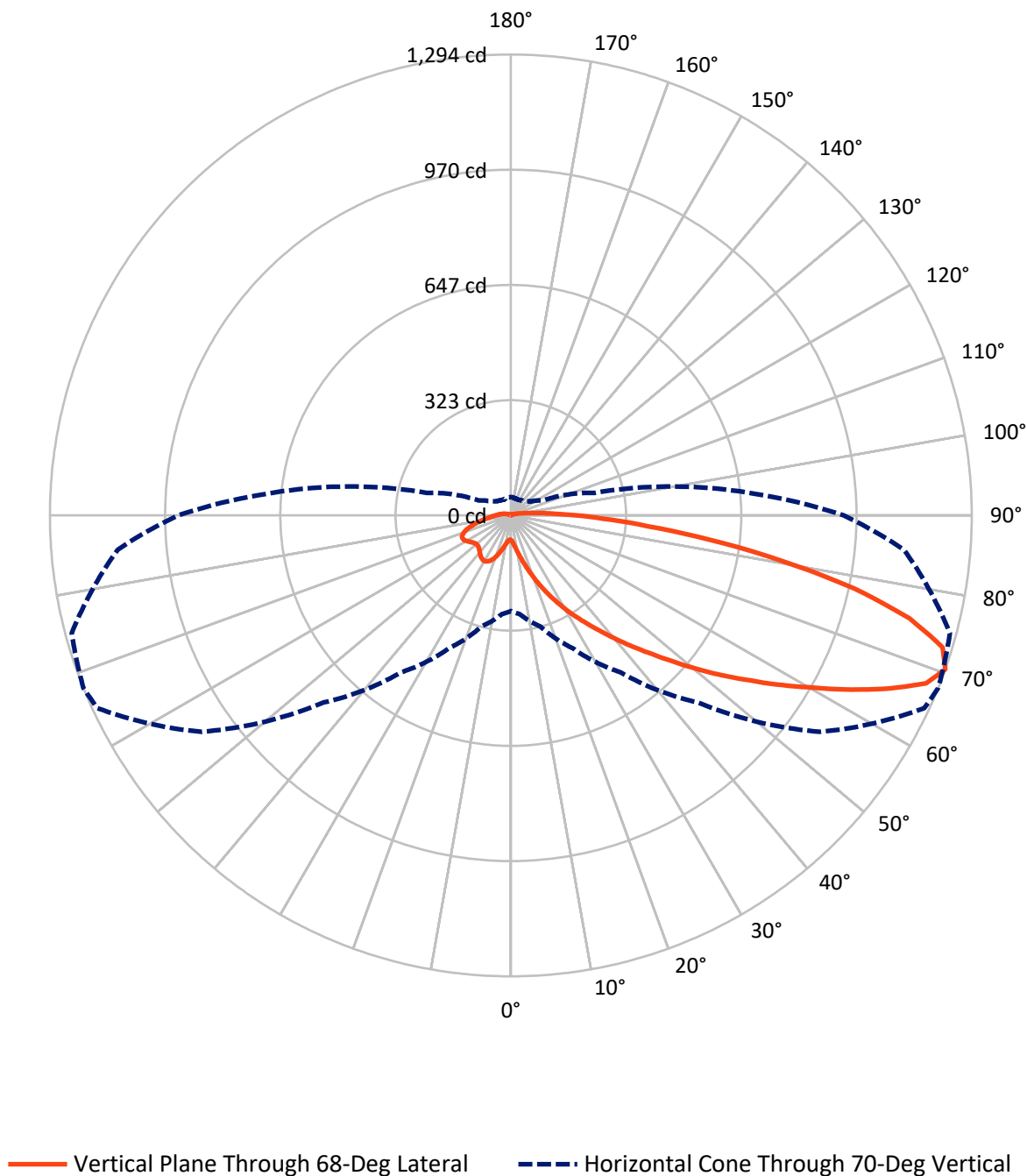


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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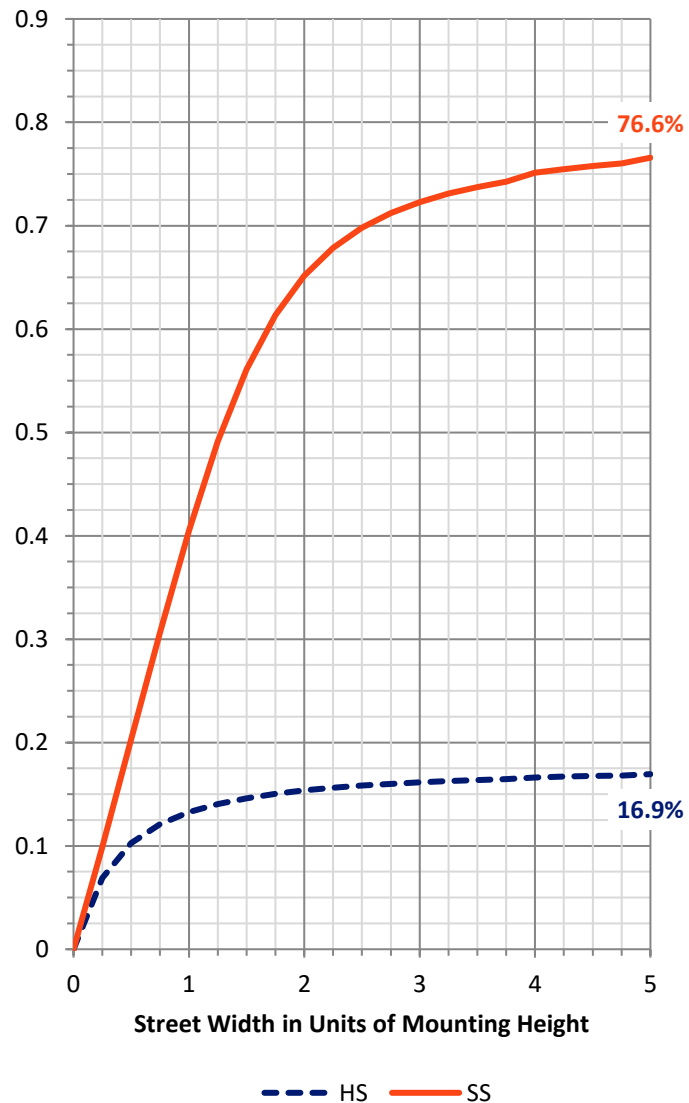
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.5	33.4	396.8
	% Fixture	17.7	1.6	19.3
Street Side	Lumens	1613.7	45.7	1659.4
	% Fixture	78.5	2.2	80.7
Total	Lumens	1977.2	79.1	2056.2
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.4
10°-20°	32.6	1.6
20°-30°	82.5	4.0
30°-40°	160.0	7.8
40°-50°	269.7	13.1
50°-60°	403.3	19.6
60°-70°	489.0	23.8
70°-80°	381.5	18.6
80°-90°	151.0	7.3
90°-100°	46.2	2.2
100°-110°	18.2	0.9
110°-120°	8.0	0.4
120°-130°	4.0	0.2
130°-140°	1.9	0.1
140°-150°	0.6	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1977.2	96.2
0°-180°	2056.2	100.0

Coefficient of Utilization



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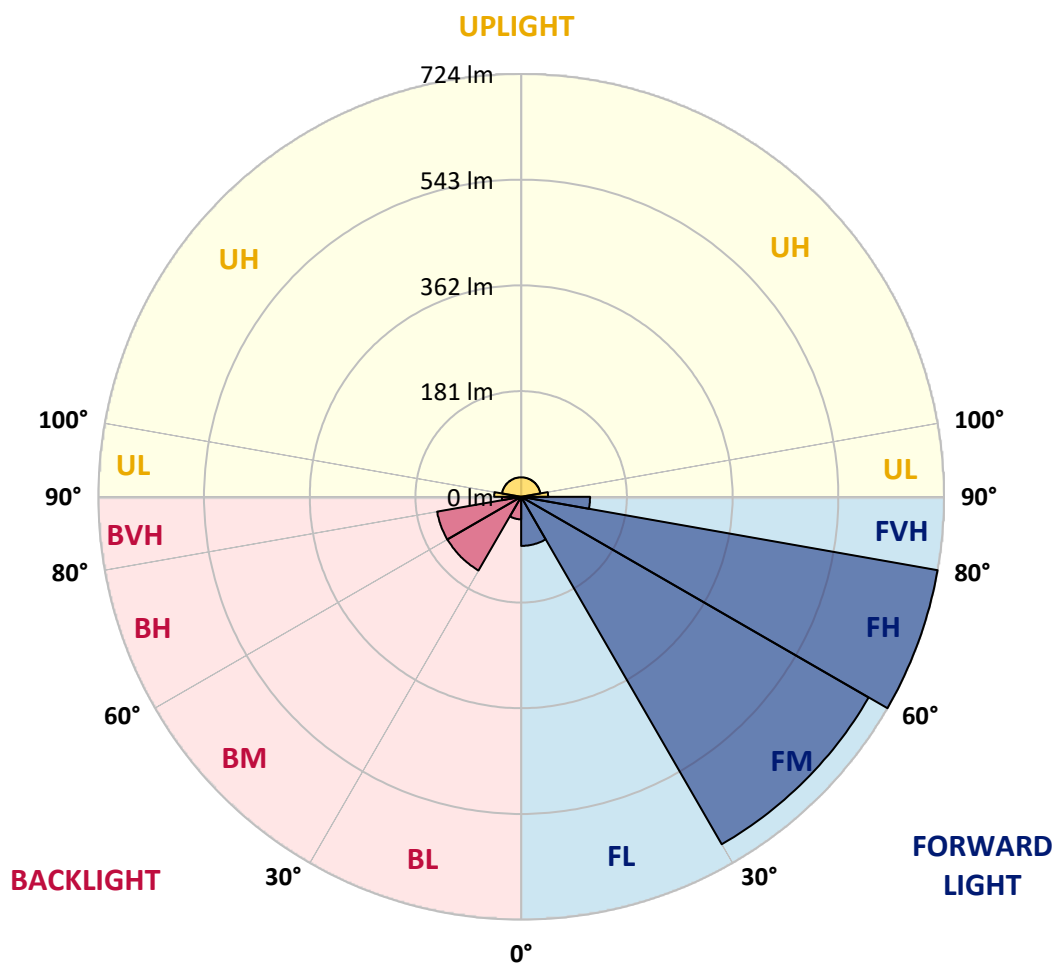
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.1	4.1			
FM	(30°-60°)	687.3	33.4			
FH	(60°-80°)	724.3	35.2			G1/1800
FVH	(80°-90°)	118.0	5.7			G2/225
BL	(0°-30°)	38.6	1.9	B0/110		
BM	(30°-60°)	145.7	7.1	B0/220		
BH	(60°-80°)	146.2	7.1	B1/500		G1/500
BVH	(80°-90°)	33.0	1.6			G1/100
UL	(90°-100°)	46.2	2.2		U2/50	
UH	(100°-180°)	33.4	1.6		U2/50	

BUG Rating: B1-U2-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2.5°	76.9	77.1	77.1	76.4	76.1	75.3	74.0	73.4	72.8	72.3	71.2
5°	87.1	87.1	86.6	85.8	84.6	83.9	82.5	81.0	80.7	78.7	76.9
7.5°	98.7	98.9	99.2	97.9	96.2	94.9	93.3	91.1	90.5	88.7	85.2
10°	113.9	114.2	113.7	112.4	110.3	108.6	106.7	104.6	103.8	102.1	97.4
12.5°	132.5	132.3	130.7	128.8	126.3	124.4	122.1	120.4	119.8	118.3	113.2
15°	152.2	153.3	151.4	147.1	144.1	141.2	140.1	140.1	140.6	138.8	133.9
17.5°	177.4	178.2	175.1	169.2	164.2	161.0	159.9	162.1	162.9	163.7	159.4
20°	206.7	207.0	201.9	193.6	184.9	181.0	181.2	186.3	188.2	191.1	186.1
22.5°	242.4	240.4	233.0	220.1	207.8	201.4	203.8	214.0	215.6	221.8	219.1
25°	279.8	279.6	267.4	250.3	232.2	224.0	228.1	240.6	245.2	254.6	251.1
27.5°	322.9	321.8	306.3	284.9	260.5	248.1	251.7	269.7	275.0	290.8	287.2
30°	368.5	368.9	350.6	321.0	290.6	273.3	275.6	300.6	307.6	325.8	324.7
32.5°	423.2	419.9	399.5	360.8	323.4	300.0	302.9	332.0	341.7	363.5	360.2
35°	478.0	473.9	446.8	404.4	357.6	329.9	331.2	365.6	375.9	404.0	397.9
37.5°	528.5	526.4	499.2	450.2	395.7	363.0	364.5	401.6	414.5	446.0	438.4
40°	582.8	582.8	555.1	501.9	438.2	398.7	401.1	441.7	457.2	491.6	479.1
42.5°	640.4	638.5	609.2	548.9	480.4	437.1	442.0	486.9	504.3	541.0	528.0
45°	697.1	693.0	662.6	600.1	522.6	480.4	487.7	536.4	554.6	601.2	583.1
47.5°	746.0	741.8	712.0	646.0	566.9	525.3	535.5	593.9	613.2	668.5	641.2
50°	780.9	779.7	750.6	682.6	606.5	571.5	593.1	655.1	678.3	734.2	708.4
52.5°	801.4	799.0	775.8	715.6	646.0	619.4	652.2	721.8	746.2	806.6	776.4
55°	796.8	795.2	778.8	733.1	677.0	665.4	717.9	796.1	818.9	883.9	848.2
57.5°	760.8	762.9	758.1	734.2	699.8	712.9	785.0	874.3	898.4	961.9	923.7
60°	696.5	695.8	709.4	713.5	708.9	754.1	866.2	963.5	982.0	1046.0	997.4
62.5°	601.7	599.5	629.4	667.8	702.2	788.8	939.3	1058.7	1077.2	1128.8	1065.4
65°	485.2	495.0	532.3	595.8	668.8	802.0	1010.3	1155.8	1171.0	1198.5	1119.0
67.5°	367.7	377.2	425.6	506.0	613.2	786.6	1055.5	1242.9	1257.6	1264.9	1142.3
70°	268.6	277.7	323.4	411.6	537.7	742.3	1058.9	1280.5	1293.9	1276.1	1107.9
72.5°	191.1	196.0	235.2	318.8	451.7	664.6	1014.9	1256.3	1267.3	1218.1	1016.9
75°	135.3	137.3	171.2	242.4	367.7	576.7	910.0	1148.0	1156.5	1094.7	864.9
77.5°	92.3	97.0	123.9	184.9	294.9	473.4	771.3	984.2	984.2	905.8	684.2
80°	65.3	69.4	88.9	138.2	231.0	379.3	623.3	782.1	769.7	680.6	493.1
82.5°	47.1	50.3	65.9	105.4	179.3	299.8	472.9	579.1	562.1	475.1	325.8
85°	34.1	37.3	50.0	77.5	137.3	232.5	354.3	402.2	385.4	314.7	211.5
87.5°	25.0	27.2	37.3	58.4	104.1	176.1	259.9	273.1	258.4	203.5	135.8
90°	17.7	19.6	28.5	44.1	78.0	132.3	182.6	179.3	163.3	128.0	89.8
92.5°	12.9	14.2	21.2	33.7	58.0	97.0	125.5	115.9	106.7	82.3	62.4
95°	9.8	10.7	16.7	26.1	42.7	68.3	84.6	76.1	69.1	56.2	46.0
97.5°	7.7	8.6	13.6	21.0	33.1	49.7	58.6	50.3	47.1	40.7	35.5
100°	6.8	7.2	11.6	17.5	26.1	37.3	41.4	35.2	33.4	30.7	27.7
102.5°	6.2	6.4	10.3	15.1	21.2	28.0	29.8	26.3	25.0	23.4	21.8
105°	5.7	5.9	9.2	13.2	18.0	21.8	22.8	20.2	19.3	17.7	16.7
107.5°	5.4	5.4	8.0	11.6	15.3	18.0	18.0	15.9	15.1	13.4	12.9
110°	5.1	5.1	7.2	10.5	13.2	15.3	14.7	12.7	11.8	10.3	10.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
112.5°	4.8	4.8	6.8	9.2	11.6	12.9	12.3	10.3	9.4	7.7	7.7
115°	4.6	4.6	5.9	8.0	10.3	11.0	10.5	8.3	7.7	6.2	6.4
117.5°	4.6	4.6	5.7	7.2	8.8	9.8	8.8	6.8	6.2	5.1	5.7
120°	4.3	4.3	5.1	6.4	7.7	8.3	7.5	5.7	5.1	4.3	4.8
122.5°	4.3	4.3	4.8	5.7	7.0	7.2	6.4	4.8	4.3	3.8	4.3
125°	4.1	4.1	4.6	5.1	5.9	6.2	5.4	4.1	3.8	3.5	3.8
127.5°	4.1	4.1	4.3	4.6	5.4	5.4	4.6	3.3	3.3	2.9	3.5
130°	3.8	4.1	4.1	4.3	4.6	4.6	3.8	2.7	2.7	2.7	3.3
132.5°	3.8	3.8	3.8	3.8	4.1	3.8	2.9	2.4	2.4	2.4	2.9
135°	3.5	3.5	3.5	3.5	3.3	2.9	2.4	1.8	1.8	2.1	2.7
137.5°	3.5	3.5	3.3	2.9	2.9	2.4	1.8	1.6	1.6	2.1	2.4
140°	3.3	3.3	2.9	2.7	2.1	1.8	1.3	1.3	1.3	1.6	1.8
142.5°	2.7	2.7	2.7	2.1	1.6	1.1	0.8	0.8	1.1	1.3	1.6
145°	2.4	2.4	2.1	1.8	1.1	0.5	0.2	0.5	0.8	1.1	1.3
147.5°	1.8	1.8	1.6	1.3	0.5	0.2	0.0	0.2	0.5	0.5	0.8
150°	1.3	1.3	1.3	0.8	0.2	0.0	0.0	0.2	0.2	0.2	0.5
152.5°	1.1	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.2	0.2	0.2
155°	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
157.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.2	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°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2.5°	70.5	70.2	68.9	67.7	66.4	65.3	64.3	63.5	63.2	62.6	63.0
5°	75.3	74.2	71.6	69.1	66.4	64.0	61.8	60.2	58.9	58.4	58.0
7.5°	83.6	82.0	77.1	72.8	68.5	64.3	60.7	58.0	56.5	55.4	55.4
10°	95.7	92.3	86.0	78.7	71.6	65.3	60.5	56.7	54.3	53.5	53.5
12.5°	110.5	106.7	97.0	86.0	75.8	67.2	60.7	56.7	54.3	53.2	53.0
15°	130.1	124.4	110.3	94.6	79.9	68.9	61.0	57.1	55.4	54.8	54.8
17.5°	153.3	146.3	125.5	104.1	84.4	69.6	61.8	58.6	57.8	57.8	57.8
20°	180.6	170.5	142.8	112.4	87.6	70.5	62.4	60.0	60.0	60.5	60.7
22.5°	210.0	197.1	159.4	120.1	88.7	71.0	62.1	60.5	61.8	63.2	63.5
25°	241.1	223.1	174.5	125.0	89.3	69.6	61.3	60.7	63.5	65.3	65.9
27.5°	274.2	249.7	187.4	126.8	87.6	67.2	60.0	60.2	64.3	66.9	67.5
30°	304.7	274.8	197.5	126.3	84.1	64.3	58.4	59.4	64.3	68.1	68.9
32.5°	336.1	299.5	203.8	123.9	79.9	61.0	56.5	58.6	64.0	68.3	69.1
35°	367.5	321.2	206.7	119.1	75.0	58.0	54.5	57.3	63.2	68.1	68.5
37.5°	398.9	342.7	207.6	112.9	70.7	55.6	53.2	56.5	61.8	67.5	68.3
40°	432.7	364.1	206.0	106.7	66.6	54.1	52.1	55.4	60.7	66.6	67.7
42.5°	470.7	386.6	204.1	100.5	64.0	53.0	51.4	54.3	59.1	65.9	67.2
45°	513.0	411.4	203.0	95.7	62.4	52.5	51.2	53.5	58.4	65.3	66.6
47.5°	558.5	442.5	204.1	92.5	61.5	52.7	51.2	53.0	57.3	64.3	65.9
50°	613.7	478.2	208.0	90.0	61.3	53.0	51.4	52.5	56.2	62.6	64.3
52.5°	671.1	514.8	214.5	89.5	61.5	53.5	51.6	52.1	54.5	60.5	61.8
55°	730.4	563.2	225.5	90.3	62.1	54.3	51.9	51.6	53.2	57.8	59.4
57.5°	797.6	613.5	239.3	92.3	63.0	54.8	52.1	51.2	51.6	55.4	56.7
60°	864.4	664.6	253.3	94.6	64.6	55.6	52.5	50.8	50.8	53.7	54.8
62.5°	924.8	709.4	264.9	97.9	65.9	56.2	52.5	50.3	50.0	52.5	53.5
65°	966.2	733.1	267.4	99.8	67.2	56.5	51.9	49.7	49.5	51.4	52.5
67.5°	977.3	729.3	262.1	100.5	68.1	56.5	51.9	49.1	49.5	51.2	51.9
70°	934.1	690.4	244.4	98.9	67.7	56.2	51.4	48.6	49.1	50.8	51.4
72.5°	831.5	609.7	217.0	94.9	66.4	55.0	50.3	47.8	48.6	50.6	51.2
75°	697.9	505.1	184.4	88.5	64.0	53.7	49.1	46.8	48.1	50.0	50.3
77.5°	536.9	387.1	150.8	80.1	60.7	51.9	47.6	45.2	47.1	49.1	48.9
80°	381.2	282.3	119.1	71.6	56.5	49.1	45.5	43.2	45.5	47.6	47.1
82.5°	262.7	191.4	95.2	63.2	51.9	46.2	43.0	41.1	43.6	45.5	44.6
85°	172.1	129.4	75.0	55.4	47.6	43.2	40.3	38.5	40.9	42.5	41.4
87.5°	111.0	90.0	60.0	48.1	43.0	40.1	37.3	35.7	38.1	39.6	38.5
90°	77.1	65.5	49.5	41.6	38.7	36.6	34.4	32.8	35.0	36.0	35.5
92.5°	55.0	50.3	41.1	36.6	35.0	33.1	31.1	29.8	32.0	32.8	32.2
95°	43.0	40.1	35.0	32.2	31.4	30.1	28.2	26.9	28.5	29.1	28.7
97.5°	34.4	33.1	30.1	28.5	28.0	26.9	25.5	24.1	25.2	25.5	25.2
100°	27.7	27.2	25.7	25.0	24.7	23.9	22.6	21.6	22.1	21.8	21.8
102.5°	22.1	22.1	21.8	21.6	21.6	20.6	19.6	18.6	18.6	18.0	18.0
105°	17.5	18.0	18.0	18.2	18.6	18.0	16.9	15.7	15.3	14.5	14.5
107.5°	13.6	14.2	15.1	15.3	15.7	15.1	14.2	12.9	12.1	11.3	11.6
110°	10.7	11.3	12.3	12.9	13.2	12.9	11.8	10.7	9.4	8.8	9.2



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CATALOG NUMBER: UTLD-AF24-20-D-U-SL3-TL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	8.3	9.2	10.3	10.7	11.0	10.7	9.8	8.6	7.2	7.0	7.0
115°	7.0	7.5	8.6	9.2	9.2	8.8	8.0	6.8	5.7	5.4	5.7
117.5°	5.9	6.4	7.2	7.7	7.7	7.5	6.8	5.4	4.6	4.6	4.6
120°	5.1	5.7	6.2	6.8	6.8	6.4	5.7	4.3	3.8	3.8	3.8
122.5°	4.6	4.8	5.4	5.7	5.7	5.4	4.6	3.5	2.9	3.3	3.3
125°	4.1	4.3	4.8	5.1	4.8	4.6	3.8	2.7	2.4	2.7	2.7
127.5°	3.8	4.1	4.3	4.3	4.3	3.8	3.3	2.1	2.1	2.4	2.4
130°	3.5	3.5	3.8	3.8	3.5	3.3	2.4	1.6	1.6	2.1	2.1
132.5°	3.3	3.3	3.5	3.3	3.3	2.7	1.8	1.3	1.6	1.8	1.8
135°	2.7	2.7	2.9	2.9	2.4	2.1	1.3	1.1	1.1	1.3	1.6
137.5°	2.4	2.7	2.7	2.4	2.1	1.6	1.1	0.8	1.1	1.1	1.3
140°	2.1	2.1	2.1	1.8	1.6	1.1	0.5	0.5	0.8	0.8	0.8
142.5°	1.6	1.8	1.8	1.6	1.1	0.5	0.2	0.2	0.5	0.5	0.5
145°	1.3	1.3	1.3	1.1	0.8	0.5	0.2	0.2	0.2	0.2	0.2
147.5°	0.8	1.1	1.1	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0
150°	0.5	0.5	0.8	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
152.5°	0.2	0.5	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.2	0.2	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.2	0.2	0.2	0.2	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)