

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: P266382

Luminaire Tested: **UTLD-AF24-50-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266382
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-AF24-50-D-U-T3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 670mA 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: 4143.8 lumens
Efficiency: N/A
Efficacy: 76.7 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: B1 - U3 - G3

Input Watts (W): 54
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



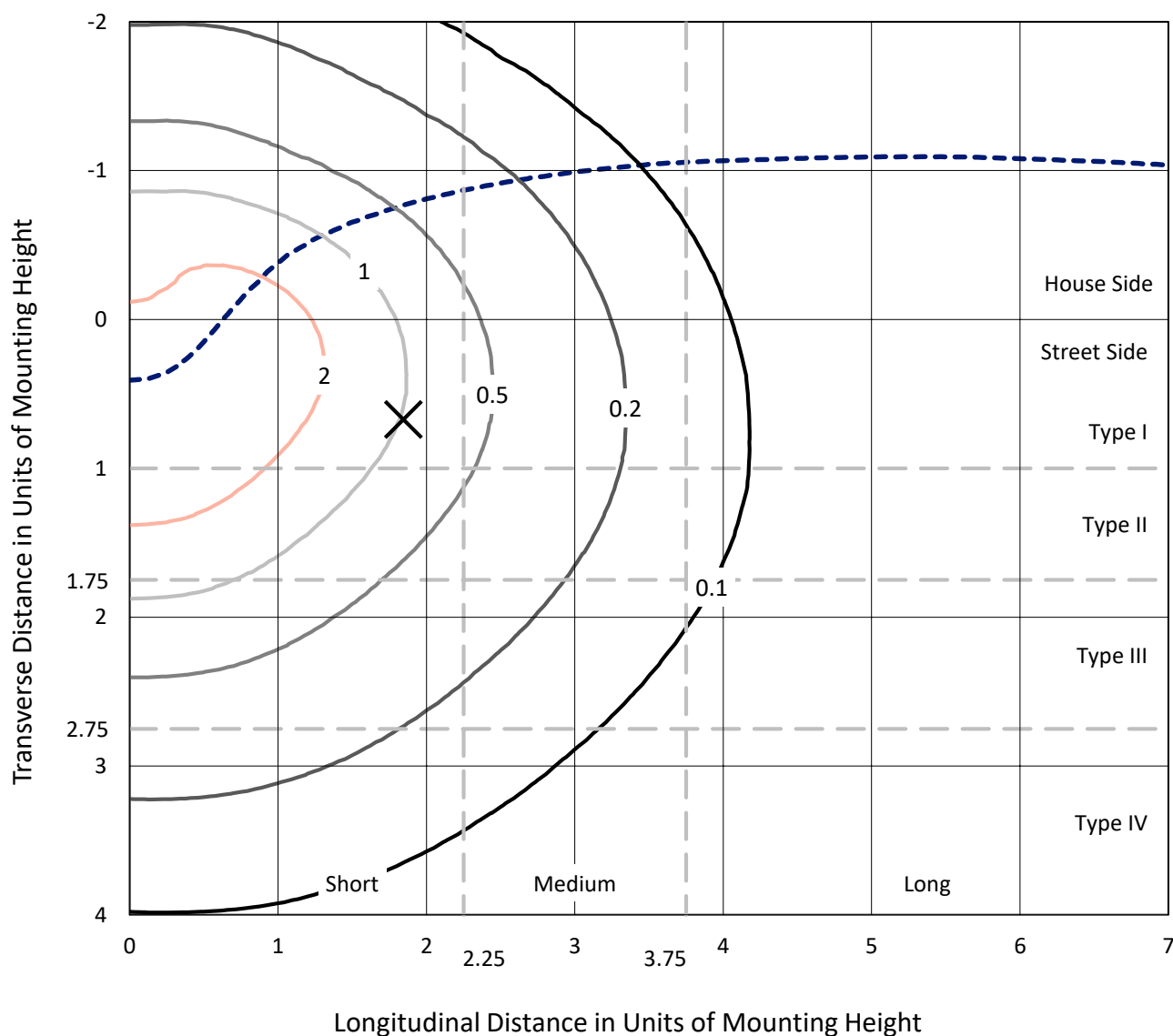
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

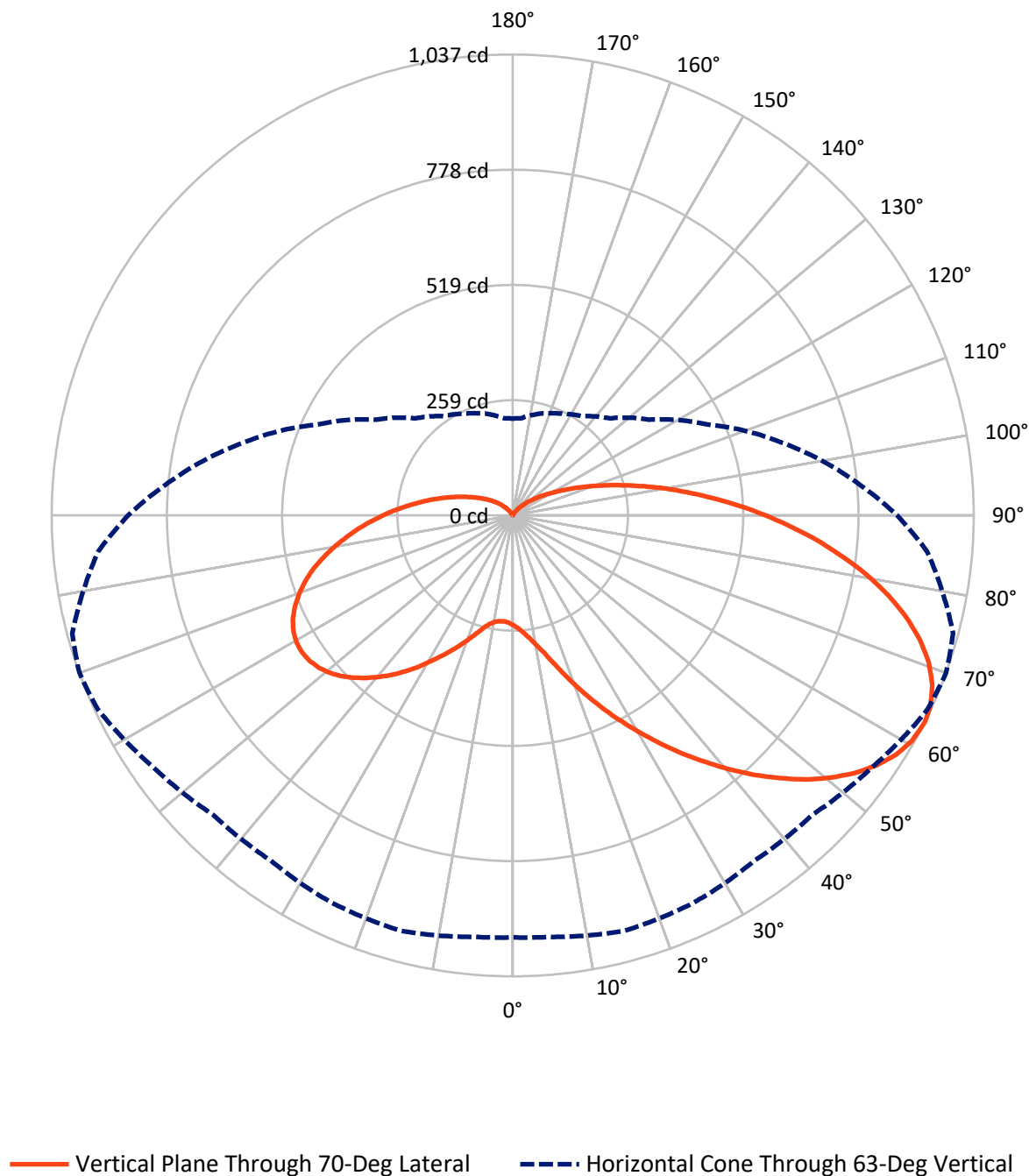


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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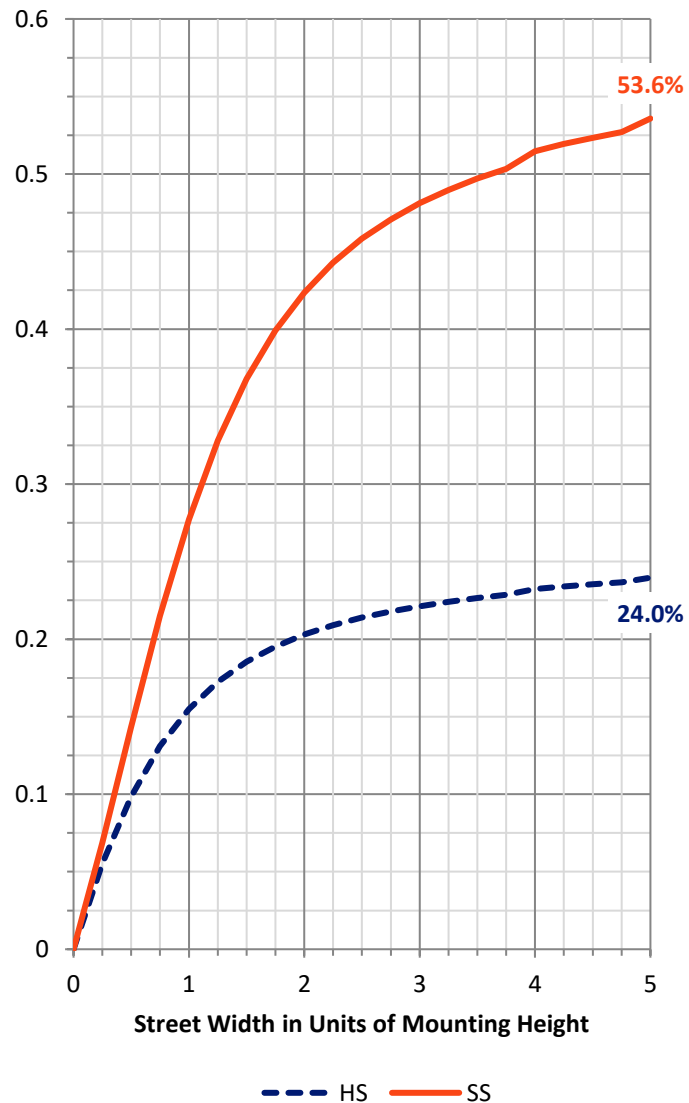
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.2	239.7	1298.9
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	2394.4	450.5	2844.9
	% Fixture	57.8	10.9	68.7
Total	Lumens	3453.6	690.2	4143.8
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	0.6
10°-20°	86.4	2.1
20°-30°	185.7	4.5
30°-40°	323.6	7.8
40°-50°	480.9	11.6
50°-60°	614.0	14.8
60°-70°	665.7	16.1
70°-80°	606.2	14.6
80°-90°	466.4	11.3
90°-100°	312.8	7.5
100°-110°	189.6	4.6
110°-120°	105.8	2.6
120°-130°	53.7	1.3
130°-140°	22.2	0.5
140°-150°	5.7	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3453.6	83.3
0°-180°	4143.8	100.0

Coefficient of Utilization



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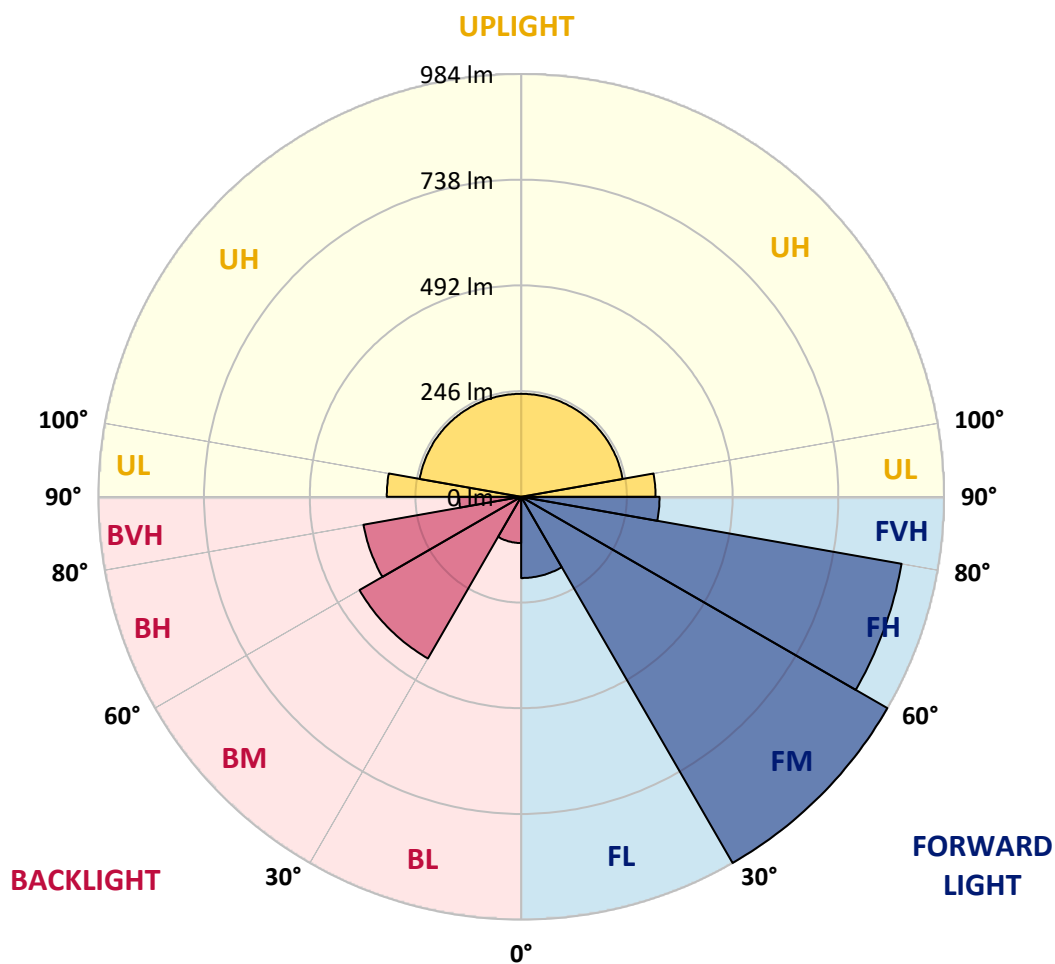
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.1	4.6			
FM	(30°-60°)	984.2	23.8			
FH	(60°-80°)	899.1	21.7			G1/1800
FVH	(80°-90°)	322.0	7.8			G3/500
BL	(0°-30°)	107.6	2.6	B0/110		
BM	(30°-60°)	434.4	10.5	B1/1000		
BH	(60°-80°)	372.9	9.0	B1/500		G1/500
BVH	(80°-90°)	144.4	3.5			G2/225
UL	(90°-100°)	312.8	7.5		U3/500	
UH	(100°-180°)	239.7	5.8		U3/500	

BUG Rating: B1-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	267.4	267.4	266.8	266.3	264.7	262.6	259.3	257.1	254.8	253.2	250.0
5°	290.3	291.4	289.3	288.1	284.4	279.9	275.1	269.0	266.3	262.6	255.9
7.5°	314.9	315.9	313.7	311.1	306.1	299.6	291.9	284.4	279.5	274.5	264.7
10°	342.1	342.7	339.9	336.7	330.7	322.4	314.2	302.8	297.3	290.8	277.8
12.5°	372.5	371.4	369.4	363.9	356.7	348.1	337.1	325.7	318.1	310.5	294.1
15°	407.4	406.8	403.1	396.5	387.8	377.9	364.9	352.3	344.8	336.7	317.0
17.5°	443.9	442.9	439.0	431.4	422.2	409.5	399.7	385.1	375.9	367.0	344.8
20°	480.5	479.9	477.1	468.5	458.0	448.3	435.1	420.0	410.6	398.7	373.1
22.5°	522.4	520.7	516.3	508.7	499.9	490.1	476.6	457.5	447.1	435.8	405.2
25°	564.2	563.7	558.2	550.1	543.0	532.2	519.1	496.8	486.4	470.6	438.0
27.5°	607.9	606.7	601.3	592.6	587.1	576.8	560.5	538.7	526.1	510.9	474.5
30°	653.1	652.4	646.1	637.3	631.2	621.4	604.6	581.2	568.6	551.7	510.9
32.5°	698.3	698.3	691.8	684.1	677.1	664.4	648.7	626.4	612.7	594.8	549.0
35°	745.7	742.9	738.0	731.0	719.5	707.0	692.9	672.7	658.5	638.9	590.5
37.5°	790.2	790.2	782.2	776.1	763.6	749.5	736.4	719.5	703.7	684.7	630.7
40°	834.4	835.0	827.3	819.8	803.4	790.2	778.9	765.3	751.2	731.5	674.8
42.5°	876.9	875.8	868.8	860.0	842.0	827.3	820.2	808.8	798.5	777.8	717.3
45°	916.1	913.3	907.9	897.5	876.9	862.3	859.5	854.1	843.1	824.6	760.3
47.5°	946.6	944.9	942.9	929.1	907.9	893.9	893.9	896.0	887.9	868.8	800.7
50°	971.6	971.2	970.1	954.8	931.9	921.0	925.3	933.0	927.6	910.7	836.6
52.5°	988.6	988.0	989.7	973.9	951.6	941.8	952.1	967.4	963.0	947.7	870.9
55°	995.1	995.1	1000.1	985.4	963.0	955.3	972.2	993.4	992.9	979.3	897.0
57.5°	992.4	992.9	1001.6	988.0	967.4	963.0	985.4	1014.1	1016.3	1002.8	918.8
60°	979.8	980.4	992.4	982.0	964.1	963.0	991.3	1026.8	1031.1	1019.0	931.5
62.5°	955.8	958.0	972.8	966.2	951.6	955.3	989.2	1030.5	1036.6	1025.1	936.3
63°	949.4	952.1	967.8	961.8	948.3	952.7	987.4	1030.5	1037.1	1025.7	936.3
65°	922.6	926.0	943.8	941.2	931.5	939.5	978.3	1024.4	1032.7	1022.4	931.5
67.5°	879.6	886.2	906.8	909.1	904.1	916.7	959.2	1009.2	1018.0	1008.2	916.7
70°	827.9	835.6	862.3	868.8	867.7	886.2	931.5	983.6	992.9	983.1	891.6
72.5°	772.4	782.8	807.1	821.4	828.4	848.5	897.0	948.8	958.0	947.7	858.4
75°	711.8	722.7	753.3	770.7	781.5	806.7	854.6	906.3	914.5	906.3	816.5
77.5°	651.5	662.3	693.3	715.7	732.6	762.5	809.9	857.3	863.4	854.6	767.4
80°	589.3	601.9	631.8	658.0	680.8	710.7	756.6	799.6	806.7	795.2	714.6
82.5°	527.8	538.7	572.4	602.9	627.5	657.4	700.9	741.3	744.5	733.1	656.3
85°	472.1	481.5	514.6	547.3	576.3	605.6	646.1	678.1	683.0	668.2	598.6
87.5°	420.0	427.1	461.9	494.0	523.4	556.1	592.1	617.7	617.7	606.3	538.2
90°	371.4	376.4	408.0	443.4	474.9	503.8	537.5	559.4	556.7	542.4	481.5
92.5°	324.6	330.7	361.7	395.4	427.6	457.5	484.7	499.5	495.7	481.0	427.1
95°	285.9	288.6	319.2	354.0	383.4	410.6	434.6	445.0	439.0	424.3	373.1
97.5°	250.5	252.8	279.5	312.6	344.2	369.4	385.6	392.2	386.2	371.4	329.0
100°	221.7	222.2	246.1	278.4	307.7	329.5	344.2	344.2	338.8	324.1	285.4
102.5°	193.3	194.5	214.1	246.1	274.0	293.0	304.4	303.4	293.6	278.8	247.8
105°	170.5	171.5	186.8	217.8	242.9	260.4	269.6	263.1	253.9	240.7	214.5
107.5°	150.3	150.8	162.9	190.6	214.5	231.0	235.9	228.8	218.4	205.9	187.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	134.6	133.9	143.3	167.3	190.1	203.6	206.4	197.6	187.3	177.1	161.8
112.5°	119.3	119.3	125.3	145.4	166.6	179.8	180.7	168.3	159.5	150.3	140.6
115°	106.8	106.2	110.6	126.3	146.0	156.8	155.8	144.4	136.2	128.5	122.0
117.5°	95.8	94.9	98.1	109.0	126.9	137.3	134.6	121.5	115.4	110.0	106.2
120°	86.1	85.5	87.1	94.9	109.0	117.0	114.4	102.9	97.5	94.9	92.5
122.5°	77.3	77.3	76.7	81.7	92.5	99.2	95.3	86.1	82.9	81.1	81.1
125°	69.7	69.7	68.6	70.2	77.3	82.9	79.5	72.0	69.7	69.7	70.2
127.5°	62.2	62.2	61.1	60.5	63.7	67.6	63.7	59.4	58.7	59.4	60.5
130°	54.9	54.4	53.4	51.3	51.7	53.4	50.7	48.5	49.0	50.7	51.7
132.5°	48.5	47.9	46.4	42.9	40.9	40.9	38.6	38.6	40.3	42.0	44.1
135°	42.0	41.4	39.7	35.9	32.1	30.0	28.3	30.5	32.7	34.3	36.6
137.5°	35.5	34.9	32.7	28.8	24.0	20.8	20.1	23.4	25.6	27.8	29.5
140°	28.8	28.3	26.1	22.4	16.9	13.0	13.0	17.4	19.7	21.2	23.4
142.5°	22.8	22.4	20.8	16.3	10.9	8.2	8.8	12.5	14.2	15.8	17.4
145°	16.9	16.9	15.2	11.5	6.6	3.9	4.9	8.2	9.8	10.9	12.5
147.5°	11.5	11.5	9.8	7.0	3.9	1.6	2.2	4.9	6.0	7.0	8.2
150°	7.0	7.0	6.0	3.9	1.6	0.0	1.1	2.2	3.2	3.9	4.9
152.5°	3.9	3.9	2.8	1.6	0.5	0.0	0.0	1.1	1.1	1.6	2.2
155°	1.6	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
157.5°	0.5	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°	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.3
2.5°	248.4	246.8	242.9	240.1	237.0	234.2	232.7	229.8	228.2	228.8	228.2
5°	252.8	249.5	242.4	236.3	229.8	224.3	220.1	216.2	214.1	212.4	213.0
7.5°	259.8	254.8	244.6	234.7	224.9	216.9	210.3	205.4	201.0	200.0	199.3
10°	270.7	264.1	249.5	236.3	223.9	212.4	203.6	196.5	192.2	190.1	190.1
12.5°	285.9	276.7	258.2	240.7	224.9	210.8	200.0	191.2	186.3	184.2	183.6
15°	307.2	295.7	272.8	249.5	229.2	212.4	199.3	190.6	186.8	185.7	185.2
17.5°	331.7	319.2	290.8	263.7	238.1	216.9	204.3	197.2	192.7	190.6	190.1
20°	359.5	343.2	311.1	279.5	250.5	228.2	214.1	204.3	198.9	196.1	195.6
22.5°	387.8	369.8	332.8	296.4	264.7	244.0	223.9	211.9	204.3	201.0	200.0
25°	418.3	398.2	355.1	314.2	282.2	258.7	235.9	218.4	209.8	205.9	205.9
27.5°	450.9	427.6	378.5	332.8	300.2	272.4	247.3	225.5	215.1	210.8	210.3
30°	485.4	459.2	402.5	352.9	317.0	284.9	257.1	233.1	220.7	215.8	215.1
32.5°	522.4	492.5	429.2	374.8	332.8	296.4	265.8	240.1	225.5	219.5	218.9
35°	558.8	525.1	454.3	396.0	346.9	306.1	272.8	247.3	229.2	223.3	222.8
37.5°	599.1	560.0	481.0	416.6	360.0	313.7	278.8	252.8	233.1	226.6	225.5
40°	637.7	594.1	505.9	435.1	370.9	320.9	283.8	257.6	236.3	229.2	228.2
42.5°	676.0	629.2	531.1	452.7	380.3	325.1	287.1	260.9	239.7	231.6	229.8
45°	714.1	661.8	556.7	466.8	387.3	329.0	289.3	263.7	242.4	232.7	231.6
47.5°	749.5	693.9	580.0	479.3	392.2	330.7	290.3	264.7	244.6	233.1	231.6
50°	783.2	721.7	599.7	488.6	395.4	330.7	290.3	265.3	245.6	233.1	232.0
52.5°	812.6	745.7	615.5	494.5	396.0	329.0	288.6	264.7	245.6	232.0	230.3
55°	835.0	765.3	626.8	497.3	394.4	326.3	285.9	263.1	245.1	230.3	228.8
57.5°	852.9	778.9	634.1	496.8	390.6	322.0	282.6	260.9	243.5	227.7	226.1
60°	863.8	785.9	635.1	492.9	385.1	316.5	278.4	257.6	241.3	224.9	222.8
62.5°	865.4	785.4	631.2	485.4	376.8	309.9	272.8	253.2	237.5	220.7	218.4
63°	864.9	784.8	629.2	483.6	375.3	308.8	272.4	252.8	237.0	219.5	217.8
65°	858.9	778.3	620.9	474.9	367.6	302.3	267.4	248.4	233.6	216.2	213.4
67.5°	843.1	763.6	605.6	460.2	356.2	293.6	260.4	242.9	228.2	210.8	208.0
70°	819.2	742.9	584.9	443.9	344.2	284.4	252.8	235.9	222.2	204.9	201.5
72.5°	787.0	713.0	561.0	424.9	330.0	274.0	244.0	228.2	214.5	198.3	193.3
75°	748.4	678.1	534.3	404.1	314.9	263.1	235.3	220.7	207.0	190.6	185.7
77.5°	702.0	638.3	501.1	382.4	300.2	251.6	225.5	211.3	198.3	181.9	177.1
80°	652.4	594.1	467.8	357.9	283.8	239.7	215.8	201.5	188.5	173.3	167.3
82.5°	600.2	546.9	432.4	334.3	267.4	227.1	205.4	191.2	178.7	163.9	158.6
85°	547.3	499.5	398.2	311.1	250.5	215.1	194.5	181.4	167.8	153.6	148.1
87.5°	495.1	453.1	364.9	286.5	234.7	203.1	183.6	170.5	156.8	143.3	138.9
90°	445.0	408.5	330.0	263.7	218.4	190.1	172.7	159.5	146.6	132.9	128.5
92.5°	394.9	363.3	298.4	242.9	203.1	178.1	161.8	148.7	135.0	122.0	119.3
95°	350.2	323.0	268.6	220.7	188.5	166.6	150.8	138.3	124.1	111.7	110.0
97.5°	308.3	284.9	239.0	201.5	173.7	154.1	140.0	126.9	112.7	101.2	100.3
100°	270.7	251.6	214.1	181.9	159.0	142.7	129.6	116.6	102.3	92.5	91.4
102.5°	236.3	221.2	190.6	164.5	146.0	131.2	118.1	105.7	92.0	83.4	83.4
105°	207.0	193.3	168.8	148.1	132.4	119.3	107.3	94.9	81.1	74.1	74.1
107.5°	179.2	169.9	149.7	132.4	119.8	108.3	96.9	84.4	71.3	65.8	66.5



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CATALOG NUMBER: UTLD-AF24-50-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	156.3	148.7	131.8	118.8	108.3	98.1	87.1	74.6	62.2	58.3	58.7
112.5°	136.2	130.2	116.1	105.7	96.9	88.3	77.3	64.8	53.9	51.7	52.3
115°	118.8	113.8	102.9	93.8	86.5	78.4	68.6	56.1	46.8	45.8	45.8
117.5°	103.5	99.7	90.4	83.4	76.7	69.7	59.8	48.5	40.3	40.3	40.3
120°	91.0	87.7	80.0	73.5	68.1	61.1	51.7	40.9	34.9	35.5	35.5
122.5°	79.1	76.7	69.7	64.8	59.4	53.4	44.1	33.7	30.0	31.0	31.6
125°	69.2	67.1	61.5	56.1	51.3	45.3	36.6	28.3	26.1	27.2	27.2
127.5°	59.4	58.3	53.4	48.5	44.1	38.1	30.0	23.4	22.8	24.0	24.0
130°	51.3	50.1	46.4	40.9	36.6	31.0	24.0	19.0	19.0	20.1	20.1
132.5°	43.6	42.9	39.3	34.3	30.0	24.6	19.0	15.2	16.3	17.4	17.4
135°	35.9	35.9	32.7	27.8	23.4	18.5	14.2	12.5	13.7	14.7	14.7
137.5°	29.5	28.8	26.1	21.7	17.4	13.7	10.3	9.8	11.5	12.5	12.5
140°	23.4	22.8	20.8	16.9	12.5	9.3	7.0	7.6	9.3	9.8	10.3
142.5°	17.4	17.4	15.2	12.5	8.2	5.4	4.3	6.0	7.0	7.6	8.2
145°	12.5	12.5	10.9	8.2	4.9	2.8	2.8	4.3	5.4	6.0	6.0
147.5°	8.2	8.2	7.0	4.9	2.8	1.1	1.6	2.8	3.9	4.3	4.3
150°	4.9	4.3	3.9	2.2	1.1	0.0	0.5	1.1	2.2	2.8	2.2
152.5°	2.2	2.2	1.6	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1
155°	0.5	0.5	0.5	0.5	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)