

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: P240047

Luminaire Tested: **UTLD-AF24-30-D-U-SL3-A**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-17)
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-SL3-A
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2794.7 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - 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

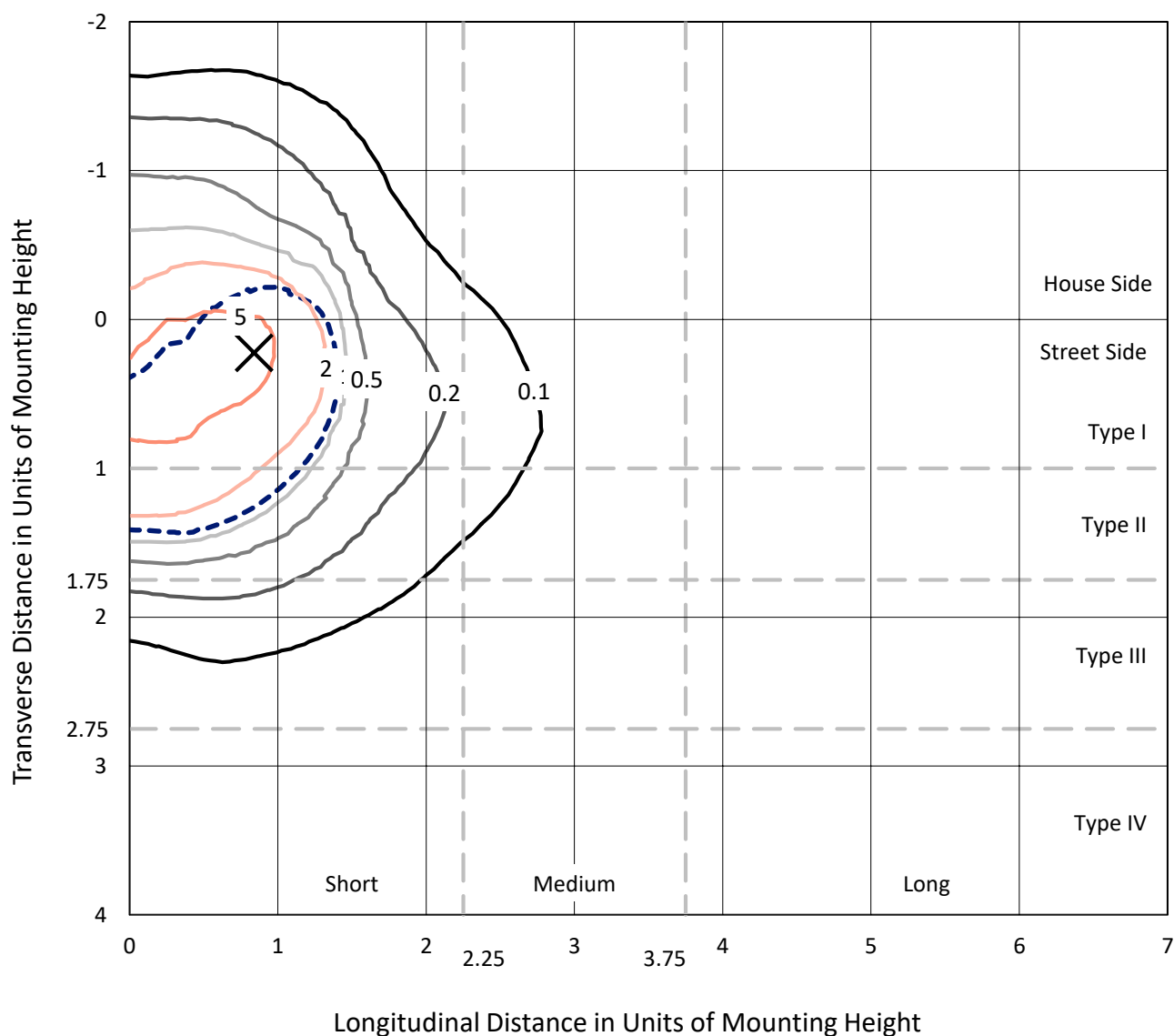


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

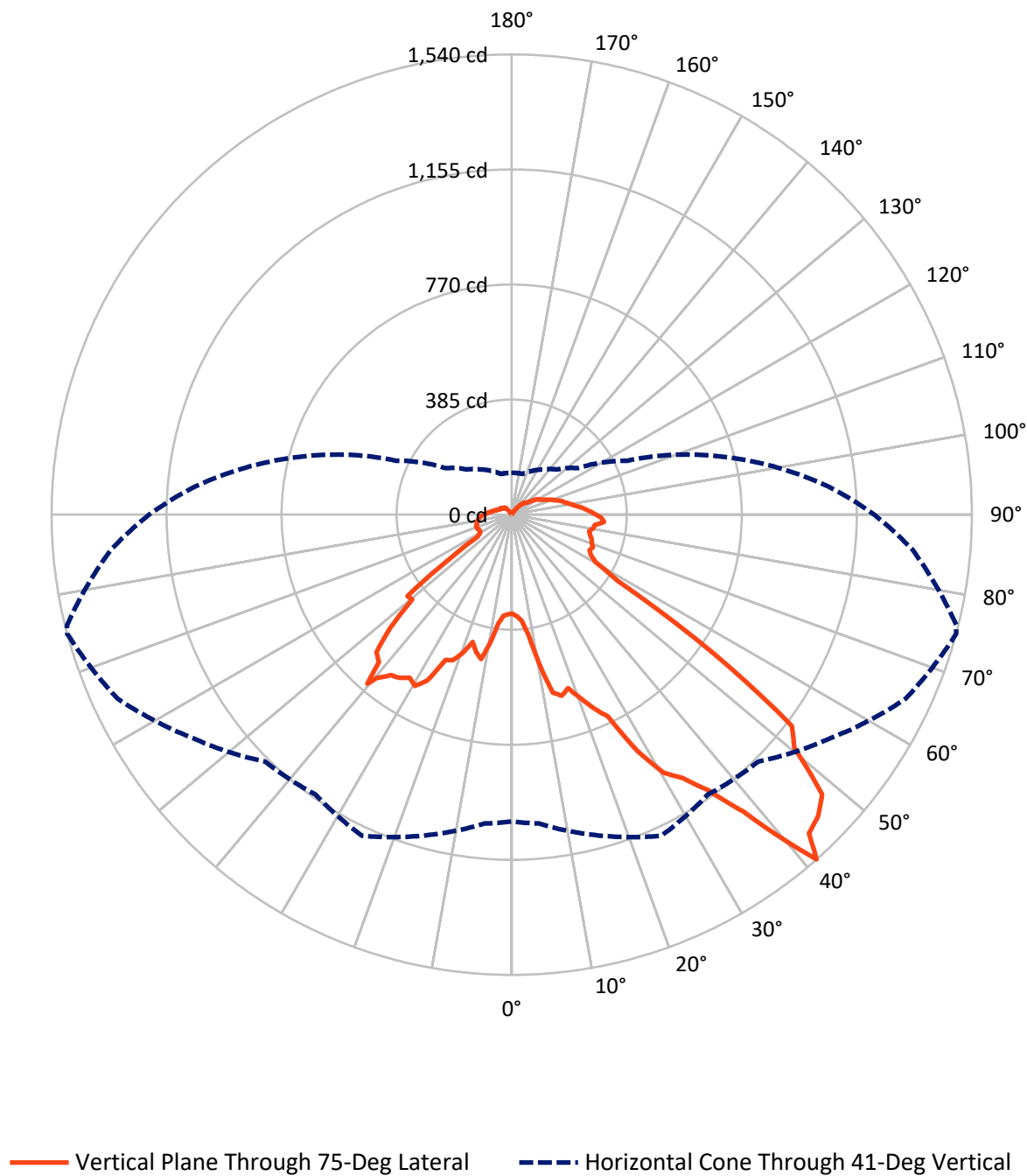


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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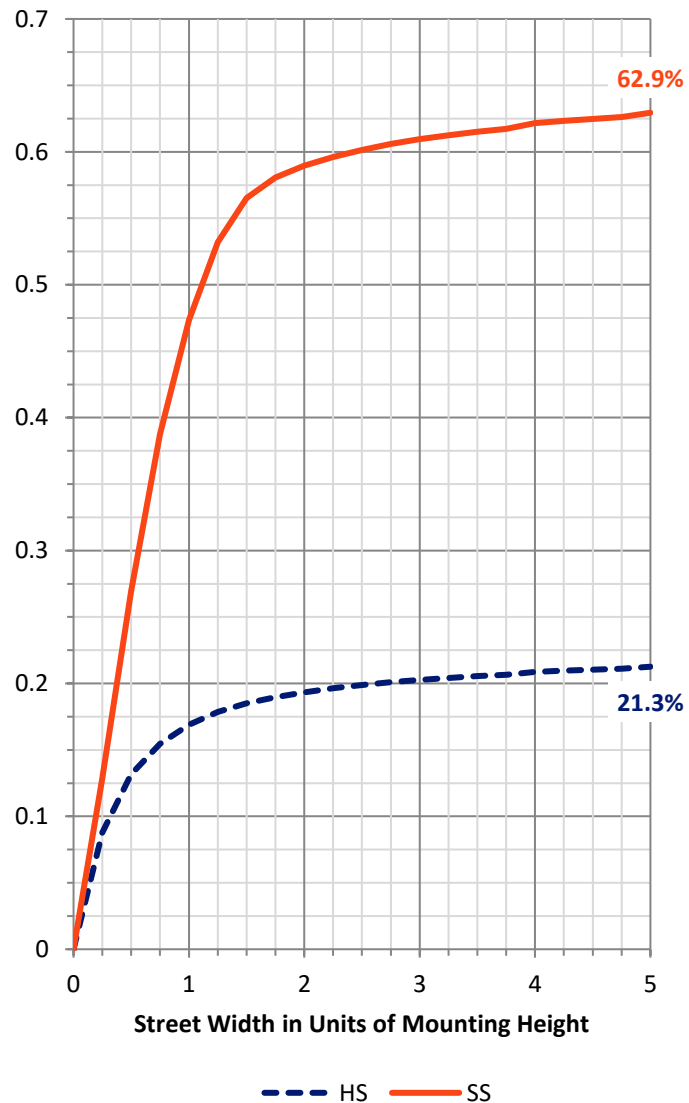
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.5	78.6	695.1
	% Fixture	22.1	2.8	24.9
Street Side	Lumens	1813.1	286.5	2099.6
	% Fixture	64.9	10.3	75.1
Total	Lumens	2429.6	365.2	2794.7
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	1.2
10°-20°	138.3	4.9
20°-30°	284.1	10.2
30°-40°	462.6	16.6
40°-50°	600.8	21.5
50°-60°	426.0	15.2
60°-70°	173.2	6.2
70°-80°	156.7	5.6
80°-90°	153.0	5.5
90°-100°	131.3	4.7
100°-110°	95.1	3.4
110°-120°	64.9	2.3
120°-130°	42.1	1.5
130°-140°	25.1	0.9
140°-150°	6.4	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2429.6	86.9
0°-180°	2794.7	100.0

Coefficient of Utilization



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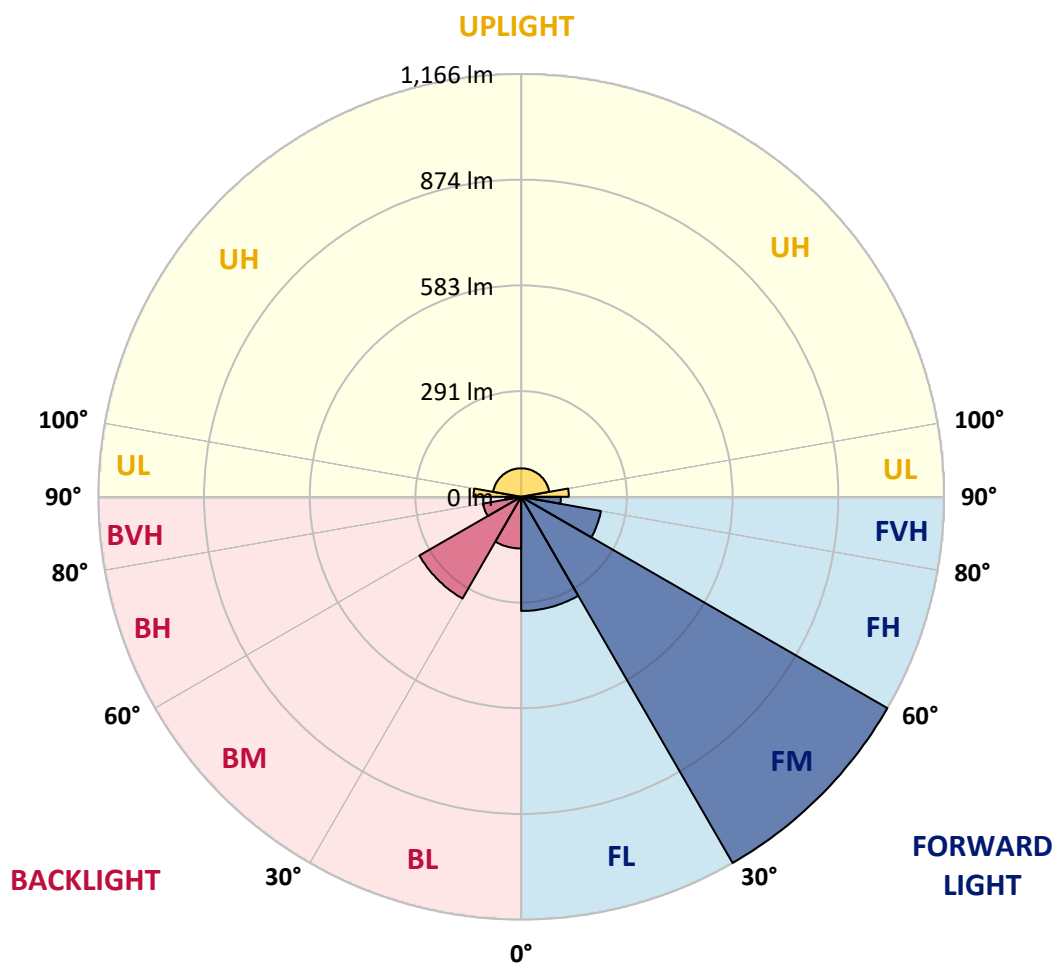
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.7	11.3			
FM	(30°-60°)	1165.6	41.7			
FH	(60°-80°)	223.2	8.0			G0/660
FVH	(80°-90°)	109.6	3.9			G2/225
BL	(0°-30°)	142.6	5.1	B1/500		
BM	(30°-60°)	323.8	11.6	B1/1000		
BH	(60°-80°)	106.7	3.8	B0/110		G0/110
BVH	(80°-90°)	43.4	1.6			G1/100
UL	(90°-100°)	131.3	4.7		U3/500	
UH	(100°-180°)	78.6	2.8		U3/500	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	354.6	355.4	353.8	352.6	351.8	349.4	347.4	344.6	340.6	340.2	338.7
5°	386.9	386.9	386.9	384.0	380.8	375.7	371.3	365.0	357.4	357.0	351.0
7.5°	438.9	438.9	436.6	432.6	425.4	417.5	416.6	415.9	405.5	404.4	393.6
10°	495.1	493.5	494.7	497.9	501.5	512.2	518.9	519.8	508.6	505.8	490.3
12.5°	517.0	518.5	532.5	558.0	601.0	643.9	666.2	647.9	610.9	606.1	569.5
15°	550.4	552.4	575.5	618.1	689.7	751.8	732.6	686.9	628.4	624.0	567.5
17.5°	640.0	649.1	671.4	739.1	811.9	786.9	722.3	663.5	610.5	605.4	558.0
20°	702.9	708.0	750.9	815.9	867.2	829.0	784.8	725.5	654.3	654.3	617.2
22.5°	754.9	753.4	788.4	886.3	916.2	891.5	840.1	779.7	704.0	700.4	652.3
25°	837.0	842.1	902.7	1010.9	983.5	920.6	852.8	797.6	747.8	743.5	695.3
27.5°	884.8	898.3	967.9	1061.8	1044.3	959.5	900.2	891.9	895.5	891.9	839.3
30°	896.6	902.7	988.6	1081.7	1069.8	1006.9	1006.9	1020.8	1002.5	997.4	926.9
32.5°	926.5	940.8	1023.3	1095.7	1066.6	1054.7	1061.0	1058.2	1050.3	1043.1	961.2
35°	975.1	987.4	1064.6	1119.1	1066.2	1070.6	1127.9	1160.9	1132.3	1125.9	1003.7
37.5°	1102.8	1114.7	1184.4	1181.2	1094.5	1102.8	1206.7	1267.1	1262.0	1261.2	1140.2
40°	1077.4	1116.8	1201.1	1214.2	1136.6	1145.8	1270.0	1401.3	1461.8	1460.2	1310.2
41°	1026.4	1037.2	1110.7	1185.2	1143.5	1167.7	1303.0	1455.5	1539.7	1533.8	1346.0
42.5°	1044.7	1063.8	1107.5	1132.3	1135.5	1184.0	1328.9	1462.2	1457.8	1455.0	1301.4
45°	1200.7	1208.7	1227.0	1179.7	1099.7	1160.1	1314.5	1438.3	1438.0	1425.2	1355.9
47.5°	1125.5	1148.2	1226.2	1184.0	1096.1	1095.3	1196.8	1364.3	1397.8	1379.4	1207.1
50°	1064.6	1081.0	1126.3	1081.4	1042.7	1041.9	1137.4	1263.5	1225.4	1220.2	983.5
52.5°	944.4	960.3	992.6	981.4	959.5	957.2	1030.0	1162.1	1174.0	1170.1	992.6
55°	718.0	729.1	850.5	853.7	837.4	845.3	904.2	958.0	824.2	802.7	558.0
57.5°	421.9	450.5	568.4	641.9	675.8	682.1	661.8	566.7	418.3	403.1	257.5
60°	208.2	222.9	304.8	382.9	470.5	473.6	409.1	362.1	321.2	312.0	225.3
62.5°	148.4	157.2	210.9	252.4	301.3	309.2	286.5	306.1	297.3	291.7	219.3
65°	134.5	142.1	187.1	209.0	229.2	241.6	247.1	279.8	286.5	282.9	217.7
67.5°	123.0	130.5	170.7	187.4	202.5	222.5	234.5	266.7	292.6	290.1	230.9
70°	108.6	117.4	154.1	174.3	193.0	215.7	232.0	265.9	284.6	281.4	223.6
72.5°	95.1	103.1	132.9	156.8	184.2	210.1	234.5	259.1	279.8	277.0	226.5
75°	82.8	90.7	116.6	141.3	172.7	211.8	236.0	257.1	270.3	266.3	222.5
77.5°	74.5	82.3	104.6	129.0	164.0	214.1	257.9	265.9	265.5	261.5	217.7
80°	67.6	75.6	96.7	120.2	156.0	219.3	275.8	283.8	276.6	271.4	218.9
82.5°	65.7	73.2	92.7	118.6	157.6	222.5	281.0	300.8	280.6	274.3	217.7
85°	72.8	77.6	97.9	126.9	168.0	228.0	279.0	310.5	310.1	303.3	237.6
87.5°	86.7	90.7	110.7	140.0	179.1	231.2	303.6	316.4	299.7	296.5	240.0
90°	107.4	110.3	130.9	158.0	190.7	229.7	250.3	266.7	277.8	275.4	227.6
92.5°	127.8	131.3	150.1	169.9	184.6	197.4	217.7	255.5	257.1	255.1	218.9
95°	151.6	154.1	164.8	174.7	177.9	182.3	202.5	219.3	237.6	235.2	210.9
97.5°	164.8	165.9	170.7	169.5	161.9	162.8	185.5	203.4	214.5	211.8	184.6
100°	161.6	162.8	163.6	156.4	146.1	149.2	168.0	189.5	198.1	197.0	171.1
102.5°	151.2	153.2	153.6	146.5	136.9	137.7	156.0	172.4	181.5	179.9	159.6
105°	148.4	149.2	145.7	136.2	125.0	126.5	144.0	161.6	172.4	171.5	150.9
107.5°	133.7	134.5	129.3	120.2	116.2	120.6	136.5	147.6	154.8	154.8	134.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
110°	112.2	112.2	111.0	109.0	109.9	116.2	129.3	136.5	142.5	142.1	123.0
112.5°	108.6	107.8	106.7	105.1	102.7	107.8	116.6	125.4	126.5	126.1	109.9
115°	107.1	105.9	101.9	97.5	94.7	98.7	105.5	113.4	116.6	116.2	104.6
117.5°	94.7	94.7	91.6	88.4	87.2	92.4	100.7	105.9	106.3	107.1	96.0
120°	84.8	84.8	82.8	81.2	81.9	84.4	93.5	97.9	101.9	101.5	92.0
122.5°	77.2	77.6	76.0	72.8	75.6	78.1	83.2	87.6	92.0	91.6	84.8
125°	69.7	69.3	67.6	64.0	70.5	73.7	74.1	73.7	78.1	78.1	72.0
127.5°	61.7	61.3	59.7	57.7	66.1	70.5	69.7	63.3	66.1	65.7	62.9
130°	60.9	60.5	57.7	55.3	59.3	66.9	63.3	58.9	61.3	61.7	58.9
132.5°	60.5	60.0	57.3	53.3	52.2	60.0	53.7	54.5	57.3	57.3	54.9
135°	56.5	56.2	53.7	48.2	42.6	49.7	42.6	47.0	50.5	50.5	48.6
137.5°	49.7	49.3	47.0	42.1	34.3	35.4	32.2	39.4	43.4	43.8	42.1
140°	39.4	39.8	37.4	32.6	24.7	18.7	21.1	30.7	34.6	34.6	34.3
142.5°	29.5	29.5	27.1	22.3	14.3	6.8	12.0	18.7	23.5	23.8	24.7
145°	20.7	20.7	18.3	14.3	7.2	1.2	5.5	11.2	14.7	14.7	16.0
147.5°	13.5	13.5	11.6	8.0	1.9	0.4	1.6	5.5	8.8	8.8	9.5
150°	8.4	8.4	6.3	2.4	0.4	0.0	0.4	1.2	4.0	4.0	5.2
152.5°	2.8	2.4	1.2	0.8	0.4	0.0	0.0	0.4	0.4	0.4	1.2
155°	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5	331.5
2.5°	336.7	335.9	333.1	329.5	325.2	319.6	316.0	314.5	312.4	310.9	311.6
5°	347.8	345.0	338.7	327.1	316.4	308.4	302.1	296.5	293.7	291.3	291.3
7.5°	388.4	383.6	365.7	346.3	321.9	300.0	284.6	276.6	267.4	265.0	264.6
10°	476.8	470.9	433.0	386.1	340.2	297.3	258.3	237.2	227.2	222.1	223.3
12.5°	550.0	536.4	493.5	440.2	376.9	307.6	253.5	215.7	199.0	192.6	190.3
15°	544.0	521.4	474.8	424.2	374.9	324.4	270.3	227.6	193.0	181.5	179.1
17.5°	530.9	507.1	445.4	380.4	322.7	291.7	261.5	230.5	204.2	186.7	183.5
20°	597.8	570.7	490.3	425.9	344.6	266.3	231.6	214.1	197.4	188.6	186.7
22.5°	626.5	598.9	525.0	443.3	362.9	295.3	238.8	206.5	193.4	191.8	189.5
25°	669.4	634.7	534.1	431.4	353.8	298.5	239.2	207.4	187.8	187.8	186.7
27.5°	808.3	757.8	623.6	479.2	367.3	286.9	233.2	198.1	174.7	165.5	163.6
30°	870.4	822.2	657.9	491.5	373.3	289.7	222.1	181.9	166.3	159.6	158.8
32.5°	915.3	852.5	643.5	461.7	343.1	270.7	212.6	175.9	160.4	154.5	152.8
35°	937.6	854.9	662.7	450.9	324.8	248.4	201.4	169.1	159.6	154.8	154.8
37.5°	1046.3	943.6	672.2	448.2	310.9	226.9	191.4	169.5	149.2	142.5	142.9
40°	1196.3	1050.3	708.0	427.4	283.8	219.3	185.1	161.9	143.3	138.9	137.3
41°	1213.0	1065.8	743.8	427.1	271.0	213.7	184.6	161.2	140.9	140.0	139.7
42.5°	1168.5	1016.1	663.5	388.0	254.3	204.6	183.8	160.4	138.5	140.5	140.0
45°	1219.5	1068.2	645.5	355.4	225.3	189.5	174.3	156.0	136.9	133.3	133.7
47.5°	1059.5	905.4	555.6	309.2	199.4	173.1	161.2	146.1	132.9	130.9	130.9
50°	843.7	710.0	437.0	271.8	175.5	159.6	148.4	138.5	125.0	119.8	121.4
52.5°	859.7	719.1	442.9	253.1	159.6	145.7	138.5	126.1	110.3	100.7	102.3
55°	472.8	409.9	259.1	194.3	148.0	135.3	126.9	114.3	96.7	85.9	87.2
57.5°	214.5	178.3	137.7	133.7	128.2	124.6	115.4	103.8	87.2	75.2	75.2
60°	191.8	157.2	123.0	111.8	114.6	115.0	105.5	94.3	78.1	64.0	64.4
62.5°	187.4	153.2	119.4	106.7	109.0	109.0	99.9	88.8	74.1	59.7	59.7
65°	186.7	151.6	119.8	105.1	106.7	107.1	97.9	88.8	78.8	68.4	69.3
67.5°	197.8	160.4	123.8	103.8	105.5	105.5	97.9	91.1	85.2	78.8	79.6
70°	191.8	157.6	123.0	103.8	103.1	103.1	97.5	91.6	88.4	82.8	83.2
72.5°	194.3	162.3	125.4	103.1	99.9	99.1	95.5	92.0	89.1	86.3	86.7
75°	190.7	160.8	121.4	99.1	95.1	93.5	91.1	90.3	90.7	89.5	88.8
77.5°	185.1	158.0	118.6	95.1	90.7	87.2	85.5	85.9	87.6	86.3	85.2
80°	184.2	158.4	117.4	92.7	85.2	79.2	77.2	78.1	78.4	76.0	73.7
82.5°	181.9	155.2	111.8	86.3	76.8	69.3	67.6	68.8	69.3	66.9	64.4
85°	195.8	163.6	110.3	80.4	69.7	61.7	58.9	59.3	56.5	52.9	50.5
87.5°	201.4	165.2	103.8	71.2	62.5	55.8	52.2	49.7	45.4	39.4	37.8
90°	191.4	156.8	93.5	61.3	54.9	49.7	45.4	42.1	36.6	30.7	28.6
92.5°	185.5	150.5	85.9	54.9	48.2	43.8	39.8	35.0	29.5	22.7	21.5
95°	181.9	148.0	81.2	49.0	43.0	38.6	34.6	30.3	24.7	19.5	18.7
97.5°	158.4	128.2	71.6	43.8	37.8	33.9	30.3	25.9	20.7	16.7	16.0
100°	147.2	119.4	66.5	39.4	33.5	29.9	26.7	23.1	18.7	16.0	15.5
102.5°	137.7	111.0	60.5	35.4	29.9	26.3	23.5	20.3	17.1	14.7	15.1
105°	130.5	105.9	58.1	32.6	26.7	23.8	20.7	18.3	15.1	13.5	13.5
107.5°	115.8	93.9	51.4	29.5	24.2	21.5	19.1	16.7	14.3	13.1	13.5



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CATALOG NUMBER: UTLD-AF24-30-D-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	107.1	87.2	49.0	28.2	23.1	19.9	17.5	15.1	12.7	12.7	12.7
112.5°	95.1	78.4	45.4	26.7	21.5	18.7	16.4	13.5	11.2	11.6	12.0
115°	91.1	75.6	43.8	25.5	20.7	17.9	15.1	12.7	9.9	10.7	11.2
117.5°	84.0	70.1	42.6	25.5	19.9	16.7	14.3	12.0	9.5	10.3	10.3
120°	81.6	68.8	42.6	25.1	19.1	16.0	13.5	10.3	8.8	9.5	9.5
122.5°	76.0	64.4	40.6	24.7	18.3	15.1	13.1	8.8	7.6	8.4	8.4
125°	65.3	56.2	36.6	23.1	17.5	15.1	12.7	7.2	7.2	8.0	8.0
127.5°	56.9	49.3	33.5	22.7	17.9	16.0	12.0	5.9	6.3	7.2	7.2
130°	54.1	48.2	34.6	24.7	19.5	16.7	8.8	5.5	5.9	6.8	7.2
132.5°	51.4	46.5	35.4	26.7	20.7	16.4	7.2	5.2	5.5	6.3	6.3
135°	45.7	42.1	33.0	25.5	19.5	13.1	5.2	4.4	5.2	5.9	5.9
137.5°	40.2	37.4	30.3	23.5	17.9	10.3	3.6	4.0	4.4	4.8	4.8
140°	33.0	30.7	25.1	19.1	13.1	5.5	2.4	3.2	3.6	4.0	4.0
142.5°	23.8	22.3	17.9	12.7	7.6	1.9	1.6	2.4	2.8	3.2	3.2
145°	16.0	14.7	11.6	8.0	2.8	1.2	0.8	1.6	2.4	2.4	2.8
147.5°	9.5	9.1	6.8	3.6	1.2	0.8	0.8	1.2	1.6	1.9	1.9
150°	4.8	4.8	3.2	1.2	0.8	0.4	0.4	0.4	0.8	1.2	1.2
152.5°	1.2	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.4	0.4	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)