

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: P241010

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-47)
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-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3058.2 lumens
Efficiency: N/A
Efficacy: 98.7 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 - U2 - G1

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

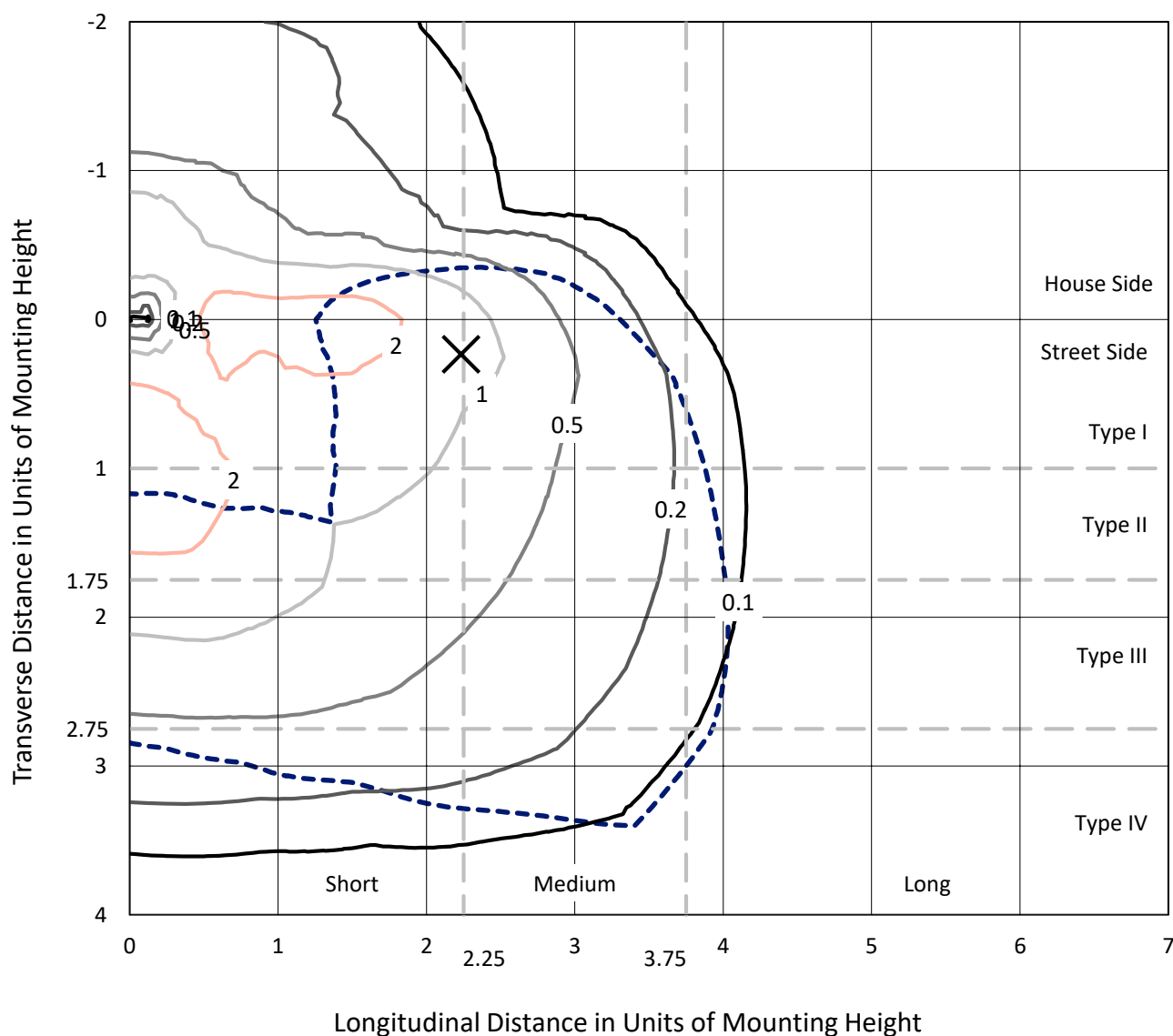


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

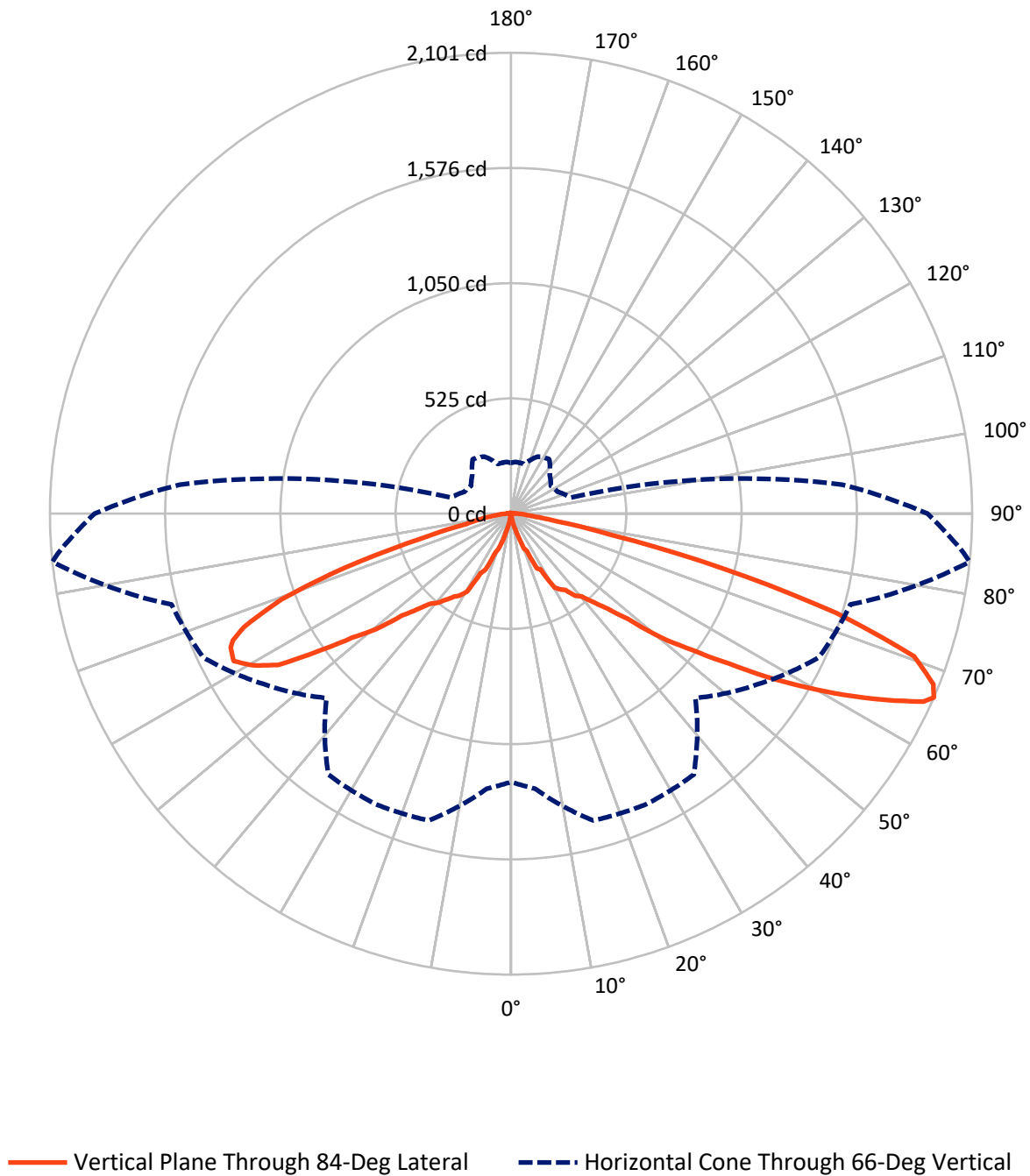


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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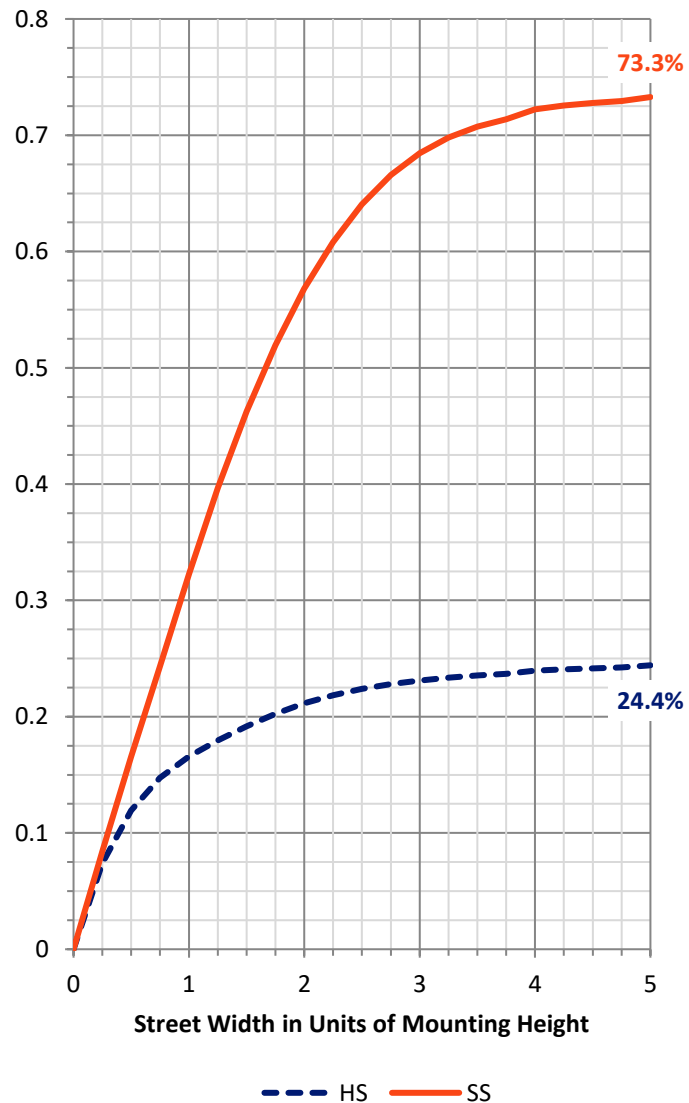
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.3	18.6	783.9
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	2256.8	17.5	2274.3
	% Fixture	73.8	0.6	74.4
Total	Lumens	3022.1	36.1	3058.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	28.4	0.9
20°-30°	104.9	3.4
30°-40°	215.7	7.1
40°-50°	357.9	11.7
50°-60°	624.0	20.4
60°-70°	919.2	30.1
70°-80°	670.8	21.9
80°-90°	99.0	3.2
90°-100°	18.4	0.6
100°-110°	8.4	0.3
110°-120°	4.0	0.1
120°-130°	2.8	0.1
130°-140°	1.7	0.1
140°-150°	0.7	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3022.1	98.8
0°-180°	3058.2	100.0

Coefficient of Utilization



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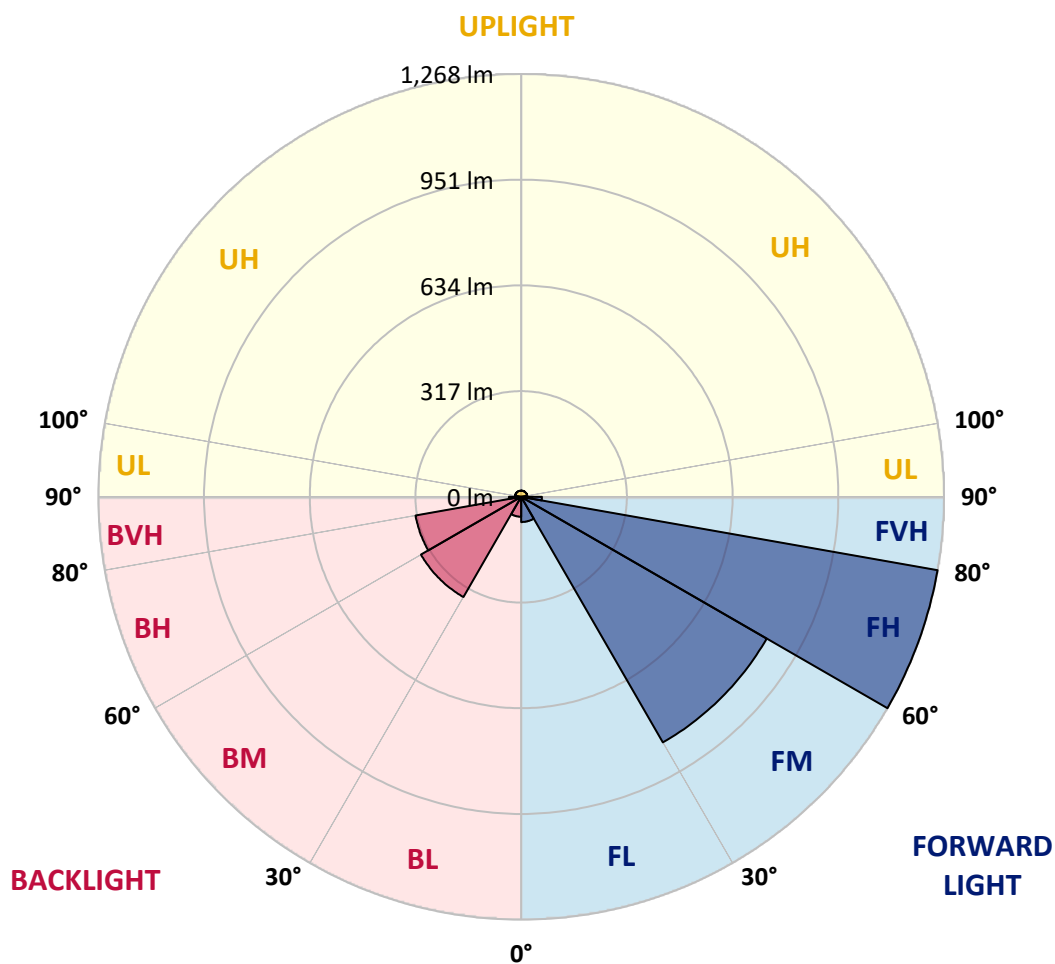
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.7	2.5			
FM	(30°-60°)	850.5	27.8			
FH	(60°-80°)	1268.3	41.5			G1/1800
FVH	(80°-90°)	62.2	2.0			G1/100
BL	(0°-30°)	59.9	2.0	B0/110		
BM	(30°-60°)	347.0	11.3	B1/1000		
BH	(60°-80°)	321.7	10.5	B1/500		G1/500
BVH	(80°-90°)	36.7	1.2			G1/100
UL	(90°-100°)	18.4	0.6		U2/50	
UH	(100°-180°)	18.6	0.6		U2/50	

BUG Rating: B1-U2-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	18.0	16.2	16.2	15.4	13.8	12.4	9.9	8.3	7.1	7.1	6.8
5°	34.6	36.5	42.2	38.8	32.0	41.7	18.8	12.4	7.8	6.8	6.8
7.5°	54.9	57.9	44.4	39.6	39.6	42.2	34.2	20.6	10.5	7.8	7.5
10°	115.2	108.7	75.6	76.7	65.1	45.6	31.2	27.5	16.2	12.8	11.7
12.5°	111.8	110.3	112.5	98.3	99.0	71.9	39.9	63.9	57.9	55.2	60.9
15°	144.1	142.6	114.4	116.6	105.8	109.8	92.6	92.3	89.1	74.9	71.9
17.5°	200.2	198.7	223.9	148.9	106.1	137.3	119.2	102.7	106.4	112.5	117.0
20°	199.7	197.5	208.0	178.7	181.0	141.8	127.2	187.0	170.8	171.5	161.8
22.5°	294.9	281.4	247.2	186.7	203.9	165.8	188.5	184.7	172.3	182.5	179.4
25°	286.3	291.5	279.9	276.1	207.7	237.7	207.3	213.3	263.4	276.9	277.3
27.5°	332.1	322.0	313.0	283.6	279.1	231.4	213.3	284.1	275.8	288.1	287.8
30°	396.2	392.8	390.5	315.2	302.1	255.0	287.5	290.1	334.8	391.2	402.9
32.5°	457.8	441.6	405.2	364.9	303.2	301.3	285.5	360.4	384.0	410.9	414.9
35°	555.7	555.2	493.6	390.2	339.4	320.1	369.9	388.2	387.9	428.1	452.6
37.5°	639.1	643.3	578.6	471.0	350.9	323.5	386.0	418.7	420.2	474.7	465.3
40°	766.4	755.4	697.5	562.4	401.0	344.9	423.3	428.1	459.0	495.5	509.0
42.5°	856.6	852.4	833.6	669.2	459.0	384.5	467.2	446.3	486.1	552.3	566.5
45°	913.1	892.7	911.1	747.6	551.9	469.2	477.0	505.3	547.7	617.8	658.0
47.5°	969.9	985.3	942.1	806.6	635.5	508.3	524.8	613.9	655.0	717.9	743.4
50°	1068.4	1051.8	1036.8	895.4	764.0	570.7	656.4	644.4	759.6	887.8	892.3
52.5°	1128.6	1128.6	1104.2	972.9	852.9	662.8	700.5	743.4	914.9	1031.2	1073.3
55°	1214.0	1231.7	1227.2	1064.3	957.4	788.1	815.6	905.9	1057.1	1206.4	1310.7
57.5°	1274.5	1299.0	1352.1	1162.1	1059.0	839.3	983.8	1084.2	1248.2	1429.9	1556.0
60°	1364.4	1364.8	1419.4	1248.7	1187.3	936.8	1048.9	1249.7	1353.1	1644.8	1711.3
62.5°	1373.5	1388.9	1503.3	1383.3	1315.2	1038.3	1261.7	1335.1	1471.2	1860.6	1919.0
65°	1264.4	1305.7	1497.3	1446.5	1432.2	1132.0	1324.2	1504.1	1567.3	2065.3	2048.8
66°	1222.6	1257.7	1447.5	1460.4	1451.4	1188.0	1360.8	1548.1	1600.7	2100.7	2071.8
67.5°	1208.0	1233.5	1388.1	1475.4	1516.4	1289.6	1449.9	1569.5	1662.1	2075.2	2063.5
70°	1106.0	1138.1	1283.2	1574.8	1655.3	1475.9	1564.6	1621.4	1705.3	1948.3	1898.0
72.5°	843.5	876.1	983.4	1299.4	1667.0	1751.2	1742.5	1686.9	1564.6	1548.1	1467.2
75°	418.4	453.3	529.0	757.2	1297.1	1720.4	1732.5	1521.0	1264.4	998.4	936.4
77.5°	216.4	243.7	204.4	290.1	667.0	1220.4	1226.0	1003.0	732.8	466.5	435.6
80°	147.5	153.5	139.2	142.9	274.7	623.8	581.6	533.8	294.9	214.0	223.4
82.5°	108.3	100.1	95.9	104.3	148.3	194.9	209.1	231.0	157.7	108.7	114.7
85°	51.2	56.4	55.2	63.6	90.2	66.5	102.3	138.9	105.0	69.9	68.9
87.5°	32.0	31.5	33.9	39.2	54.5	44.0	56.0	68.9	63.2	43.6	42.9
90°	21.1	18.8	17.7	21.1	30.5	21.9	30.0	39.2	35.7	23.7	22.2
92.5°	14.3	14.3	15.4	17.7	26.3	23.3	21.5	22.2	22.2	18.5	17.7
95°	10.5	11.3	12.8	13.2	15.9	13.5	17.3	19.2	19.5	15.1	14.6
97.5°	9.1	9.9	10.5	10.9	13.2	10.9	14.3	16.9	16.5	12.0	12.4
100°	8.3	9.1	9.1	9.4	10.5	8.3	11.7	15.9	15.1	10.5	10.2
102.5°	7.8	7.8	7.5	7.5	8.3	6.4	9.9	13.8	11.3	8.6	7.8
105°	7.5	7.5	6.4	6.0	6.4	5.3	7.8	10.5	7.8	7.1	7.1
107.5°	7.1	6.8	5.7	4.9	5.3	4.2	6.4	6.8	5.7	6.4	6.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	6.4	6.4	4.9	4.2	4.2	3.4	4.5	4.9	4.9	6.4	6.8
112.5°	6.0	5.7	4.2	3.4	3.4	3.1	3.4	3.8	4.2	6.0	6.4
115°	5.7	5.3	3.8	3.1	2.6	2.3	2.6	3.1	3.8	6.0	6.0
117.5°	5.3	4.9	3.4	2.6	2.3	1.8	2.3	2.6	3.8	6.0	6.0
120°	5.3	4.9	3.4	2.3	1.8	1.8	1.8	2.3	4.2	6.0	6.4
122.5°	4.9	4.9	3.4	2.3	1.8	1.5	1.5	2.3	3.8	5.7	5.7
125°	4.9	4.9	3.1	1.8	1.5	1.5	1.5	1.8	3.8	5.3	5.7
127.5°	4.5	4.5	3.1	1.8	1.5	1.1	1.1	1.8	3.4	5.3	5.3
130°	4.5	4.5	3.1	1.5	1.1	1.1	1.1	1.5	3.4	4.9	4.9
132.5°	3.8	3.8	2.6	1.5	1.1	0.8	1.1	1.5	3.1	4.2	4.5
135°	3.8	3.8	2.6	1.5	1.1	0.8	0.8	1.5	2.6	3.8	3.8
137.5°	3.4	3.4	2.3	1.5	1.1	0.8	0.8	1.1	2.3	3.4	3.4
140°	3.1	3.1	2.6	1.5	1.1	0.8	0.8	0.8	1.8	2.6	2.6
142.5°	3.1	3.1	2.3	1.5	0.8	0.3	0.3	0.8	1.5	1.8	1.8
145°	2.6	2.6	2.3	1.5	0.8	0.3	0.3	0.8	1.1	1.5	1.5
147.5°	2.6	2.6	2.3	1.1	0.3	0.3	0.3	0.8	1.1	1.5	1.5
150°	2.3	2.3	1.5	0.8	0.0	0.0	0.3	0.3	0.8	1.1	1.1
152.5°	1.5	1.5	1.1	0.3	0.0	0.0	0.0	0.3	0.8	0.8	0.8
155°	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
157.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
2.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.4	6.4	6.4	6.4	6.4
5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.8	7.1	7.1	7.1
7.5°	7.1	7.1	6.8	6.4	6.8	7.5	11.3	26.0	38.0	46.7	46.3
10°	11.7	11.7	10.9	9.4	11.7	25.5	50.4	50.8	42.2	38.8	40.2
12.5°	61.7	54.9	46.7	38.4	37.5	45.6	42.9	59.8	66.9	71.9	71.1
15°	70.7	74.9	68.5	76.7	78.6	46.7	72.9	97.8	105.3	108.3	111.8
17.5°	116.6	129.0	92.3	87.3	87.6	93.3	98.6	103.5	105.8	104.6	105.0
20°	175.7	167.3	179.8	153.5	117.4	124.9	114.4	112.9	148.9	181.0	176.8
22.5°	179.4	193.7	177.2	162.1	179.4	127.2	157.7	167.3	172.3	176.5	181.7
25°	290.4	283.6	248.2	186.2	177.2	169.7	171.2	175.0	184.3	198.7	207.3
27.5°	308.4	307.0	274.7	251.0	188.8	212.2	175.7	211.4	228.4	243.4	246.4
30°	414.9	419.1	316.0	241.1	218.9	181.7	203.9	217.9	231.0	252.1	252.4
32.5°	440.9	449.6	349.5	266.7	229.5	188.2	205.1	215.6	265.6	285.1	285.9
35°	447.6	470.0	360.4	257.3	221.6	187.4	189.2	225.3	250.2	290.1	304.4
37.5°	518.8	502.6	383.0	260.7	207.3	180.2	204.4	216.4	255.4	281.1	285.9
40°	548.9	539.8	397.6	267.4	204.7	200.5	189.2	201.7	220.0	238.5	238.5
42.5°	605.0	569.6	405.9	262.6	199.0	215.1	172.6	186.7	203.9	193.0	197.5
45°	679.4	632.1	434.1	236.6	188.5	182.8	165.8	187.4	176.5	176.5	174.2
47.5°	775.7	711.1	424.7	227.6	212.2	173.0	218.9	176.0	162.5	168.6	169.0
50°	928.0	851.3	453.7	221.6	201.2	169.7	187.4	170.0	170.0	174.2	172.6
52.5°	1119.2	967.9	466.1	221.2	190.3	197.5	185.8	203.5	176.0	190.7	188.8
55°	1326.1	1143.6	478.9	218.2	188.5	178.3	227.3	194.9	182.8	209.6	210.4
57.5°	1588.3	1347.1	531.5	212.2	189.2	178.7	214.4	218.2	222.7	240.4	243.0
60°	1751.5	1460.0	484.9	223.4	187.4	203.9	249.4	243.7	229.9	295.3	305.1
62.5°	1876.1	1545.5	399.6	232.8	221.6	205.4	257.8	284.4	271.6	297.9	305.5
65°	1898.7	1538.0	305.5	232.8	218.5	239.3	309.2	283.6	241.9	244.5	241.6
66°	1897.2	1515.0	281.4	234.8	221.6	249.4	303.6	287.1	234.1	236.6	231.0
67.5°	1835.1	1442.3	244.5	232.0	242.7	256.2	298.3	267.9	225.0	225.7	220.0
70°	1596.2	1216.6	208.0	238.5	251.7	257.0	326.1	249.4	206.5	201.2	200.2
72.5°	1174.1	863.0	194.9	237.4	255.4	249.0	275.0	205.1	178.3	167.8	166.6
75°	660.3	440.9	194.2	227.6	226.0	213.7	208.0	158.0	147.5	135.1	132.8
77.5°	304.4	212.5	164.4	183.2	170.8	169.0	155.0	131.6	125.6	117.4	113.9
80°	176.0	150.1	117.0	121.5	122.6	119.2	125.3	118.5	112.1	106.1	100.4
82.5°	102.7	95.2	85.4	80.1	80.1	85.8	103.0	98.6	93.6	88.4	76.1
85°	64.4	61.7	58.4	56.0	56.0	51.6	74.1	82.4	77.9	66.5	59.4
87.5°	42.2	44.0	39.2	39.6	38.4	34.2	50.0	55.2	47.4	38.0	31.5
90°	19.2	21.1	23.0	22.6	24.5	18.8	27.5	28.2	25.2	17.3	12.4
92.5°	14.6	17.3	19.2	19.2	21.1	12.8	19.8	22.2	20.6	16.2	11.7
95°	12.4	15.4	18.5	18.0	18.0	10.2	18.5	20.6	19.5	13.8	10.2
97.5°	10.2	12.4	15.1	15.1	16.5	8.6	16.9	19.8	18.8	13.8	9.9
100°	9.4	11.3	13.2	13.5	15.1	6.8	15.4	18.8	16.9	11.7	9.4
102.5°	8.6	9.4	10.9	10.9	11.3	6.0	12.4	15.4	13.5	9.1	9.1
105°	7.8	7.8	7.8	7.1	7.1	4.9	7.5	10.5	8.3	7.1	7.8
107.5°	7.5	7.1	6.0	5.7	5.3	4.2	5.3	6.4	4.9	6.4	7.1



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CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	7.1	7.1	5.7	4.9	4.5	3.8	4.5	4.2	4.2	6.4	6.8
112.5°	7.1	6.8	4.9	4.2	3.8	3.4	3.8	3.1	3.8	6.4	6.8
115°	6.8	6.8	4.5	3.8	3.8	3.1	3.1	2.6	3.4	6.0	6.8
117.5°	6.8	6.8	4.5	3.4	3.1	2.6	2.6	2.6	3.4	6.0	6.8
120°	6.8	6.4	4.5	3.4	2.6	2.3	2.3	2.3	3.4	6.0	6.4
122.5°	6.4	6.0	4.2	3.1	2.6	2.3	1.8	2.3	3.4	5.7	6.0
125°	6.0	6.0	4.2	2.6	2.3	1.8	1.5	1.8	3.4	5.7	6.0
127.5°	6.0	5.7	3.8	2.3	1.8	1.8	1.5	1.8	3.4	5.3	5.7
130°	5.3	5.3	3.4	2.3	1.5	1.5	1.1	1.5	3.4	5.3	5.3
132.5°	4.9	4.5	3.1	1.8	1.5	1.1	1.1	1.1	3.1	4.5	4.9
135°	4.2	3.8	2.6	1.5	1.1	1.1	0.8	1.1	2.6	4.2	4.2
137.5°	3.4	3.4	2.6	1.5	1.1	0.8	0.8	1.1	2.6	3.8	4.2
140°	3.1	2.6	1.8	1.1	0.8	0.8	0.8	1.1	2.3	3.1	3.4
142.5°	2.3	2.3	1.5	1.1	0.8	0.8	0.3	0.8	1.8	2.6	2.6
145°	1.8	1.8	1.5	0.8	0.8	0.3	0.3	0.3	1.5	1.8	2.3
147.5°	1.5	1.5	1.1	0.8	0.3	0.3	0.0	0.3	1.1	1.5	1.5
150°	1.1	1.1	1.1	0.8	0.3	0.0	0.0	0.0	0.3	0.8	0.8
152.5°	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.3	0.3	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)