

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: P266320

Luminaire Tested: **UTLD-AF24-30-D-U-T4W-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266320
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2747.2 lumens
Efficiency: N/A
Efficacy: 88.6 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



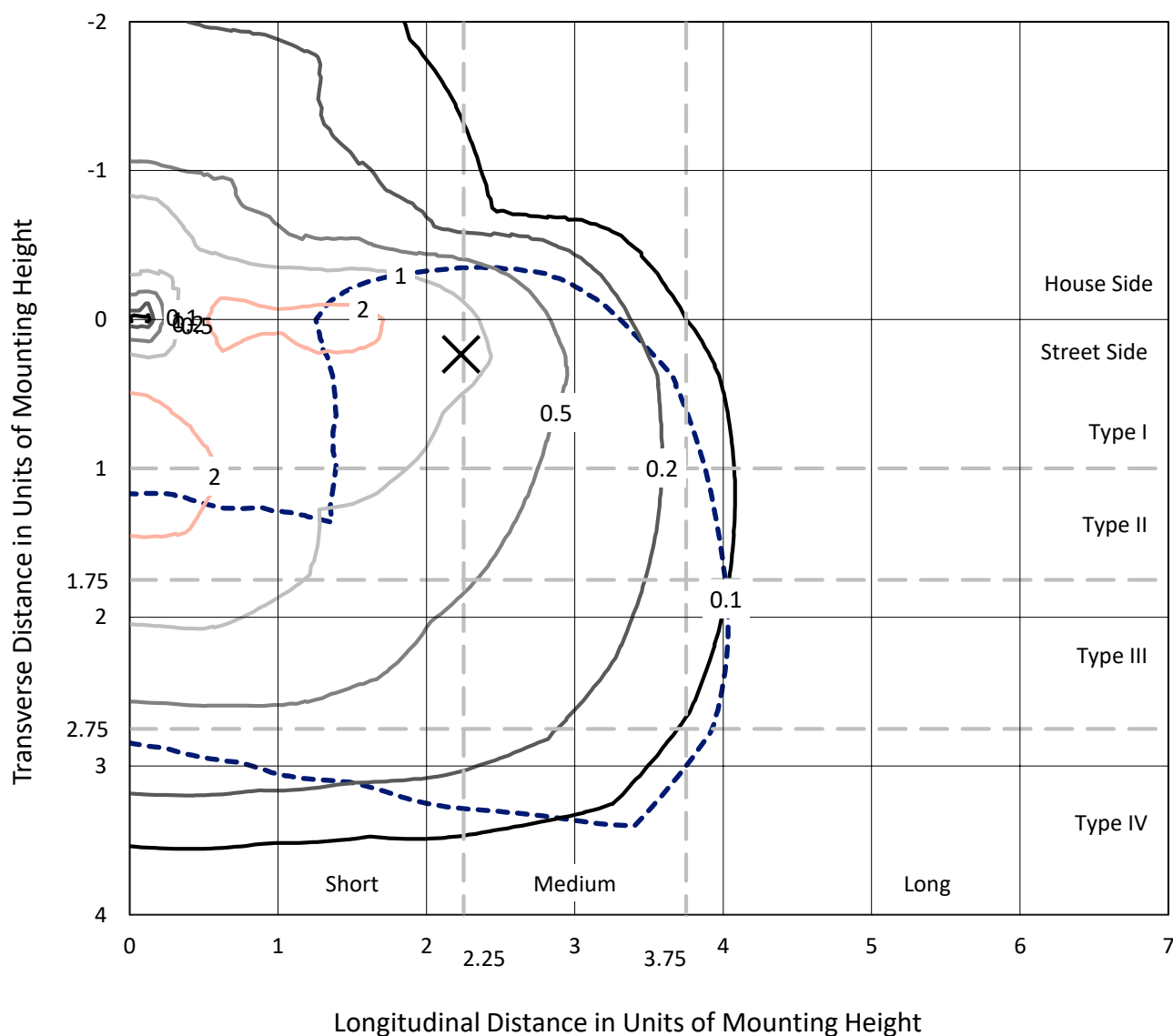
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

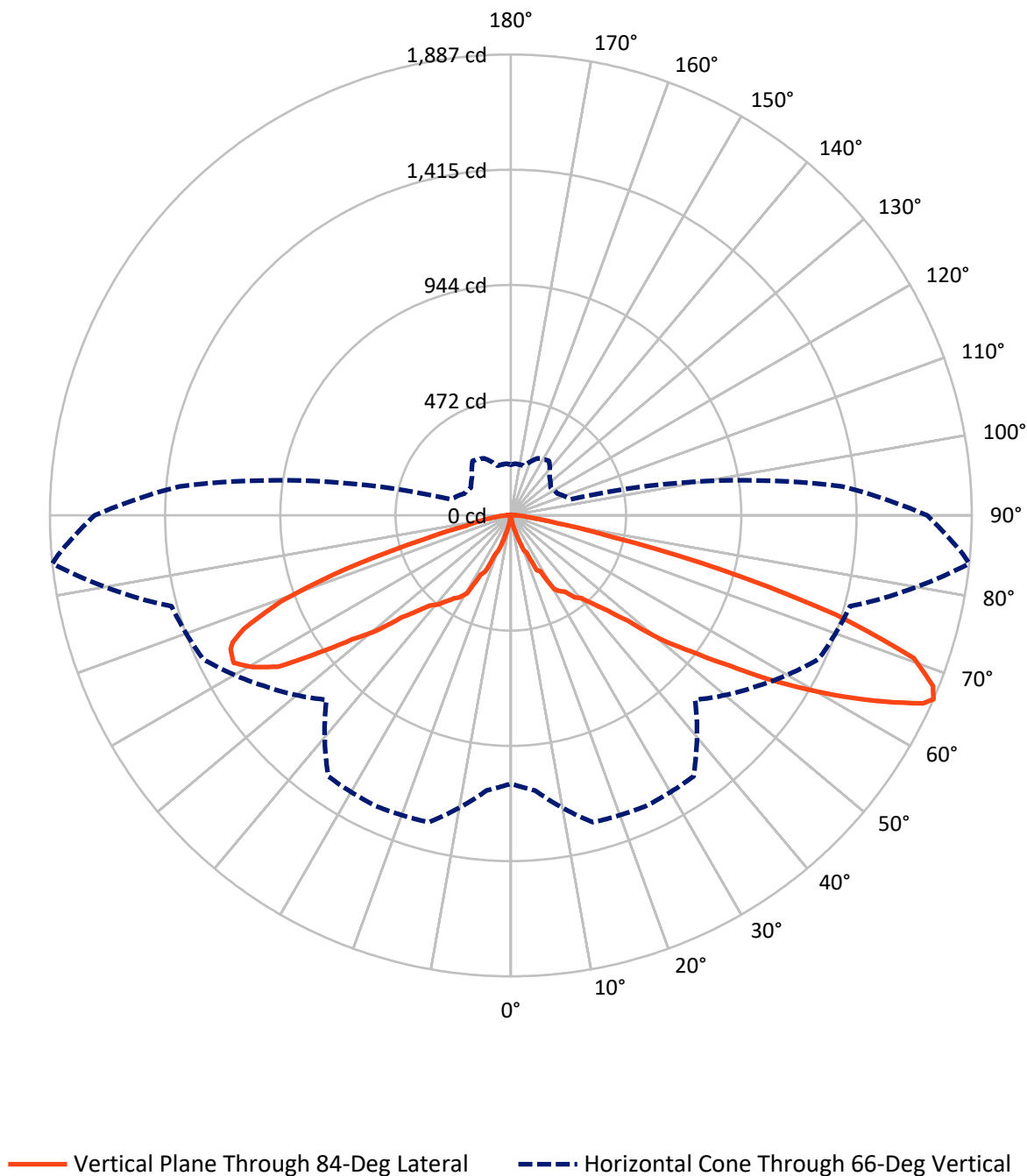


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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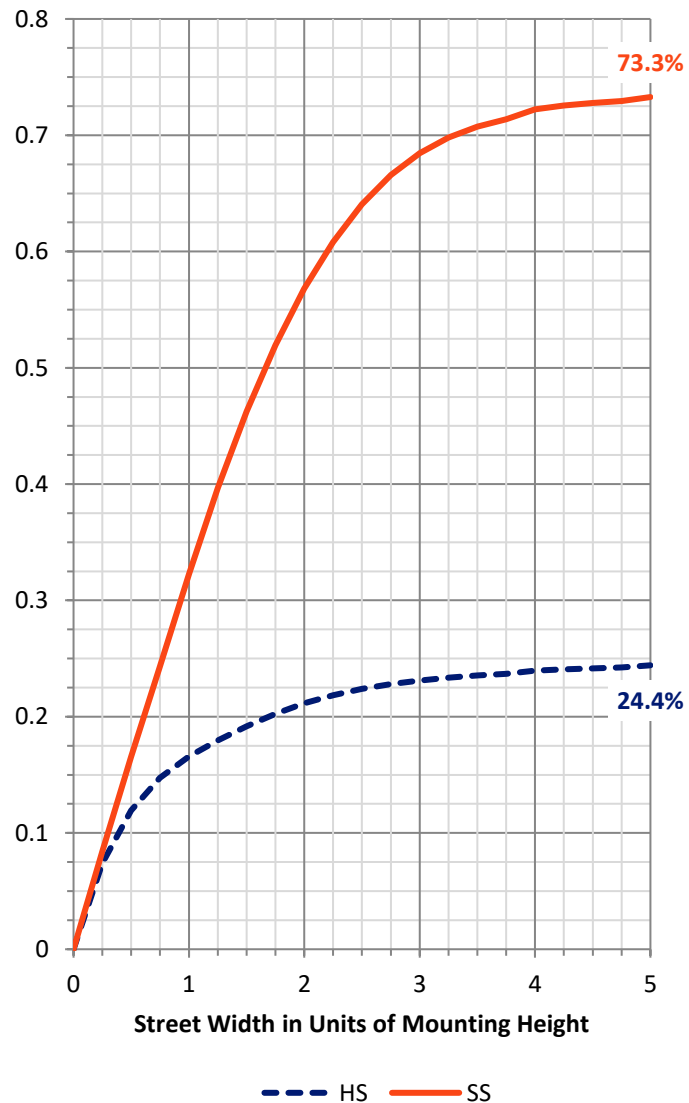
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.4	16.7	704.2
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	2027.3	15.7	2043.0
	% Fixture	73.8	0.6	74.4
Total	Lumens	2714.7	32.4	2747.2
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.1
10°-20°	25.5	0.9
20°-30°	94.2	3.4
30°-40°	193.8	7.1
40°-50°	321.5	11.7
50°-60°	560.5	20.4
60°-70°	825.7	30.1
70°-80°	602.6	21.9
80°-90°	88.9	3.2
90°-100°	16.6	0.6
100°-110°	7.6	0.3
110°-120°	3.6	0.1
120°-130°	2.5	0.1
130°-140°	1.5	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°	2714.7	98.8
0°-180°	2747.2	100.0

Coefficient of Utilization



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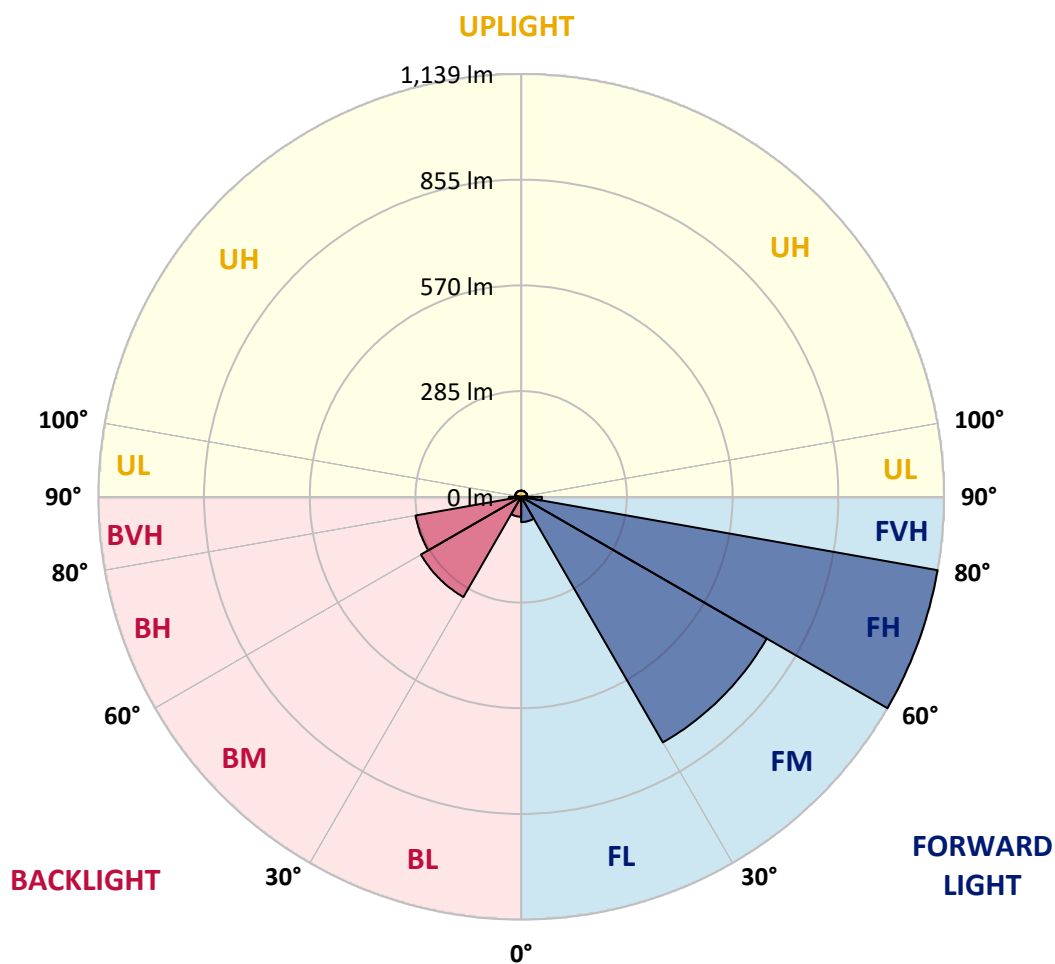
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	68.0	2.5			
FM	(30°-60°)	764.0	27.8			
FH	(60°-80°)	1139.4	41.5			G1/1800
FVH	(80°-90°)	55.9	2.0			G1/100
BL	(0°-30°)	53.8	2.0	B0/110		
BM	(30°-60°)	311.7	11.3	B1/1000		
BH	(60°-80°)	289.0	10.5	B1/500		G1/500
BVH	(80°-90°)	33.0	1.2			G1/100
UL	(90°-100°)	16.6	0.6		U2/50	
UH	(100°-180°)	16.7	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	16.2	14.6	14.6	13.8	12.4	11.1	8.9	7.5	6.4	6.4	6.1
5°	31.1	32.8	37.9	34.9	28.7	37.5	16.9	11.1	7.0	6.1	6.1
7.5°	49.3	52.0	39.9	35.6	35.6	37.9	30.7	18.5	9.4	7.0	6.7
10°	103.5	97.6	67.9	68.9	58.5	41.0	28.0	24.7	14.6	11.5	10.5
12.5°	100.4	99.1	101.1	88.3	88.9	64.6	35.8	57.4	52.0	49.6	54.7
15°	129.4	128.1	102.8	104.7	95.0	98.6	83.2	82.9	80.0	67.3	64.6
17.5°	179.8	178.5	201.1	133.8	95.3	123.3	107.1	92.3	95.6	101.1	105.1
20°	179.4	177.4	186.8	160.5	162.6	127.4	114.3	168.0	153.4	154.1	145.3
22.5°	264.9	252.8	222.1	167.7	183.2	148.9	169.3	165.9	154.8	163.9	161.2
25°	257.2	261.9	251.4	248.0	186.6	213.5	186.2	191.6	236.6	248.7	249.1
27.5°	298.3	289.3	281.2	254.8	250.7	207.9	191.6	255.2	247.8	258.8	258.5
30°	355.9	352.9	350.8	283.1	271.4	229.1	258.3	260.6	300.8	351.4	361.9
32.5°	411.2	396.7	364.0	327.8	272.4	270.7	256.5	323.7	344.9	369.1	372.7
35°	499.2	498.7	443.4	350.5	304.9	287.5	332.3	348.7	348.5	384.6	406.6
37.5°	574.1	577.9	519.8	423.1	315.2	290.6	346.7	376.1	377.5	426.4	418.0
40°	688.5	678.6	626.6	505.2	360.2	309.8	380.3	384.6	412.3	445.1	457.2
42.5°	769.5	765.7	748.8	601.1	412.3	345.4	419.7	400.9	436.7	496.1	508.9
45°	820.2	801.9	818.4	671.6	495.8	421.5	428.5	453.9	492.0	555.0	591.1
47.5°	871.3	885.1	846.3	724.6	570.9	456.6	471.4	551.5	588.4	644.9	667.8
50°	959.7	944.8	931.4	804.3	686.3	512.7	589.6	578.9	682.4	797.5	801.6
52.5°	1013.8	1013.8	991.9	874.0	766.2	595.4	629.3	667.8	821.9	926.3	964.2
55°	1090.5	1106.4	1102.4	956.1	860.0	708.0	732.7	813.8	949.6	1083.7	1177.4
57.5°	1144.9	1166.9	1214.6	1043.9	951.3	753.9	883.8	973.9	1121.3	1284.5	1397.8
60°	1225.6	1226.0	1275.1	1121.7	1066.6	841.5	942.2	1122.6	1215.5	1477.5	1537.3
62.5°	1233.8	1247.7	1350.4	1242.6	1181.5	932.7	1133.4	1199.3	1321.6	1671.4	1723.8
65°	1135.8	1172.9	1345.0	1299.4	1286.6	1016.9	1189.5	1351.1	1407.9	1855.3	1840.4
66°	1098.3	1129.8	1300.3	1311.9	1303.8	1067.2	1222.4	1390.7	1437.9	1887.1	1861.1
67.5°	1085.2	1108.1	1246.9	1325.4	1362.2	1158.5	1302.5	1409.9	1493.1	1864.2	1853.7
70°	993.5	1022.4	1152.7	1414.7	1487.0	1325.8	1405.5	1456.5	1531.9	1750.2	1705.0
72.5°	757.7	787.0	883.4	1167.3	1497.5	1573.1	1565.3	1515.4	1405.5	1390.7	1318.0
75°	375.9	407.2	475.2	680.2	1165.2	1545.4	1556.3	1366.3	1135.8	896.9	841.2
77.5°	194.4	218.9	183.6	260.6	599.2	1096.3	1101.3	901.0	658.3	419.1	391.3
80°	132.5	137.9	125.0	128.4	246.8	560.4	522.5	479.5	264.9	192.2	200.7
82.5°	97.3	89.9	86.1	93.7	133.2	175.1	187.8	207.5	141.7	97.6	103.0
85°	46.0	50.7	49.6	57.1	81.0	59.7	91.9	124.8	94.3	62.8	61.9
87.5°	28.7	28.3	30.5	35.2	49.0	39.5	50.3	61.9	56.8	39.2	38.5
90°	19.0	16.9	15.9	19.0	27.4	19.7	26.9	35.2	32.1	21.3	19.9
92.5°	12.8	12.8	13.8	15.9	23.6	20.9	19.3	19.9	19.9	16.6	15.9
95°	9.4	10.2	11.5	11.9	14.3	12.1	15.5	17.2	17.5	13.6	13.1
97.5°	8.2	8.9	9.4	9.8	11.9	9.8	12.8	15.2	14.8	10.8	11.1
100°	7.5	8.2	8.2	8.4	9.4	7.5	10.5	14.3	13.6	9.4	9.2
102.5°	7.0	7.0	6.7	6.7	7.5	5.7	8.9	12.4	10.2	7.7	7.0
105°	6.7	6.7	5.7	5.4	5.7	4.8	7.0	9.4	7.0	6.4	6.4
107.5°	6.4	6.1	5.1	4.4	4.8	3.8	5.7	6.1	5.1	5.7	6.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	5.7	5.7	4.4	3.8	3.8	3.1	4.0	4.4	4.4	5.7	6.1
112.5°	5.4	5.1	3.8	3.1	3.1	2.8	3.1	3.4	3.8	5.4	5.7
115°	5.1	4.8	3.4	2.8	2.3	2.1	2.3	2.8	3.4	5.4	5.4
117.5°	4.8	4.4	3.1	2.3	2.1	1.6	2.1	2.3	3.4	5.4	5.4
120°	4.8	4.4	3.1	2.1	1.6	1.6	1.6	2.1	3.8	5.4	5.7
122.5°	4.4	4.4	3.1	2.1	1.6	1.3	1.3	2.1	3.4	5.1	5.1
125°	4.4	4.4	2.8	1.6	1.3	1.3	1.3	1.6	3.4	4.8	5.1
127.5°	4.0	4.0	2.8	1.6	1.3	1.0	1.0	1.6	3.1	4.8	4.8
130°	4.0	4.0	2.8	1.3	1.0	1.0	1.0	1.3	3.1	4.4	4.4
132.5°	3.4	3.4	2.3	1.3	1.0	0.7	1.0	1.3	2.8	3.8	4.0
135°	3.4	3.4	2.3	1.3	1.0	0.7	0.7	1.3	2.3	3.4	3.4
137.5°	3.1	3.1	2.1	1.3	1.0	0.7	0.7	1.0	2.1	3.1	3.1
140°	2.8	2.8	2.3	1.3	1.0	0.7	0.7	0.7	1.6	2.3	2.3
142.5°	2.8	2.8	2.1	1.3	0.7	0.3	0.3	0.7	1.3	1.6	1.6
145°	2.3	2.3	2.1	1.3	0.7	0.3	0.3	0.7	1.0	1.3	1.3
147.5°	2.3	2.3	2.1	1.0	0.3	0.3	0.3	0.7	1.0	1.3	1.3
150°	2.1	2.1	1.3	0.7	0.0	0.0	0.3	0.3	0.7	1.0	1.0
152.5°	1.3	1.3	1.0	0.3	0.0	0.0	0.0	0.3	0.7	0.7	0.7
155°	0.7	0.7	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.1	6.1	6.1	6.1	6.1	6.1	5.7	5.7	5.7	5.7	5.7
5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.1	6.4	6.4	6.4
7.5°	6.4	6.4	6.1	5.7	6.1	6.7	10.2	23.4	34.1	42.0	41.6
10°	10.5	10.5	9.8	8.4	10.5	22.9	45.3	45.6	37.9	34.9	36.1
12.5°	55.4	49.3	42.0	34.5	33.7	41.0	38.5	53.7	60.1	64.6	63.9
15°	63.5	67.3	61.5	68.9	70.6	42.0	65.5	87.9	94.6	97.3	100.4
17.5°	104.7	115.9	82.9	78.4	78.7	83.8	88.6	93.0	95.0	94.0	94.3
20°	157.8	150.3	161.5	137.9	105.5	112.2	102.8	101.4	133.8	162.6	158.8
22.5°	161.2	174.0	159.2	145.6	161.2	114.3	141.7	150.3	154.8	158.6	163.2
25°	260.9	254.8	223.0	167.3	159.2	152.4	153.8	157.2	165.6	178.5	186.2
27.5°	277.0	275.8	246.8	225.5	169.6	190.6	157.8	189.9	205.2	218.6	221.3
30°	372.7	376.5	283.9	216.6	196.6	163.2	183.2	195.7	207.5	226.5	226.7
32.5°	396.1	403.9	314.0	239.6	206.2	169.1	184.2	193.7	238.6	256.1	256.8
35°	402.1	422.2	323.7	231.1	199.1	168.3	170.0	202.4	224.8	260.6	273.4
37.5°	466.0	451.5	344.1	234.2	186.2	161.9	183.6	194.4	229.4	252.5	256.8
40°	493.1	484.9	357.2	240.2	183.9	180.1	170.0	181.2	197.6	214.2	214.2
42.5°	543.5	511.7	364.6	235.9	178.8	193.2	155.0	167.7	183.2	173.4	177.4
45°	610.3	567.8	390.0	212.5	169.3	164.2	148.9	168.3	158.6	158.6	156.5
47.5°	696.8	638.8	381.5	204.5	190.6	155.4	196.6	158.1	146.0	151.5	151.8
50°	833.6	764.7	407.6	199.1	180.7	152.4	168.3	152.7	152.7	156.5	155.0
52.5°	1005.4	869.5	418.7	198.7	170.9	177.4	166.9	182.8	158.1	171.3	169.6
55°	1191.2	1027.3	430.2	196.0	169.3	160.2	204.2	175.1	164.2	188.3	189.0
57.5°	1426.8	1210.1	477.4	190.6	170.0	160.5	192.6	196.0	200.1	216.0	218.3
60°	1573.4	1311.5	435.6	200.7	168.3	183.2	224.0	218.9	206.5	265.3	274.1
62.5°	1685.3	1388.3	359.0	209.1	199.1	184.5	231.6	255.5	244.0	267.6	274.4
65°	1705.6	1381.6	274.4	209.1	196.3	215.0	277.8	254.8	217.3	219.6	217.0
66°	1704.3	1360.9	252.8	210.9	199.1	224.0	272.7	257.9	210.3	212.5	207.5
67.5°	1648.5	1295.6	219.6	208.4	218.0	230.1	268.0	240.7	202.1	202.7	197.6
70°	1433.9	1092.9	186.8	214.2	226.1	230.9	292.9	224.0	185.5	180.7	179.8
72.5°	1054.7	775.2	175.1	213.3	229.4	223.7	247.0	184.2	160.2	150.7	149.7
75°	593.2	396.1	174.5	204.5	203.0	192.0	186.8	141.9	132.5	121.4	119.3
77.5°	273.4	190.9	147.7	164.6	153.4	151.8	139.2	118.2	112.8	105.5	102.3
80°	158.1	134.8	105.1	109.1	110.1	107.1	112.6	106.4	100.7	95.3	90.2
82.5°	92.3	85.5	76.7	72.0	72.0	77.1	92.5	88.6	84.1	79.4	68.4
85°	57.9	55.4	52.5	50.3	50.3	46.4	66.6	74.0	70.0	59.7	53.4
87.5°	37.9	39.5	35.2	35.6	34.5	30.7	44.9	49.6	42.6	34.1	28.3
90°	17.2	19.0	20.7	20.3	22.0	16.9	24.7	25.3	22.6	15.5	11.1
92.5°	13.1	15.5	17.2	17.2	19.0	11.5	17.8	19.9	18.5	14.6	10.5
95°	11.1	13.8	16.6	16.2	16.2	9.2	16.6	18.5	17.5	12.4	9.2
97.5°	9.2	11.1	13.6	13.6	14.8	7.7	15.2	17.8	16.9	12.4	8.9
100°	8.4	10.2	11.9	12.1	13.6	6.1	13.8	16.9	15.2	10.5	8.4
102.5°	7.7	8.4	9.8	9.8	10.2	5.4	11.1	13.8	12.1	8.2	8.2
105°	7.0	7.0	7.0	6.4	6.4	4.4	6.7	9.4	7.5	6.4	7.0
107.5°	6.7	6.4	5.4	5.1	4.8	3.8	4.8	5.7	4.4	5.7	6.4



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CATALOG NUMBER: UTLD-AF24-30-D-U-T4W-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	6.4	6.4	5.1	4.4	4.0	3.4	4.0	3.8	3.8	5.7	6.1
112.5°	6.4	6.1	4.4	3.8	3.4	3.1	3.4	2.8	3.4	5.7	6.1
115°	6.1	6.1	4.0	3.4	3.4	2.8	2.8	2.3	3.1	5.4	6.1
117.5°	6.1	6.1	4.0	3.1	2.8	2.3	2.3	2.3	3.1	5.4	6.1
120°	6.1	5.7	4.0	3.1	2.3	2.1	2.1	2.1	3.1	5.4	5.7
122.5°	5.7	5.4	3.8	2.8	2.3	2.1	1.6	2.1	3.1	5.1	5.4
125°	5.4	5.4	3.8	2.3	2.1	1.6	1.3	1.6	3.1	5.1	5.4
127.5°	5.4	5.1	3.4	2.1	1.6	1.6	1.3	1.6	3.1	4.8	5.1
130°	4.8	4.8	3.1	2.1	1.3	1.3	1.0	1.3	3.1	4.8	4.8
132.5°	4.4	4.0	2.8	1.6	1.3	1.0	1.0	1.0	2.8	4.0	4.4
135°	3.8	3.4	2.3	1.3	1.0	1.0	0.7	1.0	2.3	3.8	3.8
137.5°	3.1	3.1	2.3	1.3	1.0	0.7	0.7	1.0	2.3	3.4	3.8
140°	2.8	2.3	1.6	1.0	0.7	0.7	0.7	1.0	2.1	2.8	3.1
142.5°	2.1	2.1	1.3	1.0	0.7	0.7	0.3	0.7	1.6	2.3	2.3
145°	1.6	1.6	1.3	0.7	0.7	0.3	0.3	0.3	1.3	1.6	2.1
147.5°	1.3	1.3	1.0	0.7	0.3	0.3	0.0	0.3	1.0	1.3	1.3
150°	1.0	1.0	1.0	0.7	0.3	0.0	0.0	0.0	0.3	0.7	0.7
152.5°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.7	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)