

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: P266347

Luminaire Tested: **UTLD-AF24-40-D-U-T3-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T3-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U2 - G1

Input Watts (W): 40
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



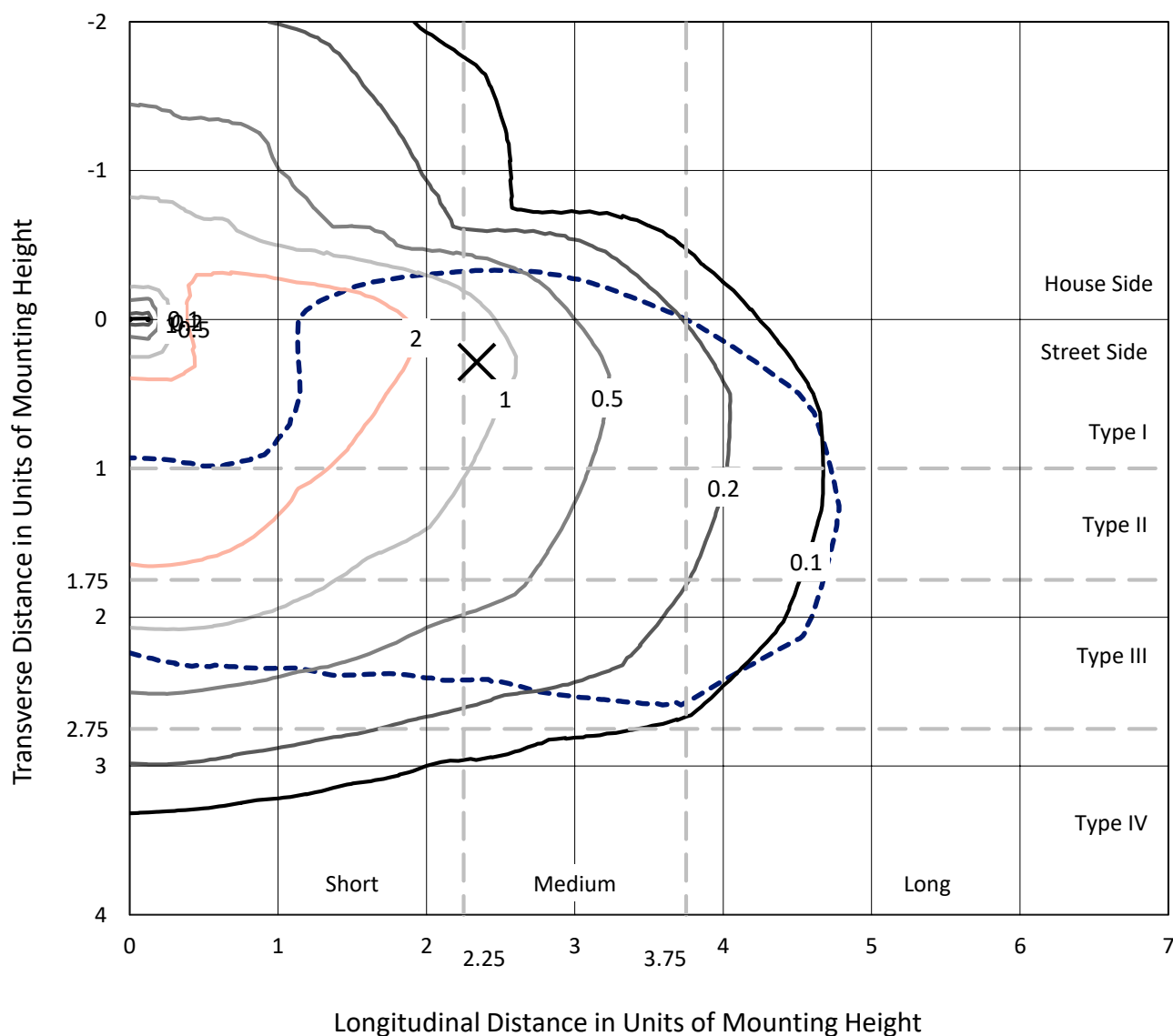
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

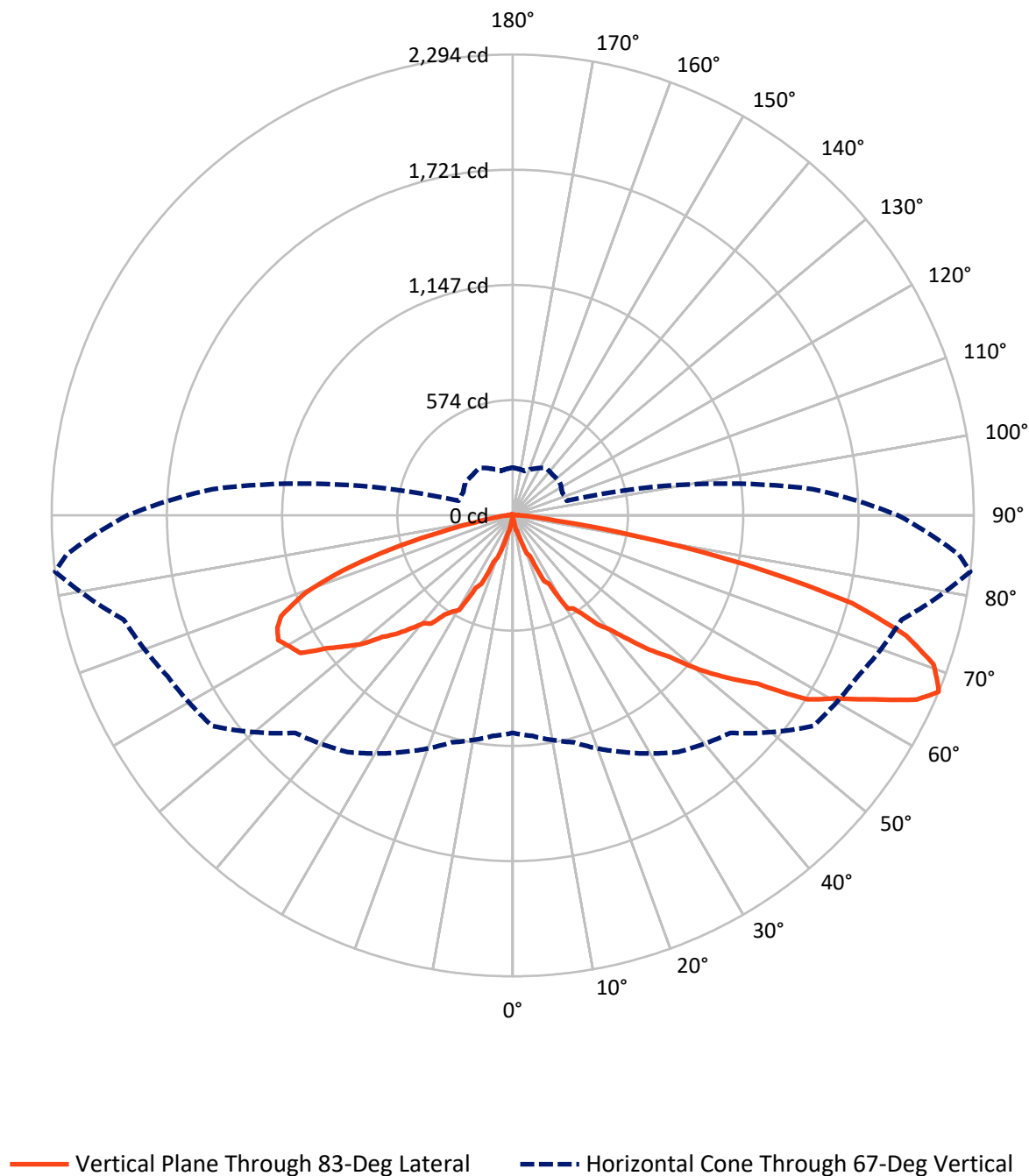


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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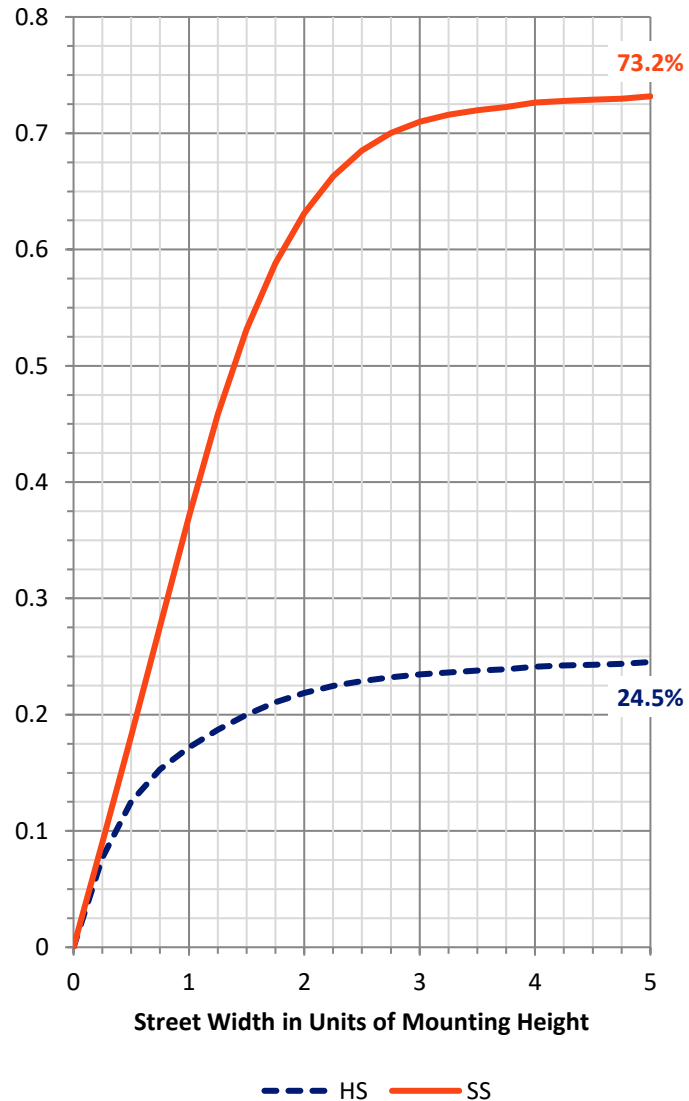
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.9	23.8	923.7
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	2642.6	20.1	2662.7
	% Fixture	73.7	0.6	74.2
Total	Lumens	3542.5	43.9	3586.4
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	32.4	0.9
20°-30°	130.3	3.6
30°-40°	287.8	8.0
40°-50°	513.0	14.3
50°-60°	823.2	23.0
60°-70°	1001.7	27.9
70°-80°	645.5	18.0
80°-90°	106.0	3.0
90°-100°	21.8	0.6
100°-110°	10.0	0.3
110°-120°	5.0	0.1
120°-130°	3.6	0.1
130°-140°	2.2	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3542.5	98.8
0°-180°	3586.4	100.0

Coefficient of Utilization



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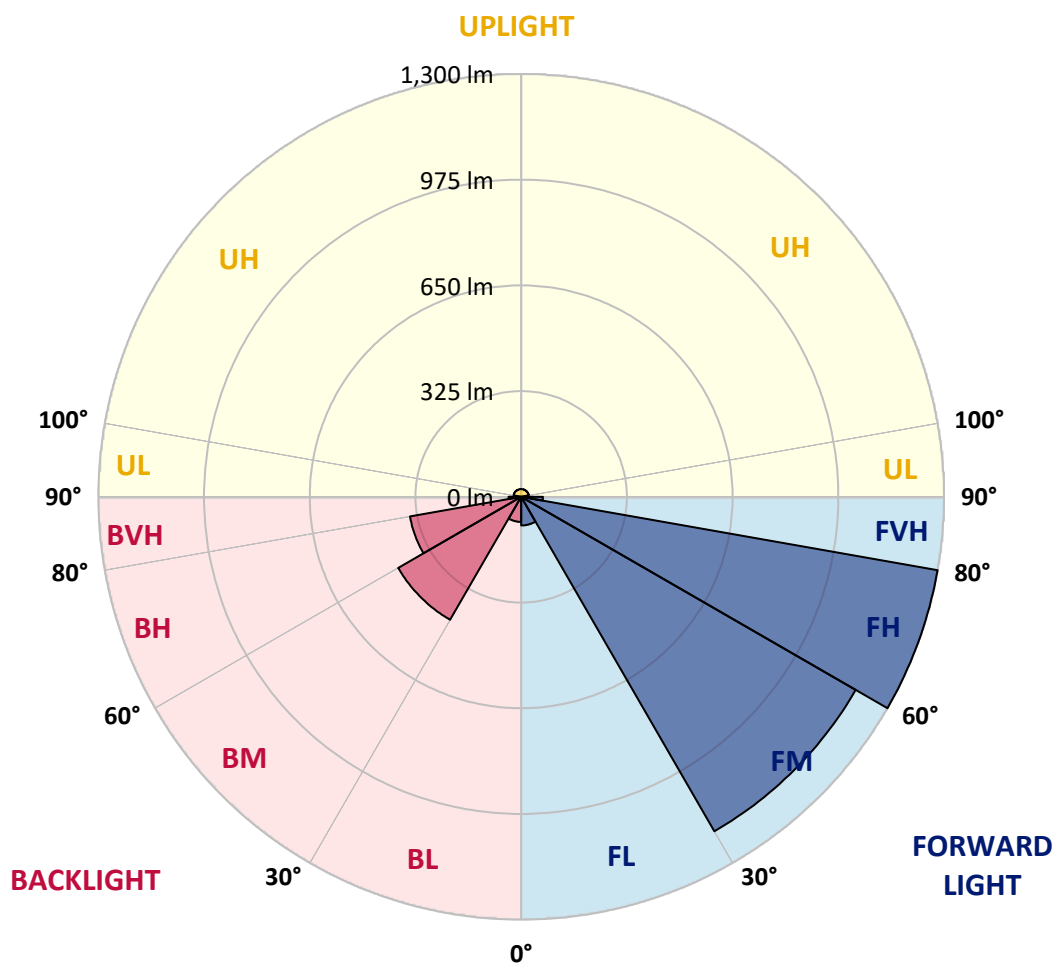
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.1	2.5			
FM	(30°-60°)	1187.5	33.1			
FH	(60°-80°)	1300.0	36.2			G1/1800
FVH	(80°-90°)	67.1	1.9			G1/100
BL	(0°-30°)	77.2	2.2	B0/110		
BM	(30°-60°)	436.6	12.2	B1/1000		
BH	(60°-80°)	347.1	9.7	B1/500		G1/500
BVH	(80°-90°)	39.0	1.1			G1/100
UL	(90°-100°)	21.8	0.6		U2/50	
UH	(100°-180°)	23.8	0.7		U2/50	

BUG Rating: B1-U2-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	18.1	18.1	18.1	16.3	14.1	11.4	10.2	8.9	8.4	8.4	8.4
5°	40.0	41.7	40.0	39.5	35.7	43.5	17.5	11.9	8.9	7.9	7.9
7.5°	56.8	57.5	46.6	43.1	34.8	47.4	38.2	21.5	11.0	8.9	8.4
10°	98.5	84.8	72.0	71.1	66.7	50.0	34.2	30.7	17.2	13.1	13.7
12.5°	95.3	97.9	96.2	93.2	85.7	71.7	45.8	58.8	64.6	75.9	71.7
15°	116.9	115.2	102.0	102.9	97.6	103.8	92.7	97.9	92.3	80.4	83.9
17.5°	181.0	174.9	183.3	140.7	102.9	126.1	128.3	114.7	122.6	126.5	140.7
20°	207.0	198.2	208.6	178.9	170.5	143.2	136.6	207.9	193.8	203.5	205.3
22.5°	286.0	281.2	250.8	204.8	217.8	182.7	195.1	215.8	220.2	217.8	224.9
25°	360.7	360.3	356.7	315.0	232.4	259.3	225.5	246.0	317.7	361.6	365.6
27.5°	427.1	423.6	398.5	386.7	325.5	292.7	269.0	340.9	363.9	385.0	389.8
30°	540.1	562.9	508.8	439.8	394.1	337.0	361.6	360.0	438.1	537.4	542.7
32.5°	634.1	621.3	565.0	507.1	460.6	416.5	380.9	502.6	524.3	551.4	563.7
35°	772.9	777.8	718.5	565.6	527.2	466.6	498.3	545.7	560.6	605.9	609.4
37.5°	807.5	845.8	811.1	678.0	560.6	510.1	536.1	597.2	646.3	688.1	661.7
40°	960.5	941.2	867.0	759.6	629.6	571.2	655.6	691.5	699.2	747.8	753.9
42.5°	1110.3	1118.7	1026.9	890.6	719.4	663.8	737.8	728.0	799.2	841.4	864.3
45°	1256.2	1260.1	1187.6	1015.4	862.9	818.5	782.6	823.8	942.5	952.7	958.3
47.5°	1355.1	1355.5	1324.8	1151.6	984.3	884.0	872.7	917.0	1034.8	1052.8	1058.1
50°	1509.3	1505.4	1434.7	1242.5	1144.6	1013.6	1058.1	1041.3	1143.4	1208.3	1222.4
52.5°	1570.0	1550.1	1512.3	1374.9	1288.7	1159.2	1139.0	1169.2	1285.7	1344.6	1391.1
55°	1530.4	1564.7	1557.7	1458.8	1331.4	1287.0	1234.2	1348.0	1387.6	1478.2	1560.7
57.5°	1448.2	1507.0	1534.8	1497.8	1428.5	1327.9	1422.2	1405.2	1556.8	1728.1	1783.5
60°	1392.1	1428.5	1484.7	1529.5	1479.0	1442.0	1533.9	1623.5	1681.5	1848.5	1922.4
62.5°	1291.0	1325.7	1415.6	1480.8	1452.2	1464.4	1657.8	1704.9	1875.8	2015.1	2115.7
65°	1171.0	1203.5	1308.9	1377.0	1445.2	1493.5	1736.5	1827.4	1948.8	2209.7	2223.8
67°	1082.6	1101.5	1168.8	1299.7	1436.7	1530.8	1826.2	1894.6	2003.6	2294.0	2227.6
67.5°	1053.3	1071.7	1126.7	1262.4	1432.0	1536.6	1851.5	1914.4	2011.6	2285.3	2226.8
70°	810.7	876.1	877.5	1007.1	1278.6	1494.4	1896.9	1982.5	2059.5	2222.0	2150.0
72.5°	485.5	485.5	507.9	635.3	906.5	1336.6	1896.9	1958.8	2025.1	2047.1	1925.8
75°	235.0	224.0	254.4	305.0	456.5	901.5	1709.7	1795.4	1803.6	1743.9	1562.1
77.5°	193.8	168.3	160.0	156.5	244.8	337.5	1142.5	1401.6	1402.1	1196.5	1047.1
80°	121.4	122.6	126.1	108.5	140.1	174.5	455.6	853.7	776.0	621.7	523.7
82.5°	85.7	88.8	90.1	80.4	97.9	81.7	151.5	360.3	313.7	216.6	183.7
85°	60.1	58.4	65.4	54.4	58.8	48.2	83.5	155.0	176.6	107.2	101.5
87.5°	36.0	36.0	43.9	36.9	40.5	34.8	50.6	75.9	87.9	60.6	56.8
90°	21.5	19.8	20.7	21.1	22.8	19.8	27.3	36.6	38.2	30.7	28.1
92.5°	16.3	16.3	17.5	16.7	20.7	18.1	23.7	28.6	34.8	26.4	24.7
95°	10.5	11.9	13.1	13.7	15.8	13.7	19.8	23.3	26.0	20.2	19.4
97.5°	9.6	10.5	11.4	11.4	13.1	11.0	16.3	20.7	20.7	15.8	14.6
100°	9.3	9.6	10.2	10.2	11.0	8.9	12.8	18.1	18.1	13.1	12.2
102.5°	8.4	8.9	8.4	7.9	9.3	7.0	10.5	15.8	12.8	10.2	10.5
105°	8.4	8.4	7.5	6.6	7.5	5.7	9.3	11.4	8.9	8.4	8.9
107.5°	7.9	7.9	6.2	5.7	6.2	4.9	7.5	7.9	7.0	7.9	8.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	7.5	7.0	5.7	4.9	4.9	4.4	5.7	5.7	5.7	7.5	8.4
112.5°	6.6	6.2	4.9	4.0	4.0	3.6	4.0	4.4	5.3	7.0	7.9
115°	6.2	5.7	4.4	3.6	3.1	3.1	3.6	3.6	4.9	7.0	7.9
117.5°	6.2	5.7	4.0	3.6	2.6	2.6	3.1	3.6	4.9	7.0	7.9
120°	5.7	5.7	4.0	3.1	2.6	2.2	2.6	3.1	4.9	7.5	7.9
122.5°	5.7	5.3	4.0	3.1	2.2	2.2	2.2	2.6	4.4	7.0	7.5
125°	5.3	5.3	3.6	2.6	2.2	1.7	2.2	2.6	4.9	7.0	7.5
127.5°	5.3	4.9	3.6	2.6	1.7	1.7	2.2	2.2	4.4	6.6	7.0
130°	5.3	4.9	3.6	2.2	1.7	1.7	1.7	2.2	4.4	6.2	6.6
132.5°	4.4	4.4	3.1	2.2	1.7	1.3	1.7	1.7	3.6	5.3	5.7
135°	4.4	4.0	3.1	2.2	1.7	1.3	1.3	1.7	3.6	4.9	4.9
137.5°	4.0	3.6	3.1	2.2	1.3	1.3	0.9	1.3	3.1	4.0	4.4
140°	3.6	3.6	2.6	2.2	1.3	0.9	0.9	1.3	2.2	3.1	3.6
142.5°	3.6	3.6	3.1	2.2	1.3	0.9	0.9	0.9	1.7	2.6	2.6
145°	3.1	3.1	2.6	1.7	0.9	0.4	0.4	0.9	1.3	1.7	2.2
147.5°	3.1	3.1	2.6	1.7	0.9	0.4	0.4	0.9	1.3	1.7	1.7
150°	2.6	2.6	2.2	1.3	0.4	0.0	0.0	0.4	0.9	1.3	1.3
152.5°	1.7	1.7	1.3	0.9	0.0	0.0	0.0	0.4	0.9	0.9	0.9
155°	0.9	0.9	0.9	0.0	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	0.0
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°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	8.4	8.4	8.4	8.4	8.4	8.4	7.9	7.9	7.9	7.9	7.9
5°	7.5	7.5	7.9	7.9	7.9	7.9	7.9	8.4	8.9	8.9	9.3
7.5°	8.4	8.4	7.9	7.9	8.4	9.3	14.9	31.6	59.7	55.3	54.9
10°	13.1	13.1	11.9	11.0	11.9	43.1	67.6	64.1	54.1	52.7	50.9
12.5°	83.5	77.8	62.8	39.5	57.5	54.4	63.3	74.3	96.7	101.5	97.9
15°	83.9	87.5	94.5	102.3	129.6	57.5	111.6	136.6	145.9	145.9	148.9
17.5°	145.9	157.4	120.8	109.0	129.1	158.2	124.8	138.9	137.5	138.0	133.9
20°	237.2	214.4	236.4	212.2	144.9	177.1	155.5	148.9	200.9	238.9	238.9
22.5°	235.0	249.1	246.0	243.9	255.3	157.4	198.6	215.8	223.7	213.5	228.9
25°	392.4	377.5	356.7	243.4	244.8	218.7	214.4	201.2	218.7	236.0	232.4
27.5°	410.3	413.8	374.9	362.5	256.6	246.0	202.1	234.2	255.3	256.6	254.4
30°	560.3	567.3	442.4	333.9	288.3	224.5	236.4	225.8	236.0	247.8	254.4
32.5°	592.7	582.2	488.6	376.1	282.5	237.7	217.5	225.8	264.1	264.1	261.9
35°	631.4	623.6	503.5	357.3	307.9	222.3	201.2	224.9	236.0	255.3	256.6
37.5°	709.2	704.8	552.7	356.4	274.3	210.1	221.4	227.2	230.7	235.0	231.1
40°	760.5	726.8	567.6	372.2	265.4	243.4	230.7	213.9	217.1	206.2	201.2
42.5°	857.3	800.6	582.2	361.6	258.8	268.5	214.4	211.3	203.8	192.4	192.4
45°	955.6	883.2	601.5	340.1	249.5	260.6	221.1	216.2	209.6	207.9	203.8
47.5°	1055.9	958.3	598.5	353.8	279.9	243.9	276.8	232.4	200.0	217.1	215.8
50°	1220.6	1080.4	601.1	327.0	279.1	239.5	277.2	220.2	213.9	227.2	228.4
52.5°	1355.1	1163.6	637.5	311.5	270.2	277.2	262.3	266.6	252.2	248.2	253.1
55°	1515.9	1269.8	613.8	293.0	263.3	261.4	308.8	268.5	255.3	268.1	269.3
57.5°	1717.6	1418.0	619.1	263.3	265.4	251.7	302.3	300.6	292.7	286.5	284.3
60°	1834.5	1465.3	569.9	280.8	257.1	277.7	320.8	311.5	269.9	313.2	320.3
62.5°	1926.2	1539.2	449.1	277.7	285.7	265.0	294.4	304.0	284.3	317.2	321.2
65°	1948.8	1535.3	344.1	285.1	282.5	294.4	348.5	298.7	248.2	253.1	255.3
67°	1917.9	1500.4	279.1	271.6	286.5	283.4	288.3	256.6	229.3	234.2	237.7
67.5°	1900.4	1472.4	264.6	270.7	296.1	283.0	282.5	246.9	224.0	230.2	231.6
70°	1737.0	1319.0	221.4	267.2	293.6	257.1	264.1	217.5	197.7	200.0	200.9
72.5°	1487.4	1058.6	211.3	265.8	288.3	214.4	202.9	178.0	168.3	165.2	160.8
75°	1141.6	729.5	208.6	239.8	236.9	162.1	162.6	148.1	148.9	142.3	139.7
77.5°	687.7	408.5	177.5	202.9	177.5	123.8	134.4	131.4	134.8	127.9	123.4
80°	329.6	199.5	140.1	149.4	125.3	97.0	114.7	119.6	120.5	110.3	105.5
82.5°	141.0	103.2	95.0	93.7	89.2	75.2	92.7	97.6	98.5	92.3	73.8
85°	83.1	70.2	65.4	62.8	62.0	46.6	66.4	78.6	78.6	65.0	56.2
87.5°	51.8	51.5	46.2	46.2	48.2	33.0	45.8	54.1	50.9	38.6	30.7
90°	24.7	26.4	27.7	28.1	33.0	18.4	29.5	31.3	29.5	21.1	14.9
92.5°	19.8	22.4	24.2	25.1	29.9	15.8	26.4	28.1	26.8	21.1	14.9
95°	16.3	20.2	24.2	23.7	25.1	12.2	23.3	25.5	24.7	18.4	12.8
97.5°	13.1	16.3	19.8	19.8	22.8	10.5	21.5	24.2	23.7	16.7	12.2
100°	11.9	14.6	17.5	17.2	20.2	8.4	19.4	21.1	20.7	13.7	11.0
102.5°	10.5	11.9	13.7	13.7	14.9	7.0	14.6	16.3	15.5	11.4	11.0
105°	9.6	10.2	9.6	9.3	9.6	6.2	9.3	10.5	9.3	8.9	8.9
107.5°	9.3	9.3	7.9	7.5	7.0	5.3	6.6	7.0	6.2	7.9	8.9



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CATALOG NUMBER: UTLD-AF24-40-D-U-T3-CL-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.3	8.9	7.0	6.6	5.7	4.9	5.3	5.3	5.3	7.9	8.4
112.5°	8.9	8.9	6.6	5.7	5.3	4.4	4.4	4.0	4.9	7.9	8.9
115°	8.9	8.4	6.2	5.3	4.4	4.0	3.6	3.6	4.4	7.9	8.9
117.5°	8.9	8.4	6.2	4.9	4.4	3.6	3.1	3.1	4.4	7.9	8.9
120°	8.9	8.9	6.2	4.4	4.0	3.6	3.1	3.1	4.4	7.5	8.4
122.5°	8.4	8.4	5.7	4.4	3.6	3.1	2.6	2.6	4.4	7.5	7.9
125°	7.9	7.9	5.7	4.0	3.1	2.6	2.6	2.6	4.4	7.0	7.9
127.5°	7.5	7.5	5.3	3.6	2.6	2.6	2.2	2.2	4.4	7.0	7.5
130°	7.0	7.0	4.9	3.1	2.6	2.2	1.7	2.2	4.4	6.6	7.0
132.5°	6.2	6.2	4.4	2.6	2.2	1.7	1.7	1.7	4.0	6.2	6.6
135°	5.3	5.3	4.0	2.6	2.2	1.7	1.3	1.7	3.6	5.3	5.7
137.5°	4.9	4.9	3.6	2.2	1.7	1.3	1.3	1.7	3.6	4.9	5.3
140°	3.6	3.6	2.6	1.7	1.3	1.3	0.9	1.3	3.1	4.0	4.4
142.5°	2.6	2.6	2.2	1.7	1.3	0.9	0.9	1.3	2.6	3.6	3.6
145°	2.2	2.2	1.7	1.3	1.3	0.9	0.4	0.9	2.2	3.1	3.1
147.5°	1.7	1.7	1.7	1.3	0.9	0.4	0.4	0.4	1.3	2.2	2.2
150°	1.3	1.3	1.3	1.3	0.9	0.0	0.0	0.0	0.9	1.3	1.3
152.5°	0.9	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4
155°	0.4	0.9	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.4	0.4	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)