

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: P241011

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241011
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-AF24-40-D-U-T4W-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA 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: 3975.9 lumens
Efficiency: N/A
Efficacy: 99.4 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): 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

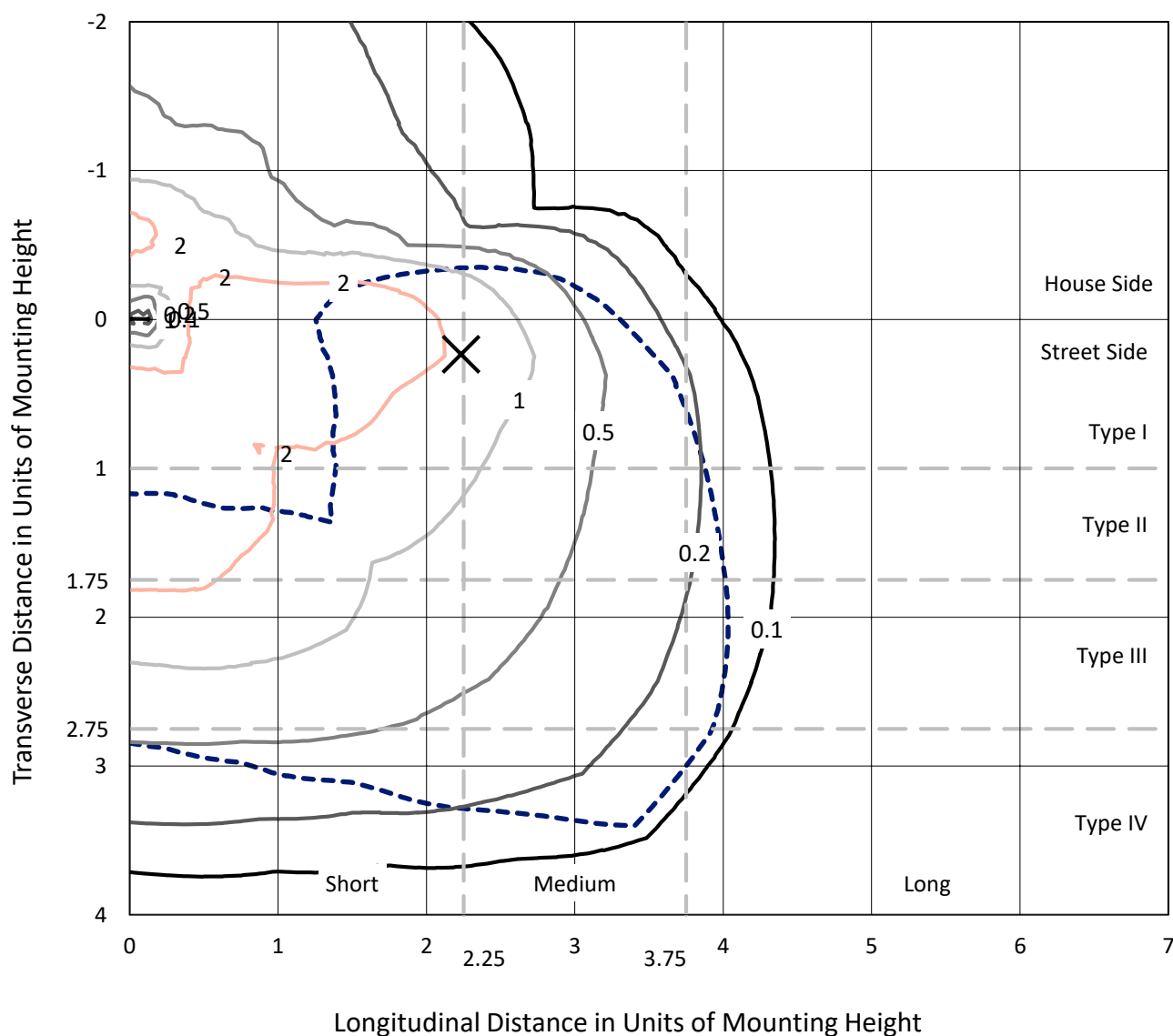


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

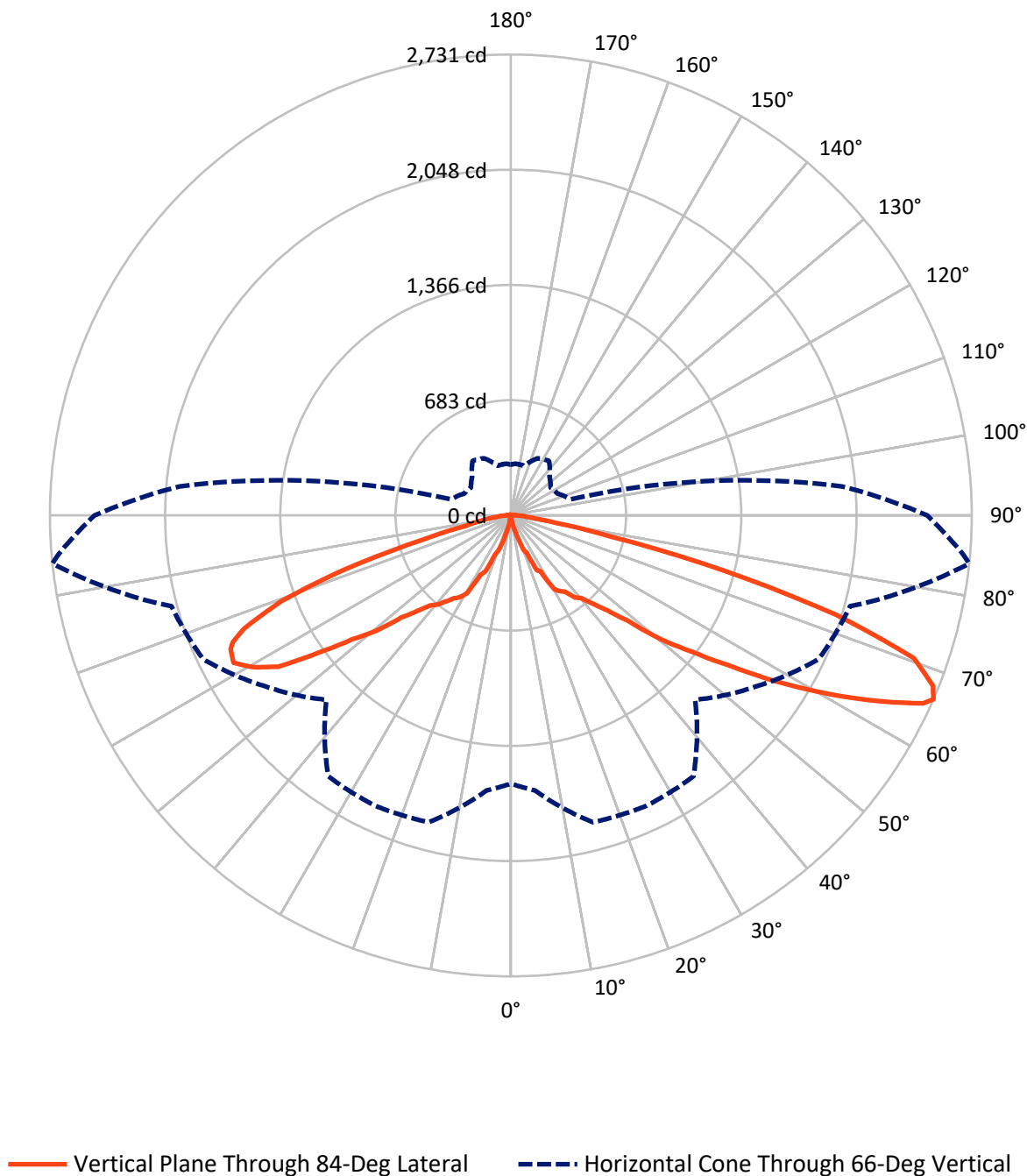


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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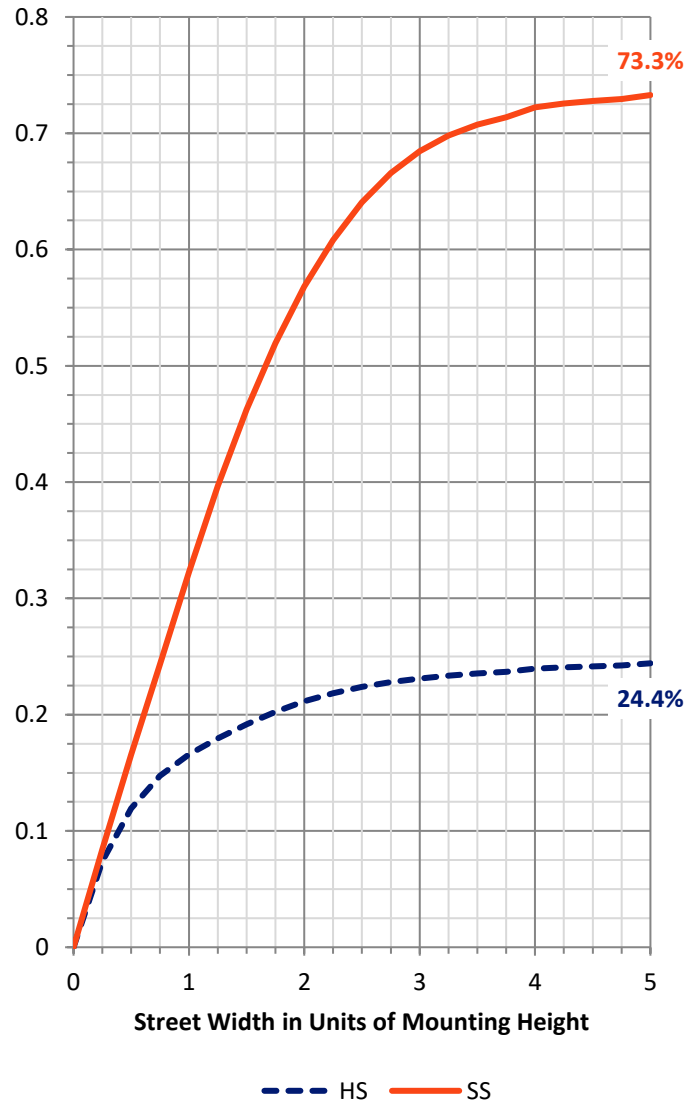
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.9	24.2	1019.1
	% Fixture	25.0	0.6	25.6
Street Side	Lumens	2934.1	22.7	2956.8
	% Fixture	73.8	0.6	74.4
Total	Lumens	3929.0	46.9	3975.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	36.9	0.9
20°-30°	136.4	3.4
30°-40°	280.4	7.1
40°-50°	465.2	11.7
50°-60°	811.2	20.4
60°-70°	1195.1	30.1
70°-80°	872.1	21.9
80°-90°	128.7	3.2
90°-100°	24.0	0.6
100°-110°	11.0	0.3
110°-120°	5.2	0.1
120°-130°	3.6	0.1
130°-140°	2.1	0.1
140°-150°	0.9	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3929.0	98.8
0°-180°	3975.9	100.0

Coefficient of Utilization



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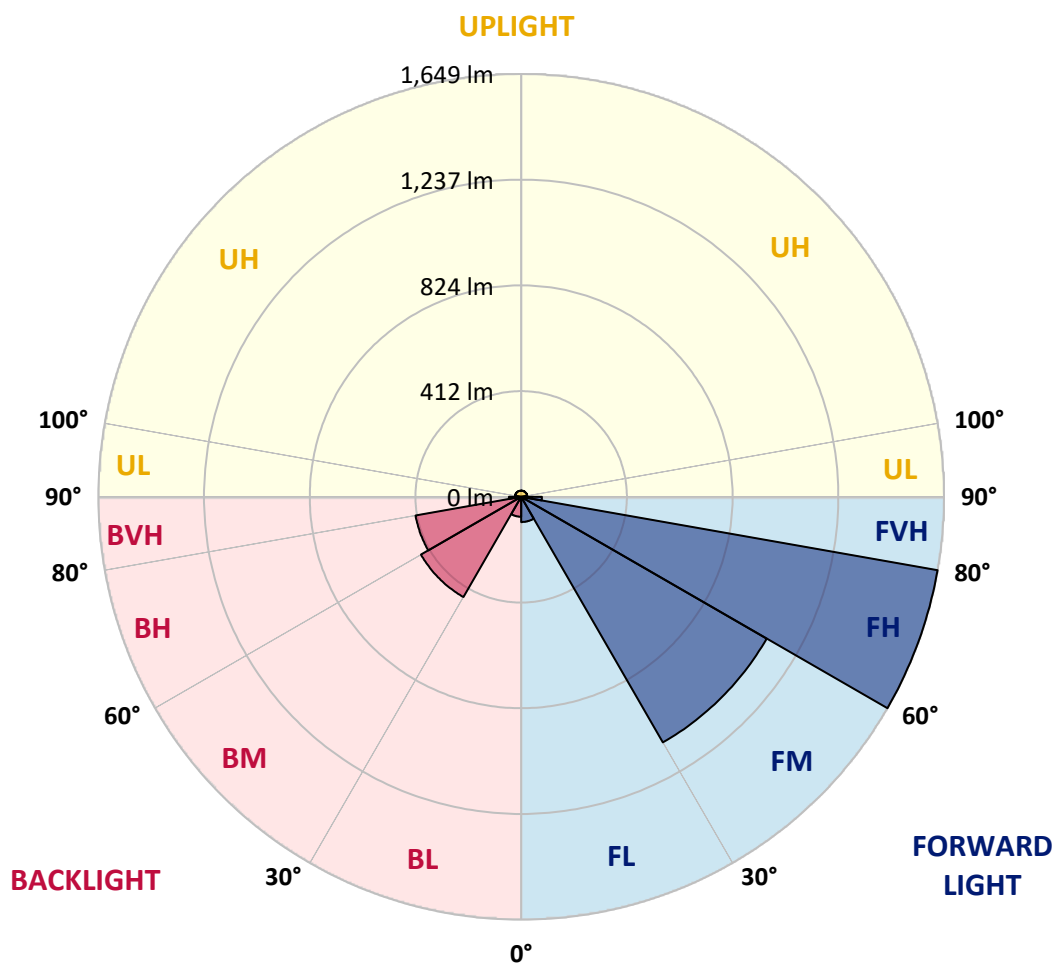
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	98.4	2.5			
FM	(30°-60°)	1105.8	27.8			
FH	(60°-80°)	1649.0	41.5			G1/1800
FVH	(80°-90°)	80.9	2.0			G1/100
BL	(0°-30°)	77.8	2.0	B0/110		
BM	(30°-60°)	451.1	11.3	B1/1000		
BH	(60°-80°)	418.2	10.5	B1/500		G1/500
BVH	(80°-90°)	47.8	1.2			G1/100
UL	(90°-100°)	24.0	0.6		U2/50	
UH	(100°-180°)	24.2	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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	23.5	21.0	21.0	20.1	18.1	16.2	12.7	10.7	9.3	9.3	8.8
5°	45.1	47.4	54.7	50.4	41.6	54.3	24.5	16.2	10.3	8.8	8.8
7.5°	71.4	75.3	57.7	51.4	51.4	54.7	44.5	26.9	13.6	10.3	9.9
10°	149.6	141.4	98.4	99.8	84.5	59.2	40.7	35.7	21.0	16.6	15.2
12.5°	145.4	143.3	146.2	127.7	128.6	93.4	51.9	83.1	75.3	71.9	79.2
15°	187.3	185.4	148.7	151.7	137.4	142.8	120.3	119.8	116.0	97.4	93.4
17.5°	260.1	258.3	291.0	193.7	137.8	178.5	155.0	133.6	138.4	146.2	152.1
20°	259.7	256.8	270.5	232.2	235.2	184.4	165.3	243.1	222.1	223.0	210.4
22.5°	383.5	365.8	321.3	242.5	265.1	215.7	245.1	240.2	224.0	237.2	233.3
25°	372.2	379.0	364.0	359.0	270.0	309.1	269.6	277.3	342.4	360.0	360.4
27.5°	431.9	418.7	406.9	368.8	363.0	300.8	277.3	369.3	358.5	374.6	374.2
30°	515.0	510.6	507.7	409.8	392.8	331.6	373.6	377.1	435.3	508.7	523.8
32.5°	595.3	574.1	526.7	474.4	394.2	391.8	371.3	468.5	499.5	534.1	539.5
35°	722.4	721.8	641.7	507.2	441.2	416.3	480.7	504.8	504.2	556.5	588.4
37.5°	831.0	836.4	752.2	612.4	456.3	420.6	501.8	544.3	546.3	617.2	605.0
40°	996.3	982.1	906.8	731.2	521.3	448.5	550.2	556.5	596.7	644.2	661.8
42.5°	1113.7	1108.3	1083.9	870.1	596.7	499.9	607.5	580.0	631.9	718.1	736.6
45°	1187.0	1160.7	1184.6	971.9	717.5	609.8	620.1	656.8	712.2	803.0	855.4
47.5°	1260.9	1280.9	1224.7	1048.7	826.1	660.8	682.4	798.2	851.5	933.2	966.5
50°	1389.0	1367.5	1347.9	1164.0	993.3	742.0	853.5	837.8	987.4	1154.4	1160.2
52.5°	1467.3	1467.3	1435.5	1264.7	1108.8	861.8	910.6	966.5	1189.5	1340.6	1395.4
55°	1578.4	1601.3	1595.4	1383.7	1244.8	1024.7	1060.4	1177.7	1374.4	1568.5	1704.0
57.5°	1657.0	1688.8	1757.9	1510.8	1376.7	1091.2	1279.0	1409.6	1622.8	1859.0	2022.9
60°	1774.0	1774.5	1845.4	1623.4	1543.7	1217.8	1363.5	1624.8	1759.3	2138.3	2224.9
62.5°	1785.8	1805.7	1954.4	1798.4	1709.9	1349.9	1640.4	1735.8	1912.9	2419.1	2494.9
65°	1644.0	1697.7	1946.6	1880.6	1862.0	1471.7	1721.6	1955.4	2037.5	2685.1	2663.6
66°	1589.6	1635.1	1882.1	1898.7	1886.9	1544.6	1769.0	2012.7	2081.2	2731.2	2693.5
67.5°	1570.5	1603.7	1804.8	1918.3	1971.6	1676.6	1884.9	2040.5	2160.8	2697.8	2682.8
70°	1438.0	1479.5	1668.3	2047.4	2152.1	1918.7	2034.2	2108.0	2217.1	2533.0	2467.5
72.5°	1096.5	1139.1	1278.6	1689.3	2167.1	2276.8	2265.5	2193.2	2034.2	2012.7	1907.4
75°	543.9	589.4	687.7	984.5	1686.4	2236.6	2252.3	1977.4	1644.0	1298.1	1217.3
77.5°	281.3	317.0	265.6	377.1	867.2	1586.7	1594.0	1303.9	952.7	606.5	566.4
80°	191.7	199.5	181.0	185.8	357.1	810.9	756.2	694.1	383.5	278.3	290.5
82.5°	140.8	130.1	124.8	135.5	192.8	253.4	271.9	300.4	205.0	141.4	149.1
85°	66.5	73.3	71.9	82.7	117.4	86.6	133.1	180.5	136.5	91.0	89.5
87.5°	41.6	41.1	44.0	51.0	70.9	57.3	72.8	89.5	82.2	56.7	55.7
90°	27.5	24.5	23.0	27.5	39.7	28.4	39.2	51.0	46.4	30.8	28.9
92.5°	18.6	18.6	20.1	23.0	34.2	30.4	27.9	28.9	28.9	23.9	23.0
95°	13.6	14.6	16.6	17.2	20.5	17.6	22.5	24.9	25.4	19.5	19.1
97.5°	11.7	12.7	13.6	14.2	17.2	14.2	18.6	22.0	21.6	15.7	16.2
100°	10.7	11.7	11.7	12.2	13.6	10.7	15.2	20.5	19.5	13.6	13.2
102.5°	10.3	10.3	9.9	9.9	10.7	8.3	12.7	18.1	14.6	11.3	10.3
105°	9.9	9.9	8.3	7.8	8.3	6.9	10.3	13.6	10.3	9.3	9.3
107.5°	9.3	8.8	7.3	6.3	6.9	5.4	8.3	8.8	7.3	8.3	8.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
110°	8.3	8.3	6.3	5.4	5.4	4.4	5.9	6.3	6.3	8.3	8.8
112.5°	7.8	7.3	5.4	4.4	4.4	4.0	4.4	4.9	5.4	7.8	8.3
115°	7.3	6.9	4.9	4.0	3.4	2.9	3.4	4.0	4.9	7.8	7.8
117.5°	6.9	6.3	4.4	3.4	2.9	2.4	2.9	3.4	4.9	7.8	7.8
120°	6.9	6.3	4.4	2.9	2.4	2.4	2.4	2.9	5.4	7.8	8.3
122.5°	6.3	6.3	4.4	2.9	2.4	1.9	1.9	2.9	4.9	7.3	7.3
125°	6.3	6.3	4.0	2.4	1.9	1.9	1.9	2.4	4.9	6.9	7.3
127.5°	5.9	5.9	4.0	2.4	1.9	1.4	1.4	2.4	4.4	6.9	6.9
130°	5.9	5.9	4.0	1.9	1.4	1.4	1.4	1.9	4.4	6.3	6.3
132.5°	4.9	4.9	3.4	1.9	1.4	1.0	1.4	1.9	4.0	5.4	5.9
135°	4.9	4.9	3.4	1.9	1.4	1.0	1.0	1.9	3.4	4.9	4.9
137.5°	4.4	4.4	2.9	1.9	1.4	1.0	1.0	1.4	2.9	4.4	4.4
140°	4.0	4.0	3.4	1.9	1.4	1.0	1.0	1.0	2.4	3.4	3.4
142.5°	4.0	4.0	2.9	1.9	1.0	0.4	0.4	1.0	1.9	2.4	2.4
145°	3.4	3.4	2.9	1.9	1.0	0.4	0.4	1.0	1.4	1.9	1.9
147.5°	3.4	3.4	2.9	1.4	0.4	0.4	0.4	1.0	1.4	1.9	1.9
150°	2.9	2.9	1.9	1.0	0.0	0.0	0.4	0.4	1.0	1.4	1.4
152.5°	1.9	1.9	1.4	0.4	0.0	0.0	0.0	0.4	1.0	1.0	1.0
155°	1.0	1.0	0.4	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	0.4
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°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.3	8.3	8.3	8.3	8.3
5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.8	9.3	9.3	9.3
7.5°	9.3	9.3	8.8	8.3	8.8	9.9	14.6	33.8	49.3	60.6	60.2
10°	15.2	15.2	14.2	12.2	15.2	33.3	65.5	66.0	54.7	50.4	52.3
12.5°	80.2	71.4	60.6	49.9	48.9	59.2	55.7	77.8	87.1	93.4	92.5
15°	92.0	97.4	89.0	99.8	102.2	60.6	94.8	127.2	136.9	140.8	145.4
17.5°	151.7	167.7	119.8	113.5	113.9	121.3	128.2	134.5	137.4	135.9	136.5
20°	228.5	217.7	233.9	199.5	152.6	162.4	148.7	146.7	193.7	235.2	229.9
22.5°	233.3	251.9	230.3	210.8	233.3	165.3	205.0	217.7	224.0	229.3	236.2
25°	377.6	368.8	322.8	242.1	230.3	220.6	222.6	227.5	239.6	258.3	269.6
27.5°	401.1	399.2	357.1	326.2	245.5	275.9	228.5	274.9	296.8	316.5	320.3
30°	539.5	544.8	410.9	313.5	284.6	236.2	265.1	283.2	300.4	327.7	328.3
32.5°	573.2	584.4	454.4	346.8	298.4	244.5	266.6	280.2	345.3	370.7	371.7
35°	582.1	610.9	468.5	334.6	288.1	243.5	246.1	293.0	325.3	377.1	395.6
37.5°	674.4	653.5	497.9	338.9	269.6	234.3	265.6	281.3	332.1	365.4	371.7
40°	713.6	701.9	517.1	347.8	266.0	260.7	246.1	262.1	286.2	310.1	310.1
42.5°	786.4	740.4	527.7	341.4	258.7	279.8	224.5	242.5	265.1	250.9	256.8
45°	883.4	821.7	564.5	307.7	245.1	237.7	215.7	243.5	229.3	229.3	226.5
47.5°	1008.6	924.5	552.2	295.9	275.9	225.0	284.6	228.9	211.3	219.1	219.6
50°	1206.7	1106.8	589.9	288.1	261.6	220.6	243.5	221.0	221.0	226.5	224.5
52.5°	1455.2	1258.4	606.0	287.6	247.5	256.8	241.6	264.6	228.9	248.0	245.5
55°	1724.1	1486.9	622.7	283.6	245.1	231.8	295.4	253.4	237.7	272.4	273.3
57.5°	2065.0	1751.4	691.1	275.9	246.1	232.2	278.8	283.6	289.5	312.5	316.0
60°	2277.3	1898.2	630.4	290.5	243.5	265.1	324.3	317.0	298.9	383.9	396.6
62.5°	2439.1	2009.2	519.4	302.7	288.1	267.0	335.0	369.8	353.1	387.4	397.1
65°	2468.5	1999.5	397.1	302.7	284.2	311.1	402.1	368.8	314.4	318.0	314.0
66°	2466.5	1969.6	365.8	305.2	288.1	324.3	394.8	373.2	304.2	307.7	300.4
67.5°	2385.7	1875.2	318.0	301.8	315.4	333.0	387.9	348.2	292.5	293.5	286.2
70°	2075.3	1581.7	270.5	310.1	327.2	334.0	424.0	324.3	268.6	261.6	260.1
72.5°	1526.5	1122.0	253.4	308.6	332.1	323.7	357.5	266.6	231.8	218.2	216.7
75°	858.3	573.2	252.4	295.9	293.9	277.8	270.5	205.4	191.7	175.6	172.6
77.5°	395.6	276.3	213.7	238.1	222.1	219.6	201.5	171.2	163.4	152.6	148.1
80°	228.9	195.1	152.1	158.0	159.4	155.0	162.9	154.0	145.8	137.8	130.6
82.5°	133.6	123.8	111.0	104.2	104.2	111.6	134.1	128.2	121.9	114.9	98.8
85°	83.6	80.2	75.8	72.8	72.8	66.9	96.3	107.1	101.3	86.6	77.2
87.5°	54.7	57.3	51.0	51.4	49.9	44.5	65.0	71.9	61.6	49.3	41.1
90°	24.9	27.5	29.8	29.4	31.8	24.5	35.7	36.7	32.8	22.5	16.2
92.5°	19.1	22.5	24.9	24.9	27.5	16.6	25.9	28.9	26.9	21.0	15.2
95°	16.2	20.1	23.9	23.5	23.5	13.2	23.9	26.9	25.4	18.1	13.2
97.5°	13.2	16.2	19.5	19.5	21.6	11.3	22.0	25.9	24.5	18.1	12.7
100°	12.2	14.6	17.2	17.6	19.5	8.8	20.1	24.5	22.0	15.2	12.2
102.5°	11.3	12.2	14.2	14.2	14.6	7.8	16.2	20.1	17.6	11.7	11.7
105°	10.3	10.3	10.3	9.3	9.3	6.3	9.9	13.6	10.7	9.3	10.3
107.5°	9.9	9.3	7.8	7.3	6.9	5.4	6.9	8.3	6.3	8.3	9.3



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CATALOG NUMBER: UTLD-AF24-40-D-U-T4W-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.3	9.3	7.3	6.3	5.9	4.9	5.9	5.4	5.4	8.3	8.8
112.5°	9.3	8.8	6.3	5.4	4.9	4.4	4.9	4.0	4.9	8.3	8.8
115°	8.8	8.8	5.9	4.9	4.9	4.0	4.0	3.4	4.4	7.8	8.8
117.5°	8.8	8.8	5.9	4.4	4.0	3.4	3.4	3.4	4.4	7.8	8.8
120°	8.8	8.3	5.9	4.4	3.4	2.9	2.9	2.9	4.4	7.8	8.3
122.5°	8.3	7.8	5.4	4.0	3.4	2.9	2.4	2.9	4.4	7.3	7.8
125°	7.8	7.8	5.4	3.4	2.9	2.4	1.9	2.4	4.4	7.3	7.8
127.5°	7.8	7.3	4.9	2.9	2.4	2.4	1.9	2.4	4.4	6.9	7.3
130°	6.9	6.9	4.4	2.9	1.9	1.9	1.4	1.9	4.4	6.9	6.9
132.5°	6.3	5.9	4.0	2.4	1.9	1.4	1.4	1.4	4.0	5.9	6.3
135°	5.4	4.9	3.4	1.9	1.4	1.4	1.0	1.4	3.4	5.4	5.4
137.5°	4.4	4.4	3.4	1.9	1.4	1.0	1.0	1.4	3.4	4.9	5.4
140°	4.0	3.4	2.4	1.4	1.0	1.0	1.0	1.4	2.9	4.0	4.4
142.5°	2.9	2.9	1.9	1.4	1.0	1.0	0.4	1.0	2.4	3.4	3.4
145°	2.4	2.4	1.9	1.0	1.0	0.4	0.4	0.4	1.9	2.4	2.9
147.5°	1.9	1.9	1.4	1.0	0.4	0.4	0.0	0.4	1.4	1.9	1.9
150°	1.4	1.4	1.4	1.0	0.4	0.0	0.0	0.0	0.4	1.0	1.0
152.5°	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)