

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: P240965

Luminaire Tested: **UTLD-AF24-30-D-U-T3-CL**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240965
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-AF24-30-D-U-T3-CL
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 375mA 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: 3247.9 lumens
Efficiency: N/A
Efficacy: 104.8 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): 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



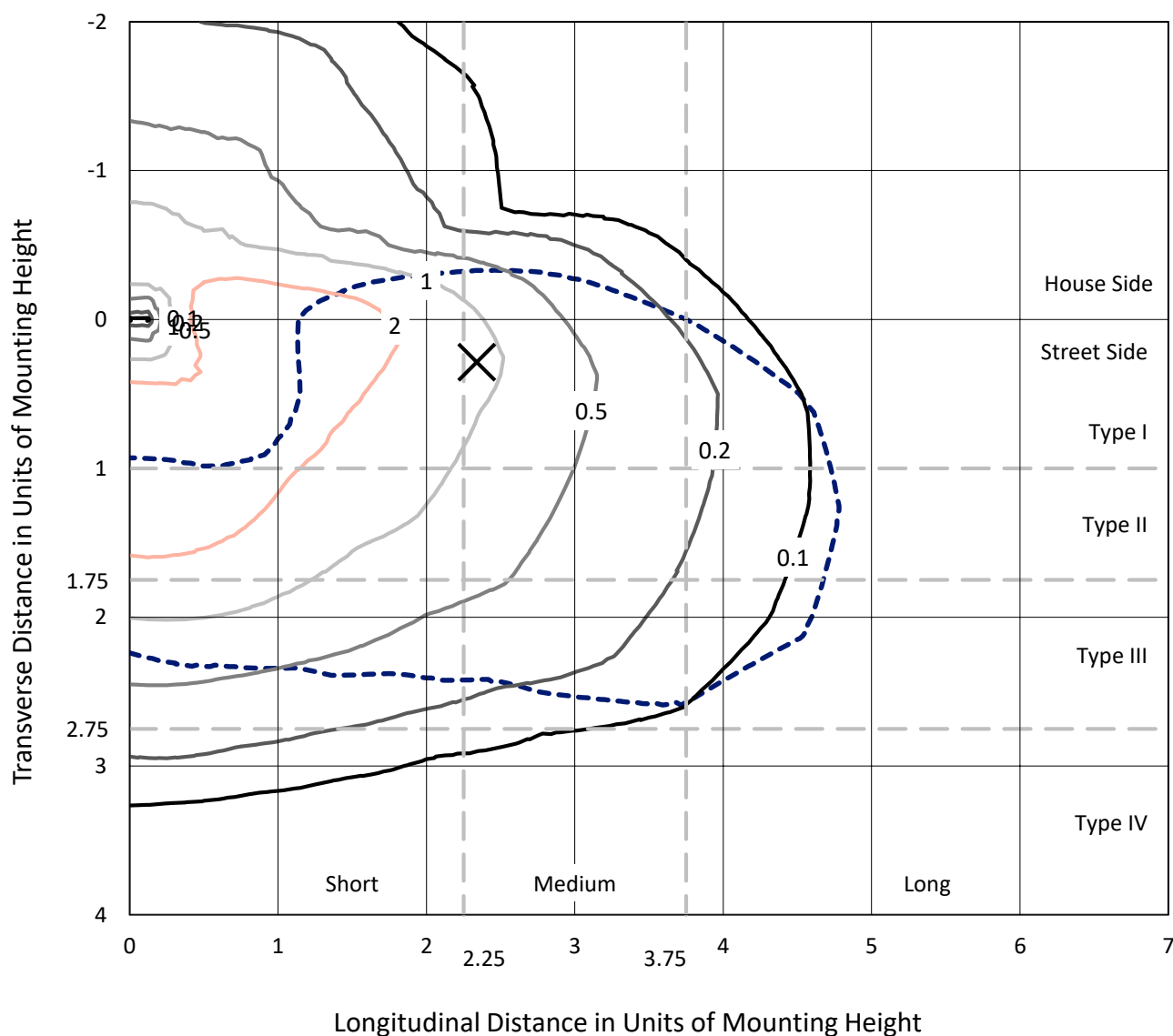
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

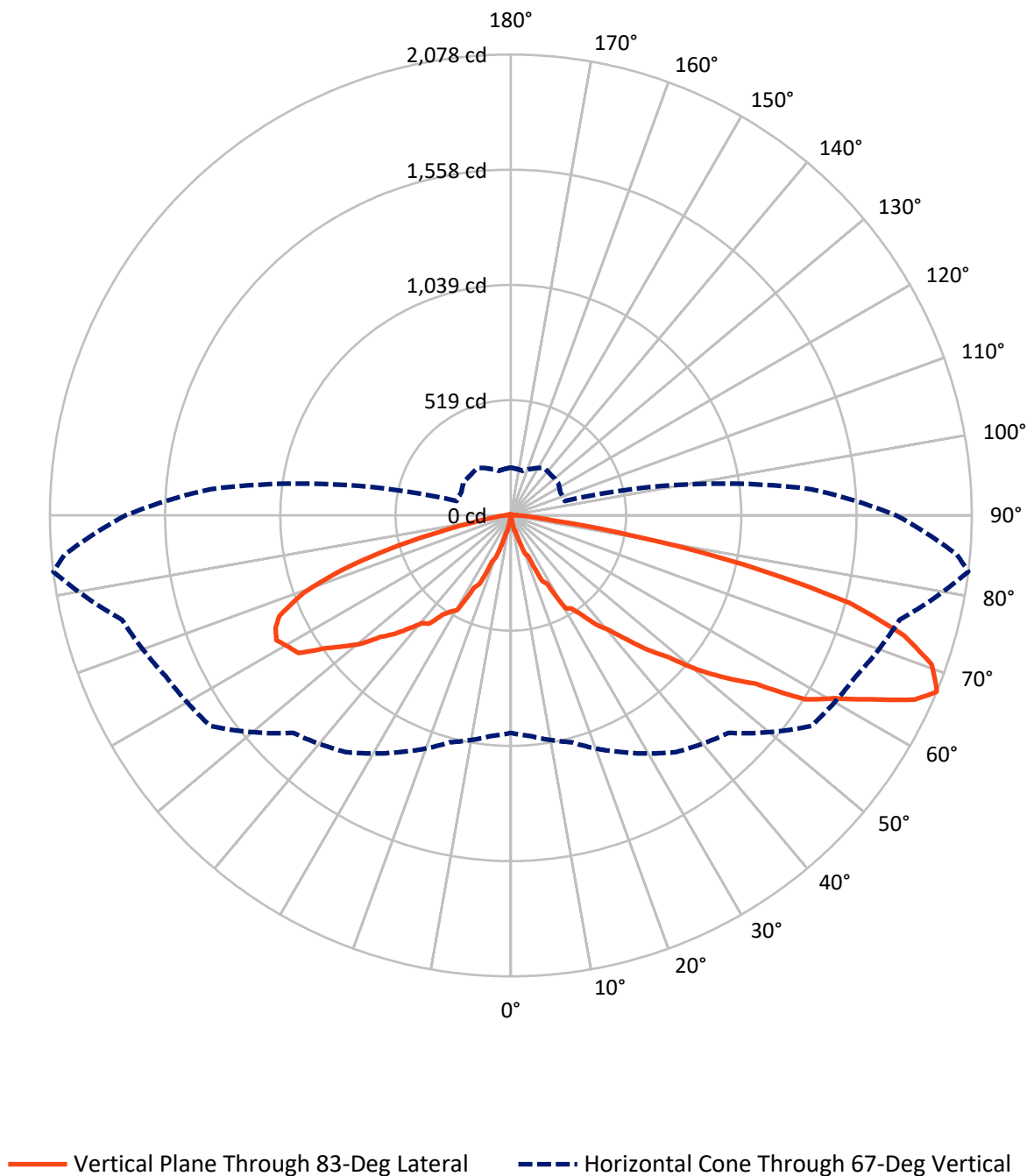


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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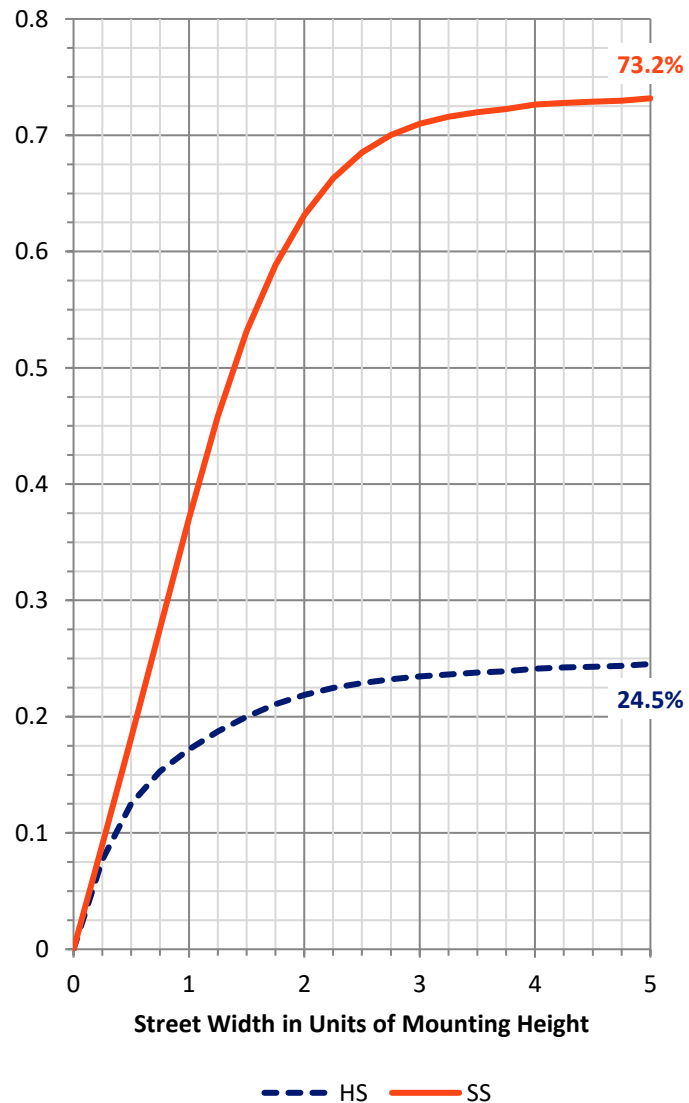
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	815.0	21.6	836.5
	% Fixture	25.1	0.7	25.8
Street Side	Lumens	2393.2	18.1	2411.4
	% Fixture	73.7	0.6	74.2
Total	Lumens	3208.2	39.7	3247.9
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	29.4	0.9
20°-30°	118.0	3.6
30°-40°	260.7	8.0
40°-50°	464.6	14.3
50°-60°	745.5	23.0
60°-70°	907.1	27.9
70°-80°	584.5	18.0
80°-90°	96.0	3.0
90°-100°	19.8	0.6
100°-110°	9.0	0.3
110°-120°	4.6	0.1
120°-130°	3.3	0.1
130°-140°	2.0	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3208.2	98.8
0°-180°	3247.9	100.0

Coefficient of Utilization



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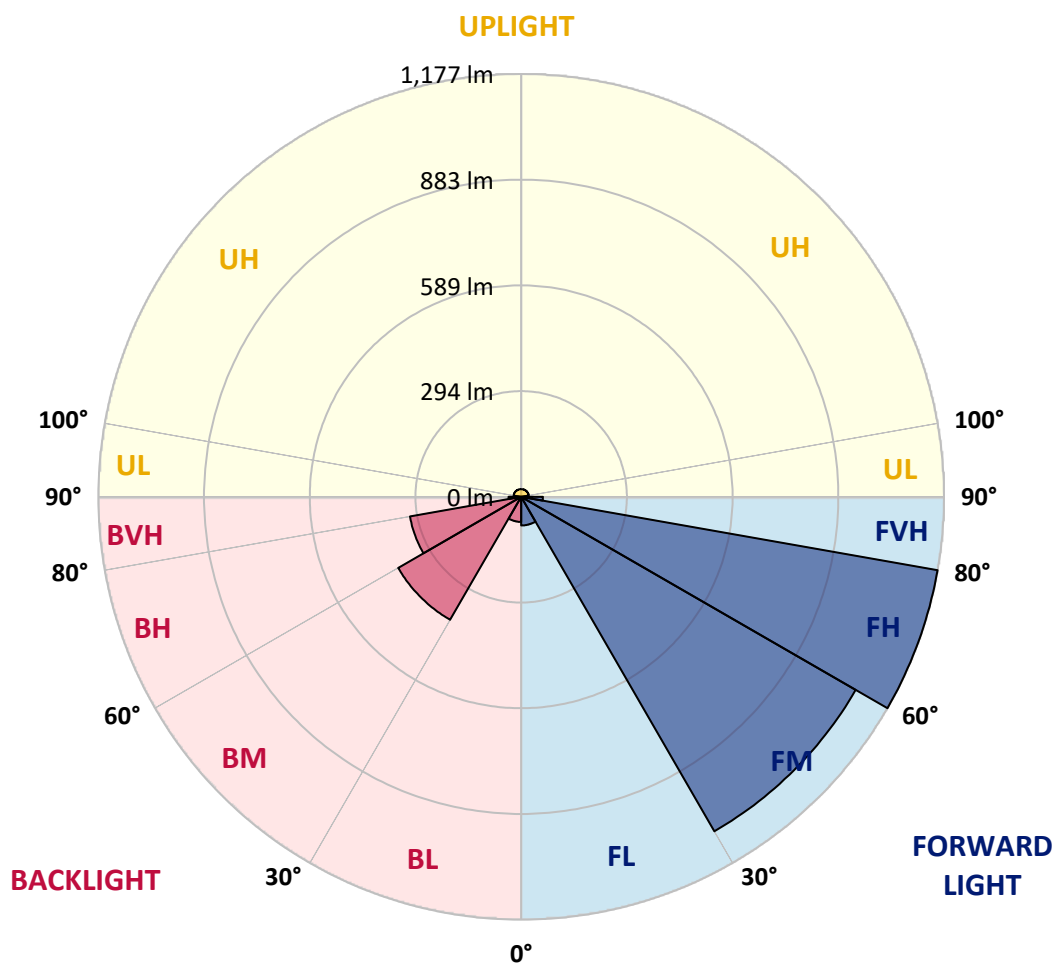
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.8	2.5			
FM	(30°-60°)	1075.4	33.1			
FH	(60°-80°)	1177.3	36.2			G1/1800
FVH	(80°-90°)	60.7	1.9			G1/100
BL	(0°-30°)	69.9	2.2	B0/110		
BM	(30°-60°)	395.4	12.2	B1/1000		
BH	(60°-80°)	314.4	9.7	B1/500		G1/500
BVH	(80°-90°)	35.3	1.1			G1/100
UL	(90°-100°)	19.8	0.6		U2/50	
UH	(100°-180°)	21.6	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°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	16.3	16.3	16.3	14.7	12.7	10.3	9.1	8.0	7.6	7.6	7.6
5°	36.2	37.8	36.2	35.8	32.2	39.4	16.0	10.7	8.0	7.2	7.2
7.5°	51.4	52.2	42.1	39.0	31.4	43.0	34.6	19.5	9.9	8.0	7.6
10°	89.1	76.8	65.3	64.4	60.5	45.3	31.0	27.8	15.5	12.0	12.4
12.5°	86.3	88.7	87.2	84.4	77.6	64.9	41.4	53.3	58.5	68.8	64.9
15°	105.9	104.2	92.3	93.1	88.4	93.9	84.0	88.7	83.6	72.8	76.0
17.5°	164.0	158.4	165.9	127.4	93.1	114.2	116.2	103.8	111.0	114.6	127.4
20°	187.4	179.4	189.0	161.9	154.4	129.7	123.8	188.2	175.4	184.2	185.9
22.5°	259.0	254.7	227.2	185.5	197.3	165.5	176.7	195.4	199.4	197.3	203.8
25°	326.7	326.3	323.2	285.3	210.5	234.8	204.2	222.8	287.7	327.4	331.0
27.5°	386.8	383.6	360.9	350.2	294.8	265.0	243.6	308.8	329.5	348.6	352.9
30°	489.1	509.7	460.8	398.3	356.9	305.2	327.4	325.9	396.7	486.6	491.4
32.5°	574.2	562.6	511.7	459.2	417.1	377.3	345.0	455.2	474.8	499.4	510.6
35°	699.9	704.3	650.6	512.1	477.5	422.6	451.2	494.2	507.8	548.7	551.9
37.5°	731.4	766.0	734.6	614.0	507.8	462.0	485.5	540.7	585.3	623.2	599.2
40°	869.8	852.3	785.1	688.0	570.2	517.3	593.7	626.4	633.1	677.3	682.8
42.5°	1005.6	1013.1	930.0	806.6	651.4	601.3	668.1	659.4	723.8	762.0	782.8
45°	1137.6	1141.2	1075.6	919.6	781.5	741.3	708.7	746.1	853.6	862.7	867.9
47.5°	1227.2	1227.5	1199.7	1043.0	891.3	800.7	790.2	830.4	937.1	953.4	958.2
50°	1366.9	1363.3	1299.2	1125.3	1036.6	918.0	958.2	943.1	1035.4	1094.3	1107.0
52.5°	1421.8	1403.9	1369.6	1245.1	1167.1	1049.8	1031.4	1058.9	1164.3	1217.6	1259.9
55°	1386.0	1417.0	1410.6	1321.1	1205.8	1165.6	1117.8	1220.8	1256.6	1338.6	1413.4
57.5°	1311.5	1364.9	1390.0	1356.5	1293.6	1202.5	1288.1	1272.6	1409.8	1565.0	1615.1
60°	1260.6	1293.6	1344.6	1385.2	1339.5	1306.0	1389.2	1470.3	1522.9	1674.1	1741.0
62.5°	1169.1	1200.5	1282.1	1341.0	1315.1	1326.3	1501.4	1543.9	1698.7	1824.8	1916.0
65°	1060.5	1090.0	1185.4	1247.1	1308.8	1352.5	1572.6	1654.9	1764.8	2001.2	2013.9
67°	980.5	997.6	1058.4	1177.0	1301.2	1386.4	1653.8	1715.8	1814.5	2077.5	2017.5
67.5°	953.8	970.6	1020.3	1143.2	1296.8	1391.5	1676.8	1733.8	1821.7	2069.6	2016.6
70°	734.2	793.5	794.6	912.1	1158.0	1353.4	1717.8	1795.4	1865.0	2012.2	1947.1
72.5°	439.7	439.7	460.0	575.4	820.9	1210.5	1717.8	1773.9	1834.0	1853.9	1744.1
75°	212.9	203.0	230.4	276.2	413.5	816.5	1548.3	1625.9	1633.4	1579.3	1414.6
77.5°	175.4	152.4	144.8	141.7	221.7	305.6	1034.6	1269.4	1269.8	1083.5	948.3
80°	109.9	111.0	114.2	98.3	126.9	157.9	412.7	773.1	702.8	563.0	474.3
82.5°	77.6	80.4	81.5	72.8	88.7	74.1	137.3	326.3	284.1	196.2	166.3
85°	54.5	52.9	59.3	49.3	53.3	43.8	75.6	140.5	160.0	97.1	92.0
87.5°	32.6	32.6	39.8	33.5	36.6	31.4	45.7	68.8	79.6	54.9	51.4
90°	19.5	17.9	18.7	19.1	20.7	17.9	24.7	33.0	34.6	27.8	25.5
92.5°	14.7	14.7	16.0	15.1	18.7	16.3	21.5	25.9	31.4	23.8	22.3
95°	9.5	10.7	12.0	12.4	14.3	12.4	17.9	21.1	23.5	18.3	17.5
97.5°	8.8	9.5	10.3	10.3	12.0	9.9	14.7	18.7	18.7	14.3	13.1
100°	8.4	8.8	9.1	9.1	9.9	8.0	11.6	16.3	16.3	12.0	11.2
102.5°	7.6	8.0	7.6	7.2	8.4	6.3	9.5	14.3	11.6	9.1	9.5
105°	7.6	7.6	6.8	5.9	6.8	5.2	8.4	10.3	8.0	7.6	8.0
107.5°	7.2	7.2	5.5	5.2	5.5	4.4	6.8	7.2	6.3	7.2	7.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
110°	6.8	6.3	5.2	4.4	4.4	4.0	5.2	5.2	5.2	6.8	7.6
112.5°	5.9	5.5	4.4	3.6	3.6	3.2	3.6	4.0	4.8	6.3	7.2
115°	5.5	5.2	4.0	3.2	2.8	2.8	3.2	3.2	4.4	6.3	7.2
117.5°	5.5	5.2	3.6	3.2	2.4	2.4	2.8	3.2	4.4	6.3	7.2
120°	5.2	5.2	3.6	2.8	2.4	1.9	2.4	2.8	4.4	6.8	7.2
122.5°	5.2	4.8	3.6	2.8	1.9	1.9	1.9	2.4	4.0	6.3	6.8
125°	4.8	4.8	3.2	2.4	1.9	1.6	1.9	2.4	4.4	6.3	6.8
127.5°	4.8	4.4	3.2	2.4	1.6	1.6	1.9	1.9	4.0	5.9	6.3
130°	4.8	4.4	3.2	1.9	1.6	1.6	1.6	1.9	4.0	5.5	5.9
132.5°	4.0	4.0	2.8	1.9	1.6	1.2	1.6	1.6	3.2	4.8	5.2
135°	4.0	3.6	2.8	1.9	1.6	1.2	1.2	1.6	3.2	4.4	4.4
137.5°	3.6	3.2	2.8	1.9	1.2	1.2	0.8	1.2	2.8	3.6	4.0
140°	3.2	3.2	2.4	1.9	1.2	0.8	0.8	1.2	1.9	2.8	3.2
142.5°	3.2	3.2	2.8	1.9	1.2	0.8	0.8	0.8	1.6	2.4	2.4
145°	2.8	2.8	2.4	1.6	0.8	0.4	0.4	0.8	1.2	1.6	1.9
147.5°	2.8	2.8	2.4	1.6	0.8	0.4	0.4	0.8	1.2	1.6	1.6
150°	2.4	2.4	1.9	1.2	0.4	0.0	0.0	0.4	0.8	1.2	1.2
152.5°	1.6	1.6	1.2	0.8	0.0	0.0	0.0	0.4	0.8	0.8	0.8
155°	0.8	0.8	0.8	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°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
2.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.2	7.2	7.2	7.2	7.2
5°	6.8	6.8	7.2	7.2	7.2	7.2	7.2	7.6	8.0	8.0	8.4
7.5°	7.6	7.6	7.2	7.2	7.6	8.4	13.5	28.6	54.1	50.1	49.7
10°	12.0	12.0	10.7	9.9	10.7	39.0	61.3	58.1	48.9	47.8	46.1
12.5°	75.6	70.5	56.9	35.8	52.2	49.3	57.3	67.2	87.6	92.0	88.7
15°	76.0	79.2	85.5	92.7	117.4	52.2	101.1	123.8	132.1	132.1	134.9
17.5°	132.1	142.5	109.5	98.7	117.0	143.2	113.0	125.7	124.6	124.9	121.3
20°	214.9	194.2	214.1	192.2	131.3	160.4	140.9	134.9	181.9	216.5	216.5
22.5°	212.9	225.7	222.8	220.9	231.2	142.5	179.8	195.4	202.5	193.4	207.4
25°	355.4	341.8	323.2	220.4	221.7	198.1	194.2	182.3	198.1	213.7	210.5
27.5°	371.6	374.8	339.4	328.3	232.4	222.8	183.0	212.1	231.2	232.4	230.4
30°	507.4	513.7	400.7	302.4	261.1	203.4	214.1	204.5	213.7	224.4	230.4
32.5°	536.8	527.2	442.5	340.6	255.8	215.2	197.0	204.5	239.2	239.2	237.1
35°	571.8	564.7	456.0	323.6	279.0	201.3	182.3	203.8	213.7	231.2	232.4
37.5°	642.2	638.2	500.6	322.7	248.3	190.2	200.6	205.7	208.9	212.9	209.3
40°	688.9	658.2	514.1	337.1	240.4	220.4	208.9	193.7	196.6	186.6	182.3
42.5°	776.3	725.0	527.2	327.4	234.4	243.2	194.2	191.4	184.6	174.3	174.3
45°	865.5	799.8	544.7	308.0	226.0	236.0	200.2	195.8	189.9	188.2	184.6
47.5°	956.3	867.9	542.0	320.3	253.5	220.9	250.7	210.5	181.1	196.6	195.4
50°	1105.4	978.5	544.3	296.0	252.7	216.9	251.1	199.4	193.7	205.7	206.9
52.5°	1227.2	1053.7	577.4	282.1	244.7	251.1	237.5	241.5	228.4	224.8	229.2
55°	1372.8	1150.0	555.9	265.5	238.3	236.8	279.8	243.2	231.2	242.7	244.0
57.5°	1555.5	1284.1	560.7	238.3	240.4	228.0	273.7	272.2	265.0	259.4	257.5
60°	1661.4	1327.1	516.1	254.3	232.8	251.4	290.5	282.1	244.3	283.8	290.1
62.5°	1744.5	1393.9	406.7	251.4	258.6	240.0	266.6	275.4	257.5	287.3	290.9
65°	1764.8	1390.3	311.6	258.3	255.8	266.6	315.6	270.6	224.8	229.2	231.2
67°	1737.0	1358.9	252.7	245.9	259.4	256.7	261.1	232.4	207.8	212.1	215.2
67.5°	1721.0	1333.4	239.6	245.1	268.2	256.2	255.8	223.6	203.0	208.5	209.7
70°	1573.0	1194.6	200.6	241.9	265.8	232.8	239.2	197.0	179.0	181.1	181.9
72.5°	1346.9	958.6	191.4	240.7	261.1	194.2	183.8	161.1	152.4	149.7	145.7
75°	1033.8	660.5	189.0	217.3	214.5	146.8	147.2	134.1	134.9	128.9	126.5
77.5°	622.8	370.1	160.8	183.8	160.8	112.2	121.7	119.0	122.1	115.8	111.8
80°	298.4	180.7	126.9	135.3	113.4	88.0	103.8	108.2	109.0	99.8	95.5
82.5°	127.8	93.5	85.9	84.8	80.8	68.0	84.0	88.4	89.1	83.6	66.9
85°	75.2	63.6	59.3	56.9	56.1	42.1	60.0	71.2	71.2	58.9	50.9
87.5°	47.0	46.5	41.7	41.7	43.8	29.9	41.4	48.9	46.1	35.0	27.8
90°	22.3	23.8	25.1	25.5	29.9	16.7	26.7	28.2	26.7	19.1	13.5
92.5°	17.9	20.3	21.9	22.7	27.1	14.3	23.8	25.5	24.2	19.1	13.5
95°	14.7	18.3	21.9	21.5	22.7	11.2	21.1	23.1	22.3	16.7	11.6
97.5°	12.0	14.7	17.9	17.9	20.7	9.5	19.5	21.9	21.5	15.1	11.2
100°	10.7	13.1	16.0	15.5	18.3	7.6	17.5	19.1	18.7	12.4	9.9
102.5°	9.5	10.7	12.4	12.4	13.5	6.3	13.1	14.7	13.9	10.3	9.9
105°	8.8	9.1	8.8	8.4	8.8	5.5	8.4	9.5	8.4	8.0	8.0
107.5°	8.4	8.4	7.2	6.8	6.3	4.8	5.9	6.3	5.5	7.2	8.0



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CATALOG NUMBER: UTLD-AF24-30-D-U-T3-CL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	8.4	8.0	6.3	5.9	5.2	4.4	4.8	4.8	4.8	7.2	7.6
112.5°	8.0	8.0	5.9	5.2	4.8	4.0	4.0	3.6	4.4	7.2	8.0
115°	8.0	7.6	5.5	4.8	4.0	3.6	3.2	3.2	4.0	7.2	8.0
117.5°	8.0	7.6	5.5	4.4	4.0	3.2	2.8	2.8	4.0	7.2	8.0
120°	8.0	8.0	5.5	4.0	3.6	3.2	2.8	2.8	4.0	6.8	7.6
122.5°	7.6	7.6	5.2	4.0	3.2	2.8	2.4	2.4	4.0	6.8	7.2
125°	7.2	7.2	5.2	3.6	2.8	2.4	2.4	2.4	4.0	6.3	7.2
127.5°	6.8	6.8	4.8	3.2	2.4	2.4	1.9	1.9	4.0	6.3	6.8
130°	6.3	6.3	4.4	2.8	2.4	1.9	1.6	1.9	4.0	5.9	6.3
132.5°	5.5	5.5	4.0	2.4	1.9	1.6	1.6	1.6	3.6	5.5	5.9
135°	4.8	4.8	3.6	2.4	1.9	1.6	1.2	1.6	3.2	4.8	5.2
137.5°	4.4	4.4	3.2	1.9	1.6	1.2	1.2	1.6	3.2	4.4	4.8
140°	3.2	3.2	2.4	1.6	1.2	1.2	0.8	1.2	2.8	3.6	4.0
142.5°	2.4	2.4	1.9	1.6	1.2	0.8	0.8	1.2	2.4	3.2	3.2
145°	1.9	1.9	1.6	1.2	1.2	0.8	0.4	0.8	1.9	2.8	2.8
147.5°	1.6	1.6	1.6	1.2	0.8	0.4	0.4	0.4	1.2	1.9	1.9
150°	1.2	1.2	1.2	1.2	0.8	0.0	0.0	0.0	0.8	1.2	1.2
152.5°	0.8	0.8	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.4	0.4
155°	0.4	0.8	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)