

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: P241118

Luminaire Tested: **UTLD-AF24-30-D-U-T2U-CL-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-49)
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-T2U-CL-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-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



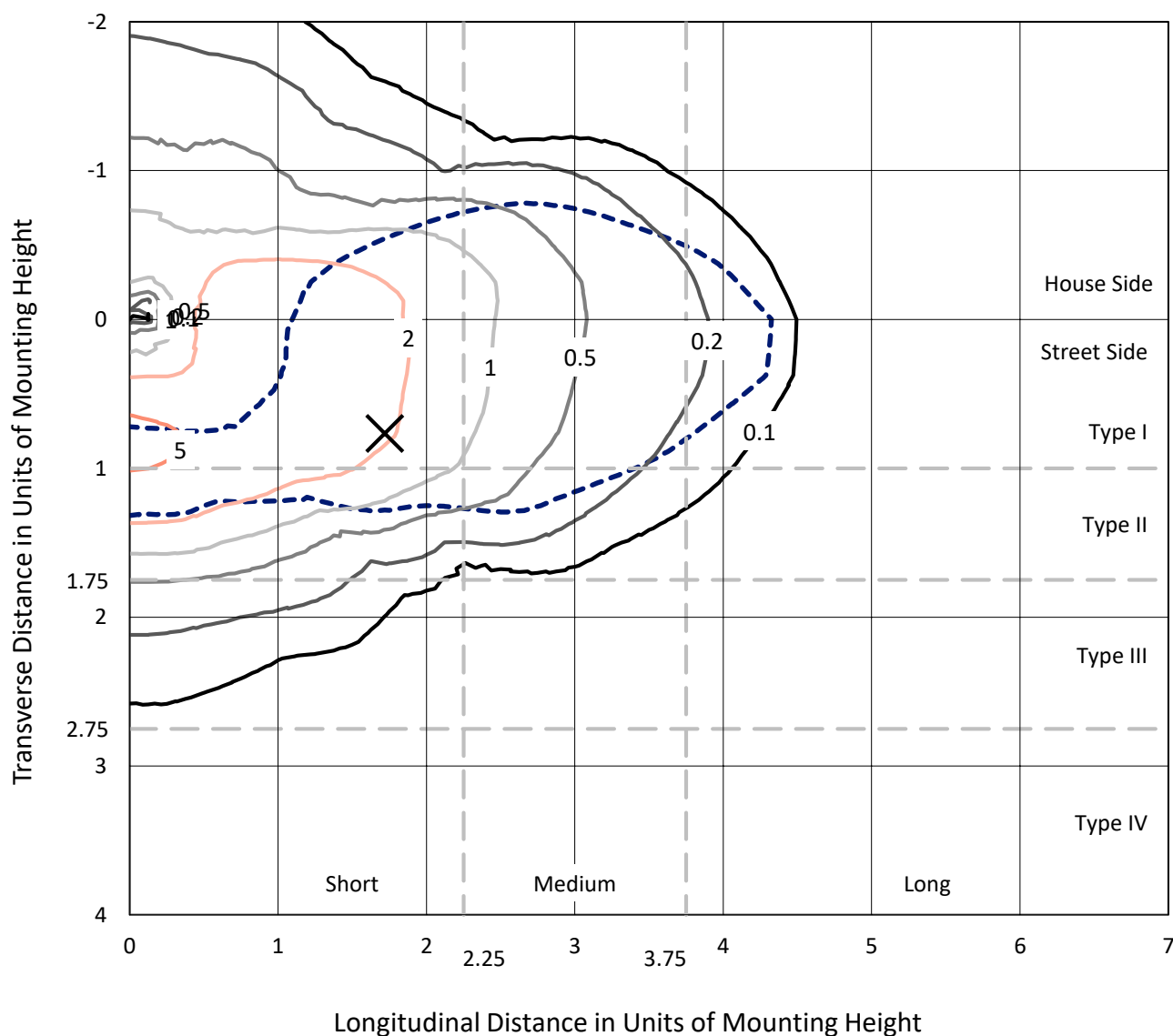
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

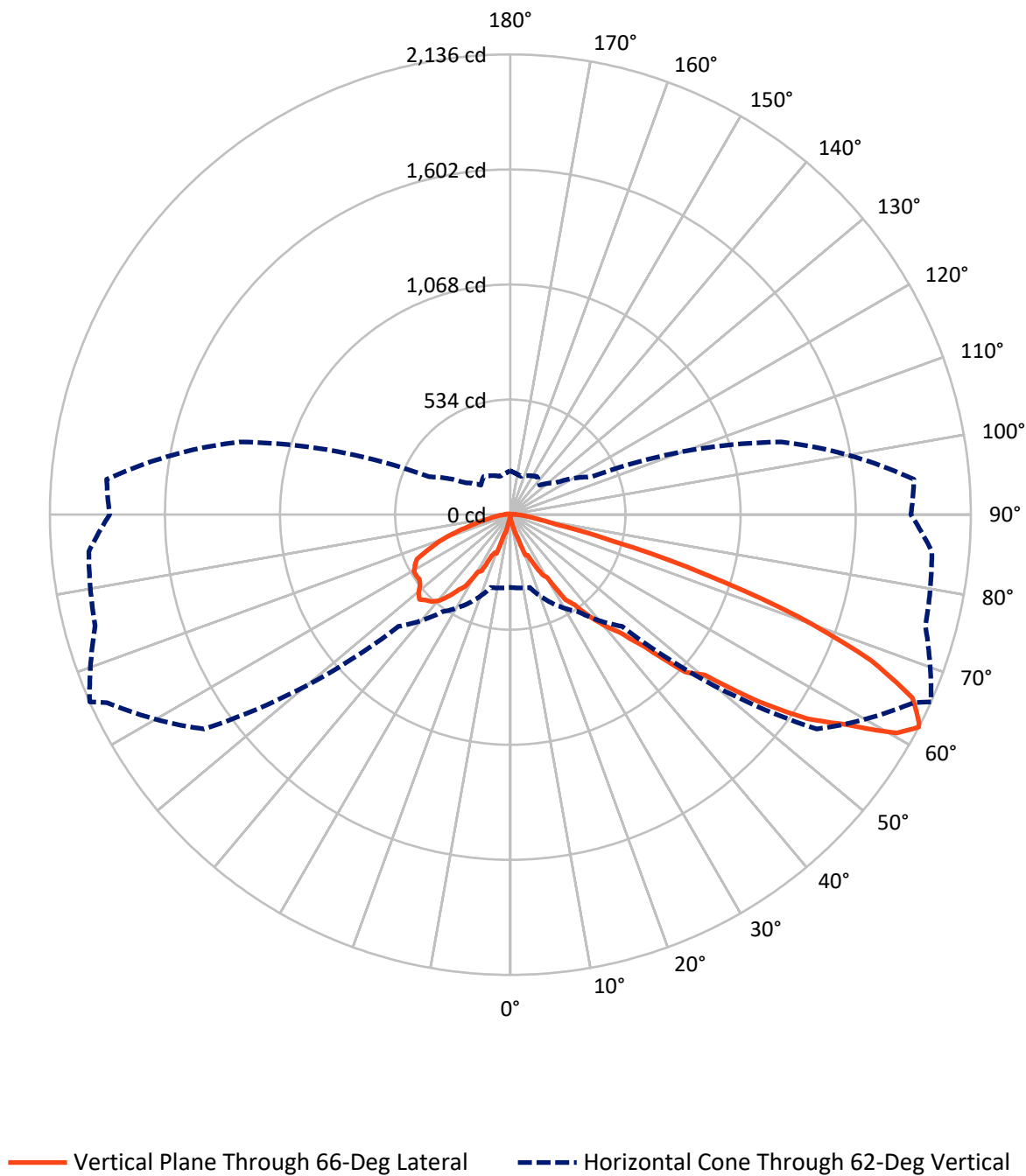


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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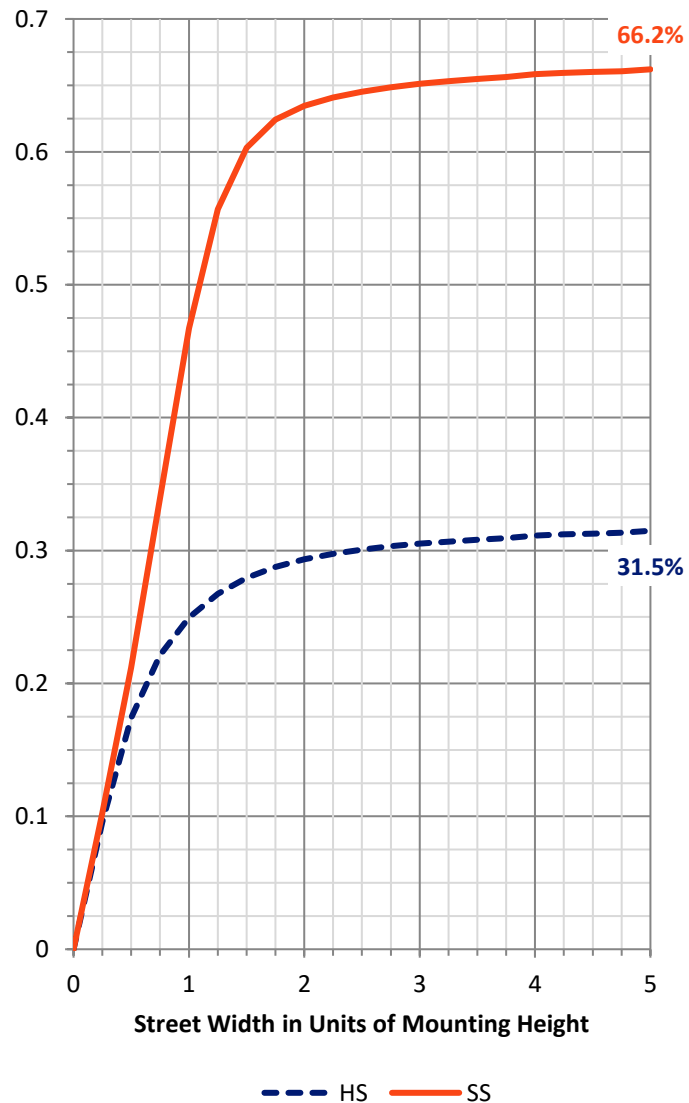
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.3	23.4	1003.7
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	2035.2	17.2	2052.4
	% Fixture	66.6	0.6	67.2
Total	Lumens	3015.4	40.6	3056.0
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.1
10°-20°	31.0	1.0
20°-30°	122.8	4.0
30°-40°	306.1	10.0
40°-50°	583.7	19.1
50°-60°	796.1	26.0
60°-70°	731.3	23.9
70°-80°	373.0	12.2
80°-90°	68.6	2.2
90°-100°	18.1	0.6
100°-110°	8.7	0.3
110°-120°	5.3	0.2
120°-130°	4.1	0.1
130°-140°	2.7	0.1
140°-150°	1.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3015.4	98.7
0°-180°	3056.0	100.0

Coefficient of Utilization



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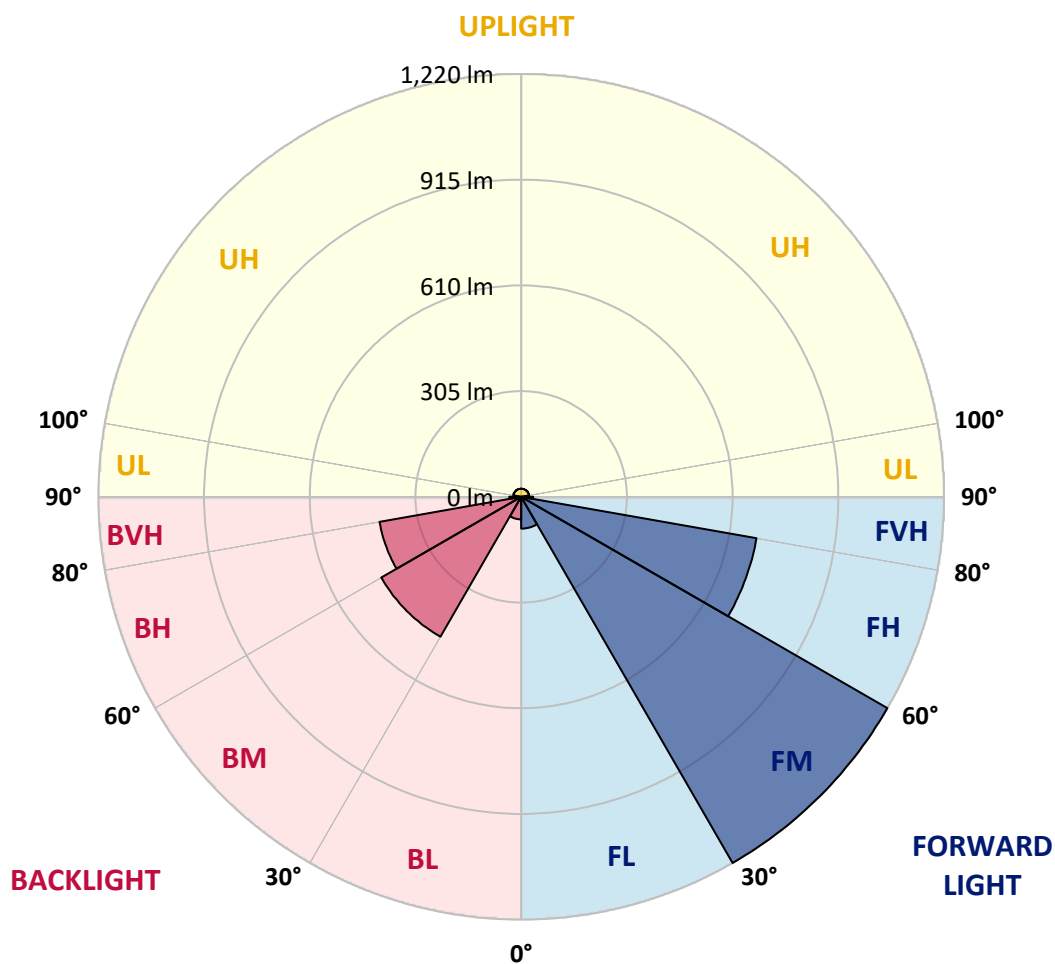
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.6	3.0			
FM	(30°-60°)	1219.8	39.9			
FH	(60°-80°)	689.3	22.6			G1/1800
FVH	(80°-90°)	34.4	1.1			G1/100
BL	(0°-30°)	65.0	2.1	B0/110		
BM	(30°-60°)	466.1	15.3	B1/1000		
BH	(60°-80°)	415.0	13.6	B1/500		G1/500
BVH	(80°-90°)	34.2	1.1			G1/100
UL	(90°-100°)	18.1	0.6		U2/50	
UH	(100°-180°)	23.4	0.8		U2/50	

BUG Rating: B1-U2-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	38.0	36.2	27.1	23.7	20.0	16.2	12.4	10.5	10.2	9.4	8.6
5°	38.0	38.0	39.2	41.4	45.9	41.7	44.0	15.9	15.1	10.2	8.3
7.5°	72.6	70.7	88.8	62.9	39.6	36.8	56.0	34.2	34.2	15.9	9.4
10°	98.3	97.8	120.0	76.8	70.7	85.8	38.0	39.2	39.2	27.1	13.2
12.5°	96.3	95.6	97.0	105.8	88.8	75.3	76.4	50.0	62.5	98.6	101.2
15°	135.5	142.6	135.1	103.5	94.8	94.4	122.0	92.6	94.1	108.3	79.4
17.5°	180.6	181.4	197.5	167.8	132.1	139.7	129.0	129.5	114.4	120.0	134.3
20°	196.7	193.4	202.4	187.7	187.7	167.0	131.6	186.7	200.5	188.5	186.3
22.5°	337.8	336.4	294.2	205.9	212.9	195.2	199.4	217.4	204.4	191.9	188.5
25°	385.2	380.4	365.7	351.0	261.1	273.9	241.6	236.3	251.0	302.8	327.7
27.5°	512.4	518.1	442.5	395.1	352.2	294.6	276.2	339.4	314.8	331.5	327.7
30°	644.8	641.9	615.1	528.3	442.5	365.7	366.4	356.3	339.8	390.5	443.6
32.5°	836.1	845.7	723.6	632.5	553.1	445.1	403.3	473.7	470.7	456.0	476.0
35°	1042.3	1040.7	940.6	790.5	598.2	503.4	482.0	523.8	513.6	491.0	527.8
37.5°	1173.1	1158.4	1090.4	961.3	731.4	573.8	581.3	611.8	601.6	571.9	640.0
40°	1362.8	1346.6	1265.3	1090.0	912.0	695.3	737.8	713.0	679.9	674.5	683.3
42.5°	1432.4	1433.2	1353.7	1226.2	1068.9	869.1	891.3	782.2	748.8	804.8	786.0
45°	1454.2	1451.2	1395.9	1300.3	1170.9	1076.9	1006.1	908.3	874.4	925.5	945.8
47.5°	1406.3	1394.3	1403.4	1296.6	1278.5	1167.6	1152.8	1083.7	1091.2	1062.1	1110.0
50°	1278.2	1260.5	1284.2	1256.3	1333.4	1265.7	1436.5	1174.3	1170.1	1222.4	1281.8
52.5°	1079.1	1066.0	1142.7	1119.7	1321.4	1373.0	1492.9	1435.3	1439.2	1444.1	1411.7
55°	884.2	891.0	949.7	936.2	1147.2	1396.3	1681.5	1649.5	1671.3	1550.2	1550.5
57.5°	631.3	646.4	752.1	760.0	956.0	1228.1	1832.8	1781.6	1837.6	1724.3	1749.6
60°	435.0	443.9	501.2	580.9	717.5	1019.6	1752.2	2007.3	2058.1	1901.5	1900.4
62°	337.5	341.2	349.9	451.9	550.7	732.9	1734.5	2064.1	2135.9	1993.3	1962.6
62.5°	313.0	317.2	322.9	410.2	507.9	666.4	1668.3	2076.5	2127.8	2005.0	1973.0
65°	250.5	252.5	239.8	272.8	358.9	398.0	1198.7	2018.2	2050.9	1990.7	1942.5
67.5°	232.1	225.4	207.7	198.7	268.7	256.6	652.4	1720.2	1804.9	1905.4	1855.3
70°	192.3	207.3	193.1	177.5	214.4	197.1	277.0	1392.1	1415.8	1744.4	1737.5
72.5°	147.1	158.0	169.4	167.3	165.2	158.8	184.0	869.9	939.5	1431.7	1608.9
75°	119.3	123.8	147.5	142.6	146.7	125.6	144.9	413.5	500.4	1013.3	1399.3
77.5°	95.9	99.0	114.7	110.6	121.5	98.3	115.5	187.4	212.2	582.5	958.3
80°	63.6	65.1	83.5	82.8	88.8	86.9	87.3	131.3	132.9	272.4	501.5
82.5°	47.4	46.7	57.6	57.9	57.6	62.9	59.9	89.9	93.6	133.6	166.7
85°	30.8	29.7	34.2	36.5	35.0	34.6	45.2	63.3	65.9	95.2	99.3
87.5°	16.9	18.0	22.6	22.6	23.7	23.4	36.8	42.2	44.0	63.6	53.4
90°	11.3	11.3	12.4	12.0	12.8	12.4	19.2	24.8	25.2	32.0	28.6
92.5°	10.2	10.9	12.4	12.4	13.5	11.7	17.3	21.1	21.5	26.0	21.9
95°	9.1	9.4	10.5	10.9	11.7	8.3	13.2	17.3	17.7	21.5	17.7
97.5°	7.5	8.3	9.1	9.4	10.5	7.5	10.9	13.8	14.3	16.6	13.5
100°	7.5	7.8	7.8	7.8	9.1	6.4	9.4	12.0	12.4	13.5	11.3
102.5°	7.1	7.5	7.1	6.8	7.5	5.7	8.3	10.2	10.2	9.9	9.4
105°	7.1	7.1	6.0	5.3	6.4	5.3	7.1	7.5	7.5	7.5	8.6
107.5°	6.8	6.8	5.7	4.9	5.3	4.5	6.0	6.4	6.4	6.8	8.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	6.4	6.0	4.9	4.2	4.2	4.2	4.9	5.3	5.3	6.0	8.6
112.5°	5.7	5.7	4.2	3.8	3.8	3.8	4.5	4.9	4.9	5.7	8.3
115°	5.3	5.3	4.2	3.4	3.4	3.4	4.2	4.5	4.5	5.3	8.3
117.5°	5.7	5.3	3.8	3.4	3.1	3.1	3.4	4.2	4.2	5.3	8.3
120°	4.9	4.9	3.8	3.1	2.6	3.1	3.4	3.8	4.2	5.7	8.3
122.5°	5.3	4.9	3.8	2.6	2.6	2.6	3.1	3.8	3.8	5.3	7.5
125°	4.9	4.5	3.4	2.6	2.3	2.6	3.1	3.4	3.8	5.3	7.5
127.5°	4.9	4.5	3.4	2.6	2.3	2.3	3.1	3.4	3.4	4.9	7.1
130°	4.5	4.5	3.1	2.3	2.3	2.3	2.6	3.1	3.1	4.5	6.4
132.5°	4.2	3.8	3.1	2.3	1.8	2.3	2.6	2.6	2.6	4.2	6.0
135°	3.8	3.8	3.1	2.3	1.8	1.8	2.3	2.6	2.6	3.8	5.3
137.5°	3.4	3.4	3.1	2.3	1.8	1.8	1.8	2.3	2.3	3.4	4.5
140°	3.4	3.4	3.1	2.3	1.8	1.8	1.8	1.8	1.8	2.6	3.8
142.5°	3.4	3.4	3.1	2.3	1.8	1.5	1.5	1.5	1.5	2.3	3.1
145°	3.1	3.1	2.6	2.3	1.5	1.1	1.1	1.5	1.5	1.8	2.3
147.5°	3.1	3.1	2.6	1.8	1.1	0.8	0.8	1.1	1.1	1.5	1.8
150°	2.3	2.3	2.3	1.5	0.8	0.0	0.8	0.8	0.8	1.5	1.5
152.5°	1.5	1.5	1.1	0.8	0.3	0.3	0.3	0.8	0.8	0.8	1.1
155°	0.8	0.8	0.8	0.3	0.3	0.0	0.0	0.3	0.3	0.8	0.8
157.5°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3
162.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3
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°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	8.6	8.3	8.3	8.3	8.6	8.6	8.6	8.3	7.8	7.8	7.8
5°	7.8	7.5	7.5	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8
7.5°	8.6	7.8	7.8	7.5	7.5	7.8	8.6	12.8	22.2	31.2	36.5
10°	12.0	12.0	10.5	9.9	9.9	14.3	53.1	57.6	57.6	54.5	52.7
12.5°	109.2	86.2	76.1	26.7	21.9	44.4	50.8	47.7	66.2	77.1	81.6
15°	79.0	86.6	93.3	83.9	113.3	47.4	76.8	93.3	125.6	127.2	128.3
17.5°	132.9	143.3	103.5	90.2	105.8	140.3	114.7	118.9	118.9	118.9	119.3
20°	187.0	190.3	198.7	190.0	106.1	147.8	147.1	119.6	134.7	167.8	177.2
22.5°	198.7	205.4	195.7	189.7	224.2	138.1	152.0	190.3	192.7	183.5	188.2
25°	337.1	327.3	287.5	202.4	223.9	193.1	196.4	178.3	183.2	178.0	181.4
27.5°	334.5	329.2	297.1	291.9	235.1	228.4	182.5	205.9	218.6	226.9	225.4
30°	467.3	436.5	344.2	301.3	277.6	218.6	200.5	194.9	193.4	203.2	203.9
32.5°	469.6	465.0	396.6	389.8	285.6	221.2	189.2	178.0	203.2	216.8	214.4
35°	544.7	521.5	453.4	420.6	328.1	208.0	169.0	178.0	182.1	191.9	191.5
37.5°	612.2	605.0	549.3	464.7	316.1	189.7	190.7	189.7	184.7	186.3	186.3
40°	701.7	662.2	612.5	505.7	295.8	203.2	205.9	179.0	174.2	171.5	171.5
42.5°	808.2	741.3	695.3	525.6	281.1	239.3	194.9	175.0	170.1	162.6	161.3
45°	933.8	850.7	781.9	532.0	235.9	247.9	202.4	199.1	182.9	176.1	173.5
47.5°	1044.1	977.1	881.5	542.6	273.5	236.6	266.4	226.1	176.5	186.3	184.7
50°	1209.6	1123.5	951.5	515.8	292.4	229.9	277.0	197.9	181.7	194.9	194.2
52.5°	1356.0	1274.0	1024.9	475.6	276.5	318.0	245.8	226.9	210.7	203.9	203.2
55°	1509.1	1427.2	1074.6	455.3	273.1	254.3	255.4	245.8	190.3	205.1	204.7
57.5°	1685.3	1640.1	1182.5	446.7	279.9	224.6	255.4	205.4	217.1	205.1	207.3
60°	1779.3	1779.3	1245.3	437.9	258.5	230.6	219.4	225.7	188.5	190.7	196.7
62°	1858.3	1879.4	1302.9	414.9	257.8	193.4	215.6	199.4	184.3	195.7	203.2
62.5°	1885.0	1901.2	1320.3	410.5	264.1	183.2	199.8	199.1	191.1	192.7	199.4
65°	1911.0	1985.8	1361.7	381.9	243.1	173.0	170.8	188.9	165.5	158.4	158.8
67.5°	1886.2	1989.2	1347.7	307.3	197.1	148.6	150.9	157.7	149.3	146.7	148.3
70°	1795.4	1837.2	1205.9	253.6	170.1	136.2	144.9	139.2	136.9	136.6	136.2
72.5°	1671.3	1591.9	947.1	190.7	146.4	118.1	124.1	128.3	129.0	127.2	124.9
75°	1409.8	1250.3	617.8	143.0	117.0	100.1	113.3	116.7	119.6	114.4	112.5
77.5°	967.7	788.2	319.8	113.6	101.2	83.9	99.3	104.6	107.6	99.8	100.8
80°	449.3	359.7	147.8	93.0	83.9	69.6	84.2	91.0	95.2	84.6	80.9
82.5°	151.7	138.4	89.1	71.9	68.9	53.1	68.1	76.1	77.1	70.4	59.9
85°	90.2	90.6	62.5	55.2	50.8	33.1	48.9	59.9	59.9	49.7	40.7
87.5°	51.9	58.4	47.7	42.2	38.0	22.6	36.5	41.0	40.2	31.5	22.6
90°	26.0	30.5	28.2	27.9	28.6	14.3	28.6	30.8	30.8	21.9	13.8
92.5°	19.2	23.4	25.2	23.7	24.0	10.9	23.0	23.4	23.0	16.9	10.9
95°	16.2	20.3	25.2	23.7	23.0	9.1	21.1	21.5	21.9	16.6	12.0
97.5°	12.8	15.4	19.5	19.2	20.6	7.5	19.2	19.2	18.5	13.5	10.2
100°	11.7	13.5	16.6	16.6	18.0	6.8	16.9	15.4	14.6	10.9	9.4
102.5°	9.9	10.9	12.8	12.4	13.5	6.4	12.4	12.0	11.3	9.4	9.1
105°	9.4	9.9	9.9	9.1	9.4	6.0	8.6	8.3	7.8	7.8	8.3
107.5°	9.1	9.1	8.3	7.5	7.5	5.7	6.4	6.0	6.4	8.3	8.6



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CATALOG NUMBER: UTLD-AF24-30-D-U-T2U-CL-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.1	9.1	7.5	6.8	6.0	5.3	5.7	4.9	5.7	8.3	9.1
112.5°	9.1	9.1	6.8	5.7	5.7	4.9	4.9	4.5	5.3	8.3	9.1
115°	8.6	8.6	6.4	5.3	4.9	4.5	4.5	4.2	5.3	8.3	9.1
117.5°	8.6	8.6	6.4	5.3	4.5	4.2	4.2	3.8	5.3	8.6	9.1
120°	8.6	8.6	6.4	4.9	4.5	4.2	3.8	3.8	5.3	8.3	9.1
122.5°	8.3	7.8	6.0	4.5	4.2	3.8	3.8	3.8	5.3	8.6	9.1
125°	7.8	7.5	6.0	4.5	3.8	3.8	3.4	3.4	5.3	8.3	8.6
127.5°	7.5	7.5	5.7	4.2	3.8	3.4	3.4	3.4	5.3	8.6	8.6
130°	7.1	6.8	5.3	3.8	3.4	3.1	3.1	3.4	5.7	7.8	8.3
132.5°	6.4	6.0	4.9	3.4	3.1	3.1	3.1	3.1	5.3	7.8	7.8
135°	5.3	5.3	4.2	3.1	2.6	2.6	2.6	3.1	4.9	6.8	7.1
137.5°	4.9	4.5	3.8	3.1	2.3	2.6	2.6	3.1	4.9	6.4	6.8
140°	4.2	3.8	3.1	2.3	2.3	2.3	2.3	2.6	4.2	5.7	6.0
142.5°	3.1	3.1	2.6	1.8	1.8	1.8	1.8	2.6	3.8	4.9	4.9
145°	2.6	2.6	2.3	1.8	1.5	1.1	1.1	1.8	3.1	4.2	4.2
147.5°	1.8	1.8	1.8	1.5	1.1	1.1	1.1	1.5	2.3	3.1	3.1
150°	1.5	1.5	1.5	1.1	1.1	0.8	0.8	1.1	1.8	2.3	2.3
152.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	1.1	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.3	0.8	0.8
157.5°	0.3	0.3	0.3	0.8	0.8	0.8	0.3	0.3	0.0	0.0	0.0
160°	0.3	0.3	0.3	0.8	0.8	0.8	0.3	0.3	0.0	0.0	0.0
162.5°	0.3	0.3	0.3	0.3	0.8	0.8	0.3	0.3	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)