

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: P241127

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

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P241127
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 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: 3231.5 lumens
Efficiency: N/A
Efficacy: 104.2 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

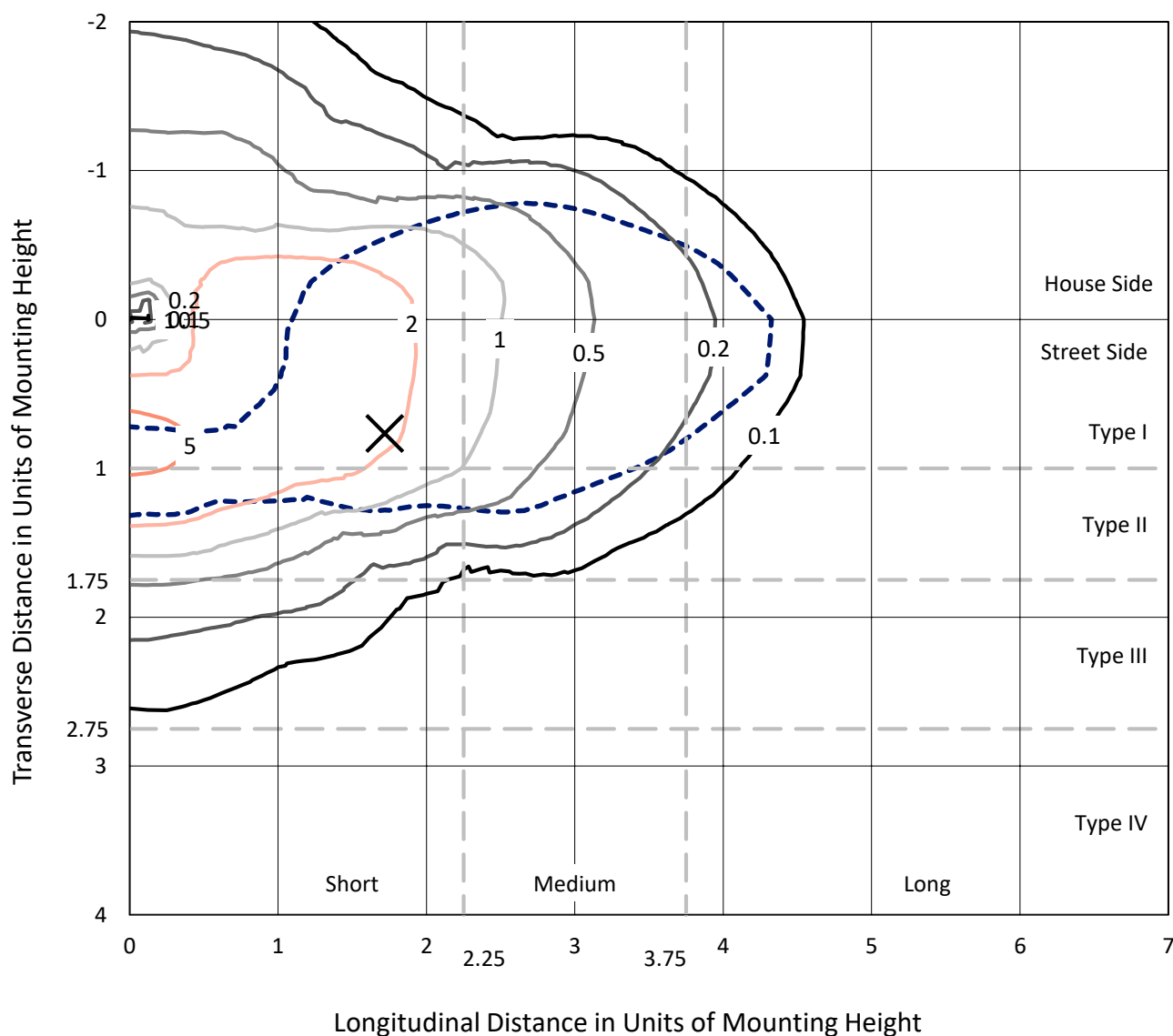


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

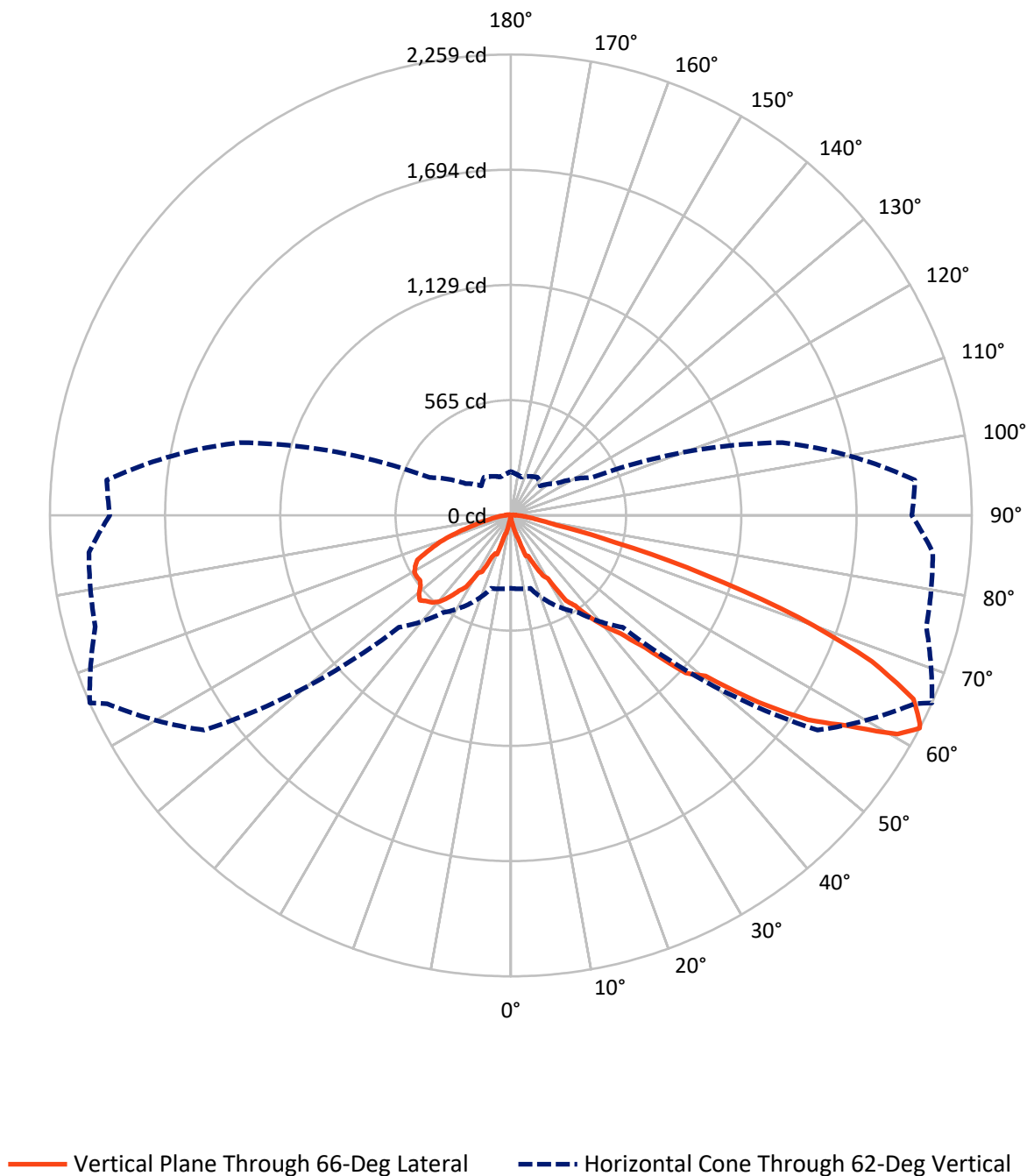


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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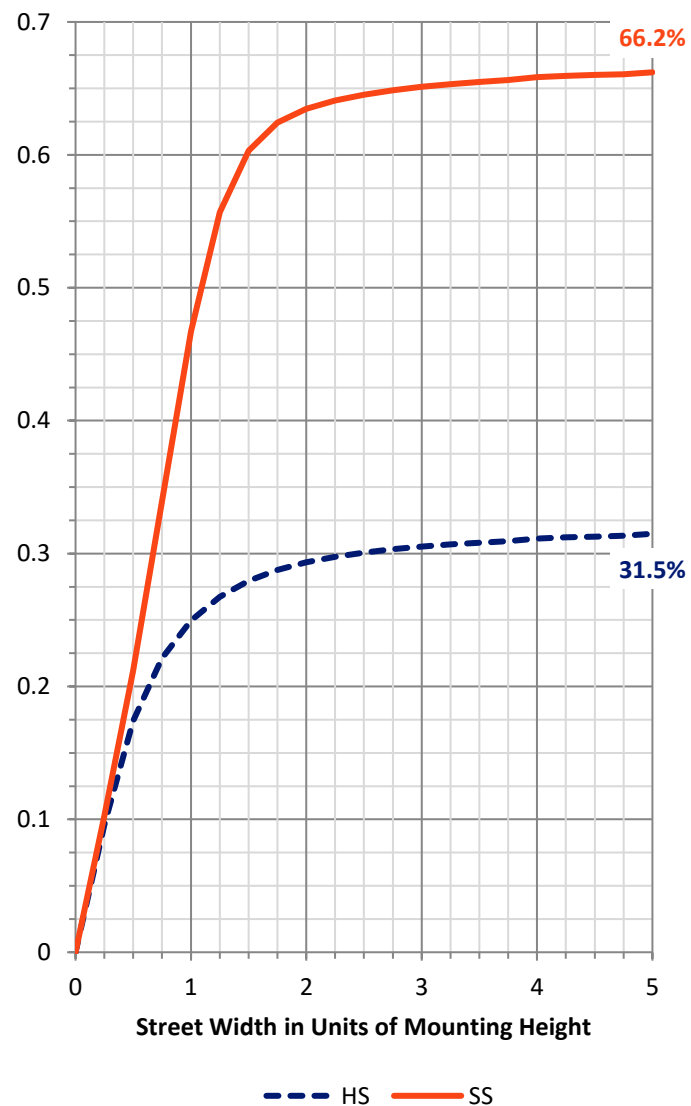
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.6	24.7	1061.3
	% Fixture	32.1	0.8	32.8
Street Side	Lumens	2152.1	18.2	2170.2
	% Fixture	66.6	0.6	67.2
Total	Lumens	3188.6	42.9	3231.5
	% Fixture	98.7	1.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	32.8	1.0
20°-30°	129.9	4.0
30°-40°	323.7	10.0
40°-50°	617.2	19.1
50°-60°	841.8	26.0
60°-70°	773.3	23.9
70°-80°	394.5	12.2
80°-90°	72.6	2.2
90°-100°	19.2	0.6
100°-110°	9.2	0.3
110°-120°	5.6	0.2
120°-130°	4.3	0.1
130°-140°	2.9	0.1
140°-150°	1.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3188.6	98.7
0°-180°	3231.5	100.0

Coefficient of Utilization



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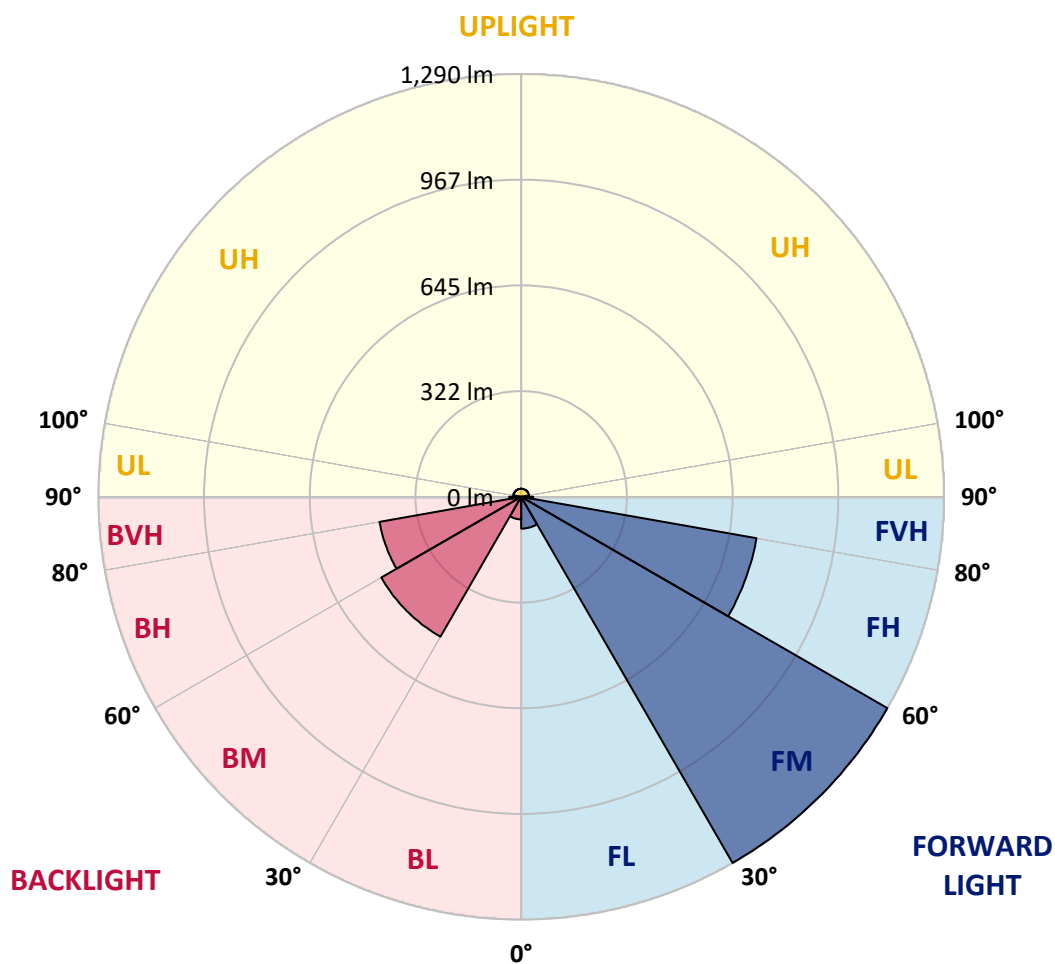
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.8	3.0			
FM	(30°-60°)	1289.9	39.9			
FH	(60°-80°)	728.9	22.6			G1/1800
FVH	(80°-90°)	36.4	1.1			G1/100
BL	(0°-30°)	68.7	2.1	B0/110		
BM	(30°-60°)	492.9	15.3	B1/1000		
BH	(60°-80°)	438.8	13.6	B1/500		G1/500
BVH	(80°-90°)	36.2	1.1			G1/100
UL	(90°-100°)	19.2	0.6		U2/50	
UH	(100°-180°)	24.7	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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	40.2	38.2	28.6	25.1	21.1	17.1	13.1	11.2	10.7	9.9	9.1
5°	40.2	40.2	41.3	43.8	48.5	44.2	46.5	16.7	16.0	10.7	8.8
7.5°	76.8	74.8	93.9	66.5	41.7	39.0	59.3	36.2	36.2	16.7	9.9
10°	103.8	103.4	126.9	81.1	74.8	90.7	40.2	41.3	41.3	28.6	13.9
12.5°	101.9	101.1	102.6	111.8	93.9	79.6	80.8	52.9	66.1	104.2	107.0
15°	143.2	150.8	142.8	109.5	100.2	99.8	128.9	97.9	99.4	114.6	84.0
17.5°	191.0	191.8	208.9	177.5	139.6	147.6	136.5	136.9	120.9	126.9	142.0
20°	208.1	204.5	214.0	198.6	198.6	176.7	139.2	197.3	212.1	199.4	196.9
22.5°	357.3	355.7	311.1	217.6	225.2	206.5	210.8	230.0	216.0	203.0	199.4
25°	407.4	402.2	386.7	371.2	276.1	289.6	255.4	249.8	265.4	320.3	346.6
27.5°	541.9	547.9	467.9	417.8	372.4	311.5	292.1	358.9	333.0	350.5	346.6
30°	681.9	678.7	650.5	558.6	467.9	386.7	387.5	376.8	359.3	413.0	469.1
32.5°	884.0	894.4	765.1	668.8	584.8	470.7	426.5	500.9	497.8	482.2	503.3
35°	1102.0	1100.5	994.6	835.9	632.6	532.3	509.6	553.8	543.1	519.2	558.2
37.5°	1240.5	1225.0	1153.0	1016.5	773.5	606.7	614.7	646.9	636.2	604.8	676.8
40°	1441.0	1423.9	1338.0	1152.6	964.4	735.2	780.2	753.9	718.9	713.4	722.5
42.5°	1514.7	1515.4	1431.5	1296.6	1130.4	919.0	942.5	827.2	791.8	851.0	831.1
45°	1537.7	1534.5	1476.0	1374.9	1238.2	1138.6	1063.9	960.4	924.6	978.8	1000.2
47.5°	1487.2	1474.5	1484.0	1371.1	1351.9	1234.6	1219.1	1145.8	1153.8	1123.2	1173.6
50°	1351.5	1332.8	1357.9	1328.4	1410.0	1338.4	1519.0	1241.8	1237.4	1292.6	1355.5
52.5°	1141.1	1127.1	1208.3	1184.1	1397.2	1451.8	1578.7	1517.9	1521.8	1527.0	1492.8
55°	935.0	942.1	1004.2	989.9	1213.1	1476.4	1778.0	1744.2	1767.2	1639.2	1639.6
57.5°	667.6	683.5	795.3	803.6	1011.0	1298.6	1938.0	1883.9	1943.1	1823.4	1850.0
60°	459.9	469.4	530.0	614.3	758.7	1078.2	1852.9	2122.6	2176.3	2010.8	2009.6
62°	356.9	360.9	370.0	477.8	582.5	775.0	1834.2	2182.7	2258.7	2107.9	2075.3
62.5°	331.0	335.4	341.4	433.6	537.2	704.6	1764.1	2195.8	2249.9	2120.2	2086.4
65°	264.9	267.0	253.4	288.5	379.5	420.9	1267.5	2134.1	2168.8	2105.0	2054.2
67.5°	245.5	238.3	219.6	210.1	284.1	271.4	689.9	1819.0	1908.5	2014.8	1961.8
70°	203.3	219.2	204.1	187.8	226.8	208.5	292.9	1472.0	1497.2	1844.5	1837.3
72.5°	155.6	167.2	179.0	177.1	174.6	167.9	194.6	919.8	993.5	1513.9	1701.3
75°	126.1	130.9	156.0	150.8	155.2	132.9	153.1	437.2	529.2	1071.4	1479.6
77.5°	101.5	104.6	121.3	116.9	128.5	103.8	122.1	198.1	224.4	615.9	1013.3
80°	67.2	68.8	88.3	87.6	93.9	91.9	92.3	138.8	140.5	288.1	530.3
82.5°	50.1	49.3	60.9	61.3	60.9	66.5	63.2	95.1	99.0	141.3	176.3
85°	32.6	31.4	36.2	38.6	37.0	36.6	47.8	66.8	69.7	100.7	105.1
87.5°	17.9	19.1	23.8	23.8	25.1	24.7	39.0	44.6	46.5	67.2	56.5
90°	12.0	12.0	13.1	12.7	13.5	13.1	20.3	26.3	26.7	33.9	30.3
92.5°	10.7	11.6	13.1	13.1	14.3	12.4	18.3	22.3	22.7	27.4	23.1
95°	9.5	9.9	11.2	11.6	12.4	8.8	13.9	18.3	18.7	22.7	18.7
97.5°	8.0	8.8	9.5	9.9	11.2	8.0	11.6	14.7	15.1	17.5	14.3
100°	8.0	8.4	8.4	8.4	9.5	6.8	9.9	12.7	13.1	14.3	12.0
102.5°	7.6	8.0	7.6	7.2	8.0	5.9	8.8	10.7	10.7	10.3	9.9
105°	7.6	7.6	6.3	5.5	6.8	5.5	7.6	8.0	8.0	8.0	9.1
107.5°	7.2	7.2	5.9	5.2	5.5	4.8	6.3	6.8	6.8	7.2	8.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
110°	6.8	6.3	5.2	4.4	4.4	4.4	5.2	5.5	5.5	6.3	9.1
112.5°	5.9	5.9	4.4	4.0	4.0	4.0	4.8	5.2	5.2	5.9	8.8
115°	5.5	5.5	4.4	3.6	3.6	3.6	4.4	4.8	4.8	5.5	8.8
117.5°	5.9	5.5	4.0	3.6	3.2	3.2	3.6	4.4	4.4	5.5	8.8
120°	5.2	5.2	4.0	3.2	2.8	3.2	3.6	4.0	4.4	5.9	8.8
122.5°	5.5	5.2	4.0	2.8	2.8	2.8	3.2	4.0	4.0	5.5	8.0
125°	5.2	4.8	3.6	2.8	2.4	2.8	3.2	3.6	4.0	5.5	8.0
127.5°	5.2	4.8	3.6	2.8	2.4	2.4	3.2	3.6	3.6	5.2	7.6
130°	4.8	4.8	3.2	2.4	2.4	2.4	2.8	3.2	3.2	4.8	6.8
132.5°	4.4	4.0	3.2	2.4	1.9	2.4	2.8	2.8	2.8	4.4	6.3
135°	4.0	4.0	3.2	2.4	1.9	1.9	2.4	2.8	2.8	4.0	5.5
137.5°	3.6	3.6	3.2	2.4	1.9	1.9	1.9	2.4	2.4	3.6	4.8
140°	3.6	3.6	3.2	2.4	1.9	1.9	1.9	1.9	1.9	2.8	4.0
142.5°	3.6	3.6	3.2	2.4	1.9	1.6	1.6	1.6	1.6	2.4	3.2
145°	3.2	3.2	2.8	2.4	1.6	1.2	1.2	1.6	1.6	1.9	2.4
147.5°	3.2	3.2	2.8	1.9	1.2	0.8	0.8	1.2	1.2	1.6	1.9
150°	2.4	2.4	2.4	1.6	0.8	0.0	0.8	0.8	0.8	1.6	1.6
152.5°	1.6	1.6	1.2	0.8	0.4	0.4	0.4	0.8	0.8	0.8	1.2
155°	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.4	0.4	0.8	0.8
157.5°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
160°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4
162.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4
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°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
2.5°	9.1	8.8	8.8	8.8	9.1	9.1	9.1	8.8	8.4	8.4	8.4
5°	8.4	8.0	8.0	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
7.5°	9.1	8.4	8.4	8.0	8.0	8.4	9.1	13.5	23.4	33.0	38.6
10°	12.7	12.7	11.2	10.3	10.3	15.1	56.1	60.9	60.9	57.7	55.8
12.5°	115.4	91.1	80.4	28.2	23.1	47.0	53.7	50.5	70.1	81.5	86.3
15°	83.6	91.6	98.7	88.7	119.8	50.1	81.1	98.7	132.9	134.5	135.6
17.5°	140.5	151.6	109.5	95.4	111.8	148.4	121.3	125.7	125.7	125.7	126.1
20°	197.7	201.3	210.1	200.9	112.2	156.4	155.6	126.5	142.4	177.5	187.4
22.5°	210.1	217.3	206.8	200.5	237.1	146.0	160.7	201.3	203.7	194.2	199.0
25°	356.5	346.2	303.9	214.0	236.7	204.1	207.7	188.6	193.7	188.2	191.8
27.5°	353.7	348.1	314.4	308.7	248.7	241.5	192.9	217.6	231.2	239.9	238.3
30°	494.2	461.6	364.1	318.6	293.6	231.2	212.1	206.1	204.5	214.8	215.6
32.5°	496.5	491.7	419.3	412.1	302.0	233.9	200.1	188.2	214.8	229.1	226.8
35°	576.1	551.5	479.5	444.8	346.9	220.0	178.6	188.2	192.5	203.0	202.5
37.5°	647.3	639.8	580.8	491.3	334.2	200.5	201.7	200.5	195.4	196.9	196.9
40°	742.0	700.2	647.7	534.7	312.7	214.8	217.6	189.3	184.2	181.5	181.5
42.5°	854.6	783.8	735.2	555.8	297.2	253.1	206.1	185.1	179.8	171.9	170.7
45°	987.5	899.6	826.7	562.5	249.5	262.2	214.0	210.4	193.3	186.2	183.4
47.5°	1104.1	1033.3	932.2	573.7	289.3	250.2	281.7	239.1	186.6	196.9	195.4
50°	1279.1	1188.1	1006.2	545.4	309.1	243.1	292.9	209.3	192.2	206.1	205.3
52.5°	1433.9	1347.1	1083.8	502.9	292.5	336.1	259.8	239.9	222.8	215.6	214.8
55°	1595.8	1509.1	1136.3	481.4	288.9	268.9	270.2	259.8	201.3	216.9	216.5
57.5°	1782.0	1734.3	1250.5	472.3	296.0	237.5	270.2	217.3	229.6	216.9	219.2
60°	1881.5	1881.5	1316.9	463.1	273.3	243.9	231.9	238.8	199.4	201.7	208.1
62°	1965.0	1987.3	1377.8	438.8	272.5	204.5	228.0	210.8	195.0	206.8	214.8
62.5°	1993.2	2010.4	1396.1	434.0	279.3	193.7	211.2	210.4	202.1	203.7	210.8
65°	2020.7	2099.9	1439.8	403.9	257.1	183.0	180.7	199.7	175.0	167.5	167.9
67.5°	1994.4	2103.5	1425.2	325.1	208.5	157.1	159.6	166.7	157.9	155.2	156.7
70°	1898.6	1942.8	1275.1	268.1	179.8	144.0	153.1	147.2	144.8	144.4	144.0
72.5°	1767.2	1683.4	1001.4	201.7	154.8	124.9	131.2	135.6	136.5	134.5	132.1
75°	1490.7	1322.1	653.3	151.2	123.8	105.9	119.8	123.4	126.5	120.9	119.0
77.5°	1023.3	833.5	338.2	120.2	107.0	88.7	105.1	110.6	113.8	105.5	106.6
80°	475.1	380.3	156.4	98.3	88.7	73.7	89.1	96.3	100.7	89.5	85.5
82.5°	160.3	146.4	94.3	76.0	72.8	56.1	72.0	80.4	81.5	74.4	63.2
85°	95.4	95.9	66.1	58.5	53.7	35.0	51.8	63.2	63.2	52.5	43.0
87.5°	54.9	61.7	50.5	44.6	40.2	23.8	38.6	43.4	42.6	33.5	23.8
90°	27.4	32.2	29.9	29.5	30.3	15.1	30.3	32.6	32.6	23.1	14.7
92.5°	20.3	24.7	26.7	25.1	25.5	11.6	24.2	24.7	24.2	17.9	11.6
95°	17.1	21.5	26.7	25.1	24.2	9.5	22.3	22.7	23.1	17.5	12.7
97.5°	13.5	16.3	20.7	20.3	21.9	8.0	20.3	20.3	19.5	14.3	10.7
100°	12.4	14.3	17.5	17.5	19.1	7.2	17.9	16.3	15.5	11.6	9.9
102.5°	10.3	11.6	13.5	13.1	14.3	6.8	13.1	12.7	12.0	9.9	9.5
105°	9.9	10.3	10.3	9.5	9.9	6.3	9.1	8.8	8.4	8.4	8.8
107.5°	9.5	9.5	8.8	8.0	8.0	5.9	6.8	6.3	6.8	8.8	9.1



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	9.5	9.5	8.0	7.2	6.3	5.5	5.9	5.2	5.9	8.8	9.5
112.5°	9.5	9.5	7.2	5.9	5.9	5.2	5.2	4.8	5.5	8.8	9.5
115°	9.1	9.1	6.8	5.5	5.2	4.8	4.8	4.4	5.5	8.8	9.5
117.5°	9.1	9.1	6.8	5.5	4.8	4.4	4.4	4.0	5.5	9.1	9.5
120°	9.1	9.1	6.8	5.2	4.8	4.4	4.0	4.0	5.5	8.8	9.5
122.5°	8.8	8.4	6.3	4.8	4.4	4.0	4.0	4.0	5.5	9.1	9.5
125°	8.4	8.0	6.3	4.8	4.0	4.0	3.6	3.6	5.5	8.8	9.1
127.5°	8.0	8.0	5.9	4.4	4.0	3.6	3.6	3.6	5.5	9.1	9.1
130°	7.6	7.2	5.5	4.0	3.6	3.2	3.2	3.6	5.9	8.4	8.8
132.5°	6.8	6.3	5.2	3.6	3.2	3.2	3.2	3.2	5.5	8.4	8.4
135°	5.5	5.5	4.4	3.2	2.8	2.8	2.8	3.2	5.2	7.2	7.6
137.5°	5.2	4.8	4.0	3.2	2.4	2.8	2.8	3.2	5.2	6.8	7.2
140°	4.4	4.0	3.2	2.4	2.4	2.4	2.4	2.8	4.4	5.9	6.3
142.5°	3.2	3.2	2.8	1.9	1.9	1.9	1.9	2.8	4.0	5.2	5.2
145°	2.8	2.8	2.4	1.9	1.6	1.2	1.2	1.9	3.2	4.4	4.4
147.5°	1.9	1.9	1.9	1.6	1.2	1.2	1.2	1.6	2.4	3.2	3.2
150°	1.6	1.6	1.6	1.2	1.2	0.8	0.8	1.2	1.9	2.4	2.4
152.5°	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	1.2	1.6	1.6
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	0.8
157.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.0
160°	0.4	0.4	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0	0.0
162.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.4	0.4	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)