

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: P266338

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-A-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-18)
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-T2U-A-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.2 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - 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

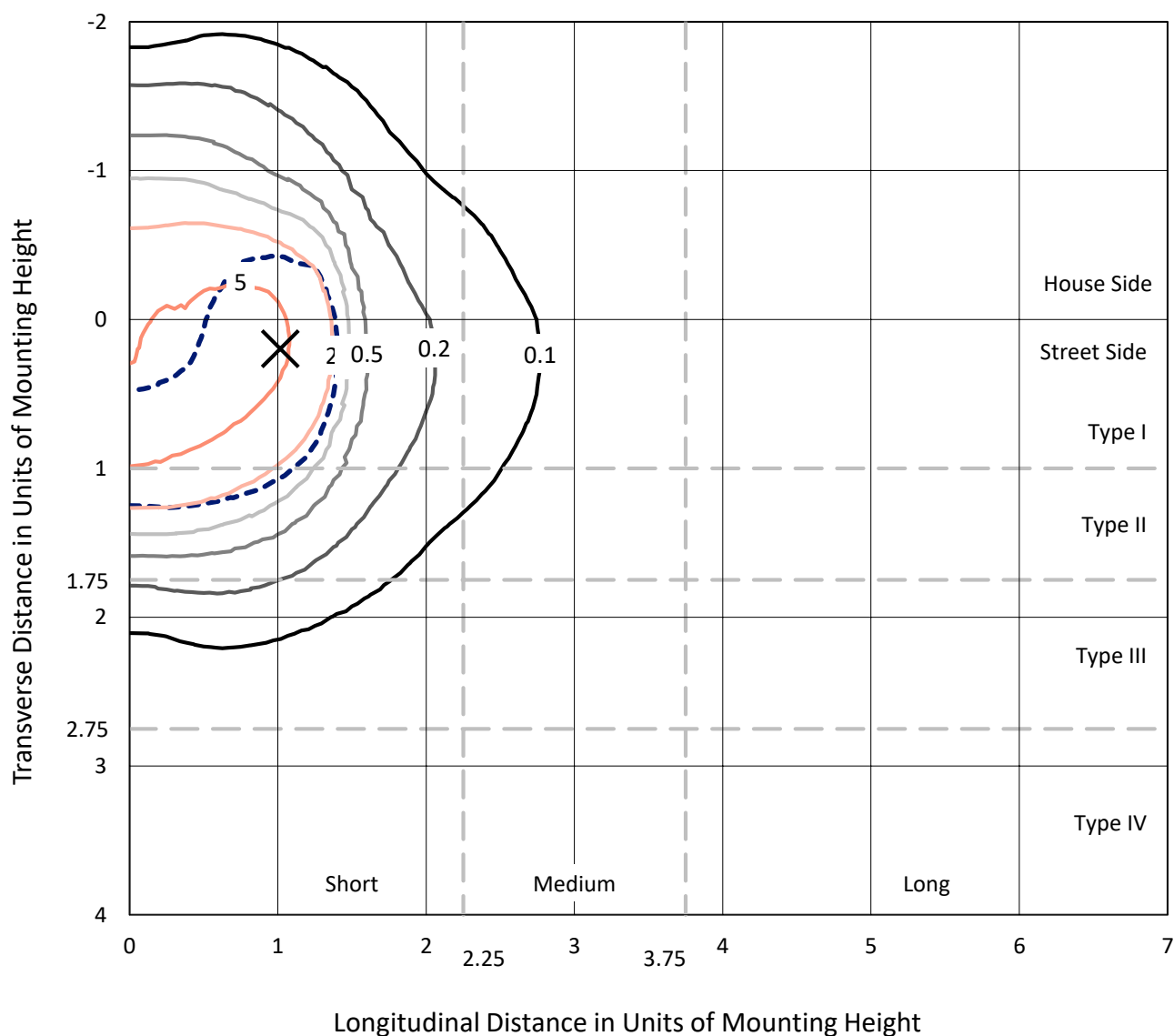


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

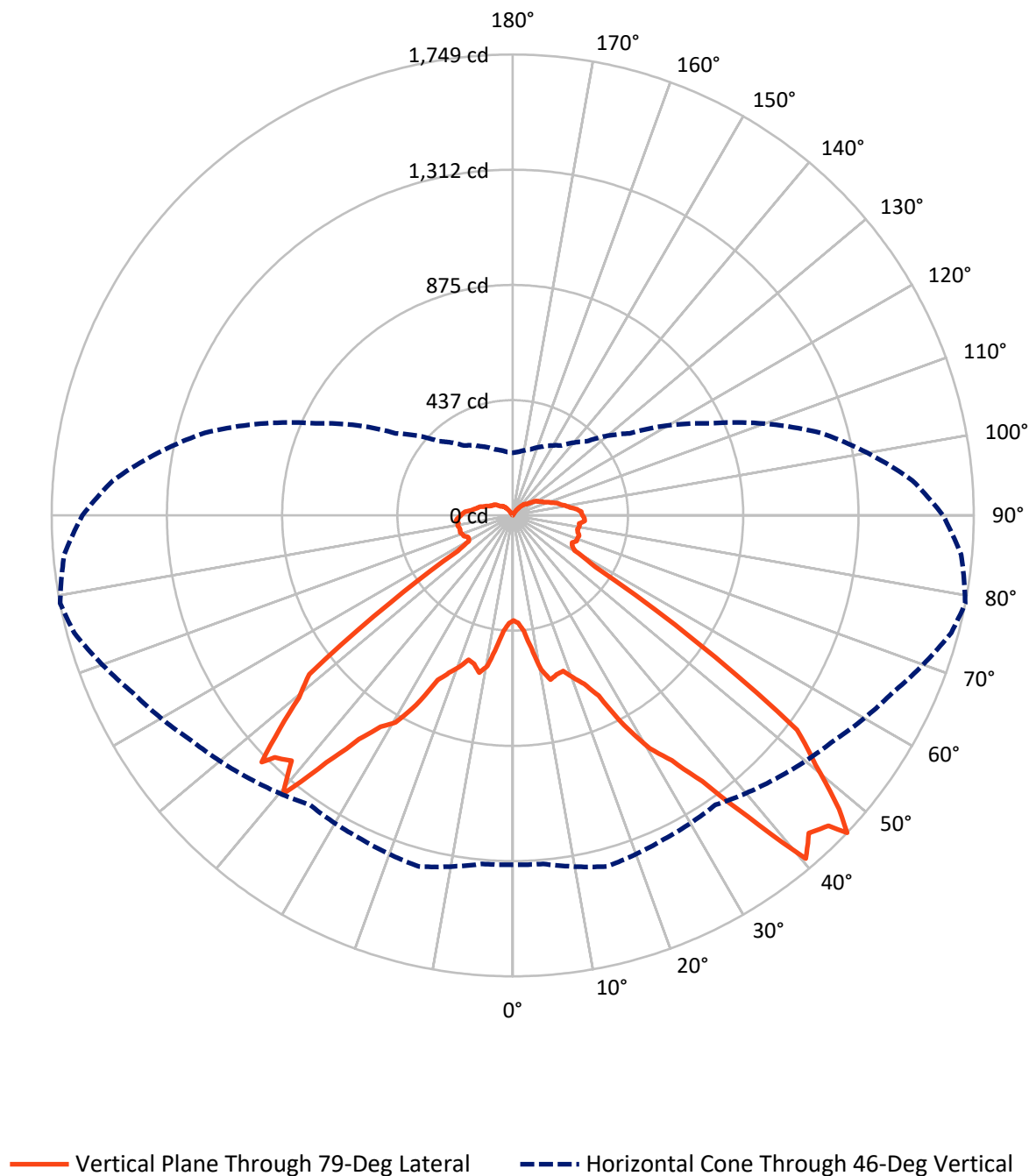


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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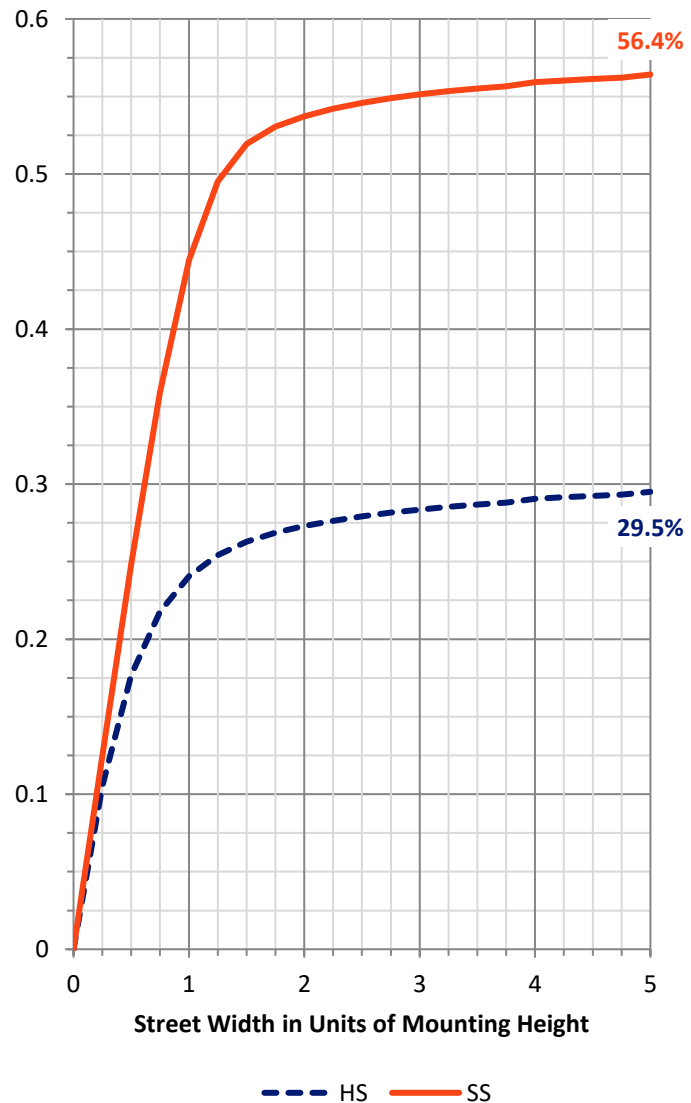
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.8	124.1	1121.8
	% Fixture	30.5	3.8	34.3
Street Side	Lumens	1882.2	269.2	2151.4
	% Fixture	57.5	8.2	65.7
Total	Lumens	2879.9	393.3	3273.2
	% Fixture	88.0	12.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.3
10°-20°	155.5	4.8
20°-30°	314.2	9.6
30°-40°	575.1	17.6
40°-50°	794.8	24.3
50°-60°	507.3	15.5
60°-70°	181.7	5.6
70°-80°	163.2	5.0
80°-90°	145.1	4.4
90°-100°	133.1	4.1
100°-110°	103.5	3.2
110°-120°	71.8	2.2
120°-130°	48.1	1.5
130°-140°	28.8	0.9
140°-150°	7.7	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2879.9	88.0
0°-180°	3273.2	100.0

Coefficient of Utilization



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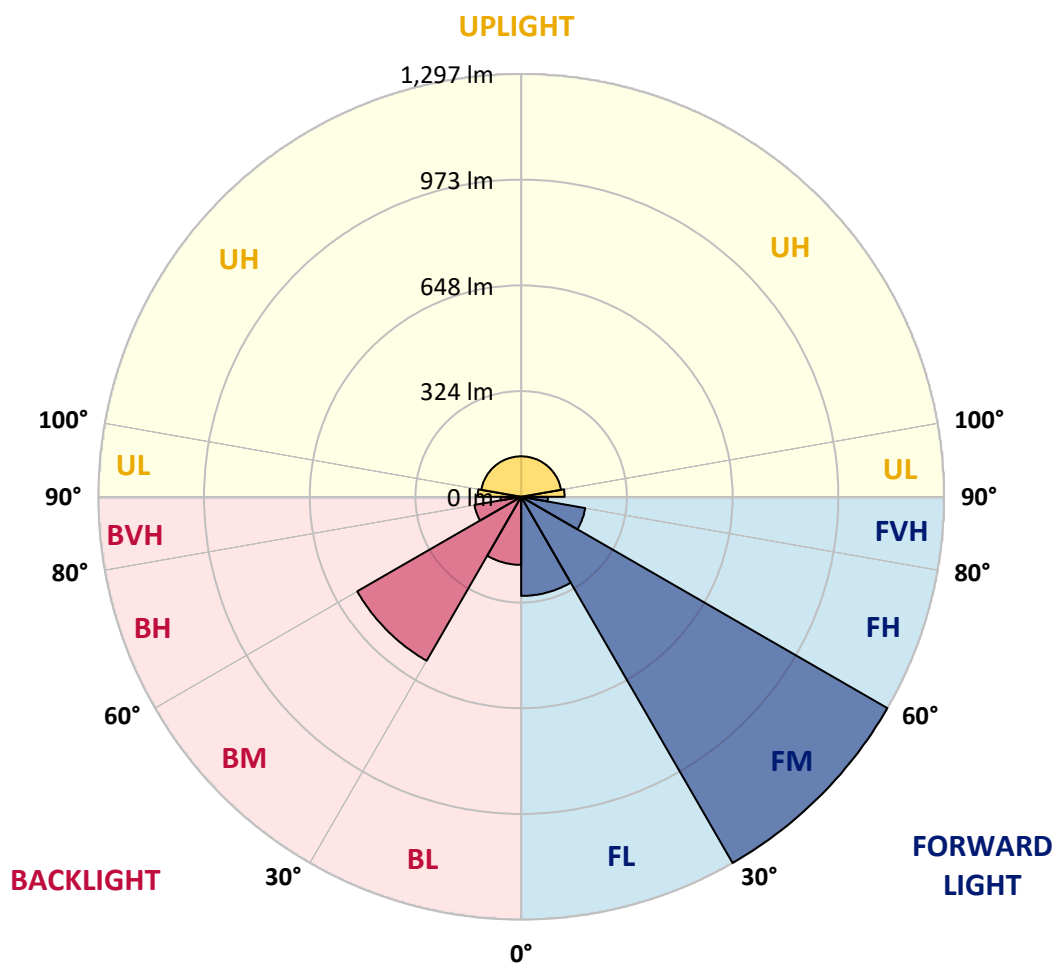
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.0	9.3			
FM	(30°-60°)	1296.7	39.6			
FH	(60°-80°)	199.4	6.1			G0/660
FVH	(80°-90°)	82.0	2.5			G1/100
BL	(0°-30°)	208.7	6.4	B1/500		
BM	(30°-60°)	580.5	17.7	B1/1000		
BH	(60°-80°)	145.5	4.4	B1/500		G1/500
BVH	(80°-90°)	63.1	1.9			G1/100
UL	(90°-100°)	133.1	4.1		U3/500	
UH	(100°-180°)	124.1	3.8		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9
2.5°	405.6	406.8	406.5	405.6	407.3	408.2	408.2	407.7	408.2	409.1	410.9
5°	424.9	424.4	425.7	429.3	434.2	435.4	439.5	438.6	440.7	440.7	443.4
7.5°	458.7	459.2	463.5	467.1	472.2	483.7	494.7	509.2	508.8	507.9	511.5
10°	493.9	493.9	502.6	515.4	536.8	561.1	571.6	584.3	597.6	595.3	591.9
12.5°	504.8	506.6	521.9	553.5	600.2	641.5	662.6	660.0	646.7	639.2	627.3
15°	525.0	527.2	544.0	592.3	647.6	684.5	692.5	660.0	631.4	626.1	616.0
17.5°	601.1	601.1	618.2	662.6	704.4	695.9	664.7	649.4	630.9	620.8	606.4
20°	653.7	656.8	684.1	715.3	738.1	710.9	711.3	682.8	663.8	657.6	644.2
22.5°	704.7	709.1	717.0	765.9	772.5	777.7	761.9	735.9	704.4	694.2	680.1
25°	812.8	814.1	822.5	845.8	828.1	819.4	796.5	775.4	763.2	757.9	743.0
27.5°	941.2	937.1	940.6	942.4	915.6	891.5	858.2	880.5	898.0	902.8	889.7
30°	967.5	960.8	987.6	1016.3	1003.0	974.0	971.8	998.6	1031.7	1025.4	1007.0
32.5°	1073.8	1063.8	1076.0	1079.0	1076.9	1068.5	1065.0	1098.8	1122.6	1109.0	1082.2
35°	1159.5	1159.1	1115.5	1125.7	1131.9	1151.1	1170.4	1216.6	1237.7	1238.6	1216.1
37.5°	1342.6	1329.5	1313.2	1249.2	1215.2	1224.1	1290.9	1372.6	1420.0	1451.2	1415.5
40°	1405.5	1411.2	1397.7	1390.5	1341.3	1320.7	1397.7	1538.2	1667.0	1712.6	1708.2
42.5°	1302.3	1315.5	1307.6	1356.4	1395.3	1421.7	1514.5	1634.8	1659.4	1647.6	1584.8
45°	1388.4	1388.4	1367.3	1336.9	1350.6	1436.3	1509.6	1590.9	1667.9	1680.1	1645.4
46°	1326.0	1327.3	1379.2	1356.4	1340.9	1412.1	1488.5	1590.9	1722.3	1749.1	1708.2
47.5°	1210.8	1208.7	1304.0	1311.4	1322.0	1380.4	1464.3	1590.4	1664.7	1666.4	1615.5
50°	959.6	963.5	1094.5	1163.8	1233.4	1290.9	1404.2	1475.3	1492.1	1489.0	1433.7
52.5°	779.0	789.5	859.0	946.4	1030.3	1141.0	1272.8	1339.2	1375.7	1351.5	1300.6
55°	540.1	562.8	650.3	729.0	852.0	958.2	1072.0	1078.1	911.7	835.7	741.2
57.5°	333.9	338.3	415.6	526.8	619.0	702.6	703.8	547.0	425.7	369.9	307.6
60°	185.4	189.4	258.0	340.1	430.2	440.2	393.2	316.4	283.9	269.3	247.4
62.5°	138.0	141.0	185.9	236.3	272.4	286.9	264.0	258.8	259.3	252.7	238.1
65°	124.3	126.1	163.0	188.5	209.6	212.7	221.1	239.5	249.5	248.2	242.2
67.5°	112.8	115.2	148.5	166.9	179.8	194.7	201.7	230.2	257.5	261.9	256.1
70°	100.6	104.2	133.9	153.3	167.9	182.4	196.4	232.0	254.0	260.1	257.5
72.5°	87.0	91.4	116.4	136.6	152.9	168.7	192.9	223.1	253.1	264.0	265.8
75°	76.4	82.1	102.9	120.8	138.0	156.8	182.4	220.2	248.2	255.3	258.8
77.5°	69.0	75.1	91.0	107.6	123.8	144.5	174.0	219.2	243.4	251.3	257.5
80°	63.3	69.3	82.6	95.8	109.5	132.7	165.2	217.8	248.2	256.6	260.1
82.5°	58.8	64.6	75.9	87.9	98.9	120.0	159.1	215.8	246.9	254.0	255.7
85°	59.3	63.7	74.3	85.2	95.3	113.4	155.9	216.6	263.2	274.2	275.9
87.5°	62.4	65.4	76.4	89.2	100.6	119.0	161.7	214.9	261.4	271.5	275.9
90°	67.6	70.2	83.5	98.5	112.1	129.1	160.3	210.1	254.0	263.2	265.8
92.5°	83.9	86.1	100.6	116.9	128.7	134.4	155.0	217.5	255.3	260.6	260.6
95°	108.5	111.2	125.3	137.5	139.7	136.6	152.4	193.3	232.9	244.2	250.8
97.5°	135.7	136.6	144.5	146.8	140.1	133.0	148.9	180.6	211.3	219.2	221.1
100°	144.5	144.5	149.7	148.1	135.4	125.7	134.8	164.3	194.3	202.9	205.6
102.5°	146.3	147.2	152.4	146.8	129.6	113.7	120.0	148.1	175.8	185.4	190.7
105°	155.0	155.5	152.4	138.3	117.3	103.2	108.5	136.6	166.0	175.3	181.0
107.5°	144.9	143.6	135.4	122.1	108.1	97.9	104.2	124.8	147.2	154.7	158.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
110°	120.0	119.0	116.1	111.2	102.3	95.0	98.9	117.8	139.2	144.9	148.5
112.5°	115.5	114.7	111.6	105.9	95.8	90.1	96.7	112.8	126.1	128.7	129.1
115°	111.2	110.3	103.2	96.7	88.8	86.1	90.5	105.5	117.8	120.8	123.4
117.5°	95.8	95.0	89.7	85.7	82.6	83.9	91.4	99.7	108.5	111.2	112.8
120°	85.2	84.8	82.1	79.5	77.8	78.6	86.5	95.8	104.6	107.2	108.5
122.5°	80.4	79.9	76.8	72.9	72.9	72.9	79.1	86.1	95.8	97.9	101.1
125°	70.7	70.7	67.6	64.6	69.0	70.7	72.0	72.6	79.9	83.5	84.8
127.5°	62.8	63.3	60.6	58.4	66.4	70.2	69.3	63.7	68.1	70.7	72.6
130°	62.0	62.0	58.8	56.2	60.1	68.1	65.4	59.7	65.0	66.7	67.6
132.5°	60.1	60.1	57.1	53.2	54.1	62.8	57.1	55.9	60.6	62.4	62.8
135°	55.3	55.3	53.2	47.9	44.3	53.2	46.2	48.8	53.5	54.9	55.3
137.5°	49.1	49.1	47.0	42.6	35.2	40.0	35.7	41.3	46.2	47.4	47.9
140°	40.5	40.0	38.6	33.3	25.5	22.4	24.2	33.0	37.8	38.6	40.0
142.5°	29.9	30.4	28.0	23.7	15.5	8.4	14.1	21.1	26.4	27.7	28.6
145°	22.0	21.5	19.4	15.5	8.4	1.3	6.6	13.1	16.7	18.1	18.9
147.5°	14.6	14.6	12.8	9.3	2.6	0.4	1.7	6.6	10.5	11.4	11.9
150°	9.6	9.6	7.0	2.6	0.4	0.4	0.4	1.3	4.4	5.3	6.2
152.5°	3.1	3.1	1.3	0.9	0.4	0.0	0.0	0.4	0.9	0.9	1.3
155°	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.4	0.4	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°	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9	398.9
2.5°	411.2	410.9	409.4	408.2	404.6	400.3	395.9	392.7	391.0	389.8	389.2
5°	442.4	443.4	437.1	427.1	417.4	408.5	400.3	392.4	388.0	384.5	383.1
7.5°	508.8	510.1	497.8	482.0	457.3	427.6	402.0	384.8	372.5	365.2	363.9
10°	590.9	587.4	572.8	539.2	494.2	448.2	400.3	363.4	343.6	334.3	333.9
12.5°	624.3	619.6	603.2	575.2	528.2	467.8	408.5	359.9	330.3	318.4	318.1
15°	609.0	600.5	570.8	544.8	526.3	493.0	439.8	383.9	343.6	328.6	324.6
17.5°	595.8	587.4	562.3	525.0	490.4	475.8	450.0	403.8	361.6	340.5	336.1
20°	634.5	629.2	598.0	548.3	510.1	452.0	430.9	399.3	367.8	354.7	351.1
22.5°	670.0	667.4	628.3	576.4	525.0	484.6	442.4	419.1	388.3	379.2	375.2
25°	736.4	724.0	660.0	590.0	545.7	506.1	452.0	415.6	378.2	366.4	364.3
27.5°	892.3	863.8	770.1	665.1	576.1	513.2	451.2	397.6	356.7	341.9	340.9
30°	991.6	965.7	860.2	744.8	623.5	529.9	445.5	380.9	350.2	335.6	336.1
32.5°	1051.8	1017.2	898.5	752.2	634.5	538.3	449.1	375.2	333.9	315.5	315.0
35°	1182.3	1134.0	961.7	812.3	655.9	525.9	434.2	363.4	325.1	311.5	309.7
37.5°	1368.2	1313.7	1080.4	861.1	664.7	509.7	414.7	349.7	304.0	285.1	283.9
40°	1636.6	1556.7	1244.7	920.0	657.6	497.3	393.6	329.0	291.3	279.1	275.1
42.5°	1503.6	1412.9	1146.7	908.5	640.1	463.5	373.4	319.0	283.9	274.2	269.0
45°	1586.5	1481.0	1158.6	844.9	572.8	413.4	339.2	298.7	263.7	250.0	248.7
46°	1632.7	1522.4	1209.9	825.5	542.1	397.6	323.7	289.6	259.3	241.6	237.7
47.5°	1532.5	1409.9	1112.6	787.8	517.6	362.0	303.5	275.1	254.4	238.1	235.4
50°	1344.0	1224.1	962.3	671.8	445.5	319.3	270.7	253.5	232.9	215.2	212.2
52.5°	1226.6	1126.0	880.9	609.4	378.2	269.3	241.6	226.7	205.6	185.1	182.4
55°	674.4	605.0	544.4	457.9	313.7	227.6	210.5	201.7	180.1	159.9	158.6
57.5°	277.7	249.5	247.4	233.3	215.8	191.6	181.8	176.6	155.0	130.6	129.6
60°	233.7	208.2	183.7	161.7	160.3	159.9	156.8	147.6	123.8	98.5	97.6
62.5°	227.6	202.6	178.4	151.5	140.1	143.6	138.0	126.5	108.5	83.9	83.1
65°	232.0	206.0	177.5	147.2	134.8	136.3	130.1	121.4	109.0	91.4	90.5
67.5°	246.9	220.2	188.0	145.4	130.6	133.0	128.7	122.1	115.2	104.2	102.0
70°	249.1	225.4	188.5	146.3	125.7	128.7	127.4	121.7	116.9	107.2	105.9
72.5°	255.7	234.2	192.4	143.2	120.5	121.7	123.4	121.7	118.7	112.8	110.8
75°	249.5	230.7	190.7	140.6	115.2	114.3	118.7	120.8	121.7	119.6	116.9
77.5°	248.2	232.4	191.1	138.9	110.3	106.8	110.3	113.7	115.5	113.4	111.2
80°	250.0	236.3	196.8	139.2	105.0	96.2	97.9	102.0	102.3	98.5	95.3
82.5°	246.0	232.9	190.7	134.4	96.7	85.7	86.1	90.1	90.5	85.7	82.1
85°	263.7	247.8	195.1	128.3	87.9	78.2	78.6	80.4	77.8	72.6	69.0
87.5°	263.2	244.2	186.3	118.7	82.1	73.8	73.4	72.9	68.5	62.4	59.3
90°	254.0	234.2	174.5	104.6	72.6	67.6	66.4	63.7	57.5	50.6	48.2
92.5°	247.8	226.7	166.5	98.9	63.7	59.3	58.4	55.9	49.6	42.2	40.9
95°	241.3	220.5	153.3	86.5	56.2	51.8	50.6	47.9	43.1	36.9	36.0
97.5°	212.7	192.4	135.4	78.6	50.0	45.3	44.3	42.2	38.2	33.9	33.3
100°	196.4	178.4	125.7	72.0	44.8	39.5	39.0	37.8	35.2	32.1	31.6
102.5°	183.7	166.0	116.4	66.7	40.0	35.2	34.8	34.2	33.0	30.7	30.7
105°	174.0	157.4	111.6	62.4	36.0	32.1	31.6	31.6	30.4	28.9	28.9
107.5°	151.5	137.5	97.0	55.3	33.0	29.5	29.5	29.5	28.6	27.7	28.0



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CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-A-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	142.8	129.6	92.3	51.8	31.6	27.3	26.8	26.8	26.4	26.8	26.8
112.5°	123.0	111.6	81.2	49.6	30.7	26.0	24.7	23.7	22.8	23.7	24.2
115°	118.1	107.6	78.6	47.9	29.9	25.1	23.3	22.0	20.2	21.5	21.5
117.5°	108.5	98.9	72.9	46.6	29.9	23.7	22.0	20.7	18.9	19.8	19.8
120°	104.2	95.8	73.4	47.9	30.4	22.4	20.7	18.4	17.2	18.4	18.4
122.5°	97.9	90.5	69.0	45.3	28.9	22.0	20.2	15.8	14.9	16.3	16.3
125°	82.1	75.9	59.3	40.0	27.7	22.0	19.8	14.1	14.1	14.9	15.5
127.5°	69.9	65.0	51.5	37.4	28.0	23.3	18.9	12.2	13.1	14.6	14.6
130°	65.8	62.0	50.9	38.2	29.5	24.7	15.5	11.4	12.2	13.7	13.7
132.5°	61.5	58.0	49.1	39.0	29.9	23.3	12.8	10.5	11.4	12.2	12.2
135°	54.1	51.5	44.3	35.7	26.8	18.4	10.2	9.3	10.5	11.4	11.9
137.5°	47.4	45.3	39.0	32.1	24.2	15.8	7.0	8.4	9.3	9.6	10.2
140°	39.0	37.8	33.0	26.4	18.1	8.9	5.3	6.6	7.5	8.4	8.4
142.5°	28.6	27.7	23.3	17.2	11.0	3.6	3.6	4.9	5.7	6.6	6.6
145°	18.9	18.1	14.9	11.0	4.9	0.9	2.2	3.6	4.9	5.3	5.3
147.5°	11.9	11.4	9.3	5.7	1.7	0.9	0.9	2.6	3.6	4.0	4.0
150°	6.2	5.7	4.0	1.7	0.9	0.4	0.4	0.9	2.2	2.6	2.6
152.5°	1.3	1.3	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
155°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	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)