

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: P266484

Luminaire Tested: **UTLD-AF24-80-D-U-T3-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-80-D-U-T3-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5897.7 lumens
Efficiency: N/A
Efficacy: 71.1 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: B2 - U4 - G3

Input Watts (W): 83
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



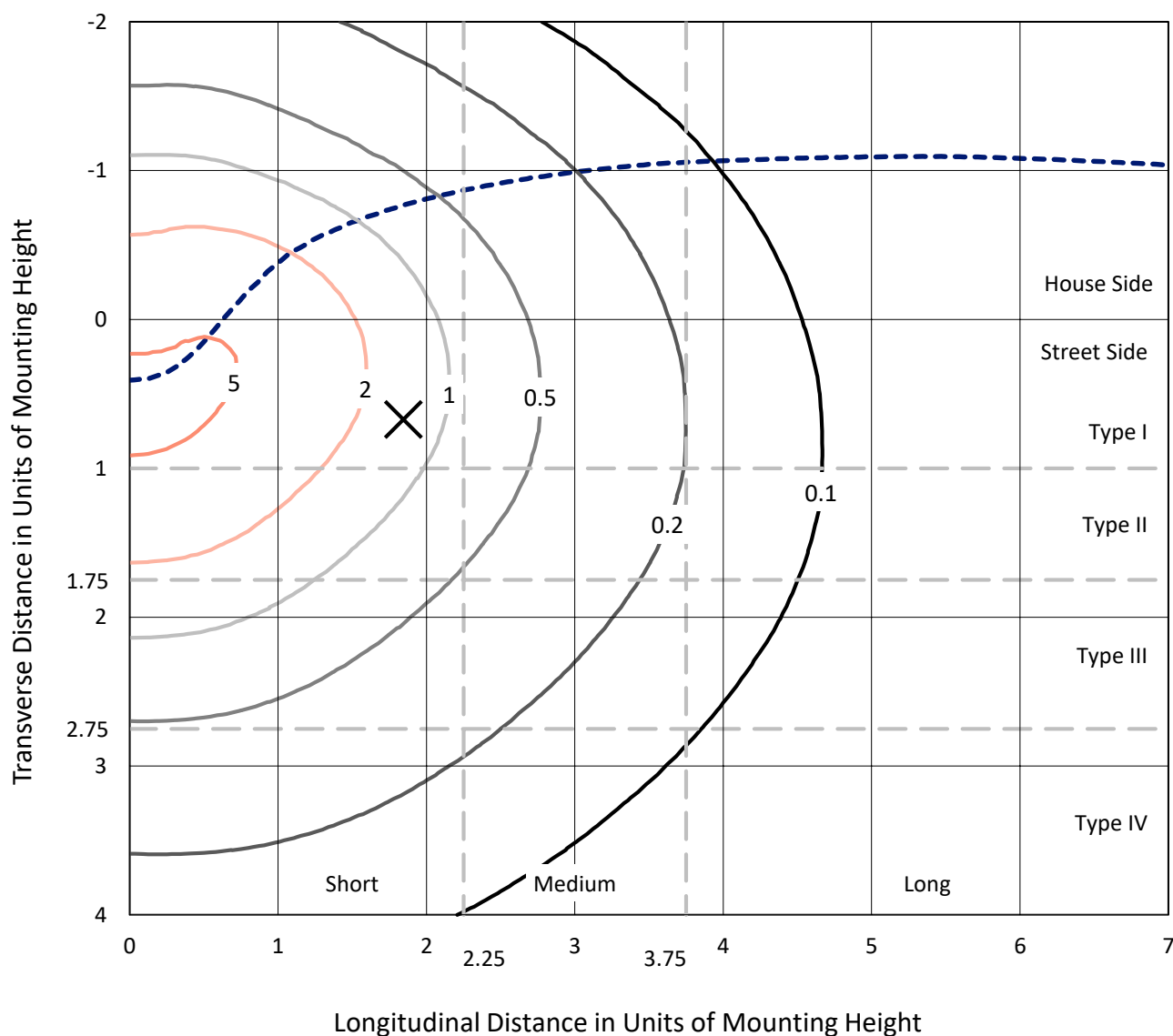
REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

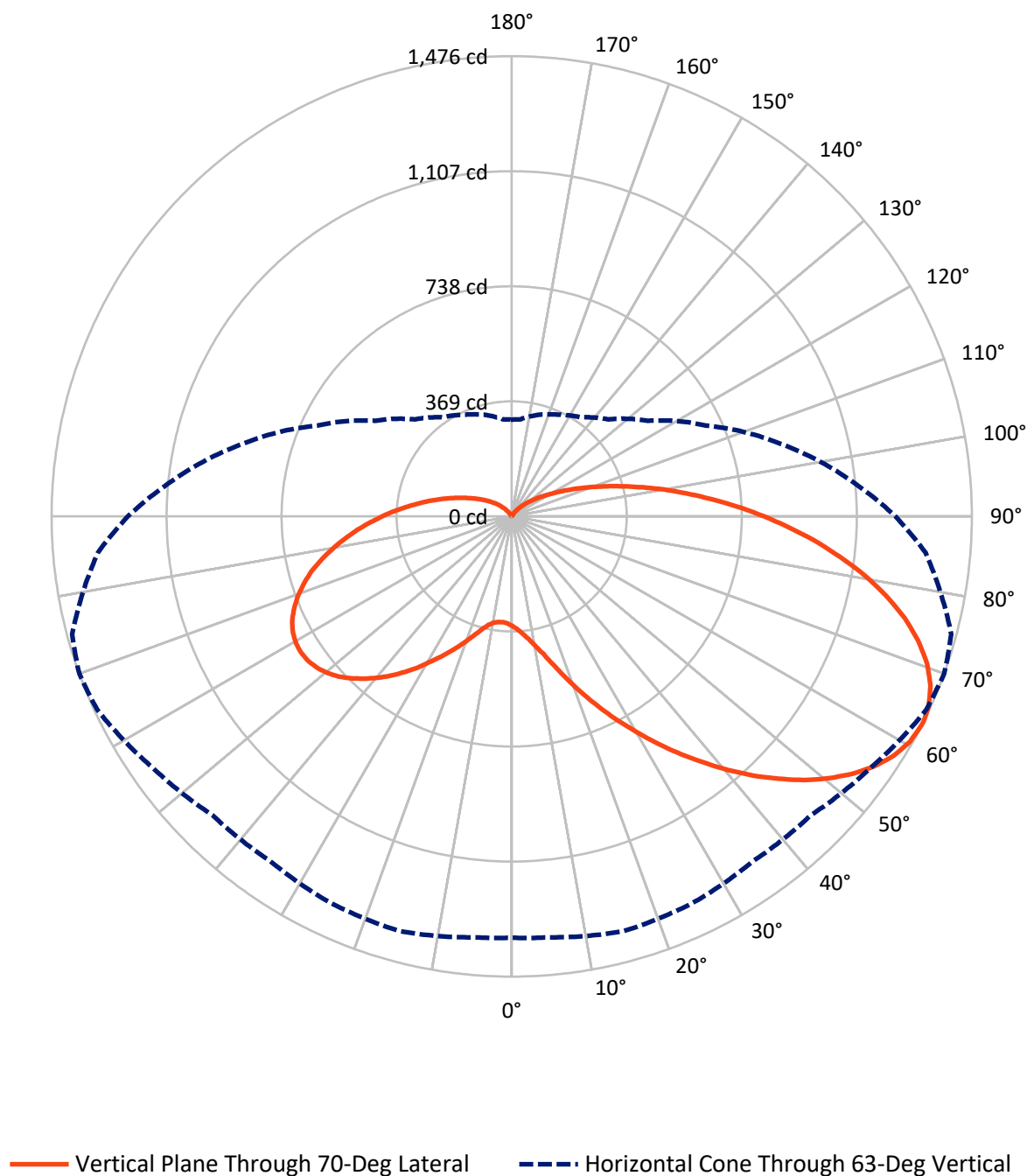


Based on 10 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266484

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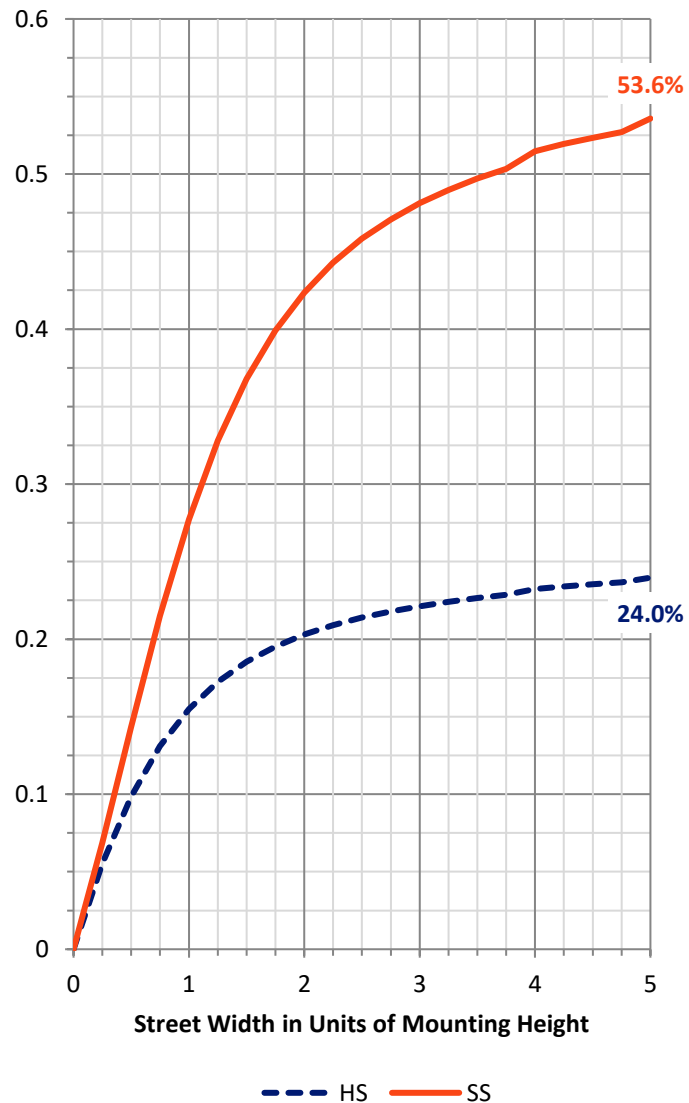
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.5	341.2	1848.7
	% Fixture	25.6	5.8	31.3
Street Side	Lumens	3407.8	641.2	4049.0
	% Fixture	57.8	10.9	68.7
Total	Lumens	4915.3	982.4	5897.7
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	0.6
10°-20°	123.0	2.1
20°-30°	264.3	4.5
30°-40°	460.6	7.8
40°-50°	684.4	11.6
50°-60°	873.9	14.8
60°-70°	947.5	16.1
70°-80°	862.8	14.6
80°-90°	663.8	11.3
90°-100°	445.2	7.5
100°-110°	269.8	4.6
110°-120°	150.6	2.6
120°-130°	76.4	1.3
130°-140°	31.7	0.5
140°-150°	8.1	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4915.3	83.3
0°-180°	5897.7	100.0

Coefficient of Utilization



REPORT NUMBER: P266484

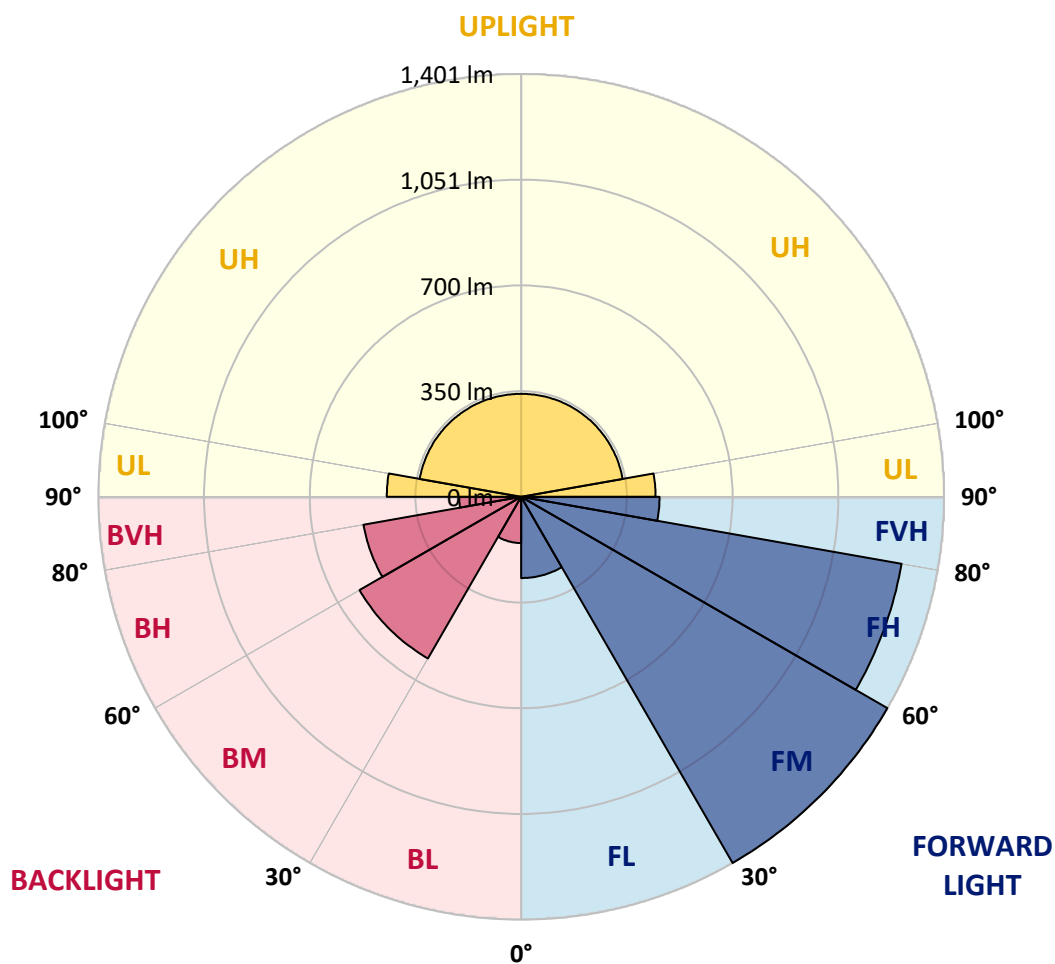
CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.2	4.6			
FM	(30°-60°)	1400.7	23.8			
FH	(60°-80°)	1279.6	21.7			G1/1800
FVH	(80°-90°)	458.3	7.8			G3/500
BL	(0°-30°)	153.1	2.6	B1/500		
BM	(30°-60°)	618.2	10.5	B1/1000		
BH	(60°-80°)	530.7	9.0	B2/1000		G2/1000
BVH	(80°-90°)	205.5	3.5			G2/225
UL	(90°-100°)	445.2	7.5		U3/500	
UH	(100°-180°)	341.2	5.8		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0
2.5°	380.6	380.6	379.9	379.1	376.7	373.6	369.1	365.9	362.7	360.5	355.8
5°	413.2	414.7	411.7	410.0	404.6	398.5	391.5	382.9	379.1	373.6	364.4
7.5°	448.1	449.6	446.5	442.7	435.7	426.3	415.5	404.6	397.7	390.8	376.7
10°	486.8	487.6	483.7	479.1	470.5	458.9	447.3	430.9	423.2	413.9	395.3
12.5°	530.2	528.7	525.6	517.9	507.7	495.3	479.9	463.5	452.7	441.8	418.6
15°	579.9	579.0	573.7	564.3	552.0	537.9	519.4	501.6	490.7	479.1	451.2
17.5°	631.8	630.3	624.9	613.9	600.7	583.0	568.9	548.1	534.9	522.5	490.7
20°	683.7	682.9	679.1	666.7	651.9	637.9	619.4	597.7	584.4	567.5	531.0
22.5°	743.3	741.1	735.0	724.0	711.6	697.7	678.3	651.2	636.4	620.2	576.7
25°	803.2	802.4	794.6	783.0	772.9	757.5	738.8	707.0	692.2	669.7	623.2
27.5°	865.1	863.6	855.8	843.4	835.7	821.0	797.7	766.7	748.8	727.2	675.2
30°	929.4	928.7	919.3	907.0	898.5	884.6	860.4	827.1	809.4	785.3	727.2
32.5°	993.9	993.9	984.5	973.7	963.6	945.7	923.3	891.5	872.2	846.6	781.3
35°	1061.3	1057.3	1050.4	1040.2	1024.1	1006.2	986.1	957.4	937.2	909.4	840.4
37.5°	1124.8	1124.8	1113.2	1104.6	1086.8	1066.6	1048.1	1024.1	1001.6	974.4	897.6
40°	1187.6	1188.4	1177.5	1166.7	1143.5	1124.8	1108.6	1089.1	1069.1	1041.0	960.5
42.5°	1248.0	1246.5	1236.4	1224.0	1198.5	1177.5	1167.4	1151.2	1136.4	1107.0	1021.0
45°	1303.9	1299.9	1292.2	1277.5	1248.0	1227.2	1223.2	1215.5	1200.0	1173.6	1082.2
47.5°	1347.3	1345.0	1341.9	1322.5	1292.2	1272.1	1272.1	1275.2	1263.6	1236.4	1139.5
50°	1383.0	1382.2	1380.7	1359.0	1326.3	1310.8	1317.0	1328.0	1320.1	1296.2	1190.8
52.5°	1406.9	1406.1	1408.5	1386.1	1354.3	1340.4	1355.1	1376.7	1370.5	1348.8	1239.5
55°	1416.3	1416.3	1423.3	1402.3	1370.5	1359.8	1383.7	1413.9	1413.3	1393.8	1276.8
57.5°	1412.5	1413.3	1425.6	1406.1	1376.7	1370.5	1402.3	1443.4	1446.5	1427.1	1307.8
60°	1394.6	1395.3	1412.5	1397.8	1372.2	1370.5	1410.9	1461.3	1467.4	1450.5	1325.5
62.5°	1360.5	1363.5	1384.5	1375.2	1354.3	1359.8	1407.7	1466.8	1475.1	1458.9	1332.5
63°	1351.2	1355.1	1377.6	1368.9	1349.7	1355.8	1405.5	1466.8	1475.9	1459.7	1332.5
65°	1313.2	1317.9	1343.4	1339.6	1325.5	1337.2	1392.3	1458.2	1469.7	1455.1	1325.5
67.5°	1252.0	1261.3	1290.8	1293.7	1286.8	1304.7	1365.2	1436.5	1448.8	1435.0	1304.7
70°	1178.2	1189.1	1227.2	1236.4	1234.9	1261.3	1325.5	1400.0	1413.3	1399.2	1268.9
72.5°	1099.3	1114.0	1148.8	1169.1	1179.0	1207.9	1276.8	1350.4	1363.5	1348.8	1221.8
75°	1013.2	1028.6	1072.0	1096.9	1112.5	1148.0	1216.2	1290.0	1301.6	1290.0	1162.0
77.5°	927.1	942.6	986.9	1018.6	1042.7	1085.3	1152.7	1220.2	1228.7	1216.2	1092.2
80°	838.7	856.7	899.3	936.5	969.0	1011.6	1076.8	1138.1	1148.0	1131.8	1017.2
82.5°	751.2	766.7	814.8	858.2	893.0	935.7	997.7	1055.1	1059.7	1043.4	934.1
85°	672.1	685.2	732.6	779.1	820.2	862.1	919.3	965.0	972.1	951.1	852.0
87.5°	597.7	607.8	657.4	703.2	745.0	791.4	842.6	879.1	879.1	862.8	766.0
90°	528.7	535.7	580.7	631.0	676.0	717.0	765.1	796.2	792.2	772.2	685.2
92.5°	462.0	470.5	514.6	562.8	608.5	651.2	689.9	710.9	705.3	684.5	607.8
95°	407.0	410.9	454.3	503.9	545.7	584.4	618.7	633.3	624.9	603.9	531.0
97.5°	356.5	359.7	397.7	445.0	489.9	525.6	548.9	558.1	549.7	528.7	468.2
100°	315.6	316.3	350.3	396.2	438.1	468.9	489.9	489.9	482.2	461.2	406.3
102.5°	275.2	276.8	304.6	350.3	390.0	417.1	433.3	431.7	417.8	397.0	352.8
105°	242.6	244.2	265.9	310.1	345.8	370.6	383.8	374.5	361.3	342.7	305.5
107.5°	213.9	214.8	231.9	271.3	305.5	328.7	335.6	325.5	310.9	293.0	266.6



REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
110°	191.5	190.7	203.8	238.1	270.6	290.0	293.7	281.3	266.6	252.0	230.2
112.5°	169.8	169.8	178.4	207.0	237.2	255.7	257.4	239.6	227.1	213.9	200.1
115°	152.0	151.2	157.4	179.8	207.8	223.3	221.7	205.4	193.9	183.0	173.6
117.5°	136.5	134.8	139.5	155.0	180.6	195.3	191.5	172.8	164.3	156.6	151.2
120°	122.4	121.7	124.1	134.8	155.0	166.6	162.9	146.6	138.8	134.8	131.8
122.5°	110.1	110.1	109.4	116.3	131.8	141.0	135.6	122.4	117.9	115.5	115.5
125°	99.3	99.3	97.6	100.0	110.1	117.9	113.1	102.3	99.3	99.3	100.0
127.5°	88.4	88.4	86.9	86.1	90.6	96.1	90.6	84.5	83.7	84.5	86.1
130°	78.3	77.6	75.9	72.9	73.7	75.9	72.1	69.0	69.8	72.1	73.7
132.5°	69.0	68.2	65.8	61.3	58.1	58.1	55.1	55.1	57.3	59.6	62.8
135°	59.6	58.8	56.7	51.2	45.8	42.6	40.3	43.4	46.5	48.9	51.9
137.5°	50.3	49.5	46.5	41.1	34.1	29.5	28.7	33.3	36.4	39.5	42.0
140°	41.1	40.3	37.2	31.8	24.1	18.7	18.7	24.9	27.8	30.3	33.3
142.5°	32.6	31.8	29.5	23.3	15.5	11.6	12.3	17.8	20.1	22.5	24.9
145°	24.1	24.1	21.6	16.3	9.3	5.4	6.9	11.6	14.0	15.5	17.8
147.5°	16.3	16.3	14.0	10.2	5.4	2.3	3.1	6.9	8.5	10.2	11.6
150°	10.2	10.2	8.5	5.4	2.3	0.0	1.5	3.1	4.6	5.4	6.9
152.5°	5.4	5.4	3.9	2.3	0.8	0.0	0.0	1.5	1.5	2.3	3.1
155°	2.3	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
157.5°	0.8	0.0	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



REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0
2.5°	353.6	351.1	345.8	341.9	337.3	333.4	331.0	327.2	324.7	325.5	324.7
5°	359.7	355.0	344.9	336.4	327.2	319.3	313.1	307.8	304.6	302.3	303.1
7.5°	369.7	362.7	348.1	334.1	320.2	308.6	299.2	292.3	286.0	284.6	283.8
10°	385.3	376.0	355.0	336.4	318.5	302.3	290.0	279.8	273.7	270.6	270.6
12.5°	407.0	393.7	367.4	342.7	320.2	300.0	284.6	272.0	265.1	262.0	261.2
15°	437.2	420.9	388.3	355.0	326.4	302.3	283.8	271.3	265.9	264.3	263.6
17.5°	472.1	454.3	413.9	375.2	338.8	308.6	290.7	280.6	274.4	271.3	270.6
20°	511.7	488.4	442.7	397.7	356.5	324.7	304.6	290.7	283.0	279.1	278.3
22.5°	552.0	526.3	473.6	421.8	376.7	347.3	318.5	301.6	290.7	286.0	284.6
25°	595.3	566.7	505.4	447.3	401.5	368.2	335.6	310.9	298.4	293.0	293.0
27.5°	641.8	608.5	538.8	473.6	427.1	387.6	352.0	321.0	306.2	300.0	299.2
30°	690.6	653.4	572.8	502.3	451.2	405.5	365.9	331.7	314.0	307.0	306.2
32.5°	743.3	700.8	610.8	533.4	473.6	421.8	378.2	341.9	321.0	312.4	311.6
35°	795.4	747.3	646.5	563.5	493.8	435.7	388.3	352.0	326.4	317.8	317.0
37.5°	852.8	796.8	684.5	593.1	512.5	446.5	397.0	359.7	331.7	322.5	321.0
40°	907.7	845.8	720.3	619.4	527.9	456.6	403.9	366.7	336.4	326.4	324.7
42.5°	962.1	895.4	755.8	644.2	541.0	462.7	408.5	371.3	341.0	329.5	327.2
45°	1016.3	941.9	792.2	664.3	551.2	468.2	411.7	375.2	344.9	331.0	329.5
47.5°	1066.6	987.5	825.6	682.2	558.1	470.5	413.2	376.7	348.1	331.7	329.5
50°	1114.7	1027.1	853.5	695.4	562.8	470.5	413.2	377.5	349.6	331.7	330.2
52.5°	1156.6	1061.3	875.9	703.9	563.5	468.2	410.9	376.7	349.6	330.2	327.9
55°	1188.4	1089.1	892.2	707.8	561.3	464.3	407.0	374.5	348.8	327.9	325.5
57.5°	1214.0	1108.6	902.3	707.0	555.8	458.1	402.4	371.3	346.6	324.0	321.8
60°	1229.5	1118.6	903.9	701.5	548.1	450.4	396.2	366.7	343.4	320.2	317.0
62.5°	1231.8	1117.9	898.5	690.6	536.5	441.1	388.3	360.5	338.0	314.0	310.9
63°	1230.9	1117.0	895.4	688.5	534.1	439.5	387.6	359.7	337.3	312.4	310.1
65°	1222.6	1107.8	883.8	676.0	523.3	430.3	380.6	353.6	332.6	307.8	303.8
67.5°	1200.0	1086.8	862.1	655.0	507.0	417.8	370.6	345.8	324.7	300.0	296.1
70°	1165.9	1057.3	832.5	631.8	489.9	404.6	359.7	335.6	316.3	291.5	286.7
72.5°	1120.1	1014.7	798.5	604.6	469.8	390.0	347.3	324.7	305.5	282.2	275.2
75°	1065.1	965.0	760.4	575.3	448.1	374.5	334.9	314.0	294.6	271.3	264.3
77.5°	999.3	908.5	713.2	544.3	427.1	358.2	321.0	300.8	282.2	258.9	252.0
80°	928.7	845.8	666.0	509.2	403.9	341.0	307.0	286.7	268.2	246.6	238.1
82.5°	854.3	778.3	615.5	476.0	380.6	323.3	292.3	272.0	254.3	233.3	225.6
85°	779.1	710.9	566.7	442.7	356.5	306.2	276.8	258.2	238.8	218.6	210.8
87.5°	704.7	645.0	519.4	407.7	334.1	289.2	261.2	242.6	223.3	203.8	197.6
90°	633.3	581.5	469.8	375.2	310.9	270.6	245.7	227.1	208.5	189.2	183.0
92.5°	562.0	517.1	424.8	345.8	289.2	253.5	230.2	211.6	192.2	173.6	169.8
95°	498.5	459.8	382.1	314.0	268.2	237.2	214.8	196.9	176.7	158.9	156.6
97.5°	438.7	405.5	340.3	286.7	247.4	219.4	199.2	180.6	160.4	144.2	142.7
100°	385.3	358.2	304.6	258.9	226.4	203.0	184.5	165.8	145.7	131.8	130.3
102.5°	336.4	314.8	271.3	234.1	207.8	186.8	168.3	150.3	131.1	118.5	118.5
105°	294.6	275.2	240.2	210.8	188.4	169.8	152.7	134.8	115.5	105.5	105.5
107.5°	255.1	241.9	213.2	188.4	170.6	154.2	138.0	120.2	101.6	93.9	94.6



REPORT NUMBER: P266484

CATALOG NUMBER: UTLD-AF24-80-D-U-T3-FP-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	222.5	211.6	187.6	169.1	154.2	139.5	124.1	106.2	88.4	83.0	83.7
112.5°	193.9	185.3	165.1	150.3	138.0	125.7	110.1	92.3	76.7	73.7	74.4
115°	169.1	162.1	146.6	133.4	123.2	111.6	97.6	79.9	66.7	65.0	65.0
117.5°	147.3	141.8	128.6	118.5	109.4	99.3	85.2	69.0	57.3	57.3	57.3
120°	129.4	124.9	113.9	104.7	96.8	86.9	73.7	58.1	49.5	50.3	50.3
122.5°	112.4	109.4	99.3	92.3	84.5	75.9	62.8	48.1	42.6	44.1	44.9
125°	98.5	95.3	87.7	79.9	72.9	64.4	51.9	40.3	37.2	38.7	38.7
127.5°	84.5	83.0	75.9	69.0	62.8	54.3	42.6	33.3	32.6	34.1	34.1
130°	72.9	71.3	65.8	58.1	51.9	44.1	34.1	27.0	27.0	28.7	28.7
132.5°	62.1	61.3	55.9	48.9	42.6	34.9	27.0	21.6	23.3	24.9	24.9
135°	51.2	51.2	46.5	39.5	33.3	26.4	20.1	17.8	19.4	20.9	20.9
137.5°	42.0	41.1	37.2	31.0	24.9	19.4	14.7	14.0	16.3	17.8	17.8
140°	33.3	32.6	29.5	24.1	17.8	13.1	10.2	10.9	13.1	14.0	14.7
142.5°	24.9	24.9	21.6	17.8	11.6	7.7	6.2	8.5	10.2	10.9	11.6
145°	17.8	17.8	15.5	11.6	6.9	3.9	3.9	6.2	7.7	8.5	8.5
147.5°	11.6	11.6	10.2	6.9	3.9	1.5	2.3	3.9	5.4	6.2	6.2
150°	6.9	6.2	5.4	3.1	1.5	0.0	0.8	1.5	3.1	3.9	3.1
152.5°	3.1	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.8	1.5	1.5
155°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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)