

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: P239614

Luminaire Tested: **UTLD-AF24-20-D-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-20-D-U-T2U  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2429 lumens  
Efficiency: N/A  
Efficacy: 115.7 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 - U0 - G1  
  
Input Watts (W): 21  
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

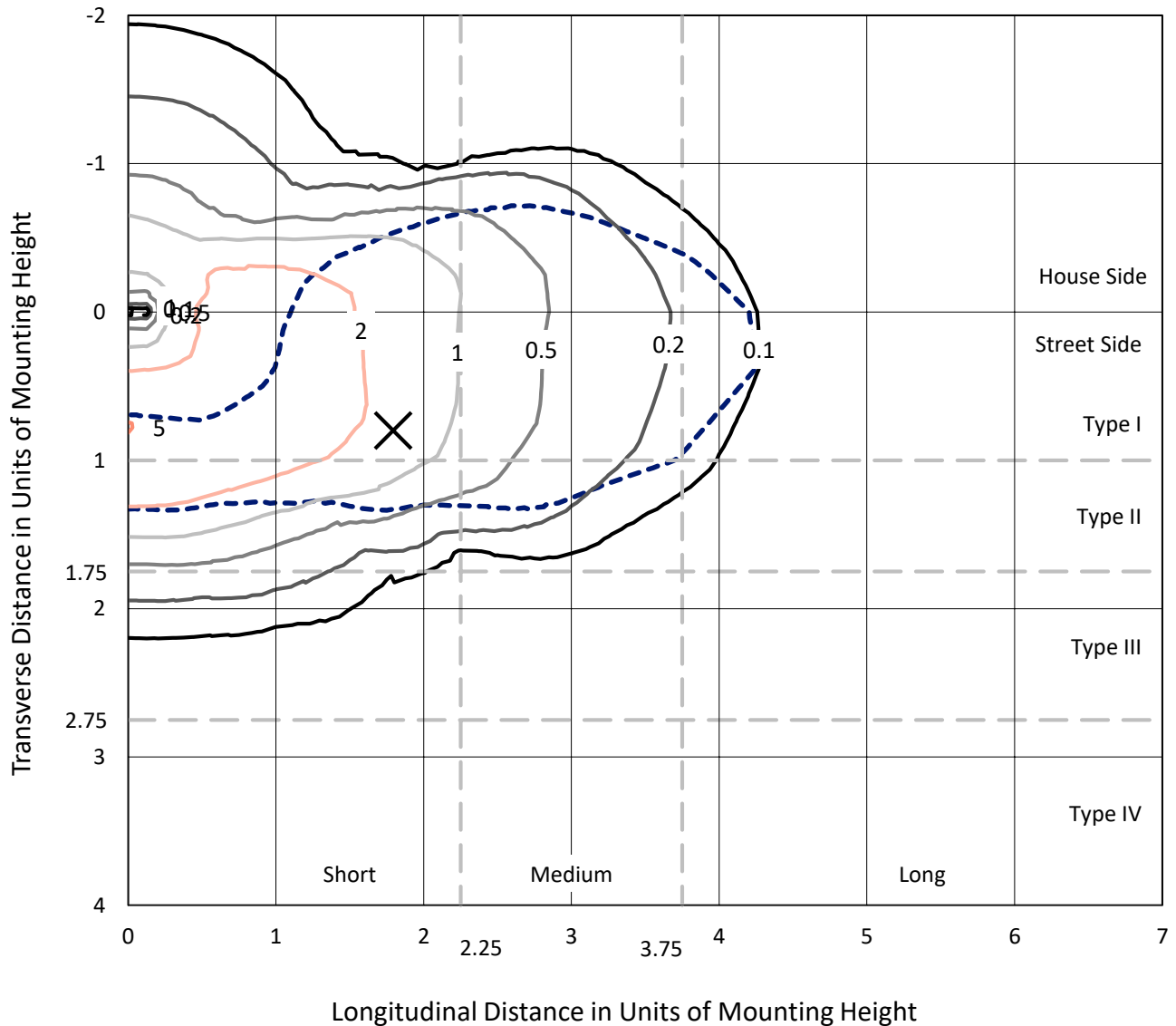


REPORT NUMBER: P239614

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

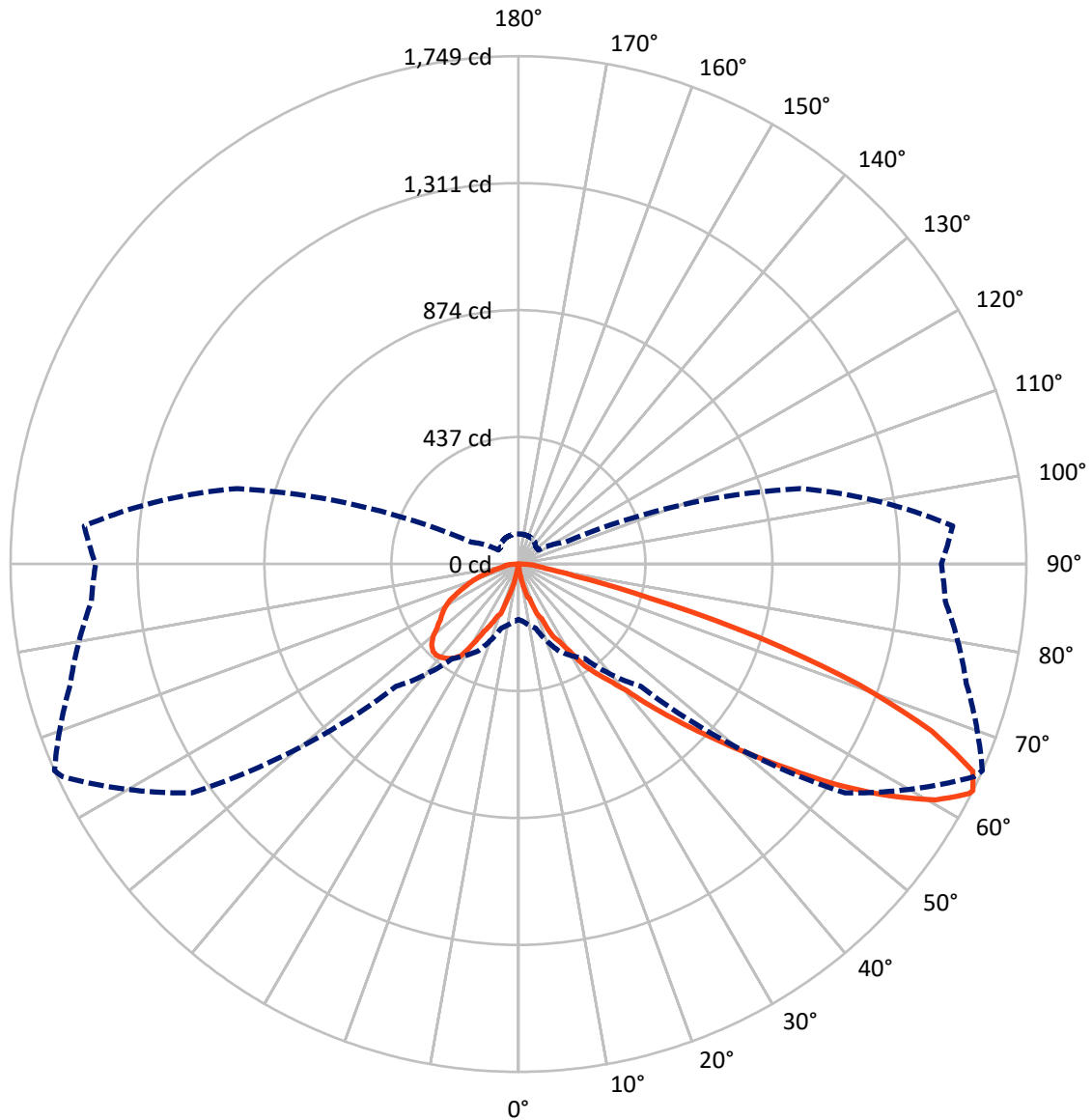


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P239614

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P239614

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

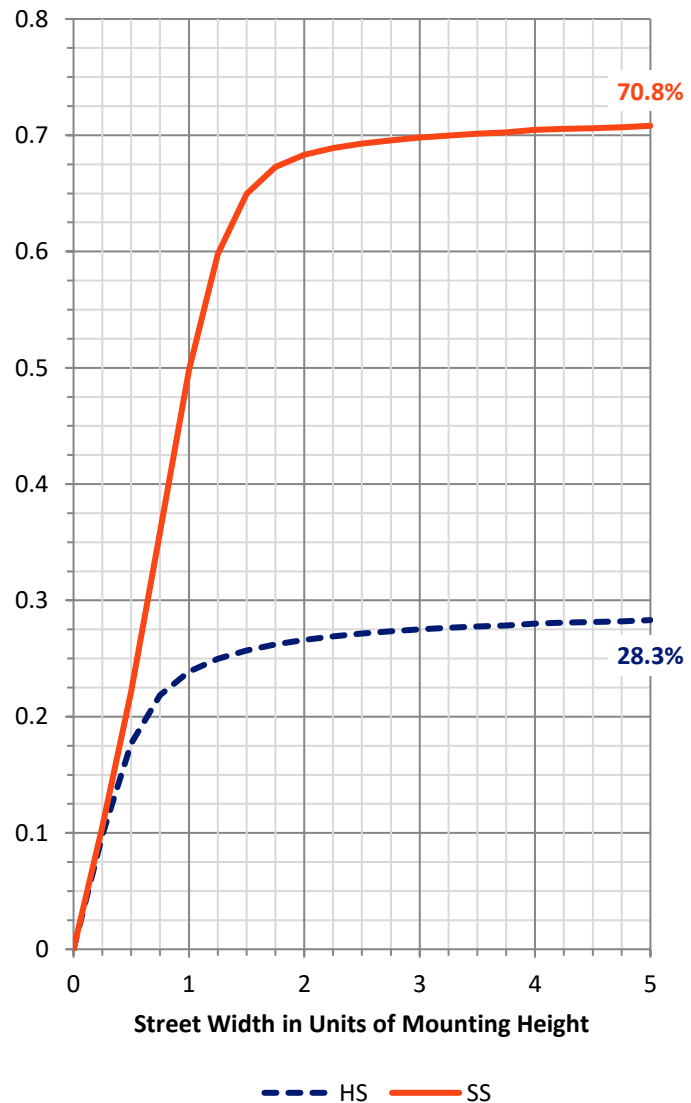
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	699.6	0.0	699.6
	% Fixture	28.8	0.0	28.8
<b>Street Side</b>	Lumens	1729.4	0.0	1729.4
	% Fixture	71.2	0.0	71.2
<b>Total</b>	Lumens	2429.0	0.0	2429.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.1
10°-20°	32.1	1.3
20°-30°	117.9	4.9
30°-40°	268.4	11.0
40°-50°	483.2	19.9
50°-60°	630.9	26.0
60°-70°	560.5	23.1
70°-80°	284.7	11.7
80°-90°	48.9	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2429.0	100.0
0°-180°	2429.0	100.0



REPORT NUMBER: P239614

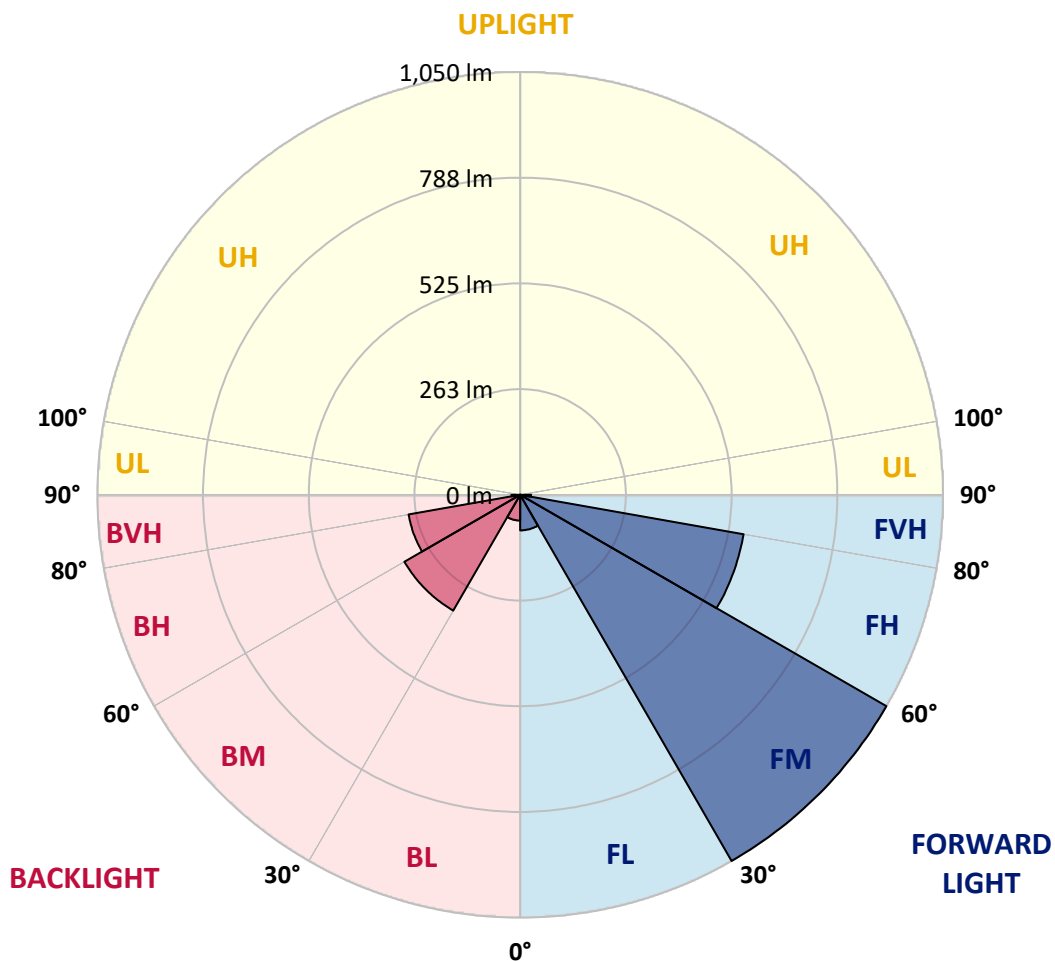
CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.3	3.6			
FM (30°-60°)	1050.3	43.2			
FH (60°-80°)	563.6	23.2			G0/660
FVH (80°-90°)	27.1	1.1			G1/100
BL (0°-30°)	64.0	2.6	B0/110		
BM (30°-60°)	332.2	13.7	B1/1000		
BH (60°-80°)	281.6	11.6	B1/500		G1/500
BVH (80°-90°)	21.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P239614

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
2.5°	6.1	6.1	5.3	4.2	3.3	2.8	1.9	1.4	1.4	0.8	0.6
5°	56.2	56.2	55.9	55.6	55.1	52.9	9.7	3.1	2.8	1.4	0.8
7.5°	57.3	57.0	57.0	56.5	56.2	55.1	54.2	21.1	17.8	3.1	1.7
10°	102.6	102.1	101.3	68.4	57.9	56.5	56.2	44.2	43.9	9.5	7.0
12.5°	107.1	107.4	106.5	105.7	103.5	64.8	62.0	80.1	81.5	93.7	72.9
15°	122.1	120.4	114.3	110.4	108.5	101.8	116.0	115.7	116.3	109.9	83.4
17.5°	173.3	172.7	171.3	160.8	119.3	153.0	146.3	124.6	126.3	144.1	144.1
20°	195.5	195.3	190.3	184.4	204.7	165.0	157.2	183.0	184.4	186.4	172.5
22.5°	293.7	293.5	281.5	216.4	230.0	207.0	208.1	208.6	203.6	200.8	215.9
25°	340.7	338.5	331.8	312.4	272.9	275.7	227.5	273.7	275.9	274.3	270.9
27.5°	480.7	480.9	425.3	368.6	334.9	310.2	312.9	303.8	303.5	298.5	311.8
30°	560.2	556.3	536.9	481.8	399.7	366.6	351.3	357.2	348.3	379.7	377.2
32.5°	747.7	747.7	680.4	559.1	481.8	454.5	408.3	410.0	416.7	412.2	418.6
35°	879.5	867.0	800.6	702.1	546.3	511.0	483.4	459.2	462.0	454.2	460.4
37.5°	1019.5	1006.9	933.5	807.2	660.4	597.5	546.6	516.5	509.6	510.1	514.9
40°	1128.2	1121.3	1076.2	936.9	773.0	689.8	620.6	579.7	572.2	585.8	601.1
42.5°	1204.2	1201.4	1174.7	1051.7	906.0	829.8	726.3	667.0	668.4	675.7	691.0
45°	1234.5	1228.1	1227.3	1124.3	1025.9	987.5	864.5	766.6	771.6	791.4	794.4
47.5°	1201.4	1188.0	1212.2	1154.4	1125.4	1127.9	1022.5	895.1	890.1	909.0	907.4
50°	1080.1	1075.7	1122.1	1131.3	1174.7	1232.3	1195.8	1038.4	1023.9	1025.6	1014.2
52.5°	892.1	902.9	964.1	1028.1	1151.6	1288.7	1350.8	1189.7	1177.2	1141.9	1119.9
55°	717.1	730.2	796.4	846.2	1034.5	1284.8	1464.0	1341.0	1348.0	1257.3	1216.4
57.5°	524.9	541.9	629.8	671.8	847.6	1191.1	1521.5	1488.4	1505.4	1371.3	1308.2
60°	335.5	341.9	430.6	514.0	616.7	970.5	1516.0	1629.2	1649.5	1494.3	1393.6
62.5°	209.5	216.4	245.3	361.9	436.2	657.9	1408.6	1722.7	1741.3	1582.5	1464.8
63°	190.8	198.9	228.6	330.7	397.5	595.3	1373.0	1732.1	1748.5	1597.2	1475.4
65°	142.1	145.5	161.1	223.1	291.8	373.9	1124.3	1699.0	1719.6	1609.7	1479.5
67.5°	124.1	125.5	131.0	147.1	208.6	217.5	655.1	1522.1	1534.9	1562.4	1427.0
70°	113.5	114.3	124.3	125.5	163.6	154.4	240.3	1195.8	1244.2	1466.5	1335.5
72.5°	98.5	99.6	111.3	122.1	126.8	122.7	129.9	807.5	865.9	1252.8	1235.0
75°	82.3	83.4	93.7	108.2	110.4	97.4	106.5	423.1	464.5	918.5	1080.4
77.5°	67.6	68.4	77.6	87.6	101.5	74.8	86.5	159.4	197.5	567.5	777.7
80°	46.5	48.7	58.7	67.9	77.6	67.9	64.8	91.2	96.5	275.4	397.5
82.5°	35.3	35.9	45.6	49.5	54.8	67.0	50.9	68.7	72.6	128.2	129.1
85°	24.5	23.9	32.3	34.5	38.1	42.3	42.6	50.1	51.7	74.0	54.2
87.5°	11.1	10.6	17.5	17.0	19.2	20.9	30.3	27.5	28.1	46.5	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P239614

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
2.5°	0.6	0.6	0.6	0.8	0.8	0.8	0.6	0.3	0.3	0.3	0.3
5°	0.6	0.6	0.6	0.8	0.8	1.1	1.4	1.4	1.7	1.9	1.9
7.5°	1.4	1.1	1.1	1.1	1.7	2.5	6.7	28.9	50.6	53.4	54.2
10°	6.1	6.1	4.5	3.6	4.2	45.6	59.0	60.9	62.0	62.6	62.6
12.5°	75.9	84.8	79.3	42.6	45.9	56.7	63.1	64.5	66.2	80.4	83.2
15°	92.3	93.2	94.0	87.3	121.0	89.3	74.5	112.7	114.6	115.4	115.2
17.5°	140.2	142.7	131.8	117.4	128.5	133.0	108.5	118.8	120.7	122.4	122.4
20°	181.9	182.2	170.8	182.8	156.3	161.9	141.3	134.1	172.2	173.9	173.6
22.5°	224.2	227.5	188.3	195.0	205.6	171.6	178.6	159.1	167.5	167.5	167.2
25°	277.6	276.5	258.1	225.6	215.9	203.1	183.3	166.1	188.9	199.7	199.7
27.5°	329.1	313.2	269.0	259.5	247.6	213.1	181.1	190.5	185.3	186.6	186.4
30°	388.6	383.9	343.8	309.0	254.2	207.0	189.4	172.5	181.6	192.5	191.4
32.5°	418.6	406.4	358.6	373.3	266.5	199.4	165.0	162.2	165.0	168.8	169.4
35°	458.1	438.1	391.1	393.9	268.4	175.0	146.9	145.2	160.5	167.7	168.6
37.5°	509.0	485.1	445.6	403.1	252.0	154.4	130.2	139.4	144.6	148.0	146.9
40°	574.4	546.0	516.5	405.6	224.5	133.2	121.0	128.5	133.5	134.4	134.4
42.5°	654.5	615.3	589.4	404.2	188.6	122.1	114.9	120.7	127.1	126.6	126.0
45°	749.1	701.8	649.0	394.7	153.5	116.0	111.8	115.7	120.4	118.5	117.7
47.5°	851.2	800.3	701.5	375.5	130.7	111.5	110.2	110.2	115.4	114.9	114.6
50°	954.7	902.4	756.6	346.0	118.2	107.6	104.6	108.2	114.3	113.2	112.7
52.5°	1057.0	1010.0	799.4	305.1	110.4	104.3	102.4	107.1	112.7	111.5	111.3
55°	1151.3	1121.0	845.3	272.6	102.4	98.5	102.4	106.3	110.7	109.6	109.6
57.5°	1248.7	1239.8	902.6	246.7	95.7	94.0	101.3	104.9	108.5	107.9	107.9
60°	1346.3	1370.8	955.2	219.2	90.4	88.7	99.0	103.2	106.3	106.0	106.0
62.5°	1440.6	1485.9	996.7	186.9	85.4	84.6	96.2	101.0	103.5	104.0	104.0
63°	1455.9	1500.7	1002.8	177.5	84.3	84.0	95.7	100.4	102.6	103.5	103.5
65°	1484.3	1536.6	1012.5	146.0	79.6	80.9	92.6	98.5	99.9	101.8	101.3
67.5°	1458.7	1502.4	983.6	112.7	73.7	76.5	87.9	94.3	95.7	98.5	97.1
70°	1401.4	1398.6	885.7	91.8	69.3	71.8	82.6	89.6	90.1	92.9	90.1
72.5°	1293.5	1195.5	697.9	77.9	64.8	67.0	77.1	83.7	84.0	85.1	82.3
75°	1081.2	929.9	419.5	67.3	59.2	60.9	70.9	76.5	77.3	75.7	74.3
77.5°	738.2	584.7	191.1	59.0	54.2	54.5	63.4	68.4	68.7	65.1	65.1
80°	355.2	274.0	79.6	52.9	49.2	48.1	55.6	59.5	59.2	55.1	53.4
82.5°	112.4	100.1	59.2	46.2	43.9	41.4	48.4	50.1	50.3	50.6	40.6
85°	44.8	46.5	45.9	38.1	37.0	31.4	38.7	40.9	40.1	33.7	28.7
87.5°	23.4	28.7	28.1	25.6	26.4	20.0	26.7	25.6	26.1	17.5	13.6
90°	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)