

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: P266268

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 2110.2 lumens
Efficiency: N/A
Efficacy: 100.5 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

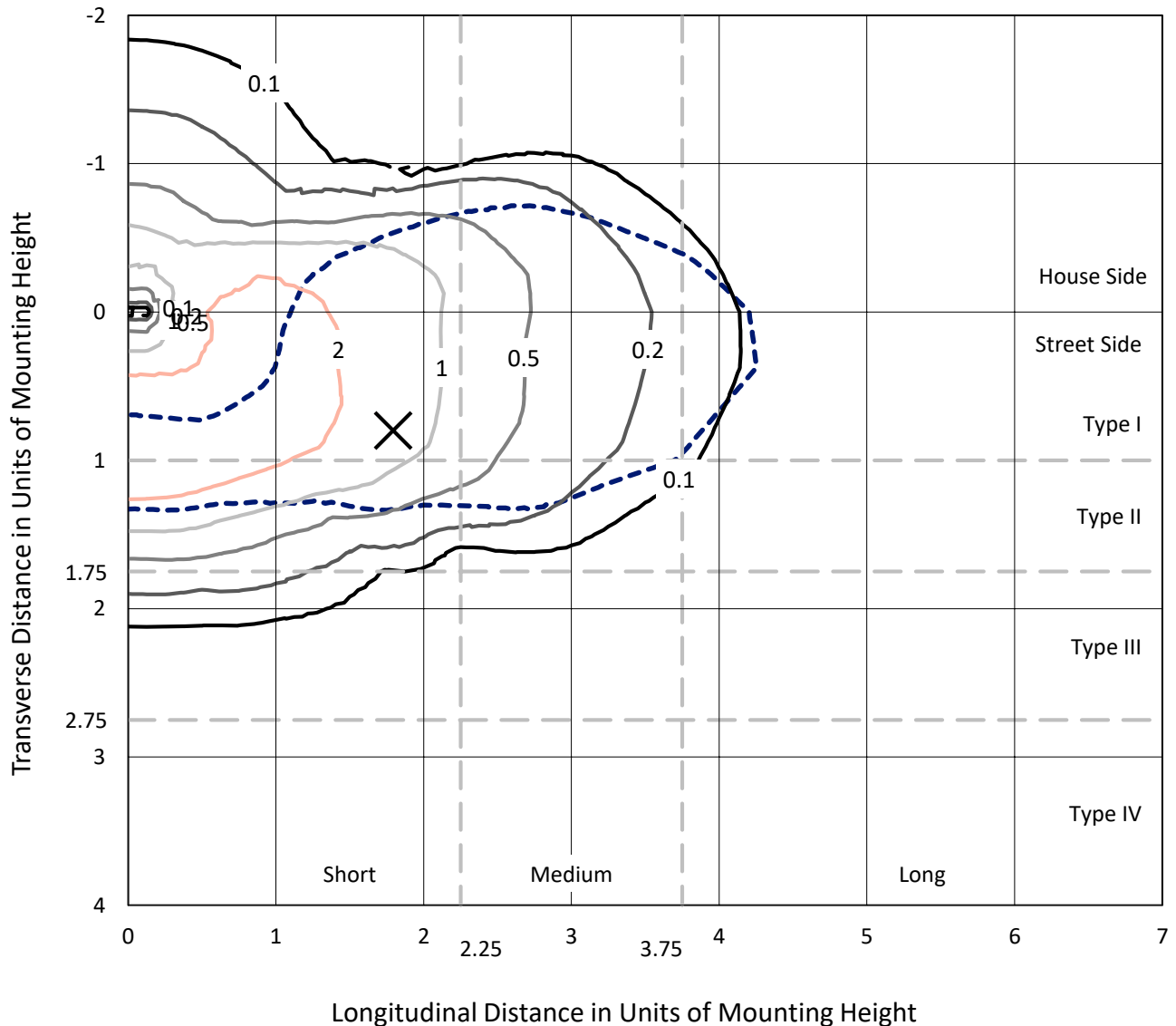
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P266268
 CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

Iso-Footcandle Lines of Horizontal Illumination

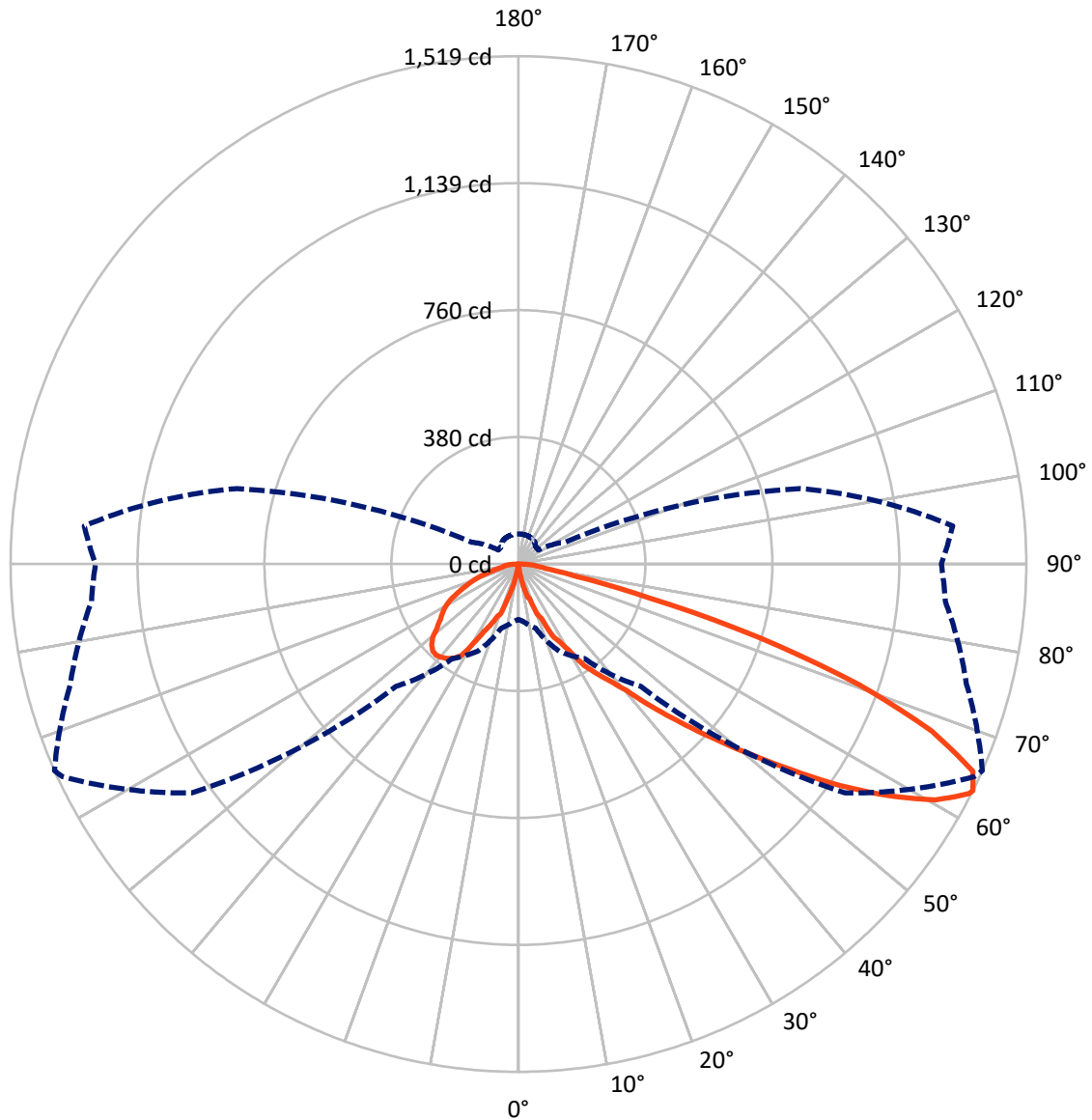
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P266268
CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P266268

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

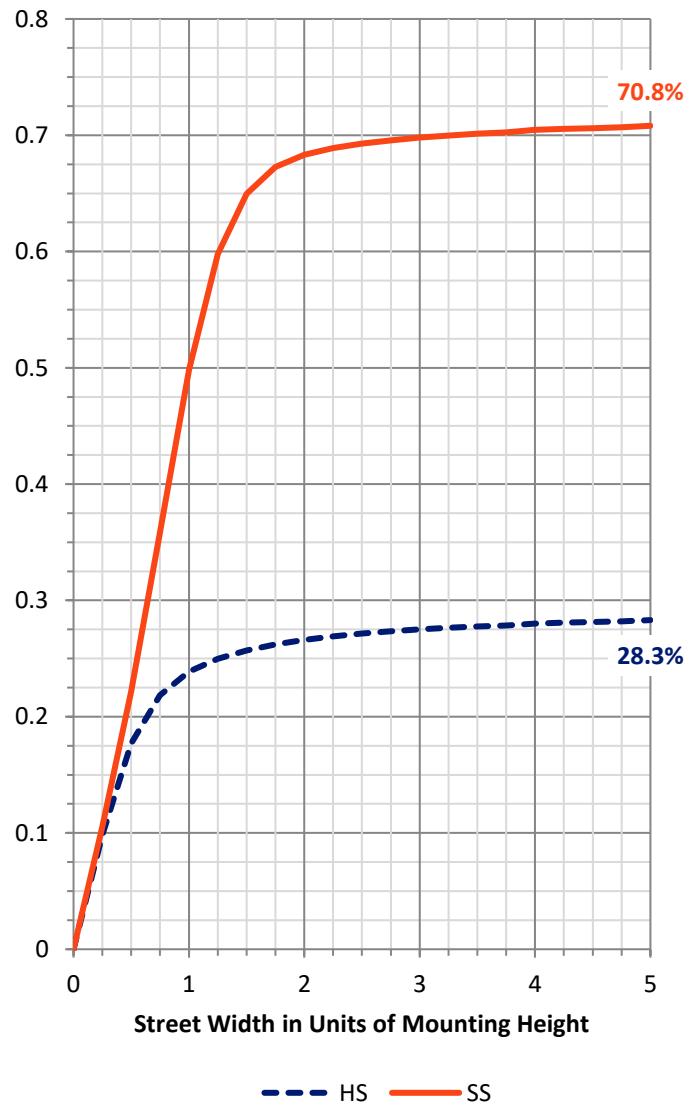
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	607.8	0.0	607.8
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	1502.4	0.0	1502.4
	% Fixture	71.2	0.0	71.2
Total	Lumens	2110.2	0.0	2110.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	27.9	1.3
20°-30°	102.4	4.9
30°-40°	233.1	11.0
40°-50°	419.8	19.9
50°-60°	548.1	26.0
60°-70°	486.9	23.1
70°-80°	247.4	11.7
80°-90°	42.5	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°	2110.2	100.0
0°-180°	2110.2	100.0



REPORT NUMBER: P266268

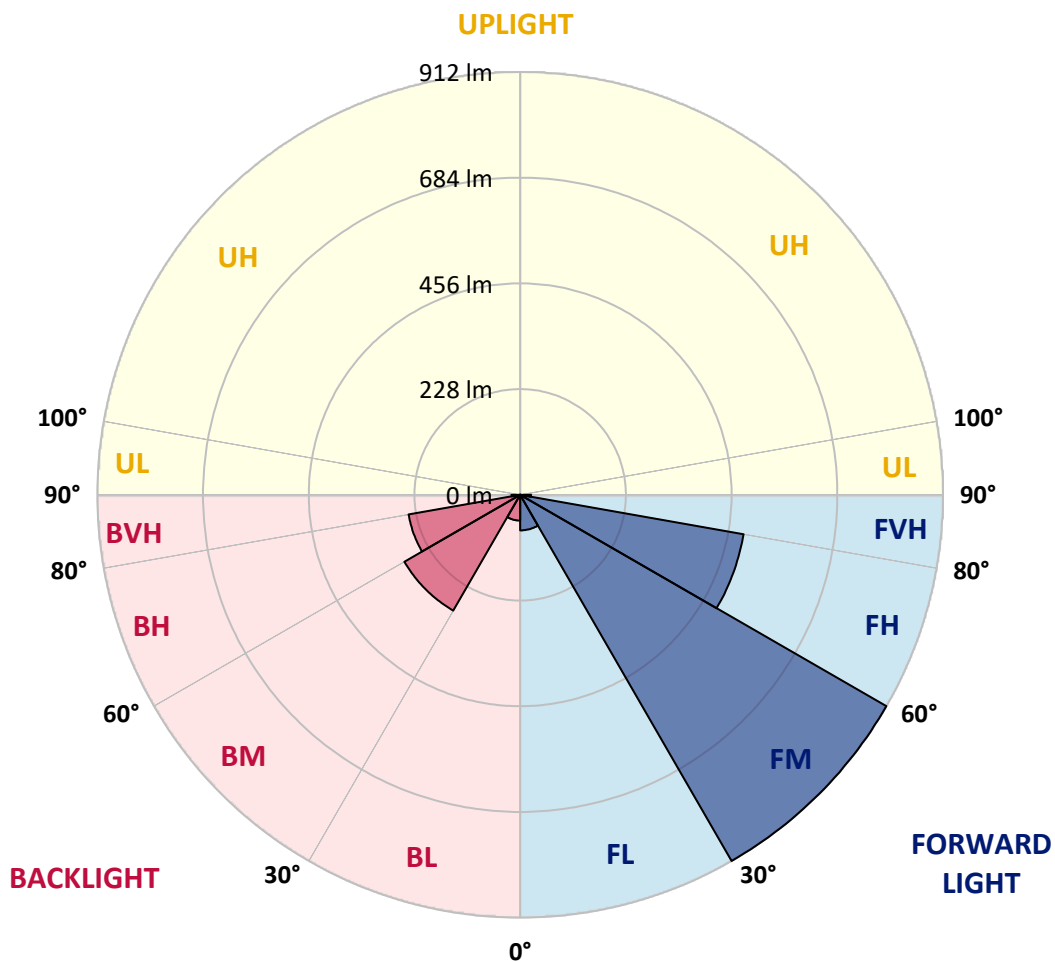
CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.7	3.6			
FM	(30°-60°)	912.5	43.2			
FH	(60°-80°)	489.7	23.2			G0/660
FVH	(80°-90°)	23.6	1.1			G1/100
BL	(0°-30°)	55.6	2.6	B0/110		
BM	(30°-60°)	288.6	13.7	B1/1000		
BH	(60°-80°)	244.6	11.6	B1/500		G1/500
BVH	(80°-90°)	18.9	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: P266268

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	5.3	5.3	4.6	3.7	3.0	2.4	1.6	1.2	1.2	0.7	0.4
5°	48.8	48.8	48.6	48.2	47.8	46.0	8.4	2.6	2.4	1.2	0.7
7.5°	49.8	49.5	49.5	49.0	48.8	47.8	47.2	18.3	15.5	2.6	1.4
10°	89.2	88.8	87.9	59.5	50.2	49.0	48.8	38.4	38.2	8.3	6.1
12.5°	93.1	93.2	92.5	91.8	89.9	56.4	53.9	69.6	70.7	81.4	63.3
15°	106.1	104.7	99.4	95.8	94.2	88.5	100.8	100.5	101.0	95.5	72.6
17.5°	150.6	150.0	148.8	139.6	103.7	132.9	127.1	108.2	109.8	125.1	125.1
20°	169.9	169.6	165.3	160.2	177.9	143.3	136.5	159.0	160.2	162.0	149.8
22.5°	255.2	254.9	244.6	188.0	199.9	179.8	180.7	181.3	176.8	174.5	187.6
25°	296.0	294.0	288.3	271.4	237.1	239.5	197.6	237.8	239.7	238.3	235.4
27.5°	417.6	417.8	369.6	320.2	291.0	269.4	271.8	263.9	263.7	259.3	270.8
30°	486.7	483.3	466.4	418.5	347.3	318.4	305.2	310.3	302.5	329.9	327.7
32.5°	649.6	649.6	591.1	485.8	418.5	394.9	354.7	356.2	361.9	358.2	363.6
35°	764.1	753.1	695.5	609.9	474.7	443.9	420.0	398.9	401.5	394.6	399.9
37.5°	885.6	874.8	811.0	701.2	573.7	519.1	474.8	448.8	442.8	443.3	447.3
40°	980.1	974.1	935.0	813.9	671.6	599.3	539.2	503.6	497.1	508.9	522.3
42.5°	1046.2	1043.7	1020.6	913.7	787.0	720.9	631.0	579.4	580.7	587.0	600.2
45°	1072.4	1066.8	1066.2	976.7	891.2	857.9	751.1	666.1	670.3	687.6	690.2
47.5°	1043.7	1032.2	1053.2	1002.9	977.7	980.0	888.3	777.7	773.4	789.7	788.3
50°	938.3	934.4	974.8	982.7	1020.6	1070.5	1038.9	902.1	889.5	890.9	881.1
52.5°	775.0	784.4	837.6	893.2	1000.4	1119.6	1173.5	1033.5	1022.7	992.0	972.9
55°	623.0	634.4	691.9	735.2	898.8	1116.2	1271.8	1165.0	1171.0	1092.2	1056.8
57.5°	456.0	470.7	547.1	583.5	736.3	1034.8	1321.9	1293.1	1307.8	1191.3	1136.4
60°	291.4	297.0	374.1	446.5	535.7	843.1	1317.0	1415.4	1432.9	1298.2	1210.6
62.5°	181.9	188.0	213.2	314.3	378.9	571.5	1223.8	1496.5	1512.7	1374.8	1272.5
63°	165.7	172.7	198.6	287.3	345.3	517.2	1192.8	1504.8	1519.0	1387.5	1281.7
65°	123.4	126.4	140.0	193.9	253.5	324.7	976.7	1476.1	1493.9	1398.4	1285.4
67.5°	107.7	109.0	113.8	127.7	181.3	189.0	569.0	1322.3	1333.4	1357.3	1239.8
70°	98.6	99.4	108.1	109.0	142.1	134.0	208.8	1038.9	1080.9	1273.9	1160.3
72.5°	85.6	86.4	96.7	106.1	110.2	106.5	112.8	701.5	752.3	1088.3	1072.9
75°	71.5	72.6	81.4	94.1	95.8	84.6	92.5	367.5	403.6	798.0	938.5
77.5°	58.7	59.5	67.5	76.1	88.3	64.9	75.2	138.5	171.5	493.0	675.6
80°	40.3	42.3	51.1	59.0	67.5	59.0	56.4	79.3	83.8	239.2	345.3
82.5°	30.7	31.3	39.6	42.9	47.6	58.2	44.2	59.6	63.2	111.4	112.1
85°	21.3	20.8	28.0	30.0	33.1	36.7	37.0	43.5	44.9	64.3	47.2
87.5°	9.6	9.3	15.2	14.7	16.7	18.1	26.3	24.0	24.4	40.3	25.4
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: P266268

CATALOG NUMBER: UTLD-AF24-20-D-U-T2U-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	0.4	0.4	0.4	0.7	0.7	0.7	0.4	0.2	0.2	0.2	0.2
5°	0.4	0.4	0.4	0.7	0.7	1.0	1.2	1.2	1.4	1.6	1.6
7.5°	1.2	1.0	1.0	1.0	1.4	2.2	5.7	25.2	43.9	46.4	47.2
10°	5.3	5.3	3.9	3.1	3.7	39.6	51.3	52.9	53.9	54.3	54.3
12.5°	65.9	73.8	68.9	37.0	39.9	49.2	54.8	56.1	57.5	69.9	72.3
15°	80.2	80.9	81.7	75.8	105.1	77.6	64.8	97.8	99.5	100.3	100.0
17.5°	121.8	124.0	114.5	102.0	111.6	115.5	94.2	103.1	104.9	106.3	106.3
20°	158.0	158.3	148.4	158.8	135.9	140.7	122.8	116.5	149.6	151.1	150.7
22.5°	194.8	197.6	163.6	169.4	178.7	149.1	155.1	138.2	145.4	145.4	145.3
25°	241.1	240.1	224.2	196.0	187.6	176.3	159.3	144.3	164.1	173.6	173.6
27.5°	285.9	272.0	233.6	225.5	215.1	185.1	157.4	165.6	160.9	162.1	162.0
30°	337.7	333.5	298.6	268.5	220.9	179.8	164.6	149.8	157.8	167.3	166.2
32.5°	363.6	353.0	311.5	324.3	231.6	173.3	143.3	140.9	143.3	146.8	147.1
35°	397.9	380.6	339.7	342.2	233.2	152.1	127.6	126.1	139.4	145.7	146.5
37.5°	442.2	421.5	387.1	350.2	218.9	134.0	113.0	121.1	125.7	128.5	127.6
40°	499.0	474.3	448.8	352.3	195.0	115.7	105.1	111.6	116.1	116.7	116.7
42.5°	568.5	534.5	512.0	351.1	163.9	106.1	99.8	104.9	110.4	110.0	109.5
45°	650.7	609.7	563.7	343.0	133.4	100.8	97.1	100.5	104.7	102.9	102.1
47.5°	739.5	695.3	609.4	326.3	113.5	96.8	95.7	95.7	100.3	99.8	99.5
50°	829.3	784.0	657.3	300.7	102.6	93.6	90.9	94.1	99.4	98.4	97.8
52.5°	918.2	877.5	694.5	265.1	95.8	90.5	88.9	93.1	97.8	96.8	96.7
55°	1000.3	973.9	734.4	236.9	88.9	85.6	88.9	92.3	96.2	95.2	95.2
57.5°	1084.8	1077.1	784.2	214.3	83.2	81.7	87.9	91.1	94.2	93.8	93.8
60°	1169.7	1190.9	829.9	190.4	78.5	77.1	86.1	89.7	92.3	92.0	92.0
62.5°	1251.5	1291.0	865.8	162.5	74.2	73.4	83.6	87.8	89.9	90.4	90.4
63°	1264.9	1303.7	871.1	154.1	73.2	73.0	83.2	87.2	89.2	89.9	89.9
65°	1289.4	1334.9	879.6	126.9	69.1	70.2	80.5	85.6	86.7	88.5	87.9
67.5°	1267.1	1305.1	854.5	97.8	64.0	66.5	76.4	81.9	83.2	85.6	84.4
70°	1217.5	1215.0	769.4	79.7	60.1	62.3	71.8	77.9	78.3	80.7	78.3
72.5°	1123.7	1038.6	606.3	67.6	56.4	58.2	67.0	72.8	73.0	73.9	71.5
75°	939.3	807.8	364.4	58.5	51.5	52.9	61.7	66.5	67.2	65.8	64.5
77.5°	641.3	507.9	165.9	51.3	47.2	47.4	55.1	59.5	59.6	56.6	56.6
80°	308.6	238.1	69.1	46.0	42.8	41.9	48.2	51.7	51.5	47.8	46.4
82.5°	97.6	87.0	51.5	40.2	38.2	36.0	42.0	43.5	43.7	43.9	35.3
85°	38.8	40.3	39.9	33.1	32.1	27.3	33.5	35.6	34.9	29.3	25.0
87.5°	20.3	25.0	24.4	22.3	22.9	17.3	23.1	22.3	22.6	15.2	11.9
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)