

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: P266005

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-20-D-U-T2U-7027
Description: DECORATIVE POST TOP 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 TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2113.1 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

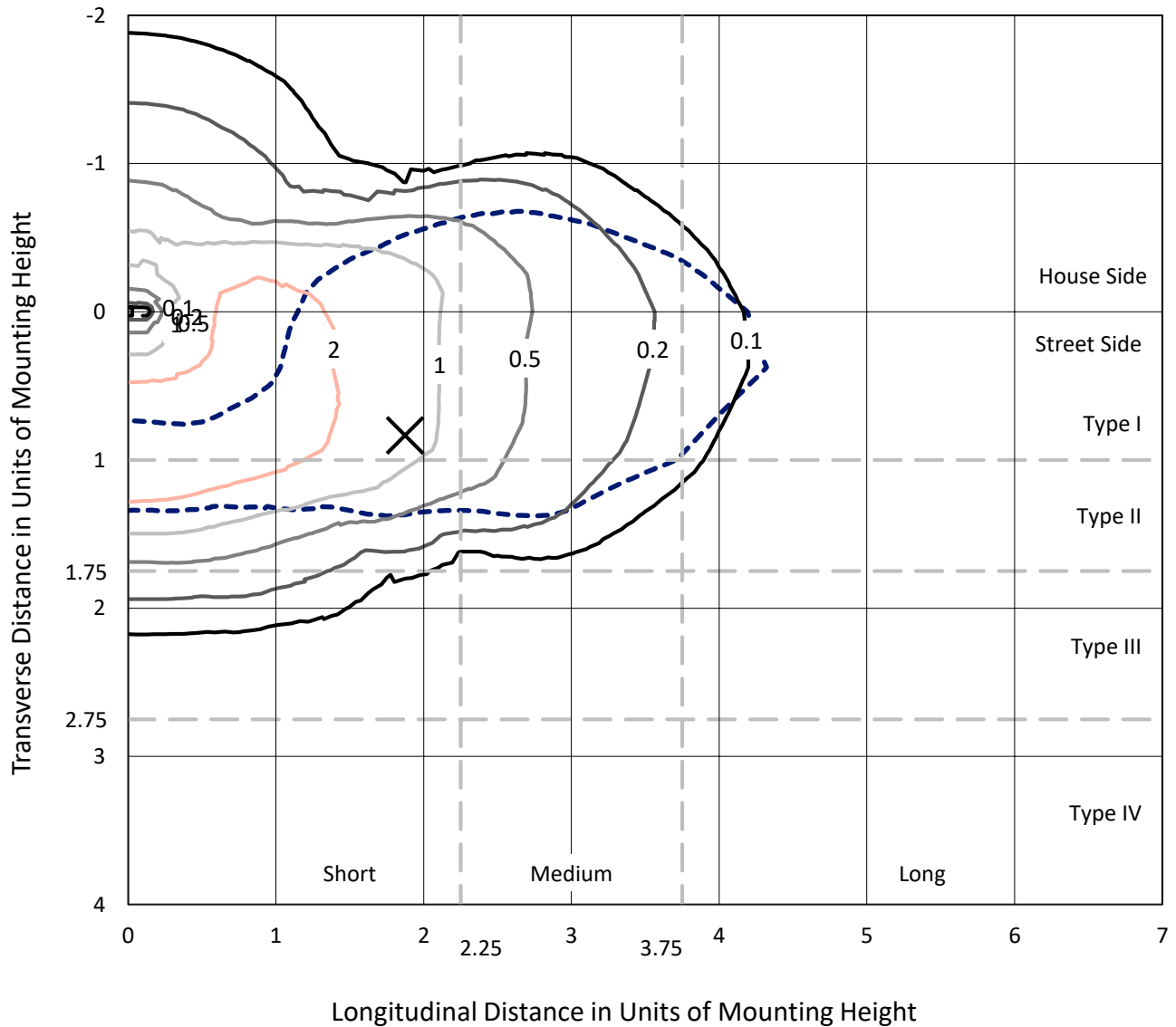
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

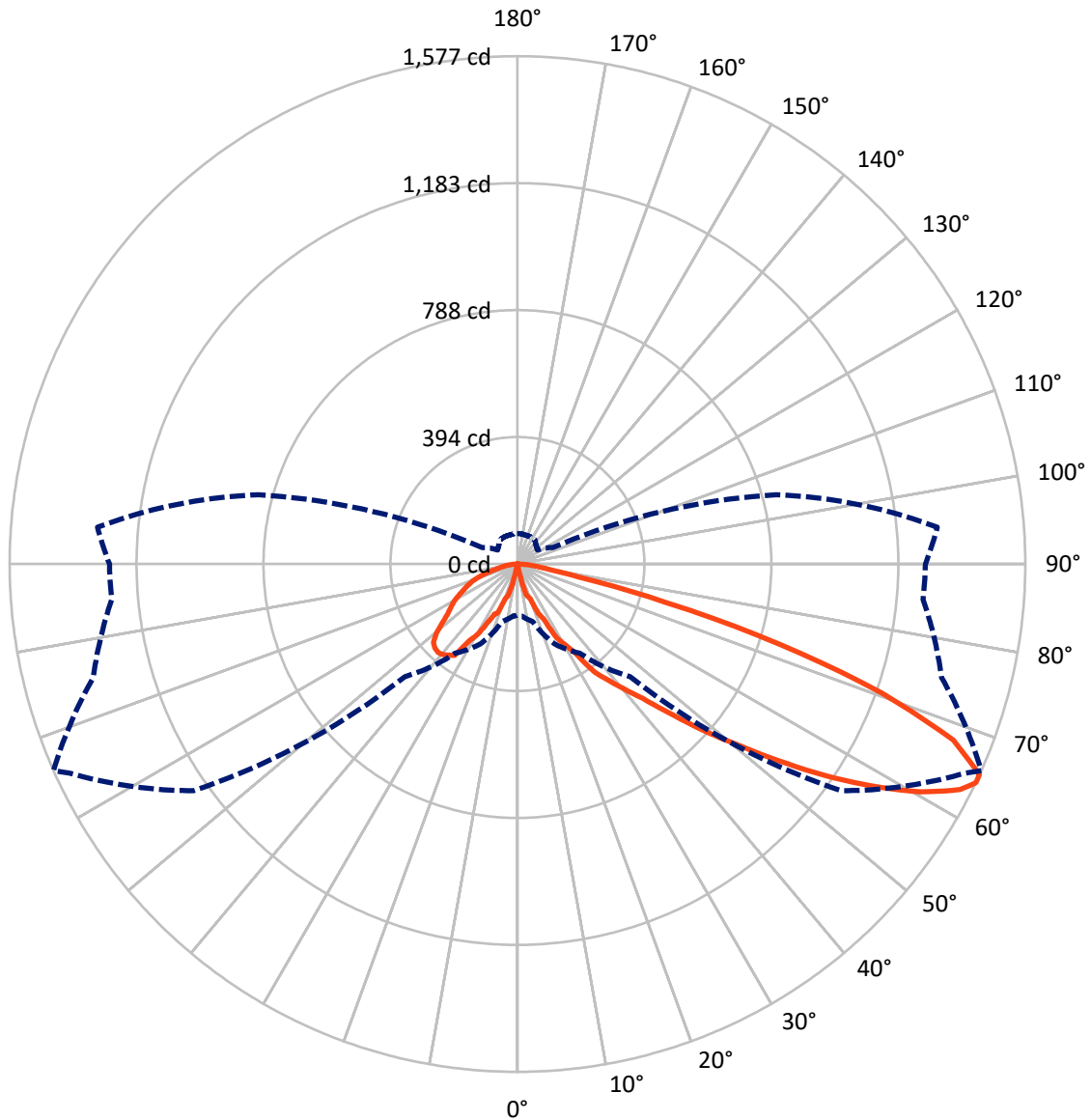
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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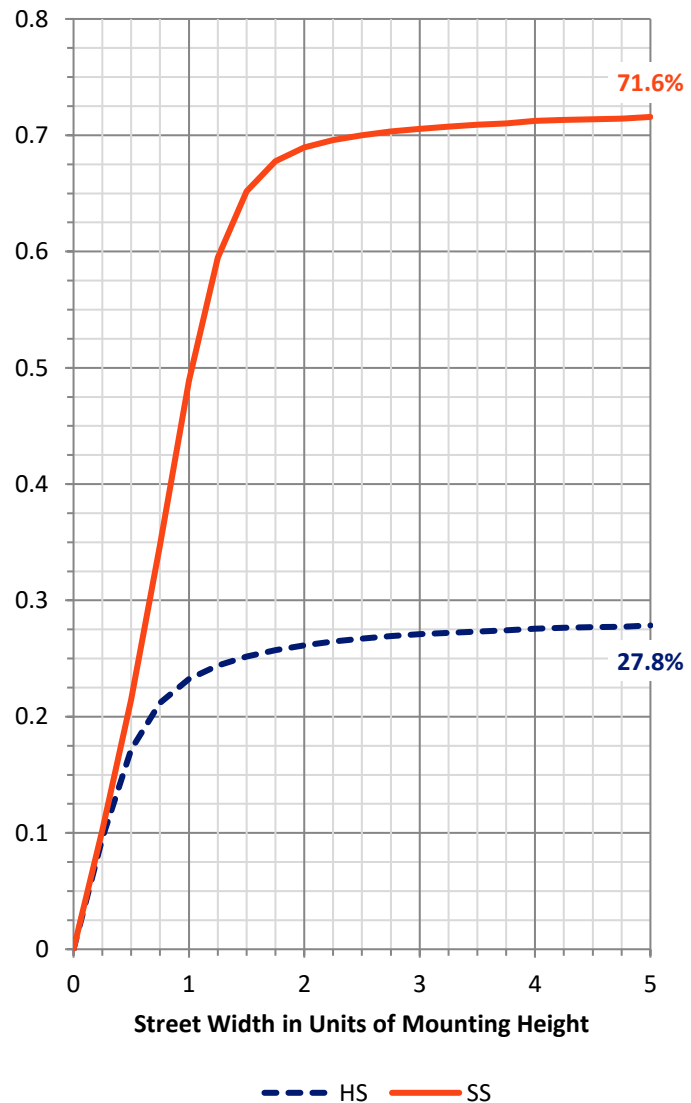
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.2	0.0	595.2
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	1518.0	0.0	1518.0
	% Fixture	71.8	0.0	71.8
Total	Lumens	2113.1	0.0	2113.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	23.3	1.1
20°-30°	90.5	4.3
30°-40°	224.0	10.6
40°-50°	421.2	19.9
50°-60°	558.8	26.4
60°-70°	503.1	23.8
70°-80°	256.9	12.2
80°-90°	33.7	1.6
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°	2113.1	100.0
0°-180°	2113.1	100.0



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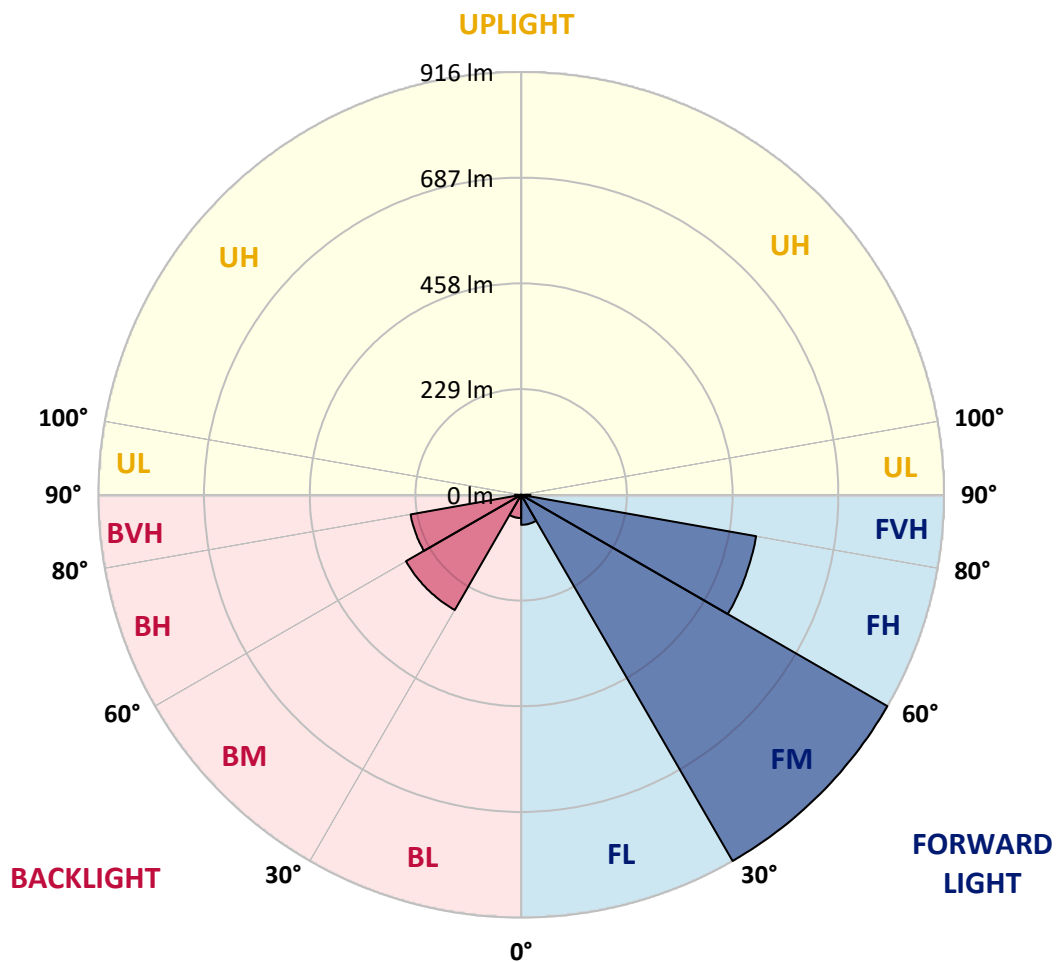
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	65.1	3.1			
FM (30°-60°)	916.0	43.3			
FH (60°-80°)	516.8	24.5			G0/660
FVH (80°-90°)	20.1	1.0			G1/100
BL (0°-30°)	50.4	2.4	B0/110		
BM (30°-60°)	288.1	13.6	B1/1000		
BH (60°-80°)	243.2	11.5	B1/500		G1/500
BVH (80°-90°)	13.5	0.6			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2.5°	1.0	0.7	1.0	1.2	1.2	1.0	0.7	0.2	0.2	0.0	0.0
5°	45.0	44.0	30.7	11.9	6.3	3.4	1.6	0.7	0.4	0.2	0.2
7.5°	47.0	47.0	47.0	47.5	46.5	45.0	7.6	1.6	1.4	0.4	0.2
10°	48.0	47.7	47.3	47.7	47.3	47.3	46.3	6.0	5.5	1.9	1.4
12.5°	90.1	89.7	86.7	56.1	49.1	49.1	49.3	40.2	40.6	12.9	33.3
15°	94.2	94.1	92.7	93.2	90.4	54.0	75.7	97.0	98.1	68.1	77.0
17.5°	104.7	103.0	99.3	98.1	96.8	110.5	106.0	105.7	105.7	79.4	83.7
20°	162.1	159.9	157.7	127.6	106.4	140.8	130.2	114.4	115.3	135.3	143.4
22.5°	186.3	184.6	181.3	174.4	181.7	151.8	159.2	166.6	167.5	176.6	163.0
25°	253.6	255.1	237.3	203.2	219.1	189.0	204.1	184.0	189.0	192.1	201.6
27.5°	328.2	323.2	317.7	289.2	249.3	265.7	224.8	240.4	259.3	261.9	245.4
30°	417.9	411.0	367.0	364.0	319.1	299.0	290.8	295.2	290.2	275.1	275.2
32.5°	527.2	523.2	503.9	445.0	403.8	342.9	354.1	323.4	326.4	357.4	362.7
35°	679.2	672.3	580.7	549.0	467.3	439.9	396.1	408.8	412.1	406.2	399.1
37.5°	853.5	847.3	775.3	646.6	564.9	502.1	488.9	466.3	457.4	458.7	461.0
40°	956.3	952.1	888.6	781.2	663.7	597.5	554.6	523.6	509.7	527.2	522.2
42.5°	1029.9	1023.8	987.2	882.6	798.4	732.5	633.9	593.2	570.7	608.2	591.3
45°	1074.2	1064.8	1046.7	951.6	908.6	885.4	740.7	674.2	657.4	685.6	673.2
47.5°	1060.7	1045.3	1056.5	1000.3	998.3	1020.7	865.2	767.7	767.2	777.3	768.0
50°	977.4	966.4	1000.1	1006.2	1053.9	1127.8	1017.3	873.0	878.7	874.9	864.1
52.5°	823.6	825.9	879.3	930.5	1049.2	1191.6	1167.8	996.8	1012.7	970.4	952.8
55°	664.0	672.3	729.6	793.7	973.1	1207.0	1298.7	1133.8	1160.3	1063.6	1036.3
57.5°	503.9	515.0	583.3	631.2	821.6	1154.0	1376.5	1262.6	1301.1	1152.3	1113.9
60°	320.8	327.5	411.7	492.2	612.9	974.7	1394.7	1393.7	1436.6	1242.4	1183.0
62.5°	207.6	211.6	247.2	354.8	426.1	680.5	1335.2	1499.2	1543.1	1330.1	1242.1
64°	159.0	162.4	185.1	273.9	338.0	494.5	1227.1	1535.4	1576.9	1363.4	1264.3
65°	138.1	140.2	157.1	223.1	287.6	387.9	1120.5	1536.3	1576.2	1373.1	1268.0
67.5°	114.9	115.5	121.8	141.3	203.2	216.2	707.2	1422.1	1459.7	1352.5	1237.7
70°	104.1	105.6	113.6	115.2	157.1	149.6	263.6	1170.2	1200.5	1297.1	1170.0
72.5°	89.7	91.4	101.9	110.5	121.5	118.7	133.3	821.9	854.0	1123.1	1093.1
75°	73.1	74.7	84.9	97.6	101.9	93.2	104.7	422.3	476.1	830.0	978.2
77.5°	58.0	59.6	67.6	76.7	91.8	71.4	83.7	161.9	193.4	515.6	727.6
80°	41.2	42.2	50.6	58.0	69.3	61.9	60.8	88.5	93.1	256.2	366.4
82.5°	25.4	26.1	33.7	38.8	46.3	61.9	43.7	60.8	62.3	107.6	112.2
85°	14.2	14.6	20.4	22.1	25.6	31.4	29.3	33.3	34.2	48.0	28.2
87.5°	1.6	2.2	4.9	5.3	4.9	5.3	5.3	4.9	5.0	4.3	2.3
90°	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°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2.5°	0.2	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
5°	0.2	0.2	0.4	0.4	0.7	0.7	1.0	1.4	1.4	1.4	1.6
7.5°	0.2	0.2	0.4	0.7	1.0	2.3	11.9	41.5	46.7	48.4	48.4
10°	1.4	1.4	1.4	1.6	4.9	46.7	52.6	54.2	54.8	54.8	55.3
12.5°	36.7	36.7	19.7	7.6	43.8	54.6	55.9	57.0	57.9	58.5	59.5
15°	77.4	77.7	75.5	74.1	78.2	59.0	59.6	96.2	100.3	101.9	102.1
17.5°	84.1	83.7	84.1	107.2	112.9	88.3	98.5	105.2	106.0	106.2	106.2
20°	151.1	150.3	119.4	113.4	115.8	146.6	106.2	106.4	119.4	138.6	144.5
22.5°	162.1	160.6	152.1	165.6	152.1	149.6	134.9	139.5	143.9	143.4	143.1
25°	204.3	200.2	167.5	171.1	192.5	151.5	162.1	134.7	137.1	137.9	138.1
27.5°	251.3	246.4	235.6	201.4	196.4	189.5	151.8	140.8	156.3	156.8	155.9
30°	268.6	262.0	246.4	252.0	210.1	178.7	145.5	148.8	140.9	140.8	140.9
32.5°	364.9	353.2	322.9	273.1	221.8	161.5	143.4	132.8	141.8	144.1	144.1
35°	399.1	383.8	357.7	342.7	212.7	156.8	125.7	128.3	128.7	128.3	128.5
37.5°	444.2	424.1	400.4	349.1	219.1	136.5	119.8	118.9	128.3	130.0	130.7
40°	496.8	477.5	455.5	354.3	196.5	125.5	114.9	118.9	121.5	122.0	122.4
42.5°	563.4	536.7	507.4	353.5	167.4	120.4	113.8	113.8	117.0	116.1	116.1
45°	639.5	605.4	556.1	344.3	138.6	115.8	111.5	109.9	111.2	109.4	109.4
47.5°	724.8	687.4	592.4	330.1	122.0	111.7	109.4	104.1	107.3	106.9	106.9
50°	815.1	776.0	626.5	298.2	111.7	108.2	103.8	102.6	106.9	106.0	105.7
52.5°	902.0	868.1	652.3	254.8	102.9	104.7	101.9	101.4	105.2	104.4	104.1
55°	985.1	965.5	684.8	218.2	95.0	98.8	101.1	101.1	103.6	102.6	102.6
57.5°	1066.2	1070.1	723.0	193.0	88.9	94.1	100.3	100.0	101.4	100.7	100.9
60°	1148.7	1173.5	761.5	169.3	84.1	88.5	98.4	97.8	98.5	98.4	98.5
62.5°	1226.8	1267.8	807.9	138.8	79.0	84.1	95.2	95.7	95.4	96.2	96.2
64°	1266.9	1308.8	831.0	121.1	75.7	81.6	92.7	93.6	93.2	94.7	94.4
65°	1282.4	1323.9	839.1	110.5	73.8	79.8	91.1	92.0	91.8	93.6	92.7
67.5°	1278.1	1306.1	829.3	91.1	68.8	75.3	86.5	88.3	87.6	89.9	88.3
70°	1232.8	1209.6	751.4	79.4	64.8	70.2	80.8	83.0	81.7	84.1	81.2
72.5°	1147.9	1043.9	584.7	68.8	60.1	65.1	74.3	76.4	75.5	76.4	73.3
75°	960.0	805.2	342.2	59.6	54.2	58.3	66.7	68.8	67.8	65.7	64.5
77.5°	667.5	509.0	135.3	52.3	48.7	51.1	56.9	58.7	57.3	53.2	52.6
80°	318.4	227.0	64.9	45.4	42.2	43.7	46.5	47.3	47.0	42.8	41.1
82.5°	97.6	74.3	44.8	36.4	34.2	33.7	36.7	35.8	35.3	32.3	25.4
85°	22.1	21.7	25.2	22.5	21.6	19.5	22.1	21.3	20.9	15.6	13.5
87.5°	0.7	1.4	1.2	3.1	3.4	2.6	4.3	4.5	3.4	1.4	0.2
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)