

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: P253977

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253977
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 2352.4 lumens
Efficiency: N/A
Efficacy: 112.0 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

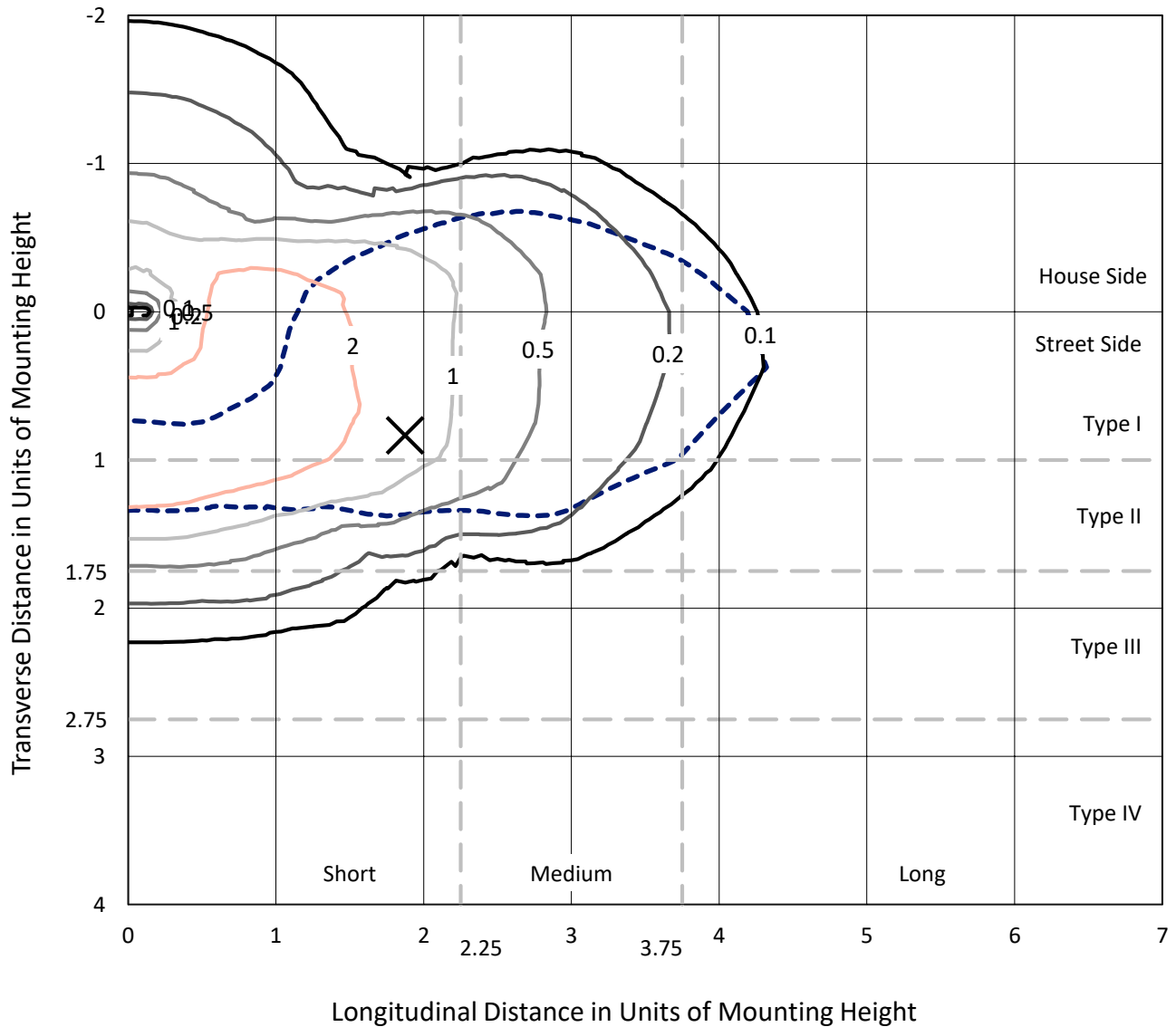
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

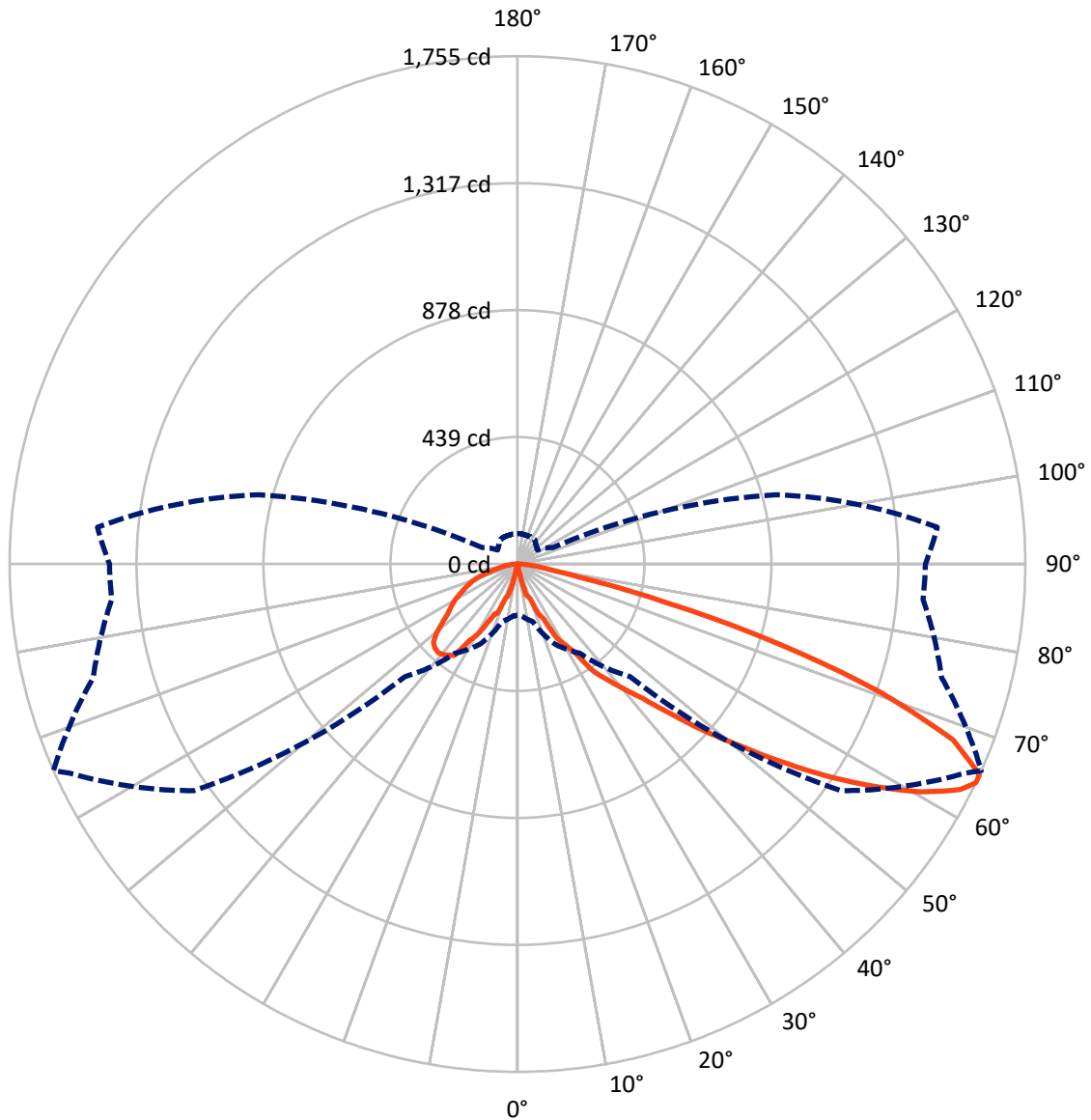
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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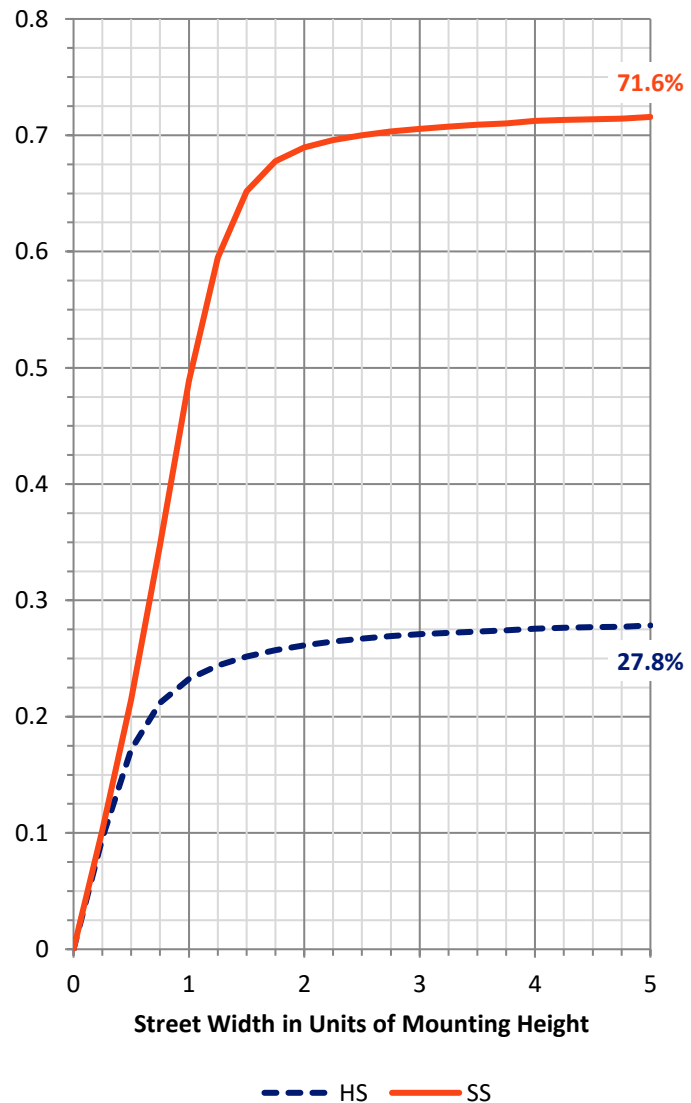
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.5	0.0	662.5
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	1689.8	0.0	1689.8
	% Fixture	71.8	0.0	71.8
Total	Lumens	2352.4	0.0	2352.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.1
10°-20°	25.9	1.1
20°-30°	100.8	4.3
30°-40°	249.3	10.6
40°-50°	468.9	19.9
50°-60°	622.1	26.4
60°-70°	560.1	23.8
70°-80°	286.0	12.2
80°-90°	37.5	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°	2352.4	100.0
0°-180°	2352.4	100.0



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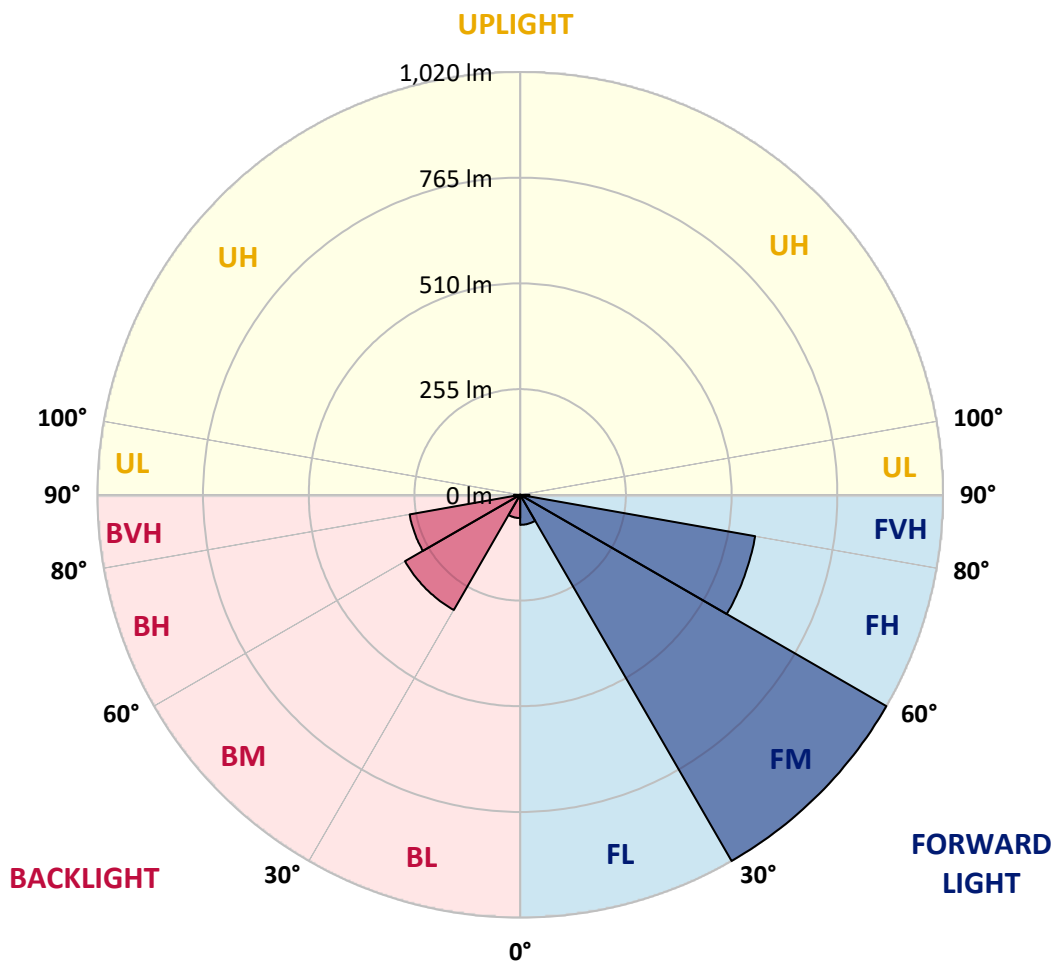
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.4	3.1			
FM (30°-60°)	1019.6	43.3			
FH (60°-80°)	575.4	24.5			G0/660
FVH (80°-90°)	22.4	1.0			G1/100
BL (0°-30°)	56.1	2.4	B0/110		
BM (30°-60°)	320.7	13.6	B1/1000		
BH (60°-80°)	270.7	11.5	B1/500		G1/500
BVH (80°-90°)	15.1	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°	1.1	0.8	1.1	1.3	1.3	1.1	0.8	0.2	0.2	0.0	0.0
5°	50.1	49.0	34.2	13.3	7.0	3.8	1.8	0.8	0.5	0.2	0.2
7.5°	52.3	52.3	52.3	52.9	51.8	50.1	8.5	1.8	1.6	0.5	0.2
10°	53.4	53.1	52.6	53.1	52.6	52.6	51.5	6.7	6.1	2.1	1.6
12.5°	100.3	99.9	96.5	62.5	54.7	54.7	54.9	44.8	45.2	14.4	37.1
15°	104.9	104.7	103.2	103.8	100.6	60.1	84.3	108.0	109.2	75.8	85.7
17.5°	116.6	114.7	110.5	109.2	107.8	123.0	118.0	117.7	117.7	88.4	93.2
20°	180.4	178.0	175.6	142.0	118.5	156.7	144.9	127.3	128.4	150.6	159.6
22.5°	207.4	205.5	201.8	194.1	202.3	169.0	177.2	185.5	186.5	196.6	181.5
25°	282.3	284.0	264.2	226.2	243.9	210.4	227.2	204.8	210.4	213.8	224.4
27.5°	365.4	359.8	353.7	321.9	277.5	295.8	250.3	267.6	288.6	291.5	273.2
30°	465.2	457.5	408.6	405.2	355.2	332.8	323.7	328.6	323.0	306.2	306.4
32.5°	586.9	582.4	561.0	495.4	449.5	381.7	394.2	360.0	363.3	397.9	403.8
35°	756.1	748.4	646.4	611.2	520.2	489.7	440.9	455.1	458.8	452.2	444.3
37.5°	950.1	943.2	863.1	719.8	628.8	558.9	544.2	519.1	509.2	510.6	513.2
40°	1064.6	1059.9	989.2	869.6	738.8	665.1	617.4	582.9	567.4	586.9	581.3
42.5°	1146.5	1139.7	1099.0	982.5	888.8	815.4	705.7	660.3	635.3	677.1	658.2
45°	1195.8	1185.3	1165.2	1059.3	1011.5	985.6	824.5	750.5	731.8	763.2	749.4
47.5°	1180.8	1163.6	1176.1	1113.5	1111.3	1136.2	963.2	854.6	854.1	865.3	854.9
50°	1088.1	1075.8	1113.3	1120.1	1173.2	1255.5	1132.5	971.8	978.2	973.9	961.9
52.5°	916.8	919.4	978.8	1035.8	1168.0	1326.5	1300.0	1109.7	1127.3	1080.3	1060.7
55°	739.2	748.4	812.2	883.5	1083.3	1343.6	1445.7	1262.2	1291.6	1184.0	1153.6
57.5°	561.0	573.3	649.3	702.7	914.6	1284.6	1532.3	1405.5	1448.4	1282.7	1240.0
60°	357.1	364.6	458.3	547.9	682.3	1085.0	1552.6	1551.5	1599.2	1383.0	1316.9
62.5°	231.1	235.5	275.2	395.0	474.3	757.5	1486.4	1668.9	1717.8	1480.7	1382.7
64°	177.0	180.8	206.1	304.9	376.3	550.5	1366.0	1709.2	1755.4	1517.8	1407.4
65°	153.7	156.1	174.9	248.4	320.2	431.8	1247.4	1710.2	1754.6	1528.5	1411.6
67.5°	127.9	128.6	135.6	157.3	226.2	240.7	787.3	1583.1	1624.9	1505.6	1377.8
70°	115.9	117.5	126.5	128.2	174.9	166.5	293.4	1302.7	1336.4	1443.9	1302.5
72.5°	99.9	101.7	113.4	123.0	135.3	132.1	148.4	914.9	950.7	1250.2	1216.8
75°	81.4	83.2	94.5	108.6	113.4	103.8	116.6	470.1	530.0	924.0	1088.9
77.5°	64.6	66.4	75.3	85.4	102.2	79.5	93.2	180.2	215.3	574.0	810.0
80°	45.9	47.0	56.3	64.6	77.1	68.9	67.7	98.5	103.6	285.2	407.9
82.5°	28.3	29.1	37.5	43.2	51.5	68.9	48.6	67.7	69.4	119.8	124.9
85°	15.8	16.3	22.7	24.6	28.5	35.0	32.6	37.1	38.1	53.4	31.4
87.5°	1.8	2.4	5.4	5.9	5.4	5.9	5.9	5.4	5.6	4.8	2.6
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	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
5°	0.2	0.2	0.5	0.5	0.8	0.8	1.1	1.6	1.6	1.6	1.8
7.5°	0.2	0.2	0.5	0.8	1.1	2.6	13.3	46.2	52.0	53.9	53.9
10°	1.6	1.6	1.6	1.8	5.4	52.0	58.5	60.3	61.0	61.0	61.6
12.5°	40.9	40.9	21.9	8.5	48.8	60.8	62.2	63.5	64.4	65.1	66.2
15°	86.2	86.5	84.0	82.5	87.0	65.7	66.4	107.1	111.6	113.4	113.7
17.5°	93.6	93.2	93.6	119.3	125.7	98.3	109.7	117.1	118.0	118.2	118.2
20°	168.2	167.3	132.9	126.2	128.9	163.2	118.2	118.5	132.9	154.3	160.9
22.5°	180.4	178.8	169.3	184.4	169.3	166.5	150.2	155.3	160.2	159.6	159.3
25°	227.4	222.9	186.5	190.5	214.3	168.7	180.4	150.0	152.6	153.5	153.7
27.5°	279.7	274.3	262.3	224.2	218.6	210.9	169.0	156.7	174.0	174.6	173.5
30°	299.0	291.7	274.3	280.5	233.9	198.9	162.0	165.7	156.9	156.7	156.9
32.5°	406.2	393.2	359.5	304.0	246.9	179.8	159.6	147.8	157.8	160.4	160.4
35°	444.3	427.3	398.2	381.5	236.8	174.6	139.9	142.8	143.3	142.8	143.0
37.5°	494.5	472.1	445.7	388.6	243.9	151.9	133.4	132.4	142.8	144.7	145.5
40°	553.0	531.6	507.1	394.4	218.8	139.7	127.9	132.4	135.3	135.8	136.3
42.5°	627.2	597.5	564.8	393.5	186.3	134.0	126.7	126.7	130.2	129.2	129.2
45°	711.9	673.9	619.0	383.3	154.3	128.9	124.1	122.3	123.8	121.8	121.8
47.5°	806.8	765.2	659.5	367.5	135.8	124.3	121.8	115.9	119.5	119.0	119.0
50°	907.4	863.9	697.4	332.0	124.3	120.4	115.6	114.2	119.0	118.0	117.7
52.5°	1004.1	966.4	726.2	283.7	114.5	116.6	113.4	112.9	117.1	116.2	115.9
55°	1096.6	1074.8	762.3	242.9	105.7	110.0	112.6	112.6	115.3	114.2	114.2
57.5°	1186.9	1191.2	804.9	214.8	99.0	104.7	111.6	111.3	112.9	112.1	112.3
60°	1278.7	1306.4	847.7	188.5	93.6	98.5	109.5	108.9	109.7	109.5	109.7
62.5°	1365.7	1411.3	899.4	154.5	87.9	93.6	106.0	106.5	106.2	107.1	107.1
64°	1410.3	1457.0	925.1	134.8	84.3	90.8	103.2	104.2	103.8	105.4	105.1
65°	1427.6	1473.8	934.1	123.0	82.2	88.8	101.4	102.4	102.2	104.2	103.2
67.5°	1422.8	1454.0	923.2	101.4	76.6	83.8	96.3	98.3	97.5	100.1	98.3
70°	1372.4	1346.5	836.5	88.4	72.1	78.2	89.9	92.4	91.0	93.6	90.4
72.5°	1277.9	1162.1	650.9	76.6	66.9	72.5	82.7	85.1	84.0	85.1	81.6
75°	1068.7	896.3	380.9	66.4	60.3	64.9	74.2	76.6	75.5	73.1	71.8
77.5°	743.1	566.6	150.6	58.2	54.2	56.9	63.3	65.3	63.8	59.2	58.5
80°	354.4	252.7	72.3	50.5	47.0	48.6	51.8	52.6	52.3	47.7	45.7
82.5°	108.6	82.7	49.9	40.5	38.1	37.5	40.9	39.8	39.3	36.0	28.3
85°	24.6	24.2	28.0	25.1	24.0	21.7	24.6	23.7	23.3	17.4	15.0
87.5°	0.8	1.6	1.3	3.5	3.8	2.9	4.8	5.0	3.8	1.6	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)