

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: P253989

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253989
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-AF24-50-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 670mA 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: 5830.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 54
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

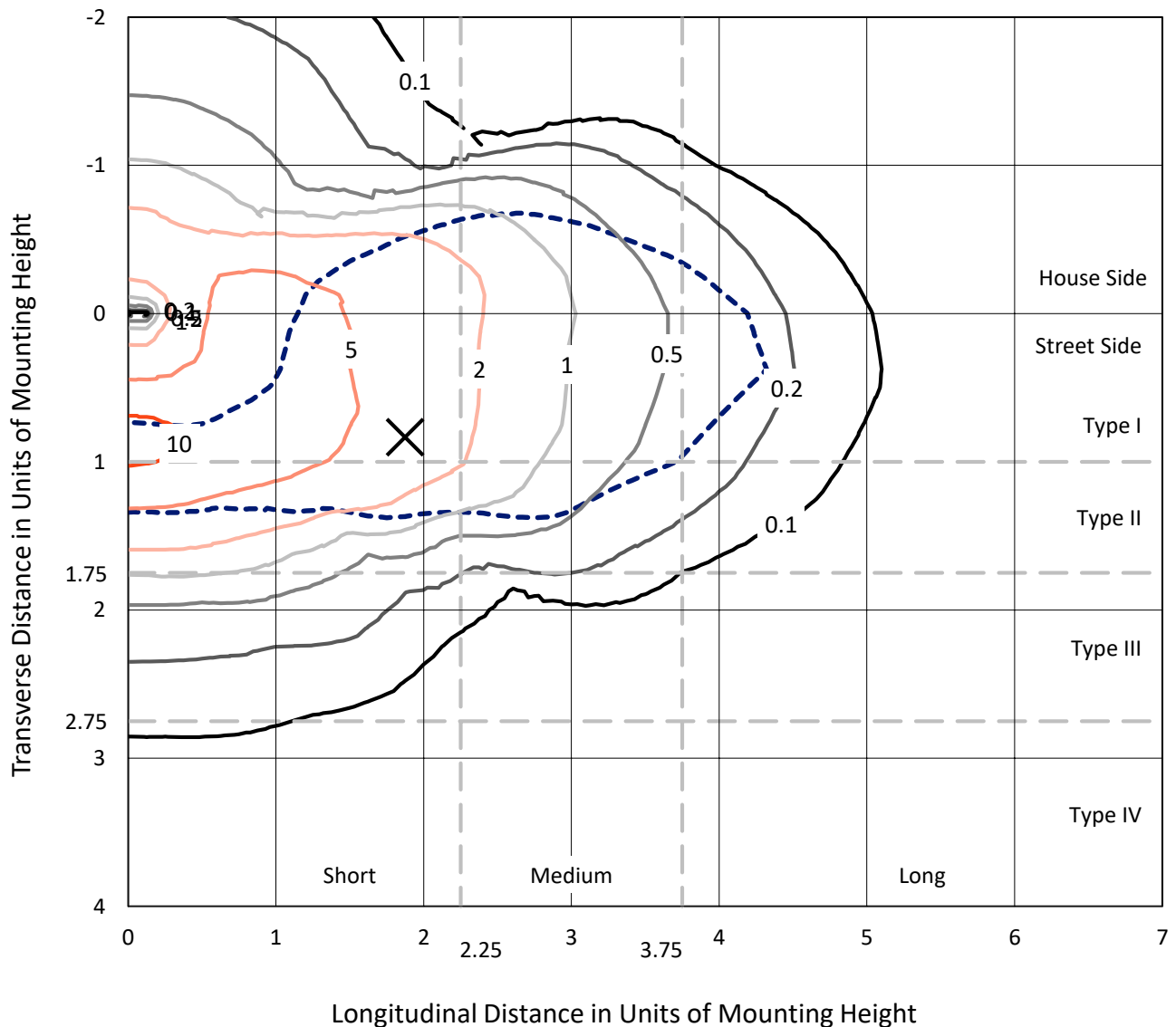


REPORT NUMBER: P253989

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

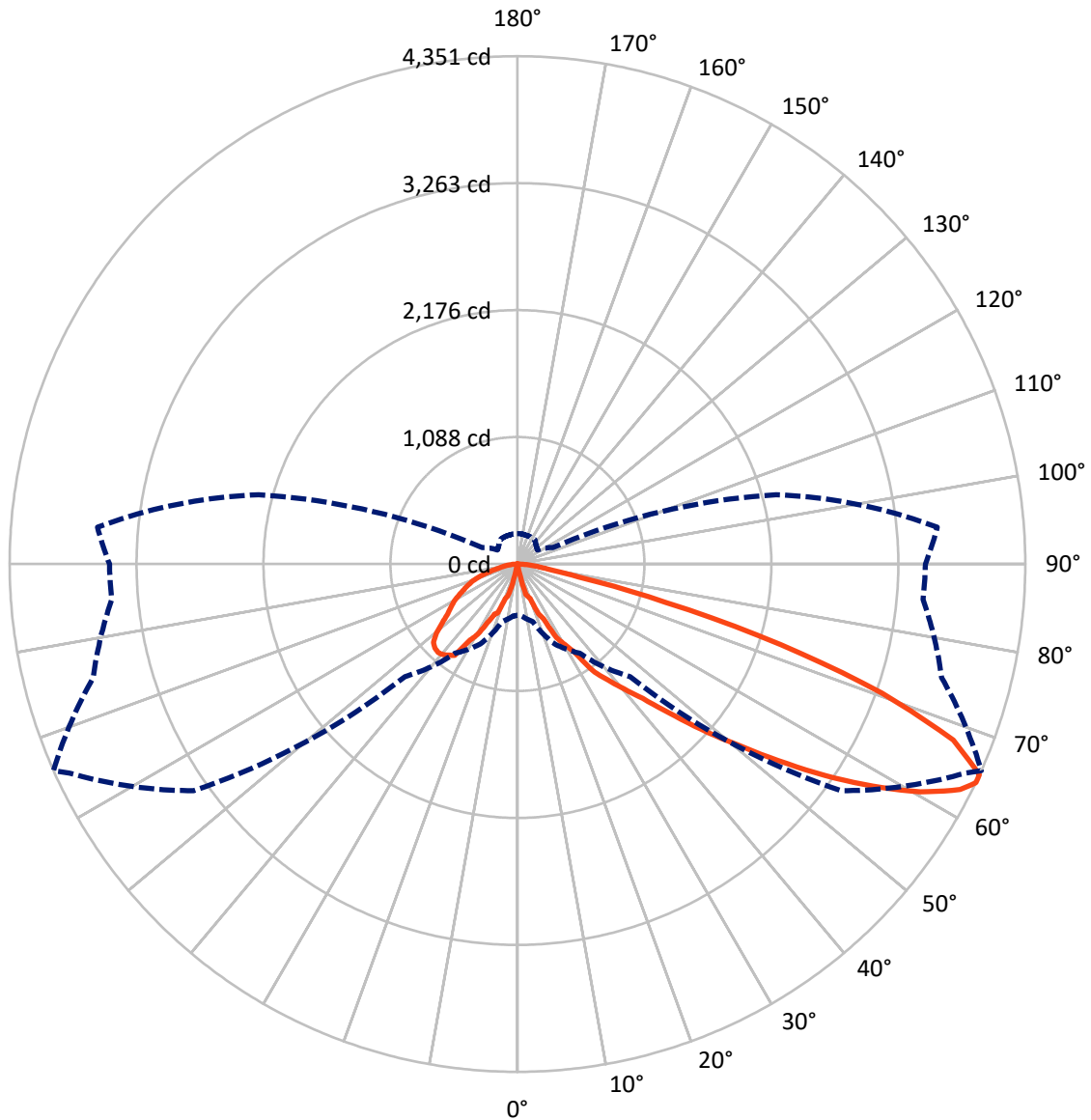


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P253989

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U

Luminous Intensity Polar Plot



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



REPORT NUMBER: P253989

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U

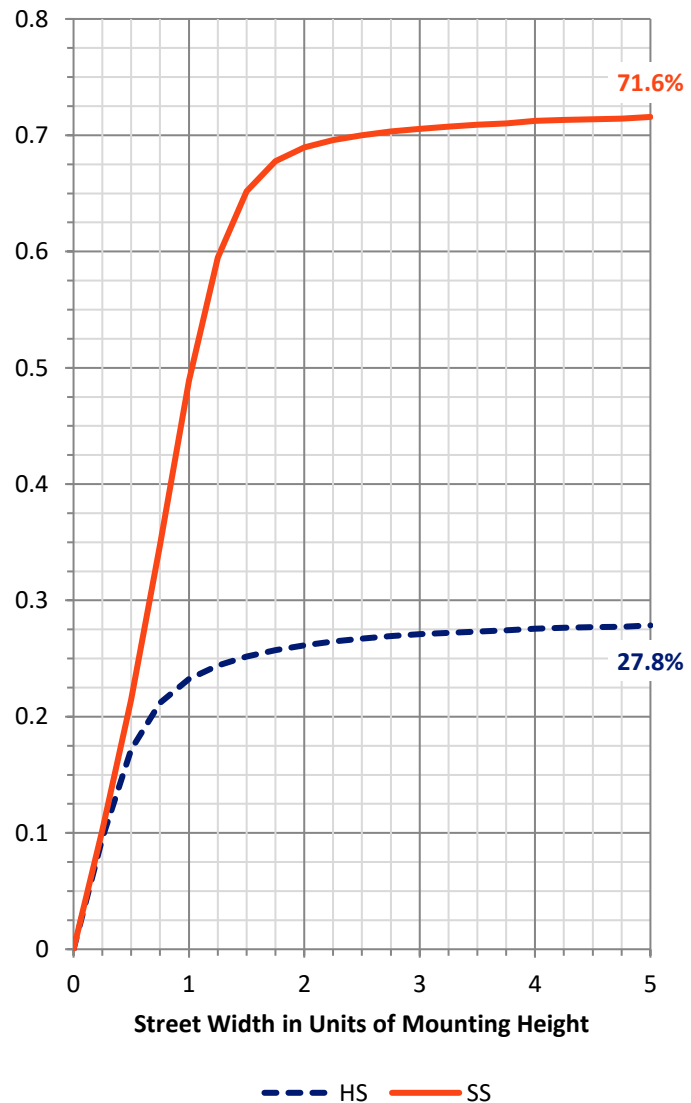
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.3	0.0	1642.3
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	4188.6	0.0	4188.6
	% Fixture	71.8	0.0	71.8
Total	Lumens	5830.8	0.0	5830.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	64.3	1.1
20°-30°	249.8	4.3
30°-40°	617.9	10.6
40°-50°	1162.3	19.9
50°-60°	1542.0	26.4
60°-70°	1388.2	23.8
70°-80°	708.9	12.2
80°-90°	92.9	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°	5830.8	100.0
0°-180°	5830.8	100.0



REPORT NUMBER: P253989

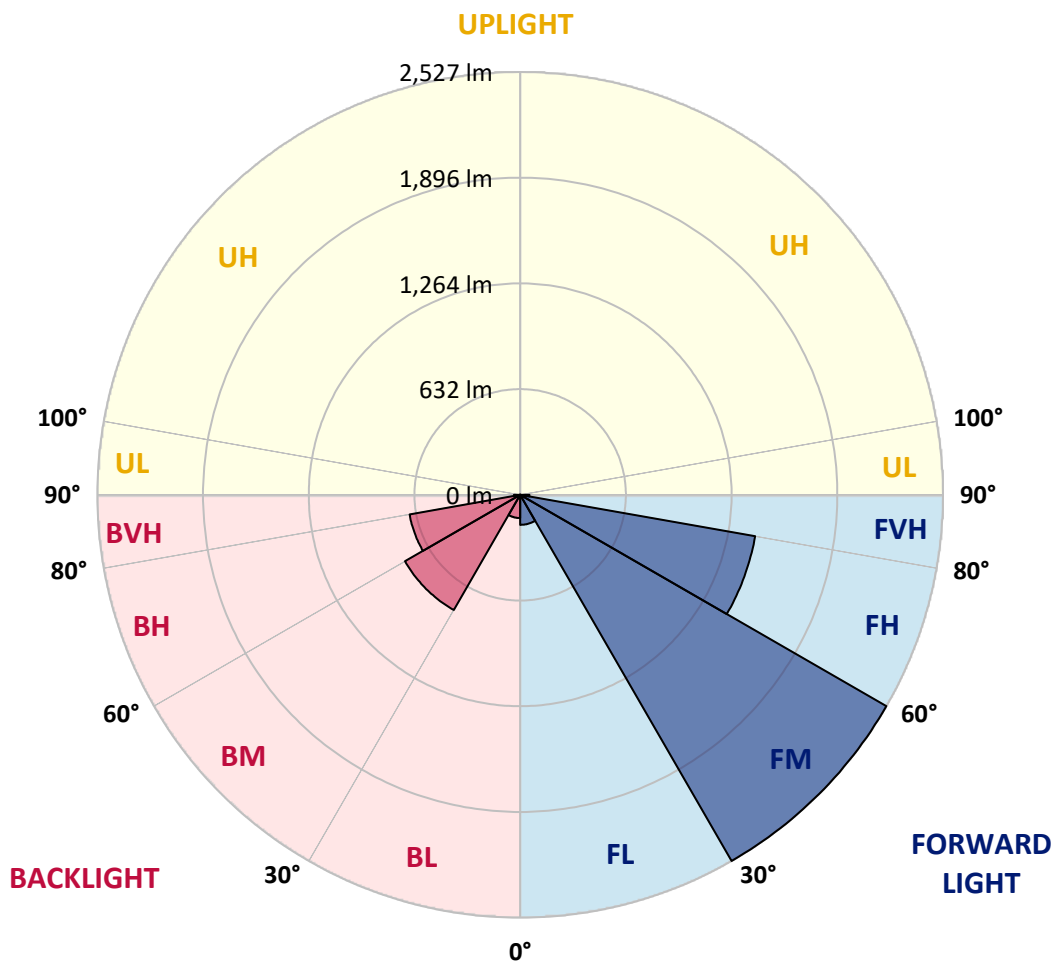
CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.5	3.1			
FM	(30°-60°)	2527.4	43.3			
FH	(60°-80°)	1426.1	24.5			G1/1800
FVH	(80°-90°)	55.5	1.0			G1/100
BL	(0°-30°)	139.0	2.4	B1/500		
BM	(30°-60°)	794.9	13.6	B1/1000		
BH	(60°-80°)	671.0	11.5	B2/1000		G2/1000
BVH	(80°-90°)	37.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P253989

CATALOG NUMBER: LXF.LXT-AF24-50-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°	2.7	1.9	2.7	3.3	3.3	2.7	1.9	0.6	0.6	0.0	0.0
5°	124.4	121.7	84.7	33.0	17.2	9.3	4.6	1.9	1.3	0.6	0.6
7.5°	129.7	129.7	129.7	130.9	128.4	124.4	21.2	4.6	4.0	1.3	0.6
10°	132.3	131.7	130.3	131.7	130.3	130.3	127.7	16.6	15.2	5.3	4.0
12.5°	248.8	247.5	239.5	154.8	135.6	135.6	136.3	111.1	111.8	35.7	92.0
15°	260.0	259.3	256.0	257.4	249.4	148.8	209.1	267.9	270.6	187.9	212.4
17.5°	289.1	284.5	273.8	270.6	267.3	304.9	292.4	291.7	291.7	219.0	230.9
20°	447.2	441.3	435.3	352.0	293.7	388.3	359.3	315.6	318.2	373.1	395.6
22.5°	514.0	509.4	500.1	481.0	501.5	418.8	439.3	459.8	462.5	487.5	449.9
25°	699.9	703.9	654.9	561.0	604.7	521.3	563.0	507.4	521.3	529.9	556.4
27.5°	905.7	891.8	876.6	797.8	688.0	733.0	620.5	663.6	715.1	722.4	677.4
30°	1153.1	1133.9	1012.8	1004.2	880.6	825.0	802.5	814.4	800.5	758.8	759.4
32.5°	1454.7	1443.5	1390.6	1227.8	1114.1	946.0	977.1	892.4	900.4	986.4	1001.0
35°	1874.1	1855.0	1602.2	1515.0	1289.3	1213.9	1092.9	1127.9	1137.2	1120.6	1101.5
37.5°	2355.1	2338.0	2139.5	1784.2	1558.7	1385.3	1349.0	1286.8	1262.2	1265.6	1272.1
40°	2638.9	2627.0	2451.7	2155.4	1831.2	1648.6	1530.2	1444.8	1406.5	1454.7	1440.8
42.5°	2842.1	2824.9	2724.3	2435.2	2203.0	2021.0	1749.1	1636.7	1574.5	1678.4	1631.4
45°	2963.8	2938.0	2888.4	2625.7	2507.3	2443.1	2043.5	1860.3	1814.0	1892.0	1857.7
47.5°	2926.8	2884.4	2915.5	2760.0	2754.7	2816.3	2387.6	2118.3	2117.0	2144.7	2118.9
50°	2697.2	2666.7	2759.3	2776.6	2908.2	3111.9	2807.0	2408.7	2424.6	2414.1	2384.3
52.5°	2272.5	2279.0	2425.9	2567.5	2895.0	3288.0	3222.4	2750.7	2794.4	2678.0	2629.0
55°	1832.5	1855.0	2013.2	2189.7	2685.2	3330.3	3583.7	3128.5	3201.3	2934.6	2859.2
57.5°	1390.6	1421.0	1609.6	1741.9	2267.2	3184.0	3798.0	3483.8	3590.3	3179.4	3073.6
60°	885.2	903.7	1135.9	1358.2	1690.9	2689.2	3848.2	3845.7	3964.0	3428.2	3264.1
62.5°	573.0	583.5	682.1	979.1	1175.6	1877.5	3684.3	4136.7	4257.8	3670.3	3427.5
64°	438.6	447.8	510.8	755.4	932.8	1364.8	3385.9	4236.7	4351.0	3762.3	3488.4
65°	381.0	387.0	433.3	615.9	793.9	1070.4	3092.1	4239.2	4349.1	3788.7	3499.0
67.5°	316.9	318.9	336.0	389.6	561.0	596.7	1951.6	3924.3	4027.6	3731.8	3414.9
70°	287.1	291.1	313.5	317.5	433.3	412.8	727.0	3229.0	3312.4	3579.0	3228.4
72.5°	247.5	252.1	281.2	304.9	335.4	327.4	367.9	2267.8	2356.5	3098.7	3016.1
75°	201.7	206.4	234.2	269.2	281.2	257.4	289.1	1165.0	1313.9	2290.3	2699.2
77.5°	160.1	164.7	186.6	211.6	253.4	197.1	230.9	446.5	533.9	1423.0	2007.8
80°	113.8	116.4	139.6	160.1	191.2	170.7	168.1	244.1	256.7	707.2	1010.9
82.5°	70.2	72.1	93.3	107.2	127.7	170.7	120.4	168.1	172.0	297.1	309.6
85°	39.1	40.3	56.3	60.9	70.8	86.6	80.7	92.0	94.6	132.3	78.1
87.5°	4.6	5.9	13.2	14.5	13.2	14.5	14.5	13.2	13.9	11.9	6.6
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: P253989

CATALOG NUMBER: LXF.LXT-AF24-50-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	1.3	1.3	0.6	0.0	0.0	0.0	0.0	0.0
5°	0.6	0.6	1.3	1.3	1.9	1.9	2.7	4.0	4.0	4.0	4.6
7.5°	0.6	0.6	1.3	1.9	2.7	6.6	33.0	114.5	129.0	133.6	133.6
10°	4.0	4.0	4.0	4.6	13.2	129.0	144.8	149.6	151.5	151.5	152.8
12.5°	101.2	101.2	54.2	21.2	121.0	150.9	154.2	157.4	159.5	161.4	164.1
15°	213.7	214.3	208.4	204.4	215.6	162.8	164.7	265.3	276.5	281.2	281.8
17.5°	232.2	230.9	232.2	295.7	311.6	243.5	271.9	290.4	292.4	293.1	293.1
20°	416.8	414.8	329.5	312.9	319.6	404.2	293.1	293.7	329.5	382.4	399.0
22.5°	447.2	443.2	419.4	457.2	419.4	412.8	372.5	385.0	396.9	395.6	395.0
25°	563.6	552.4	462.5	472.4	531.2	418.1	447.2	371.8	378.4	380.4	381.0
27.5°	693.4	680.1	650.3	555.7	541.9	522.6	418.8	388.3	431.4	432.7	430.0
30°	740.9	723.1	680.1	695.3	579.5	492.9	401.6	410.8	389.0	388.3	389.0
32.5°	1006.9	974.5	891.1	753.5	611.9	445.9	395.6	366.5	391.0	397.6	397.6
35°	1101.5	1059.2	987.0	945.4	586.8	432.7	346.7	353.9	355.3	353.9	354.6
37.5°	1225.9	1170.3	1104.8	963.2	604.7	376.4	330.8	328.2	353.9	358.5	360.6
40°	1370.8	1317.9	1257.0	977.7	542.5	346.0	316.9	328.2	335.4	336.8	338.1
42.5°	1554.7	1481.2	1399.8	975.2	461.8	332.2	314.3	314.3	322.8	320.2	320.2
45°	1764.4	1670.5	1534.1	950.0	382.4	319.6	307.6	303.0	307.0	301.7	301.7
47.5°	1999.9	1896.7	1634.7	910.9	336.8	308.3	301.7	287.1	296.3	295.0	295.0
50°	2249.3	2141.4	1728.7	823.0	308.3	298.4	286.4	283.2	295.0	292.4	291.7
52.5°	2488.7	2395.5	1800.1	703.3	283.8	289.1	281.2	279.9	290.4	287.8	287.1
55°	2718.4	2664.1	1889.4	602.0	262.0	272.5	279.2	279.2	285.8	283.2	283.2
57.5°	2941.9	2952.5	1995.3	532.5	245.4	259.3	276.5	275.9	279.9	277.8	278.5
60°	3169.5	3238.4	2101.1	467.1	232.2	244.1	271.3	270.0	271.9	271.3	271.9
62.5°	3385.1	3498.3	2229.4	383.0	217.7	232.2	262.6	263.9	263.3	265.3	265.3
64°	3495.6	3611.4	2292.9	334.1	209.1	224.9	256.0	258.0	257.4	261.4	260.6
65°	3538.7	3653.2	2315.4	304.9	203.8	220.3	251.4	254.0	253.4	258.0	256.0
67.5°	3526.7	3604.2	2288.3	251.4	189.9	207.8	238.9	243.5	241.5	248.1	243.5
70°	3401.7	3337.6	2073.3	219.0	178.6	193.8	222.9	228.9	225.6	232.2	224.2
72.5°	3167.6	2880.4	1613.5	189.9	166.0	179.9	205.1	211.0	208.4	211.0	202.4
75°	2648.8	2221.5	944.1	164.7	149.6	160.8	183.9	189.9	187.2	181.3	178.0
77.5°	1841.8	1404.5	373.1	144.2	134.3	141.0	156.8	162.0	158.1	146.9	144.8
80°	878.5	626.5	179.3	125.0	116.4	120.4	128.4	130.3	129.7	118.5	113.1
82.5°	269.2	205.1	123.7	100.6	94.6	93.3	101.2	98.6	97.3	89.3	70.2
85°	60.9	60.3	69.5	62.2	59.5	53.6	60.9	58.9	57.6	43.0	37.0
87.5°	1.9	4.0	3.3	8.6	9.3	7.3	11.9	12.6	9.3	4.0	0.6
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)