

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: P416655

Luminaire Tested: **LXF.LXT-PA1-80-727-U-T2R**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-80-727-U-T2R  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7623 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

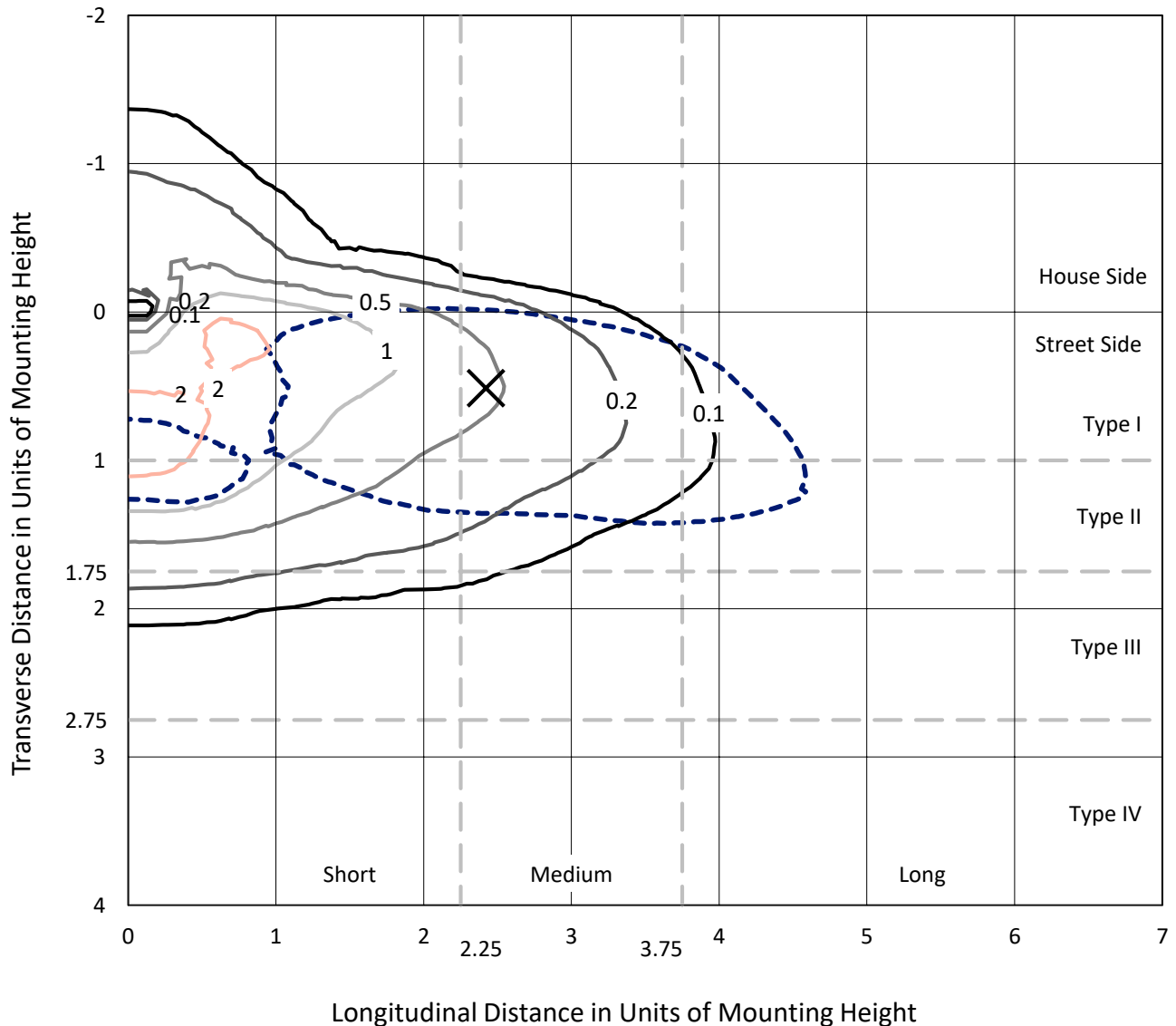
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P416655  
 CATALOG NUMBER: LXF.LXT-PA1-80-727-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

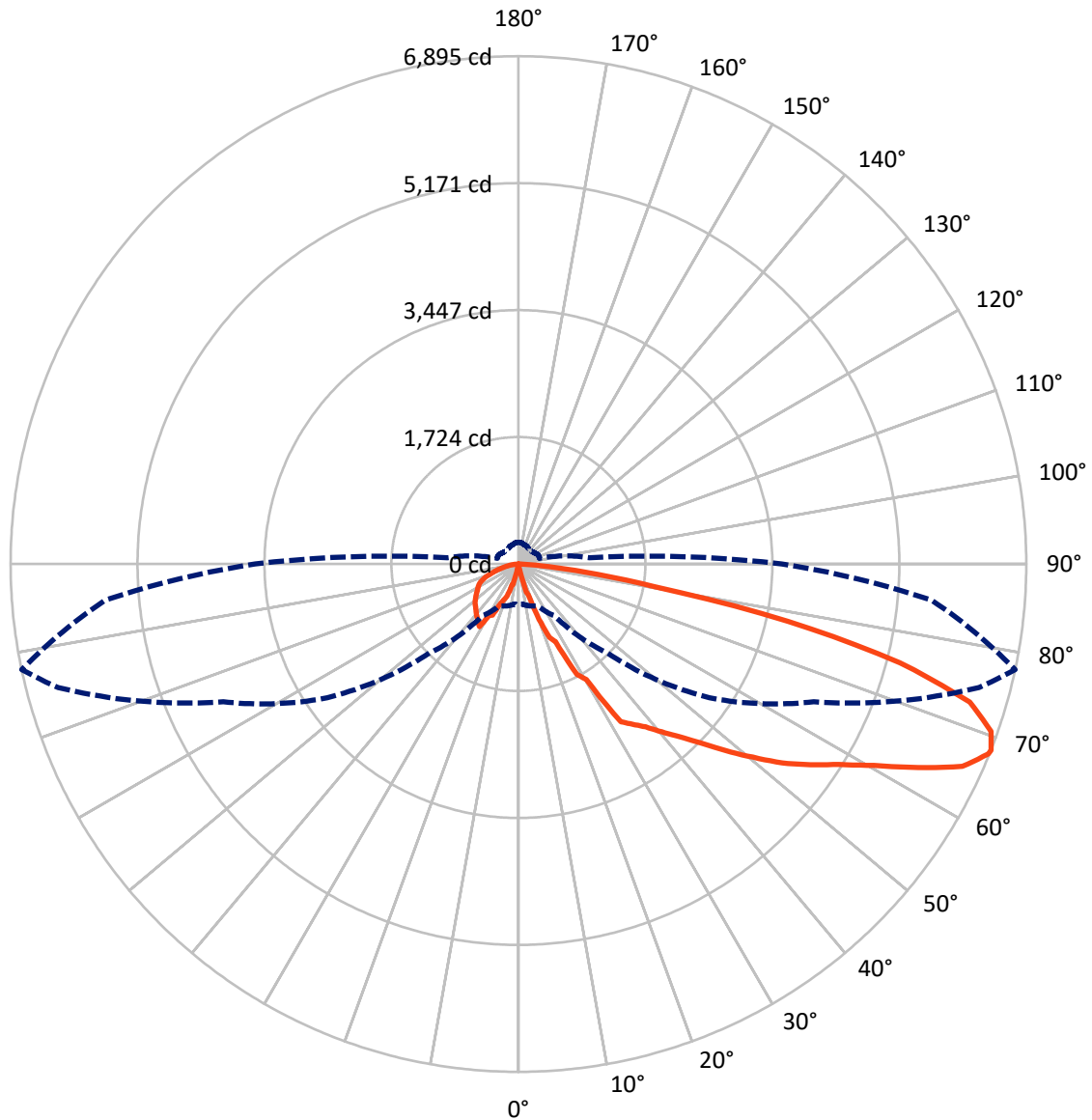
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - Non-Cutoff

REPORT NUMBER: P416655  
CATALOG NUMBER: LXF.LXT-PA1-80-727-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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CATALOG NUMBER: LXF.LXT-PA1-80-727-U-T2R

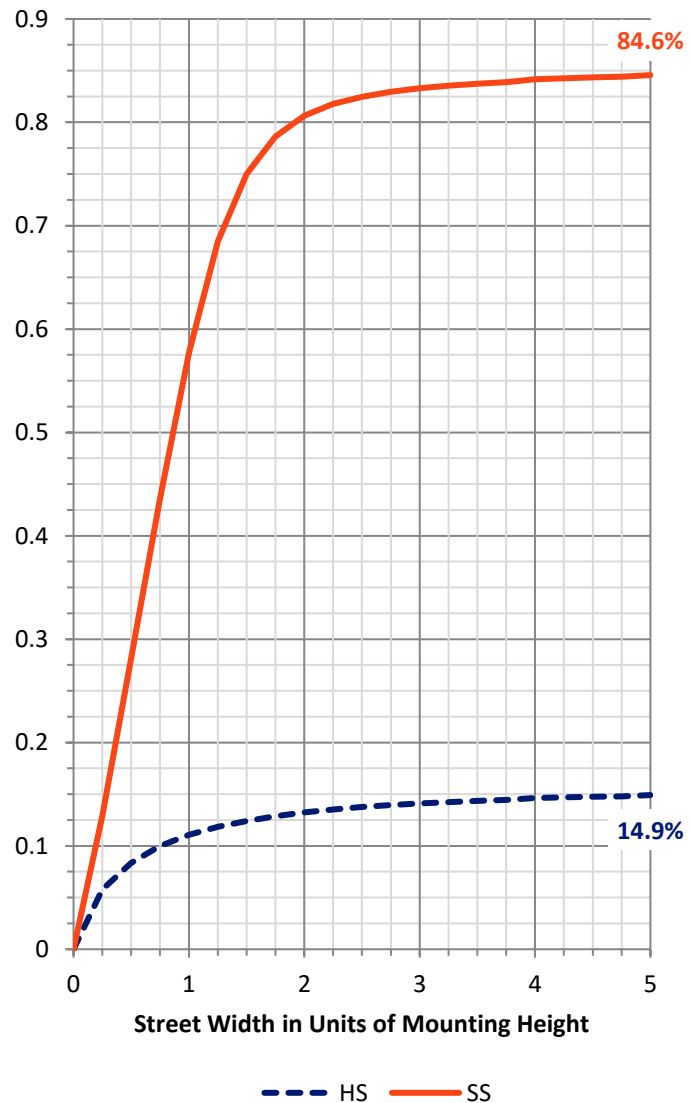
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1157.4	0.0	1157.4
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	6465.7	0.0	6465.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	7623.0	0.0	7623.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.6	0.1
10°-20°	110.5	1.4
20°-30°	420.7	5.5
30°-40°	982.2	12.9
40°-50°	1533.3	20.1
50°-60°	1760.1	23.1
60°-70°	1635.5	21.5
70°-80°	1010.6	13.3
80°-90°	162.7	2.1
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°	7623.0	100.0
0°-180°	7623.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P416655

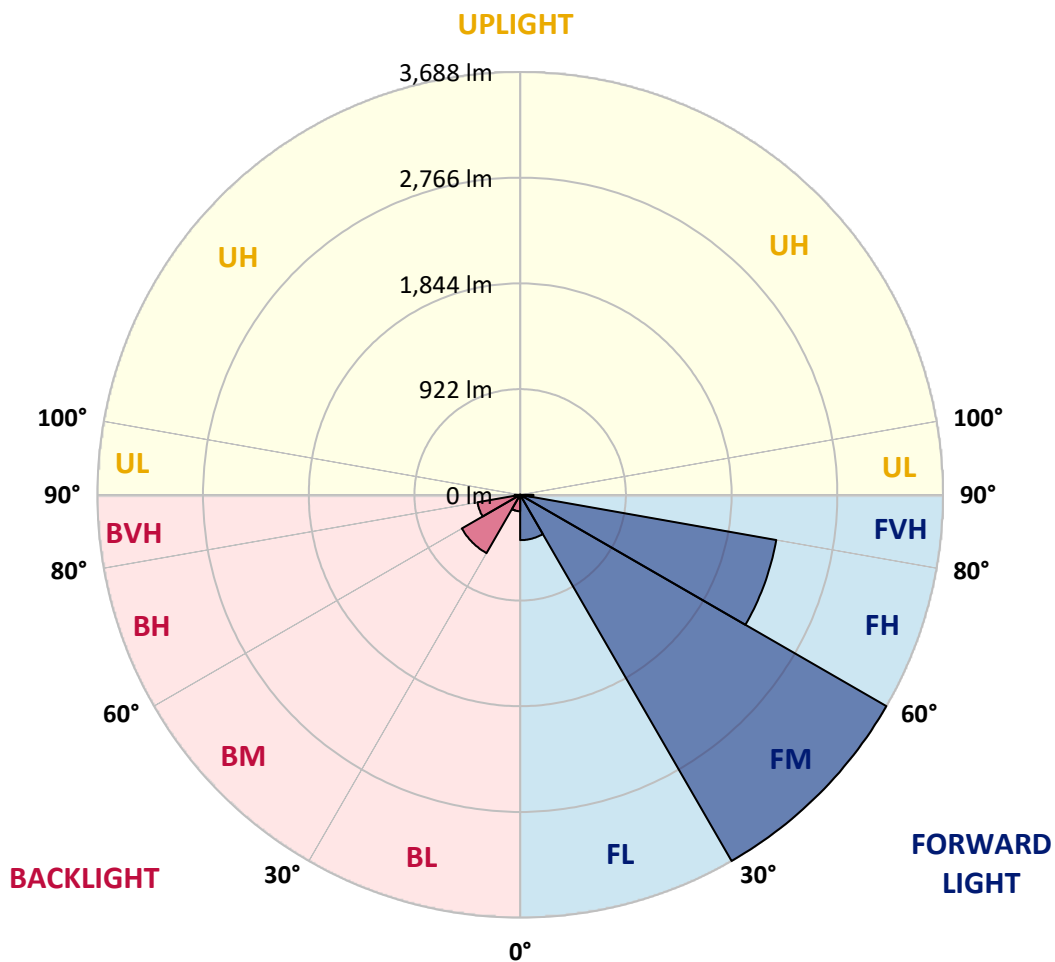
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	395.3	5.2			
FM	(30°-60°)	3687.5	48.4			
FH	(60°-80°)	2267.7	29.7			G2/5000
FVH	(80°-90°)	115.1	1.5			G2/225
BL	(0°-30°)	143.4	1.9	B1/500		
BM	(30°-60°)	588.0	7.7	B1/1000		
BH	(60°-80°)	378.3	5.0	B1/500		G1/500
BVH	(80°-90°)	47.6	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-G2**

Type II Medium





REPORT NUMBER: P416655

CATALOG NUMBER: LXF.LXT-PA1-80-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	5.9	5.9	6.7	7.5	9.2	8.4	5.9	4.2	3.3	3.3	3.3
5°	270.1	248.4	138.8	71.9	25.1	15.1	7.5	5.9	4.2	4.2	3.3
7.5°	305.3	303.6	301.1	298.6	294.4	278.5	29.3	8.4	5.0	5.0	3.3
10°	329.5	327.0	325.3	323.7	317.8	309.4	295.2	25.9	9.2	8.4	7.5
12.5°	639.8	638.1	635.6	406.5	344.6	335.4	322.8	230.8	26.8	40.1	121.3
15°	638.1	635.6	643.1	656.5	667.4	367.1	370.5	648.2	401.4	385.5	410.6
17.5°	665.7	662.4	654.0	663.2	683.3	767.8	725.9	701.7	472.5	450.8	438.2
20°	976.0	976.0	986.0	977.7	709.2	981.0	929.2	753.5	853.9	802.9	746.8
22.5°	1032.9	1028.7	1030.4	1047.1	1231.1	1017.0	1025.3	1162.5	1186.8	1083.9	929.2
25°	1468.6	1467.8	1410.1	1106.5	1298.0	1226.1	1416.7	1243.6	1287.1	1165.8	1139.9
27.5°	1652.6	1654.3	1607.4	1565.6	1371.6	1589.9	1503.7	1637.5	1828.2	1698.6	1460.2
30°	2223.8	2202.1	1834.1	1793.1	1678.5	1676.0	1820.7	1933.6	1880.1	1819.0	1630.8
32.5°	2642.8	2621.1	2539.9	2256.4	1995.5	1866.7	2091.7	2023.1	2453.0	2553.3	2211.3
35°	3291.0	3283.4	2852.7	2560.0	2343.4	2257.3	2197.9	2464.7	2655.4	2670.4	2355.1
37.5°	3788.6	3764.3	3511.8	2995.7	2637.8	2438.7	2580.1	2584.3	2877.0	2805.9	2580.1
40°	4016.1	4001.0	3807.0	3322.7	2908.8	2683.8	2740.7	2764.9	3119.5	2996.6	2744.0
42.5°	4189.2	4170.8	4047.8	3519.3	3147.1	2932.2	2906.3	2928.0	3354.5	3204.8	2919.6
45°	4278.7	4267.8	4210.1	3658.9	3313.5	3090.2	3083.6	3071.8	3514.3	3461.6	3110.3
47.5°	4228.5	4216.8	4242.7	3848.8	3417.2	3219.9	3248.3	3227.4	3697.4	3783.6	3317.7
50°	3950.0	3960.9	4064.6	3856.3	3483.3	3325.3	3422.3	3370.4	3946.6	4123.1	3569.5
52.5°	3143.8	3188.1	3627.2	3689.1	3490.0	3374.6	3578.7	3588.7	4256.1	4486.1	3900.6
55°	2345.9	2408.6	2797.5	3280.9	3356.2	3376.3	3679.0	3788.6	4564.7	4808.9	4179.1
57.5°	1846.6	1885.1	2132.6	2617.7	3033.4	3316.9	3781.9	3950.8	4851.6	5131.7	4452.6
60°	1476.1	1452.7	1614.1	1982.1	2528.2	3150.5	3827.1	4162.4	5208.7	5548.2	4774.6
62.5°	1067.2	1068.8	1191.8	1401.7	2001.3	2821.8	3791.9	4367.3	5663.6	6086.8	5203.7
65°	756.9	764.4	848.0	960.9	1446.9	2370.2	3618.0	4507.0	6177.1	6625.4	5552.4
67.5°	576.2	581.3	620.6	673.2	935.0	1803.1	3260.9	4478.6	6459.0	6880.5	5653.6
68°	552.8	544.5	588.8	627.2	860.6	1709.5	3163.0	4421.7	6472.4	6894.7	5629.3
70°	465.8	465.8	485.9	495.1	609.7	1263.7	2683.8	4078.0	6424.7	6806.9	5445.4
72.5°	388.9	386.4	398.1	390.6	430.7	827.1	1949.5	3516.8	6084.3	6406.3	4897.6
75°	323.7	323.7	325.3	319.5	330.4	554.5	1267.0	2754.9	5375.1	5349.2	3986.0
77.5°	276.0	269.3	267.6	259.3	268.5	403.1	777.0	1960.4	3880.6	3740.9	2530.7
80°	219.1	218.3	220.0	214.9	222.5	293.6	473.4	1145.8	2113.4	1860.0	1180.1
82.5°	135.5	148.9	163.9	163.9	187.3	207.4	286.9	613.0	1024.5	900.7	501.0
85°	44.3	54.4	96.2	99.5	120.4	97.0	164.8	197.4	342.1	305.3	96.2
87.5°	1.7	2.5	7.5	11.7	10.9	6.7	11.7	9.2	19.2	14.2	15.1
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: P416655

CATALOG NUMBER: LXF.LXT-PA1-80-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
2.5°	3.3	3.3	3.3	4.2	4.2	2.5	1.7	3.3	3.3	3.3	3.3
5°	3.3	3.3	4.2	4.2	4.2	3.3	4.2	5.9	6.7	6.7	6.7
7.5°	3.3	3.3	3.3	5.0	5.0	5.9	8.4	50.2	115.4	126.3	124.6
10°	6.7	5.9	6.7	7.5	9.2	107.1	140.5	148.0	151.4	153.9	153.0
12.5°	160.6	143.8	26.8	15.1	101.2	150.5	153.0	158.9	164.8	167.3	167.3
15°	376.3	337.0	257.6	194.0	173.1	160.6	163.1	214.1	291.0	298.6	299.4
17.5°	399.8	350.4	269.3	296.9	306.1	238.4	261.8	294.4	297.7	298.6	298.6
20°	753.5	631.4	383.0	312.8	312.0	398.9	279.3	287.7	292.7	332.9	337.9
22.5°	815.4	676.6	460.0	444.1	336.2	398.9	365.5	355.4	388.9	385.5	388.1
25°	1025.3	812.1	484.2	445.8	470.9	386.4	429.0	353.8	359.6	357.9	357.9
27.5°	1303.8	1024.5	676.6	499.3	457.5	446.6	397.3	340.4	408.1	409.8	409.8
30°	1380.8	1053.8	676.6	539.4	475.9	439.1	367.1	402.3	379.7	373.0	369.7
32.5°	1913.5	1429.3	818.8	519.4	469.2	403.1	402.3	373.8	373.0	388.1	388.1
35°	2010.5	1451.0	747.7	593.8	442.4	415.7	382.2	378.0	361.3	355.4	354.6
37.5°	2106.7	1464.4	693.3	545.3	454.1	396.4	376.3	347.1	365.5	365.5	363.8
40°	2209.6	1478.6	644.0	501.0	417.3	396.4	348.8	346.2	321.2	322.8	321.2
42.5°	2320.0	1484.5	591.3	464.2	383.0	372.2	337.0	311.1	310.3	316.1	314.5
45°	2446.3	1492.0	542.8	417.3	348.8	327.8	301.1	302.8	318.6	332.0	332.0
47.5°	2580.9	1498.7	502.6	375.5	324.5	297.7	277.7	284.4	312.8	326.2	330.4
50°	2763.2	1507.1	456.6	341.2	307.8	275.2	271.8	277.7	308.6	318.6	314.5
52.5°	2957.3	1492.0	411.5	319.5	290.2	250.1	255.9	271.0	304.4	309.4	306.1
55°	3116.2	1454.4	376.3	305.3	277.7	239.2	247.6	266.0	297.7	300.2	301.1
57.5°	3301.0	1405.0	348.8	294.4	270.1	234.2	244.2	265.1	284.4	296.1	296.1
60°	3482.5	1347.3	332.0	288.5	264.3	234.2	244.2	264.3	281.8	294.4	293.6
62.5°	3694.9	1282.1	322.0	291.9	256.8	236.7	245.9	266.8	281.0	295.2	293.6
65°	3769.3	1157.5	314.5	296.9	255.9	240.0	246.7	270.1	280.2	296.9	295.2
67.5°	3622.2	992.7	301.9	296.9	263.4	244.2	245.9	268.5	277.7	297.7	290.2
68°	3572.8	968.5	297.7	296.1	264.3	245.0	245.9	267.6	276.0	296.9	288.5
70°	3298.5	814.6	276.8	287.7	267.6	248.4	241.7	261.8	267.6	295.2	285.2
72.5°	2854.4	634.8	241.7	267.6	264.3	253.4	234.2	250.1	253.4	276.0	259.3
75°	2282.3	482.6	199.9	232.5	248.4	253.4	223.3	234.2	233.3	244.2	229.2
77.5°	1435.1	344.6	161.4	197.4	225.8	246.7	213.3	213.3	203.2	204.9	198.2
80°	695.8	235.8	130.5	163.1	189.0	233.3	195.7	179.8	167.3	163.9	155.6
82.5°	342.1	152.2	90.3	122.9	149.7	193.2	175.6	148.0	126.3	124.6	111.2
85°	79.5	62.7	49.3	65.2	94.5	126.3	126.3	92.8	78.6	102.0	75.3
87.5°	7.5	9.2	10.0	9.2	11.7	10.9	26.8	26.8	24.3	15.9	10.9
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)