

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: P417383

Luminaire Tested: **LXF.LXT-PA1-90-830-U-T2R**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417383  
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-PA1-90-830-U-T2R  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7809 lumens  
Efficiency: N/A  
Efficacy: 83.1 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

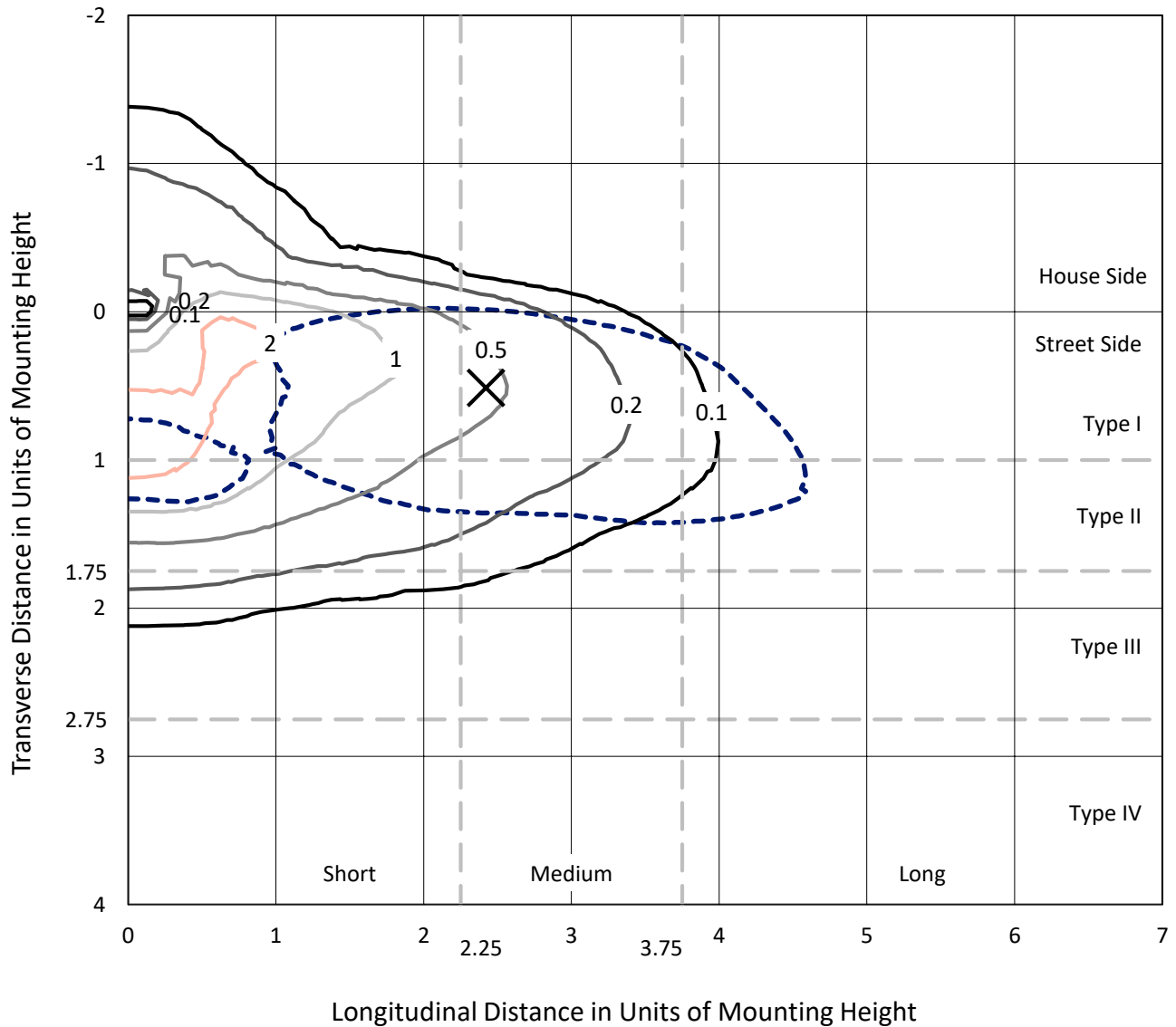
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

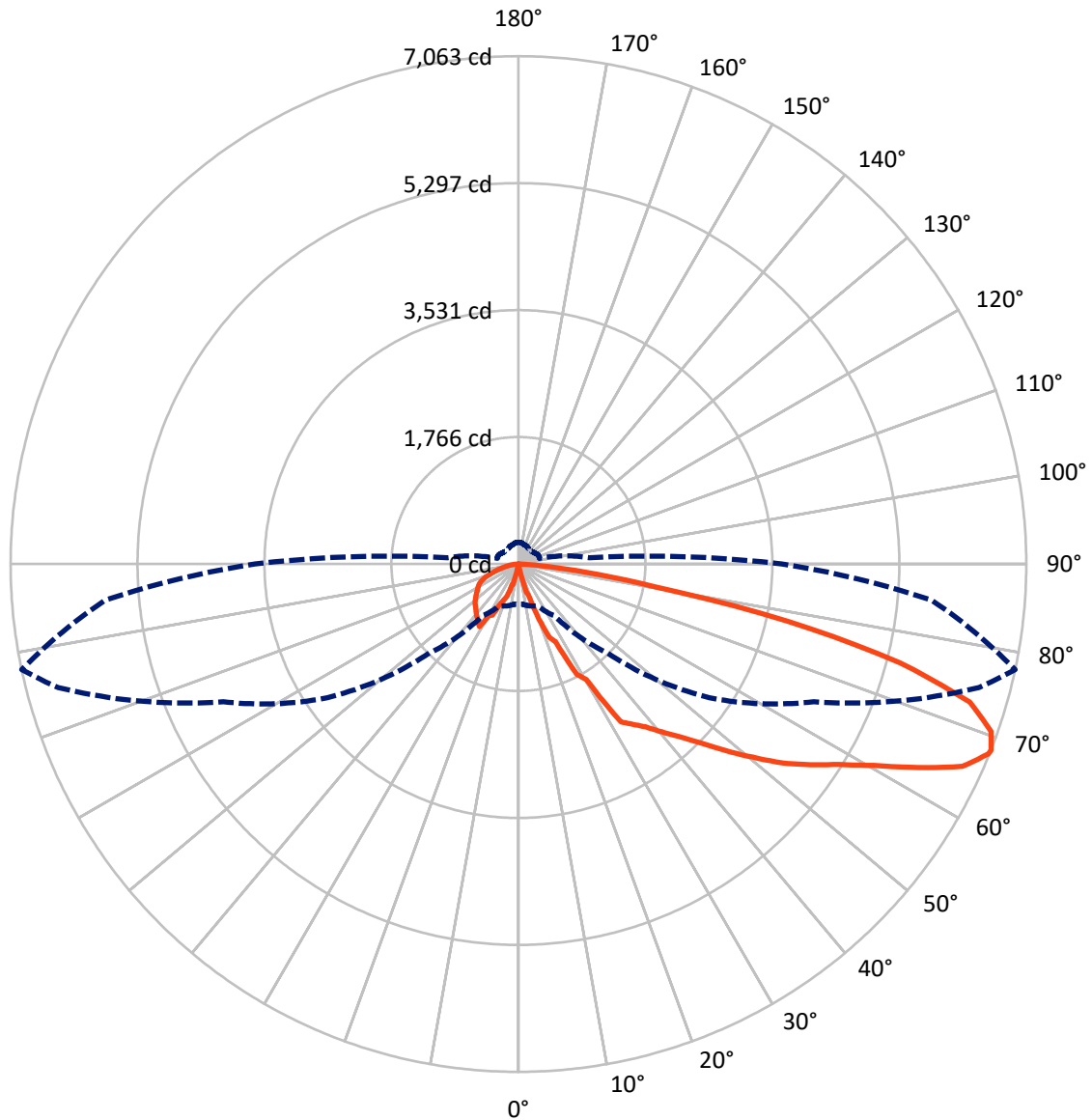
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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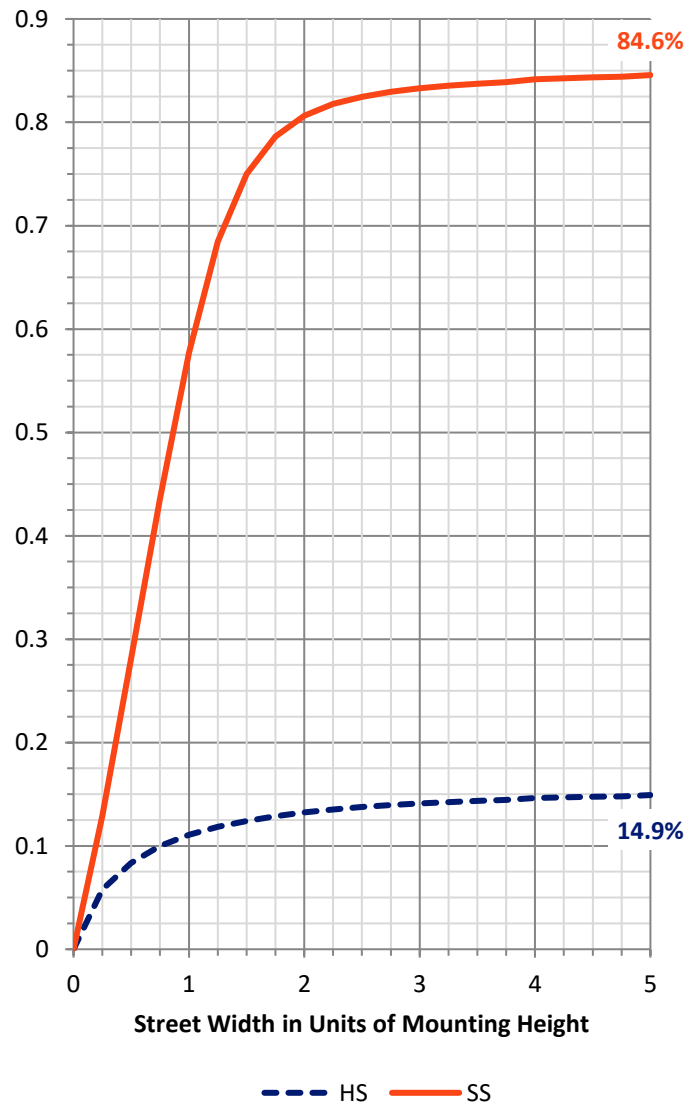
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1185.6	0.0	1185.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	6623.4	0.0	6623.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	7809.0	0.0	7809.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.8	0.1
10°-20°	113.2	1.4
20°-30°	430.9	5.5
30°-40°	1006.1	12.9
40°-50°	1570.7	20.1
50°-60°	1803.0	23.1
60°-70°	1675.4	21.5
70°-80°	1035.2	13.3
80°-90°	166.7	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°	7809.0	100.0
0°-180°	7809.0	100.0

**Coefficient of Utilization**



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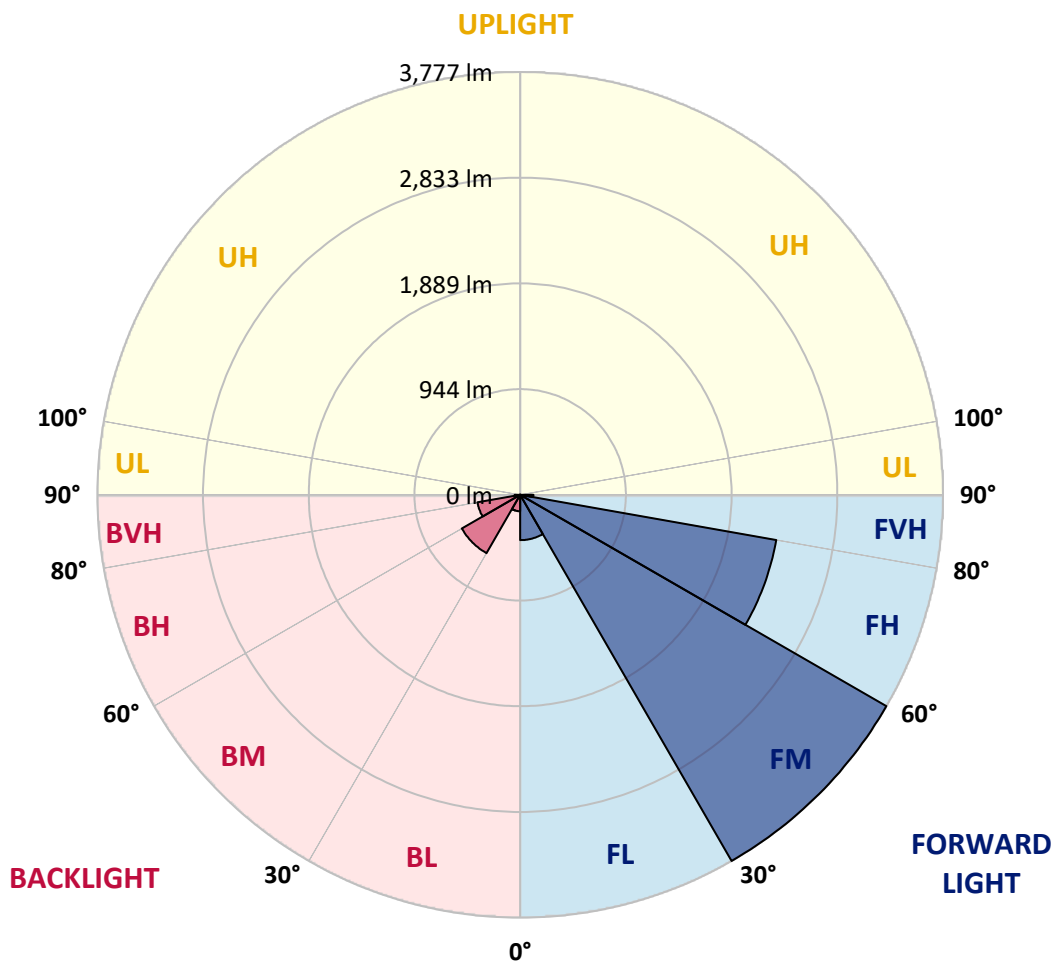
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.9	5.2			
FM (30°-60°)	3777.5	48.4			
FH (60°-80°)	2323.1	29.7			G2/5000
FVH (80°-90°)	117.9	1.5			G2/225
BL (0°-30°)	146.9	1.9	B1/500		
BM (30°-60°)	602.4	7.7	B1/1000		
BH (60°-80°)	387.5	5.0	B1/500		G1/500
BVH (80°-90°)	48.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	6.0	6.0	6.9	7.7	9.4	8.6	6.0	4.3	3.4	3.4	3.4
5°	276.7	254.5	142.2	73.7	25.7	15.4	7.7	6.0	4.3	4.3	3.4
7.5°	312.7	311.0	308.4	305.9	301.6	285.3	30.0	8.6	5.1	5.1	3.4
10°	337.6	335.0	333.3	331.6	325.6	317.0	302.4	26.6	9.4	8.6	7.7
12.5°	655.4	653.7	651.1	416.4	353.0	343.6	330.7	236.5	27.4	41.1	124.2
15°	653.7	651.1	658.8	672.5	683.7	376.1	379.5	664.0	411.2	395.0	420.7
17.5°	682.0	678.5	670.0	679.4	700.0	786.5	743.6	718.8	484.1	461.8	448.9
20°	999.8	999.8	1010.1	1001.5	726.5	1005.0	951.8	771.9	874.7	822.5	765.1
22.5°	1058.1	1053.8	1055.5	1072.6	1261.1	1041.8	1050.4	1190.9	1215.7	1110.3	951.8
25°	1504.4	1503.6	1444.5	1133.5	1329.7	1256.0	1451.3	1274.0	1318.5	1194.3	1167.7
27.5°	1692.9	1694.6	1646.6	1603.8	1405.0	1628.7	1540.4	1677.5	1872.8	1740.0	1495.9
30°	2278.1	2255.8	1878.8	1836.8	1719.5	1716.9	1865.1	1980.8	1925.9	1863.4	1670.6
32.5°	2707.3	2685.0	2601.9	2311.5	2044.2	1912.2	2142.7	2072.4	2512.8	2615.6	2265.2
35°	3371.3	3363.6	2922.3	2622.5	2400.6	2312.3	2251.5	2524.8	2720.1	2735.6	2412.6
37.5°	3881.0	3856.2	3597.4	3068.8	2702.2	2498.2	2643.0	2647.3	2947.2	2874.4	2643.0
40°	4114.1	4098.6	3899.9	3403.8	2979.7	2749.3	2807.5	2832.4	3195.6	3069.7	2811.0
42.5°	4291.4	4272.6	4146.6	3605.2	3223.9	3003.7	2977.2	2999.4	3436.4	3283.0	2990.9
45°	4383.1	4371.9	4312.8	3748.2	3394.4	3165.6	3158.8	3146.8	3600.0	3546.0	3186.2
47.5°	4331.7	4319.7	4346.2	3942.7	3500.6	3298.4	3327.6	3306.2	3787.6	3875.9	3398.7
50°	4046.4	4057.5	4163.7	3950.4	3568.3	3406.4	3505.8	3452.7	4042.9	4223.7	3656.6
52.5°	3220.5	3265.9	3715.7	3779.1	3575.2	3456.9	3666.0	3676.3	4359.9	4595.5	3995.8
55°	2403.1	2467.4	2865.8	3361.0	3438.1	3458.7	3768.8	3881.0	4676.1	4926.2	4281.1
57.5°	1891.7	1931.1	2184.7	2681.6	3107.4	3397.8	3874.2	4047.2	4969.9	5256.9	4561.3
60°	1512.1	1488.2	1653.5	2030.5	2589.9	3227.3	3920.4	4264.0	5335.8	5683.6	4891.1
62.5°	1093.2	1094.9	1220.9	1435.9	2050.2	2890.6	3884.4	4473.9	5801.8	6235.3	5330.6
65°	775.3	783.1	868.7	984.4	1482.2	2428.0	3706.2	4617.0	6327.9	6787.1	5687.9
67.5°	590.3	595.4	635.7	689.7	957.8	1847.1	3340.4	4587.8	6616.6	7048.4	5791.5
68°	566.3	557.7	603.1	642.6	881.6	1751.2	3240.2	4529.6	6630.3	7062.9	5766.7
70°	477.2	477.2	497.8	507.2	624.6	1294.5	2749.3	4177.5	6581.5	6973.0	5578.2
72.5°	398.4	395.8	407.8	400.1	441.2	847.3	1997.1	3602.6	6232.8	6562.6	5017.1
75°	331.6	331.6	333.3	327.3	338.4	568.0	1298.0	2822.1	5506.3	5479.7	4083.2
77.5°	282.7	275.9	274.2	265.6	275.0	412.9	795.9	2008.2	3975.3	3832.2	2592.5
80°	224.5	223.6	225.3	220.2	227.9	300.7	484.9	1173.7	2165.0	1905.4	1208.9
82.5°	138.8	152.5	167.9	167.9	191.9	212.5	293.9	628.0	1049.5	922.7	513.2
85°	45.4	55.7	98.5	102.0	123.4	99.4	168.8	202.2	350.4	312.7	98.5
87.5°	1.7	2.6	7.7	12.0	11.1	6.9	12.0	9.4	19.7	14.6	15.4
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°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
2.5°	3.4	3.4	3.4	4.3	4.3	2.6	1.7	3.4	3.4	3.4	3.4
5°	3.4	3.4	4.3	4.3	4.3	3.4	4.3	6.0	6.9	6.9	6.9
7.5°	3.4	3.4	3.4	5.1	5.1	6.0	8.6	51.4	118.2	129.4	127.7
10°	6.9	6.0	6.9	7.7	9.4	109.7	143.9	151.6	155.1	157.6	156.8
12.5°	164.5	147.4	27.4	15.4	103.7	154.2	156.8	162.8	168.8	171.3	171.3
15°	385.5	345.3	263.9	198.8	177.3	164.5	167.1	219.3	298.1	305.9	306.7
17.5°	409.5	359.0	275.9	304.1	313.6	244.2	268.2	301.6	305.0	305.9	305.9
20°	771.9	646.8	392.4	320.4	319.6	408.7	286.2	294.7	299.9	341.0	346.1
22.5°	835.3	693.1	471.2	454.9	344.4	408.7	374.4	364.1	398.4	395.0	397.5
25°	1050.4	831.9	496.1	456.6	482.3	395.8	439.5	362.4	368.4	366.7	366.7
27.5°	1335.7	1049.5	693.1	511.5	468.6	457.5	407.0	348.7	418.1	419.8	419.8
30°	1414.5	1079.5	693.1	552.6	487.5	449.8	376.1	412.1	389.0	382.1	378.7
32.5°	1960.2	1464.2	838.7	532.0	480.6	412.9	412.1	383.0	382.1	397.5	397.5
35°	2059.6	1486.4	765.9	608.3	453.2	425.8	391.5	387.2	370.1	364.1	363.3
37.5°	2158.1	1500.1	710.2	558.6	465.2	406.1	385.5	355.5	374.4	374.4	372.7
40°	2263.5	1514.7	659.7	513.2	427.5	406.1	357.3	354.7	329.0	330.7	329.0
42.5°	2376.6	1520.7	605.7	475.5	392.4	381.2	345.3	318.7	317.8	323.8	322.1
45°	2506.0	1528.4	556.0	427.5	357.3	335.8	308.4	310.1	326.4	340.1	340.1
47.5°	2643.9	1535.3	514.9	384.7	332.4	305.0	284.4	291.3	320.4	334.1	338.4
50°	2830.7	1543.8	467.8	349.5	315.3	281.9	278.4	284.4	316.1	326.4	322.1
52.5°	3029.4	1528.4	421.5	327.3	297.3	256.2	262.2	277.6	311.9	317.0	313.6
55°	3192.2	1489.9	385.5	312.7	284.4	245.0	253.6	272.4	305.0	307.6	308.4
57.5°	3381.5	1439.3	357.3	301.6	276.7	239.9	250.2	271.6	291.3	303.3	303.3
60°	3567.5	1380.2	340.1	295.6	270.7	239.9	250.2	270.7	288.7	301.6	300.7
62.5°	3785.1	1313.4	329.8	299.0	263.0	242.5	251.9	273.3	287.9	302.4	300.7
65°	3861.3	1185.7	322.1	304.1	262.2	245.9	252.7	276.7	287.0	304.1	302.4
67.5°	3710.5	1016.9	309.3	304.1	269.9	250.2	251.9	275.0	284.4	305.0	297.3
68°	3660.0	992.1	305.0	303.3	270.7	251.0	251.9	274.2	282.7	304.1	295.6
70°	3379.0	834.5	283.6	294.7	274.2	254.5	247.6	268.2	274.2	302.4	292.1
72.5°	2924.0	650.3	247.6	274.2	270.7	259.6	239.9	256.2	259.6	282.7	265.6
75°	2338.0	494.3	204.8	238.2	254.5	259.6	228.7	239.9	239.0	250.2	234.7
77.5°	1470.2	353.0	165.4	202.2	231.3	252.7	218.5	218.5	208.2	209.9	203.0
80°	712.8	241.6	133.7	167.1	193.6	239.0	200.5	184.2	171.3	167.9	159.4
82.5°	350.4	155.9	92.5	125.9	153.4	197.9	179.9	151.6	129.4	127.7	113.9
85°	81.4	64.3	50.5	66.8	96.8	129.4	129.4	95.1	80.5	104.5	77.1
87.5°	7.7	9.4	10.3	9.4	12.0	11.1	27.4	27.4	24.8	16.3	11.1
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)