

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: P416967

Luminaire Tested: **LXF.LXT-PA1-80-830-U-T2R**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416967  
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-PA1-80-830-U-T2R  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 3000K, 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: 7243 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

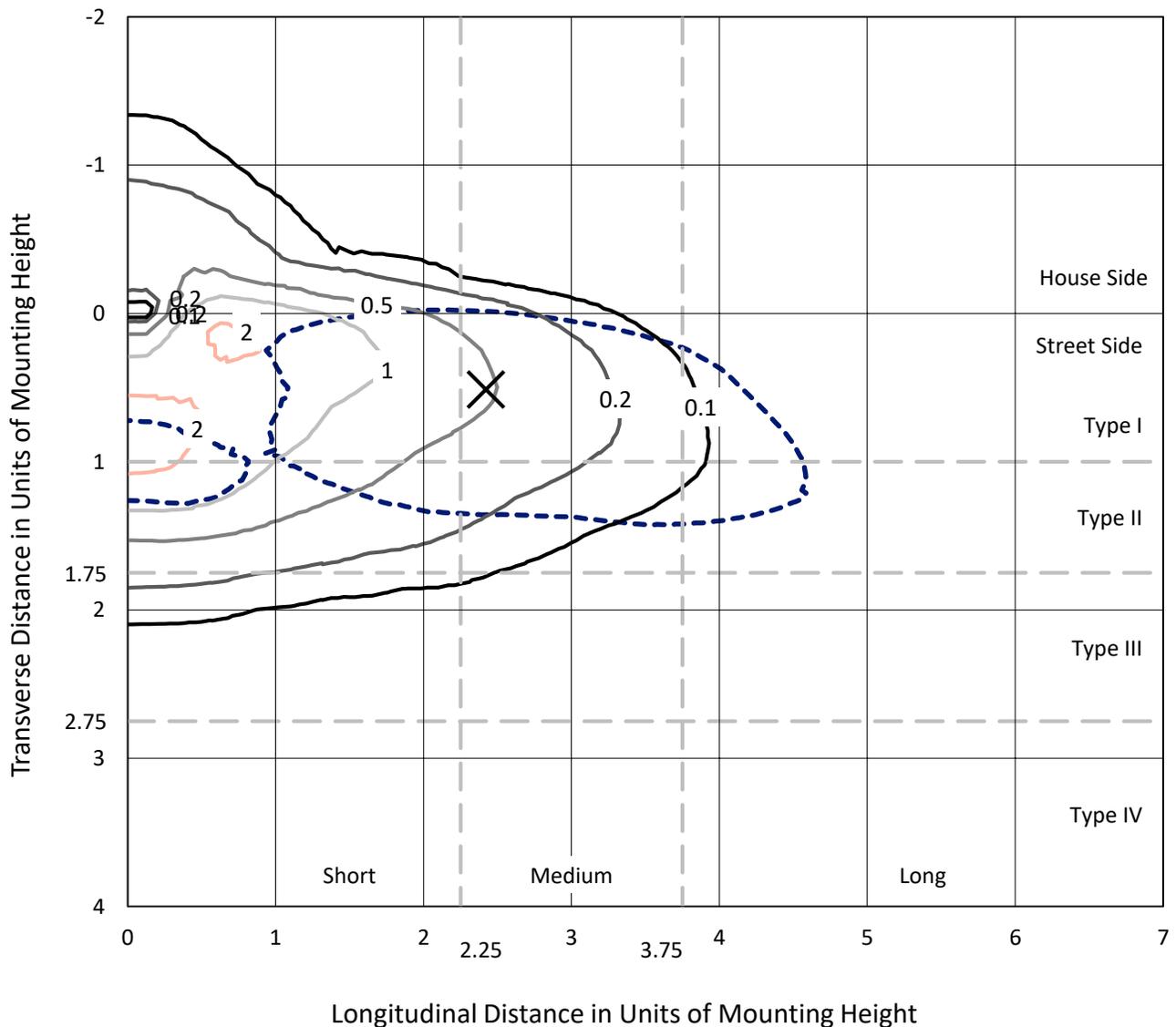
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

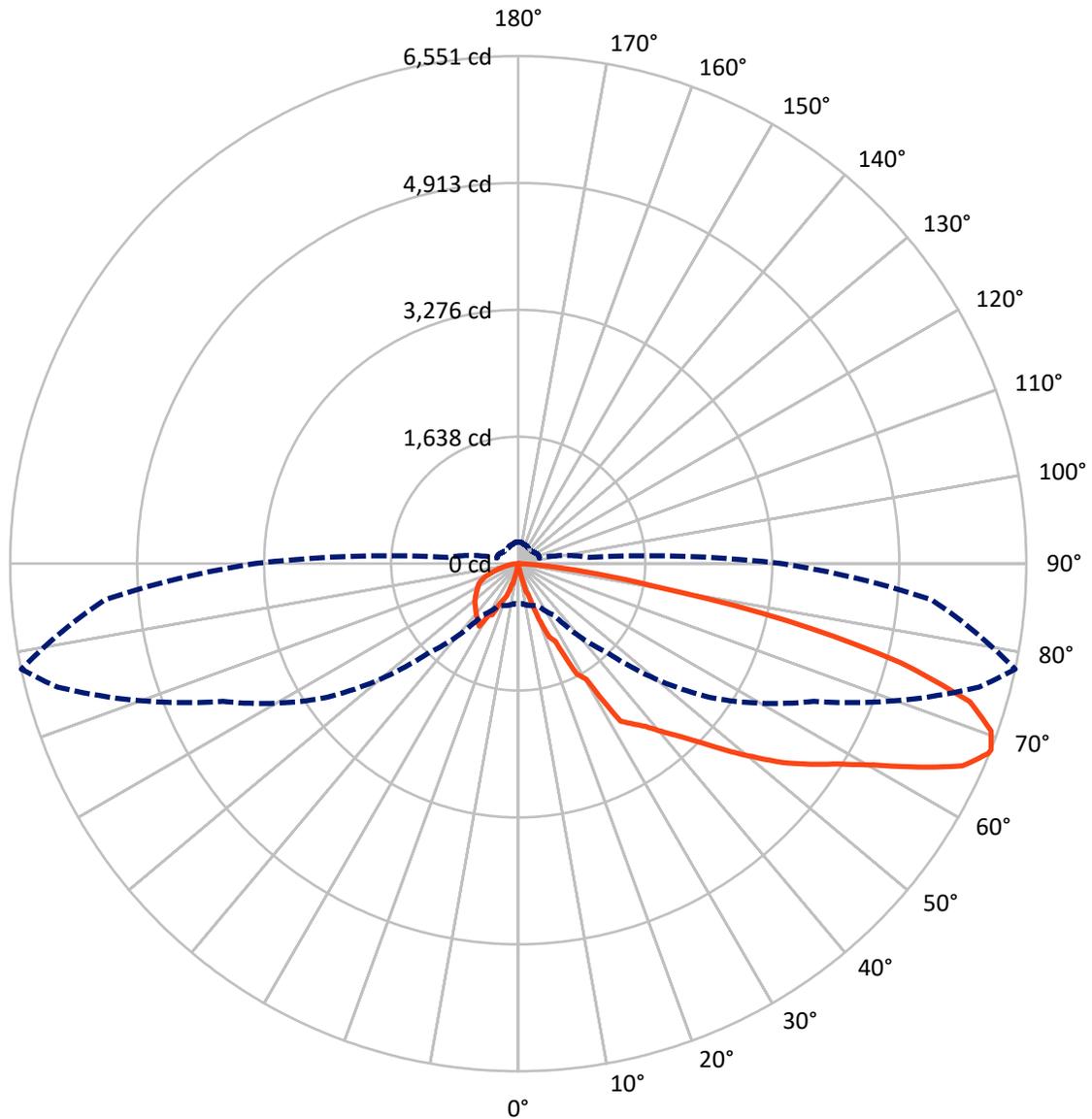
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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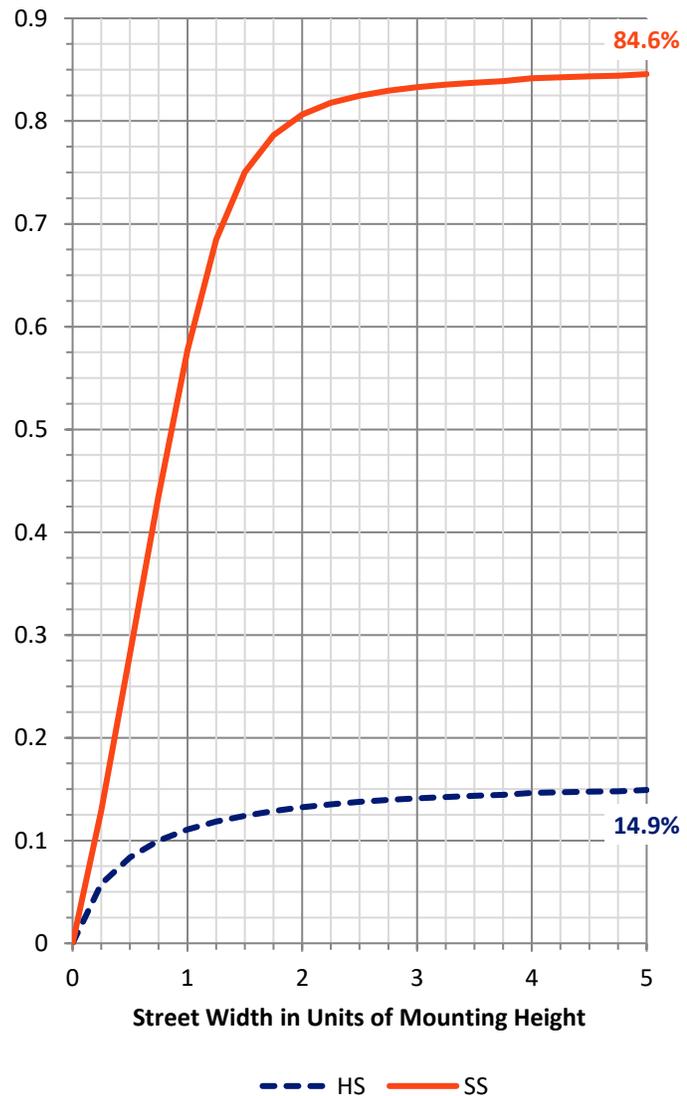
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1099.7	0.0	1099.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	6143.3	0.0	6143.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	7243.0	0.0	7243.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.1
10°-20°	105.0	1.4
20°-30°	399.7	5.5
30°-40°	933.2	12.9
40°-50°	1456.9	20.1
50°-60°	1672.4	23.1
60°-70°	1553.9	21.5
70°-80°	960.2	13.3
80°-90°	154.6	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°	7243.0	100.0
0°-180°	7243.0	100.0



REPORT NUMBER: P416967

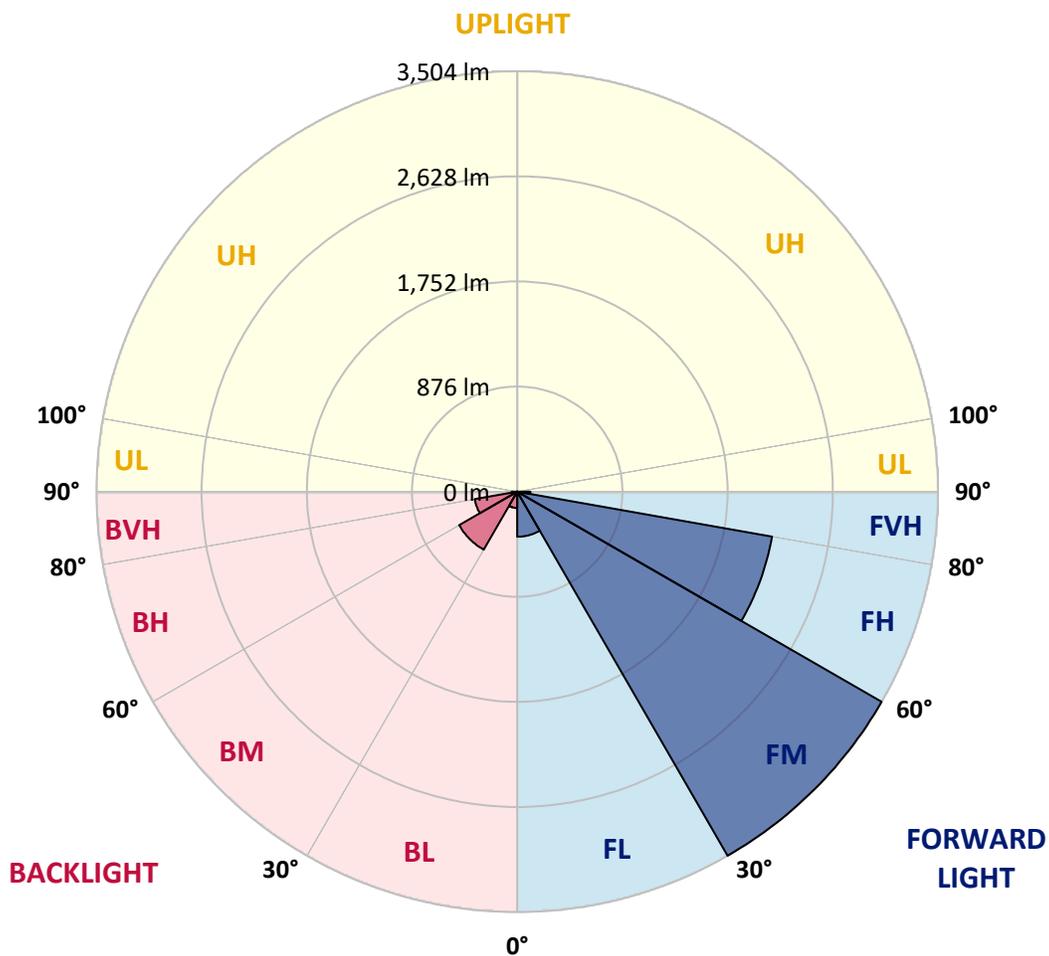
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.6	5.2			
FM	(30°-60°)	3503.7	48.4			
FH	(60°-80°)	2154.7	29.7			G2/5000
FVH	(80°-90°)	109.4	1.5			G2/225
BL	(0°-30°)	136.3	1.9	B1/500		
BM	(30°-60°)	558.7	7.7	B1/1000		
BH	(60°-80°)	359.4	5.0	B1/500		G1/500
BVH	(80°-90°)	45.2	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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	5.6	5.6	6.4	7.2	8.7	7.9	5.6	4.0	3.2	3.2	3.2
5°	256.7	236.0	131.9	68.3	23.8	14.3	7.2	5.6	4.0	4.0	3.2
7.5°	290.0	288.5	286.1	283.7	279.7	264.6	27.8	7.9	4.8	4.8	3.2
10°	313.1	310.7	309.1	307.5	302.0	294.0	280.5	24.6	8.7	7.9	7.2
12.5°	607.9	606.3	603.9	386.2	327.4	318.7	306.7	219.3	25.4	38.1	115.2
15°	606.3	603.9	611.1	623.8	634.1	348.8	352.0	615.8	381.4	366.3	390.2
17.5°	632.5	629.4	621.4	630.2	649.2	729.5	689.7	666.7	449.0	428.3	416.4
20°	927.3	927.3	936.9	928.9	673.9	932.1	882.8	716.0	811.3	762.9	709.6
22.5°	981.4	977.4	979.0	994.9	1169.7	966.3	974.2	1104.6	1127.6	1029.9	882.8
25°	1395.4	1394.6	1339.8	1051.3	1233.3	1164.9	1346.1	1181.6	1223.0	1107.7	1083.1
27.5°	1570.2	1571.8	1527.3	1487.6	1303.2	1510.6	1428.8	1555.9	1737.1	1613.9	1387.4
30°	2113.0	2092.3	1742.6	1703.7	1594.8	1592.5	1729.9	1837.2	1786.4	1728.3	1549.5
32.5°	2511.1	2490.4	2413.3	2143.9	1896.0	1773.6	1987.4	1922.2	2330.7	2426.0	2101.0
35°	3126.9	3119.8	2710.5	2432.4	2226.6	2144.7	2088.3	2341.8	2523.0	2537.3	2237.7
37.5°	3599.7	3576.7	3336.7	2846.4	2506.3	2317.2	2451.5	2455.4	2733.6	2666.0	2451.5
40°	3815.9	3801.6	3617.2	3157.1	2763.8	2550.0	2604.0	2627.1	2964.0	2847.2	2607.2
42.5°	3980.4	3962.9	3846.1	3343.8	2990.2	2786.0	2761.4	2782.0	3187.3	3045.1	2774.1
45°	4065.4	4055.1	4000.2	3476.6	3148.4	2936.2	2929.8	2918.7	3339.1	3289.0	2955.3
47.5°	4017.7	4006.6	4031.2	3656.9	3246.9	3059.4	3086.4	3066.5	3513.1	3595.0	3152.3
50°	3753.1	3763.4	3862.0	3664.1	3309.7	3159.5	3251.7	3202.4	3749.9	3917.6	3391.5
52.5°	2987.1	3029.2	3446.4	3505.2	3316.0	3206.4	3400.3	3409.8	4043.9	4262.5	3706.2
55°	2229.0	2288.6	2658.1	3117.4	3188.9	3208.0	3495.6	3599.7	4337.2	4569.2	3970.8
57.5°	1754.6	1791.1	2026.3	2487.2	2882.2	3151.5	3593.4	3753.9	4609.7	4875.9	4230.7
60°	1402.5	1380.3	1533.7	1883.3	2402.2	2993.4	3636.3	3954.9	4949.0	5271.6	4536.6
62.5°	1014.0	1015.6	1132.4	1331.8	1901.6	2681.1	3602.9	4149.6	5381.3	5783.4	4944.3
65°	719.2	726.3	805.8	913.0	1374.7	2252.0	3437.6	4282.3	5869.2	6295.1	5275.6
67.5°	547.5	552.3	589.6	639.7	888.4	1713.2	3098.3	4255.3	6137.0	6537.5	5371.8
68°	525.3	517.3	559.4	596.0	817.7	1624.2	3005.3	4201.3	6149.7	6551.0	5348.7
70°	442.6	442.6	461.7	470.4	579.3	1200.7	2550.0	3874.7	6104.4	6467.6	5173.9
72.5°	369.5	367.1	378.2	371.1	409.2	785.9	1852.3	3341.5	5781.0	6086.9	4653.4
75°	307.5	307.5	309.1	303.6	313.9	526.8	1203.9	2617.5	5107.2	5082.5	3787.3
77.5°	262.2	255.9	254.3	246.3	255.1	383.0	738.2	1862.6	3687.1	3554.4	2404.6
80°	208.2	207.4	209.0	204.2	211.4	278.9	449.8	1088.7	2008.1	1767.3	1121.2
82.5°	128.7	141.4	155.7	155.7	178.0	197.1	272.6	582.5	973.4	855.8	476.0
85°	42.1	51.7	91.4	94.6	114.4	92.2	156.5	187.5	325.0	290.0	91.4
87.5°	1.6	2.4	7.2	11.1	10.3	6.4	11.1	8.7	18.3	13.5	14.3
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: P416967

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	3.2	3.2	3.2	4.0	4.0	2.4	1.6	3.2	3.2	3.2	3.2
5°	3.2	3.2	4.0	4.0	4.0	3.2	4.0	5.6	6.4	6.4	6.4
7.5°	3.2	3.2	3.2	4.8	4.8	5.6	7.9	47.7	109.7	120.0	118.4
10°	6.4	5.6	6.4	7.2	8.7	101.7	133.5	140.7	143.8	146.2	145.4
12.5°	152.6	136.7	25.4	14.3	96.2	143.0	145.4	151.0	156.5	158.9	158.9
15°	357.6	320.2	244.7	184.4	164.5	152.6	155.0	203.4	276.5	283.7	284.5
17.5°	379.8	333.0	255.9	282.1	290.8	226.5	248.7	279.7	282.9	283.7	283.7
20°	716.0	600.0	363.9	297.2	296.4	379.0	265.4	273.4	278.1	316.3	321.0
22.5°	774.8	642.9	437.1	422.0	319.4	379.0	347.3	337.7	369.5	366.3	368.7
25°	974.2	771.6	460.1	423.5	447.4	367.1	407.7	336.1	341.7	340.1	340.1
27.5°	1238.8	973.4	642.9	474.4	434.7	424.3	377.5	323.4	387.8	389.4	389.4
30°	1312.0	1001.2	642.9	512.5	452.2	417.2	348.8	382.2	360.8	354.4	351.2
32.5°	1818.1	1358.0	778.0	493.5	445.8	383.0	382.2	355.2	354.4	368.7	368.7
35°	1910.3	1378.7	710.4	564.2	420.4	394.9	363.2	359.2	343.3	337.7	336.9
37.5°	2001.7	1391.4	658.8	518.1	431.5	376.7	357.6	329.8	347.3	347.3	345.7
40°	2099.4	1404.9	611.9	476.0	396.5	376.7	331.4	329.0	305.1	306.7	305.1
42.5°	2204.3	1410.5	561.8	441.0	363.9	353.6	320.2	295.6	294.8	300.4	298.8
45°	2324.3	1417.6	515.7	396.5	331.4	311.5	286.1	287.7	302.8	315.5	315.5
47.5°	2452.3	1424.0	477.6	356.8	308.3	282.9	263.8	270.2	297.2	309.9	313.9
50°	2625.5	1431.9	433.9	324.2	292.4	261.4	258.3	263.8	293.2	302.8	298.8
52.5°	2809.9	1417.6	391.0	303.6	275.7	237.6	243.2	257.5	289.2	294.0	290.8
55°	2960.8	1381.9	357.6	290.0	263.8	227.3	235.2	252.7	282.9	285.3	286.1
57.5°	3136.4	1335.0	331.4	279.7	256.7	222.5	232.0	251.9	270.2	281.3	281.3
60°	3308.9	1280.2	315.5	274.2	251.1	222.5	232.0	251.1	267.8	279.7	278.9
62.5°	3510.7	1218.2	305.9	277.3	244.0	224.9	233.6	253.5	267.0	280.5	278.9
65°	3581.4	1099.8	298.8	282.1	243.2	228.1	234.4	256.7	266.2	282.1	280.5
67.5°	3441.6	943.2	286.9	282.1	250.3	232.0	233.6	255.1	263.8	282.9	275.7
68°	3394.7	920.2	282.9	281.3	251.1	232.8	233.6	254.3	262.2	282.1	274.2
70°	3134.1	774.0	263.0	273.4	254.3	236.0	229.7	248.7	254.3	280.5	271.0
72.5°	2712.1	603.1	229.7	254.3	251.1	240.8	222.5	237.6	240.8	262.2	246.3
75°	2168.6	458.5	189.9	220.9	236.0	240.8	212.2	222.5	221.7	232.0	217.7
77.5°	1363.6	327.4	153.4	187.5	214.6	234.4	202.6	202.6	193.1	194.7	188.3
80°	661.1	224.1	124.0	155.0	179.6	221.7	185.9	170.8	158.9	155.7	147.8
82.5°	325.0	144.6	85.8	116.8	142.2	183.6	166.9	140.7	120.0	118.4	105.7
85°	75.5	59.6	46.9	62.0	89.8	120.0	120.0	88.2	74.7	96.9	71.5
87.5°	7.2	8.7	9.5	8.7	11.1	10.3	25.4	25.4	23.0	15.1	10.3
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)