

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: P416942

Luminaire Tested: **LXF.LXT-PA1-80-827-U-T4W**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-80-827-U-T4W  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6779 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

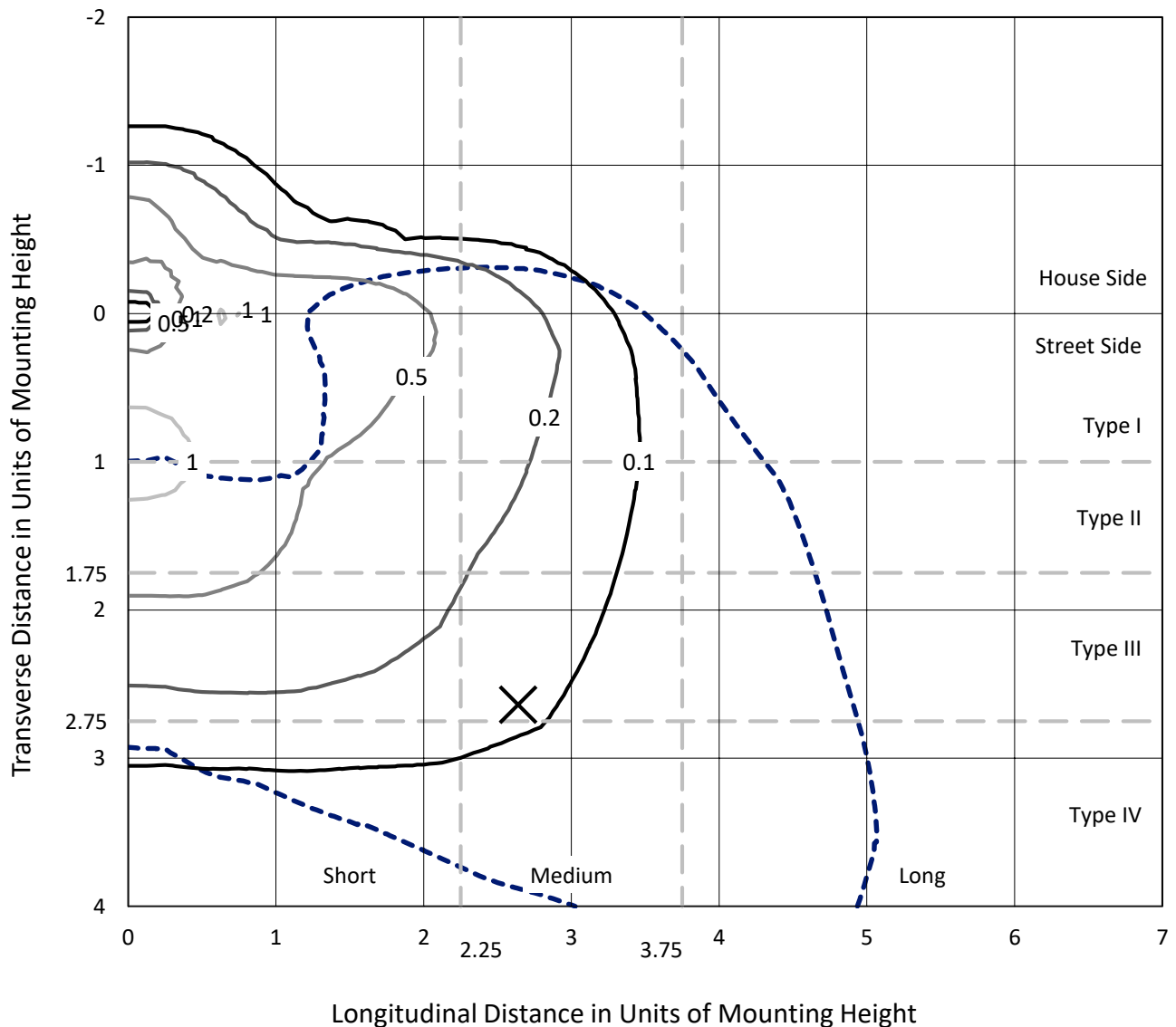
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

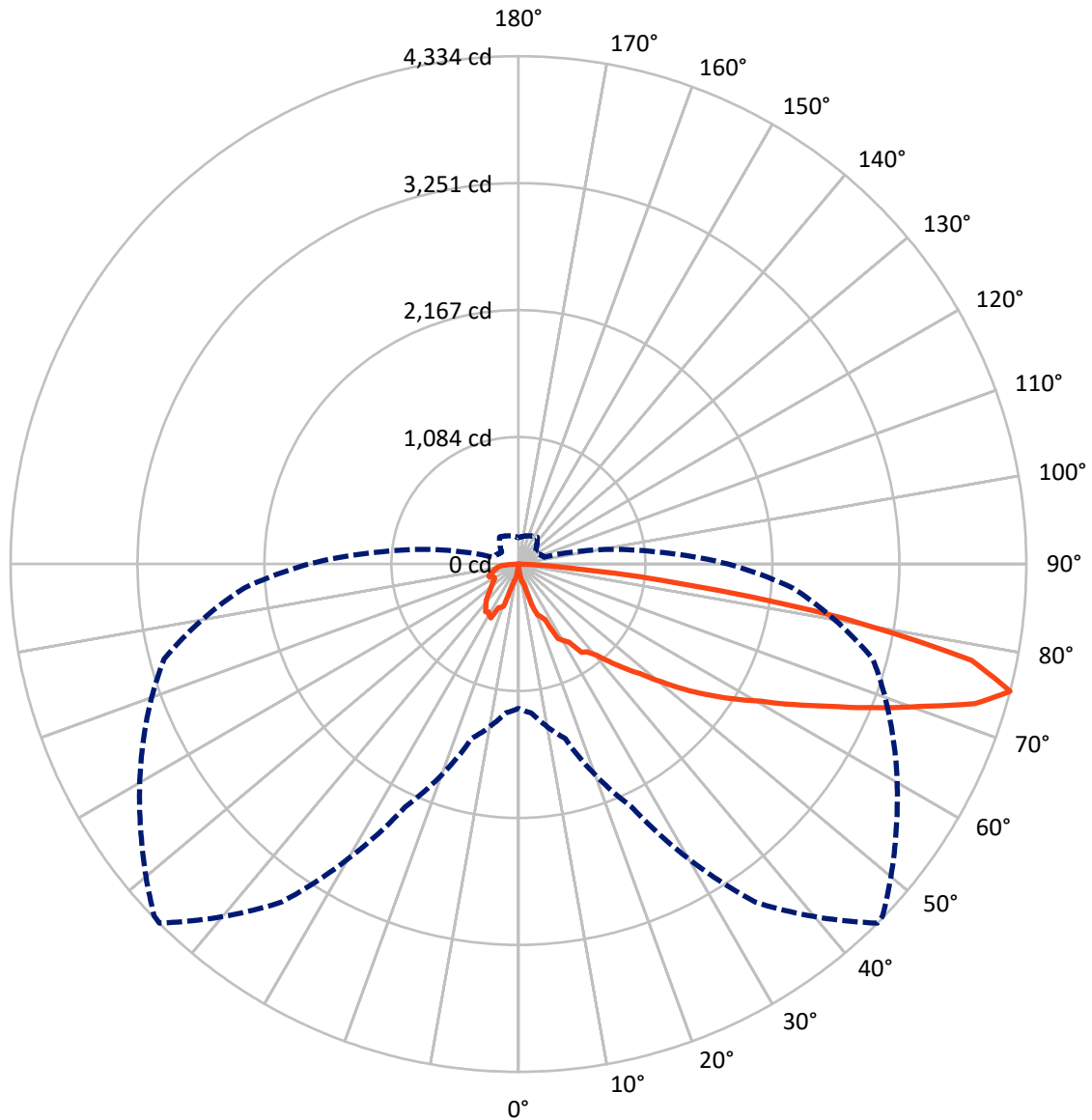
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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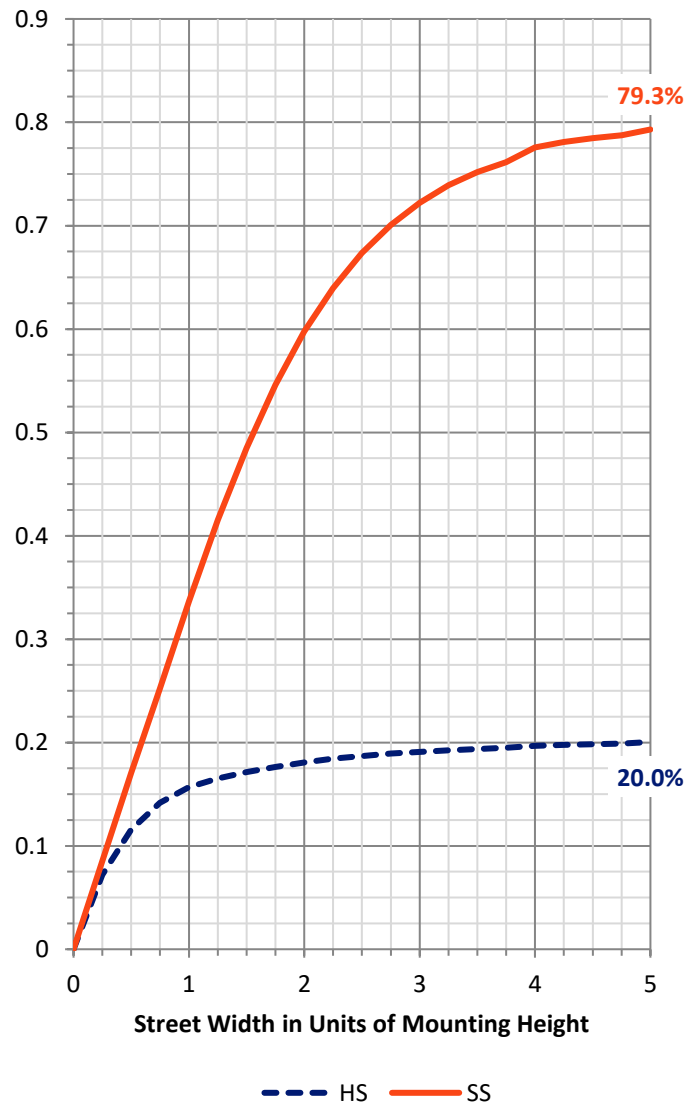
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1390.4	0.0	1390.4
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	5388.6	0.0	5388.6
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	6779.0	0.0	6779.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.1
10°-20°	70.0	1.0
20°-30°	260.5	3.8
30°-40°	536.7	7.9
40°-50°	850.9	12.6
50°-60°	1345.2	19.8
60°-70°	1889.9	27.9
70°-80°	1573.3	23.2
80°-90°	248.1	3.7
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°	6779.0	100.0
0°-180°	6779.0	100.0

**Coefficient of Utilization**



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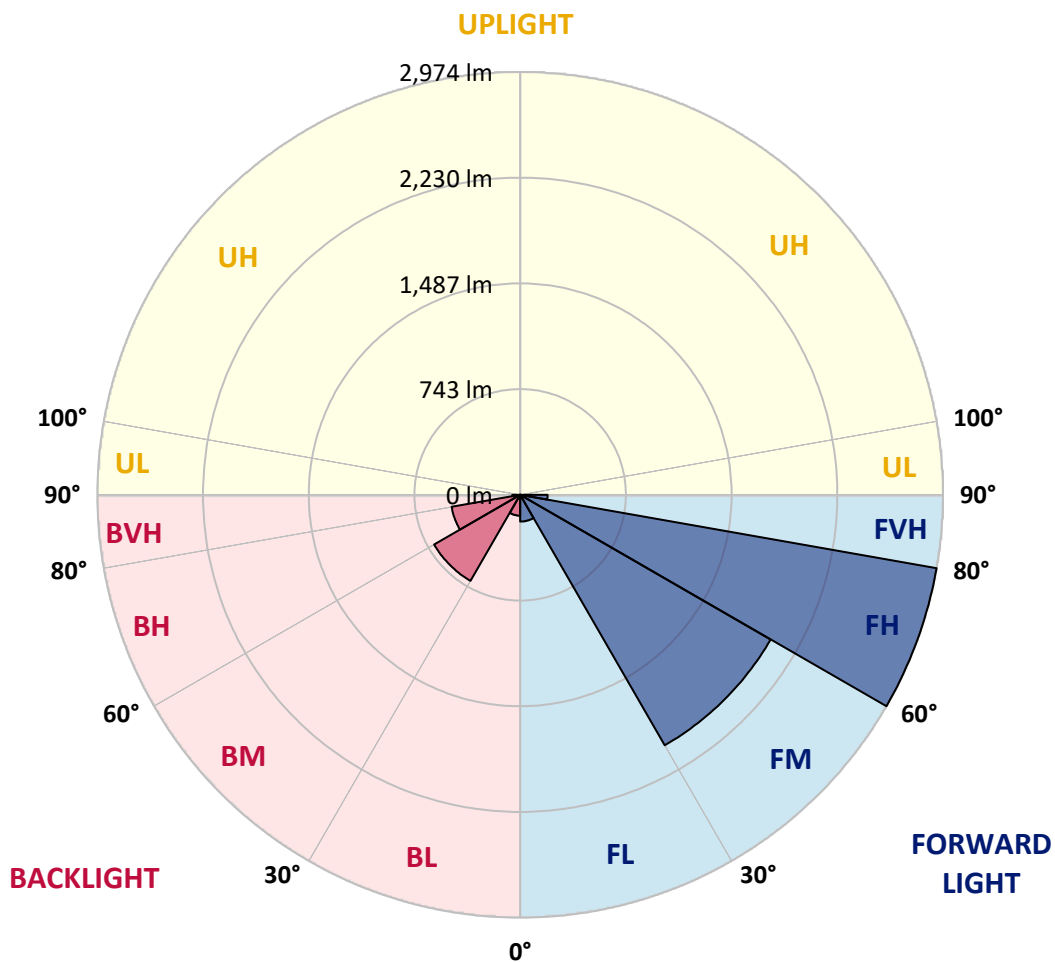
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.2	2.8			
FM	(30°-60°)	2034.0	30.0			
FH	(60°-80°)	2973.7	43.9			G2/5000
FVH	(80°-90°)	192.6	2.8			G2/225
BL	(0°-30°)	146.7	2.2	B1/500		
BM	(30°-60°)	698.8	10.3	B1/1000		
BH	(60°-80°)	489.5	7.2	B1/500		G1/500
BVH	(80°-90°)	55.4	0.8			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	3.7	3.7	3.7	3.7	3.7	2.9	2.9	2.2	2.9	2.9	2.9
5°	52.2	49.3	39.0	34.6	28.7	11.8	9.6	4.4	3.7	3.7	2.9
7.5°	155.1	153.7	151.5	146.3	139.7	87.5	75.7	27.2	5.1	3.7	2.9
10°	171.3	168.4	164.7	159.5	153.7	146.3	145.6	133.8	24.3	8.1	6.6
12.5°	336.7	330.8	276.4	200.0	165.4	156.6	156.6	151.5	109.5	38.2	89.7
15°	361.7	358.8	348.5	335.3	315.4	181.6	177.9	236.7	291.9	204.4	216.9
17.5°	406.6	400.0	368.3	352.2	337.5	366.1	363.9	338.9	319.8	226.4	243.4
20°	566.8	563.2	549.9	394.1	363.2	463.2	464.6	384.5	347.8	400.7	397.7
22.5°	580.1	579.3	569.8	546.3	575.7	486.0	486.7	511.0	508.0	531.6	482.3
25°	758.7	756.5	613.9	563.2	628.6	523.5	547.0	633.7	566.1	576.4	602.1
27.5°	778.6	777.1	769.0	733.7	650.7	721.2	721.2	655.1	721.2	755.1	759.5
30°	885.2	857.2	800.6	783.7	758.0	757.3	759.5	758.7	834.5	790.3	834.5
32.5°	1041.0	1035.2	1014.6	849.9	842.5	794.0	819.0	876.4	871.2	1005.0	1062.4
35°	1266.0	1185.9	1113.1	980.8	874.9	924.9	928.6	908.7	1014.6	1057.2	1138.1
37.5°	1580.0	1557.9	1455.0	1104.3	974.9	950.6	952.8	1017.5	1078.5	1125.6	1216.0
40°	1808.6	1796.8	1725.5	1352.0	1069.0	1020.5	1025.6	1067.5	1124.1	1207.9	1302.0
42.5°	2027.7	2027.7	1985.8	1563.8	1271.2	1139.6	1135.9	1144.7	1185.1	1273.4	1429.2
45°	2170.3	2162.2	2197.5	1763.0	1421.9	1267.5	1253.5	1251.3	1266.0	1370.4	1599.8
47.5°	2313.7	2291.6	2325.4	1964.5	1618.9	1399.8	1401.3	1374.1	1393.9	1554.2	1832.9
50°	2465.1	2469.5	2465.1	2134.3	1812.3	1580.0	1567.5	1532.9	1572.6	1769.6	2093.9
52.5°	2681.3	2665.8	2622.5	2350.4	2059.3	1779.9	1760.1	1710.1	1803.5	2023.3	2420.3
55°	2838.6	2823.9	2812.2	2582.0	2249.0	1973.3	1961.5	1906.4	2081.4	2279.1	2757.0
57.5°	3009.9	2992.3	3026.1	2898.2	2546.7	2175.5	2160.0	2126.2	2366.6	2571.0	3099.6
60°	3125.4	3126.1	3218.7	3126.1	2795.2	2377.6	2362.9	2387.9	2627.6	2838.6	3469.4
62.5°	3125.4	3149.6	3353.3	3375.3	3061.4	2641.6	2615.9	2629.8	2911.4	3119.5	3773.1
65°	2829.1	2859.2	3334.1	3447.4	3328.3	2926.8	2914.3	2905.5	3179.8	3341.5	4011.3
67.5°	2526.9	2564.4	3044.5	3451.0	3546.6	3273.1	3227.5	3153.3	3411.3	3506.9	4139.2
70°	2317.4	2348.2	2729.8	3332.7	3687.8	3636.3	3606.2	3410.6	3566.5	3612.1	3995.1
72.5°	1977.0	1979.9	2319.6	3082.7	3782.6	4075.2	4004.7	3695.9	3654.0	3543.7	3387.8
75°	1232.2	1277.0	1541.7	2288.0	3520.9	4334.0	4320.8	3935.5	3529.0	3131.2	2349.0
77.5°	458.8	485.2	644.8	1174.9	2519.5	3953.2	3965.0	3675.3	2984.9	2268.8	1261.6
80°	149.2	160.3	213.2	378.6	1119.0	2813.6	2905.5	2607.0	1830.7	1152.8	531.6
82.5°	83.1	80.1	123.5	196.3	477.9	1457.9	1518.2	1253.5	863.1	482.3	198.5
85°	38.2	39.7	58.8	106.6	255.1	406.6	438.9	428.6	327.2	198.5	72.8
87.5°	8.1	9.6	13.2	25.0	39.7	34.6	25.0	44.1	64.0	47.1	12.5
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	2.9	2.9	2.2	2.2	1.5	1.5	0.7	0.7	1.5	1.5	1.5
5°	2.9	2.9	2.2	2.2	2.2	2.2	2.9	5.1	5.9	6.6	5.9
7.5°	2.9	2.9	2.9	2.9	3.7	7.4	34.6	105.9	112.5	114.7	117.6
10°	6.6	5.9	5.9	6.6	22.8	111.0	133.8	141.2	144.8	147.0	146.3
12.5°	102.2	101.5	37.5	22.8	106.6	140.4	144.1	148.5	155.9	163.2	160.3
15°	216.1	215.4	198.5	205.9	207.3	152.9	155.9	255.1	272.0	283.1	286.7
17.5°	235.3	237.5	230.9	284.5	291.1	231.6	259.5	284.5	290.4	294.1	294.8
20°	436.7	392.6	336.0	318.3	310.3	382.3	289.7	292.6	377.9	405.1	408.0
22.5°	480.1	476.4	445.5	458.8	387.5	398.5	375.0	395.5	433.8	441.9	441.9
25°	619.8	613.2	508.8	477.9	491.9	409.5	473.5	430.8	444.8	459.5	461.0
27.5°	761.7	753.6	679.3	537.4	487.4	516.8	480.8	519.8	562.4	583.0	583.8
30°	827.8	816.8	708.7	605.8	507.3	505.8	505.1	574.9	571.3	584.5	588.2
32.5°	1099.9	1082.2	905.8	595.5	526.4	480.8	536.0	559.5	643.3	684.5	688.9
35°	1166.0	1144.0	910.2	658.7	497.0	495.5	497.0	574.2	619.8	649.2	655.8
37.5°	1241.8	1211.6	899.9	617.6	508.8	461.7	472.7	518.3	617.6	683.7	688.9
40°	1335.9	1289.5	896.9	576.4	474.2	436.7	434.5	495.5	539.6	580.1	583.8
42.5°	1466.0	1391.7	892.5	533.8	433.8	406.6	410.2	436.7	472.0	468.3	474.2
45°	1638.8	1518.9	885.2	496.3	392.6	369.1	366.9	386.0	402.2	378.6	372.0
47.5°	1854.9	1676.3	896.9	460.2	354.4	332.3	333.0	341.1	344.1	318.3	312.5
50°	2100.5	1854.2	909.4	420.5	323.5	306.6	302.9	305.8	301.4	276.4	274.2
52.5°	2393.1	2063.0	916.1	383.0	298.5	285.3	280.8	278.6	272.0	255.1	252.9
55°	2732.0	2313.7	930.0	352.9	277.9	265.4	263.2	260.3	258.1	248.5	247.0
57.5°	3079.0	2590.1	921.9	322.0	258.1	247.0	251.4	256.6	262.5	258.8	258.1
60°	3397.4	2810.7	822.0	294.8	238.9	236.0	255.1	279.4	283.8	287.5	286.7
62.5°	3635.6	2921.7	652.1	271.3	225.7	236.7	283.1	316.9	312.5	302.9	300.7
65°	3719.4	2890.8	502.1	253.6	219.1	256.6	312.5	330.1	305.1	287.5	283.8
67.5°	3663.5	2738.6	388.9	238.9	215.4	273.5	322.8	317.6	288.9	275.7	270.6
70°	3377.5	2421.8	308.8	226.4	211.7	263.2	317.6	302.9	275.7	263.9	255.9
72.5°	2763.6	1915.2	264.7	212.5	196.3	241.9	301.4	283.1	263.9	248.5	241.1
75°	1787.3	1177.8	230.1	196.3	175.7	219.1	280.8	263.9	247.8	232.3	225.0
77.5°	860.2	535.2	201.4	176.4	156.6	202.2	263.9	244.1	227.9	212.5	203.7
80°	362.5	252.9	172.0	156.6	142.6	189.7	245.6	222.8	204.4	193.4	183.8
82.5°	176.4	139.7	130.9	127.2	124.2	172.8	225.7	197.8	178.7	168.4	147.0
85°	59.6	60.3	80.9	78.7	87.5	138.2	184.5	150.0	133.8	116.2	108.8
87.5°	5.9	8.1	11.0	14.0	28.7	38.2	63.2	51.5	40.4	15.4	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)