

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: P198800

Luminaire Tested: **XNV-AF-01-LED-U-T4W-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T4W-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6707.5 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

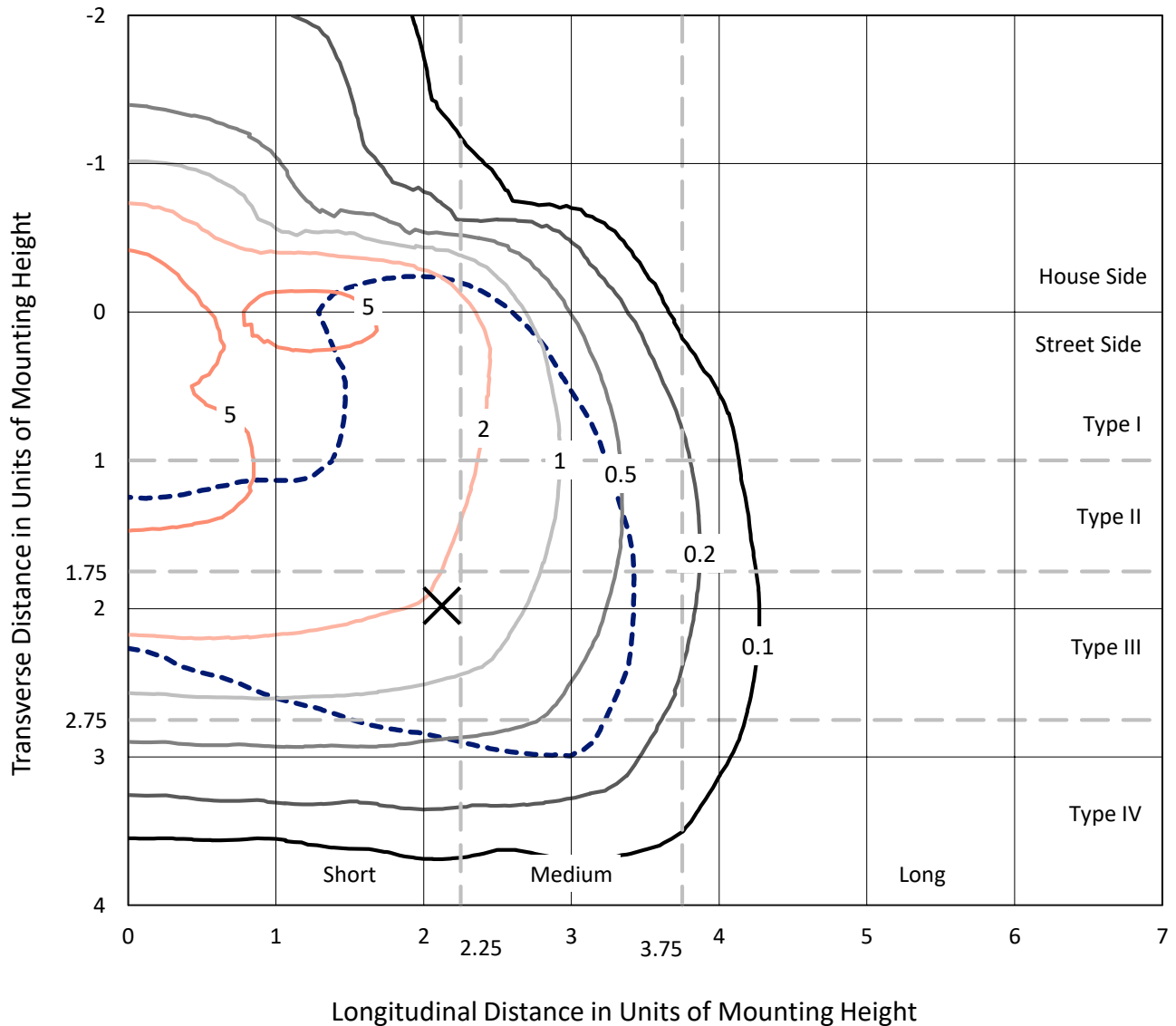
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

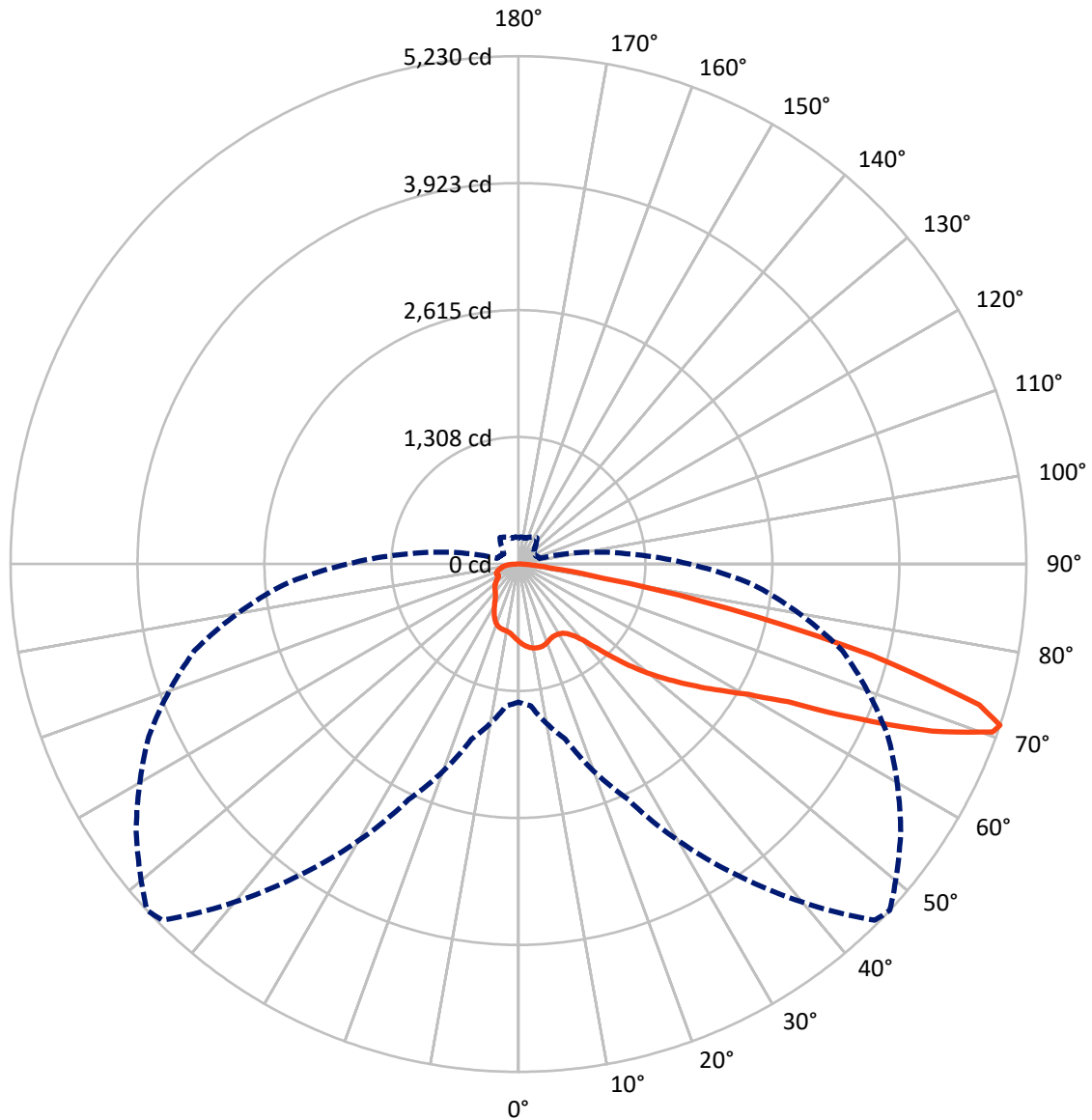
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.5	0.0	1437.5
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	5270.0	0.0	5270.0
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	6707.5	0.0	6707.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	1.1
10°-20°	222.8	3.3
20°-30°	331.1	4.9
30°-40°	475.4	7.1
40°-50°	842.9	12.6
50°-60°	1442.3	21.5
60°-70°	2047.5	30.5
70°-80°	1121.4	16.7
80°-90°	148.0	2.2
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°	6707.5	100.0
0°-180°	6707.5	100.0



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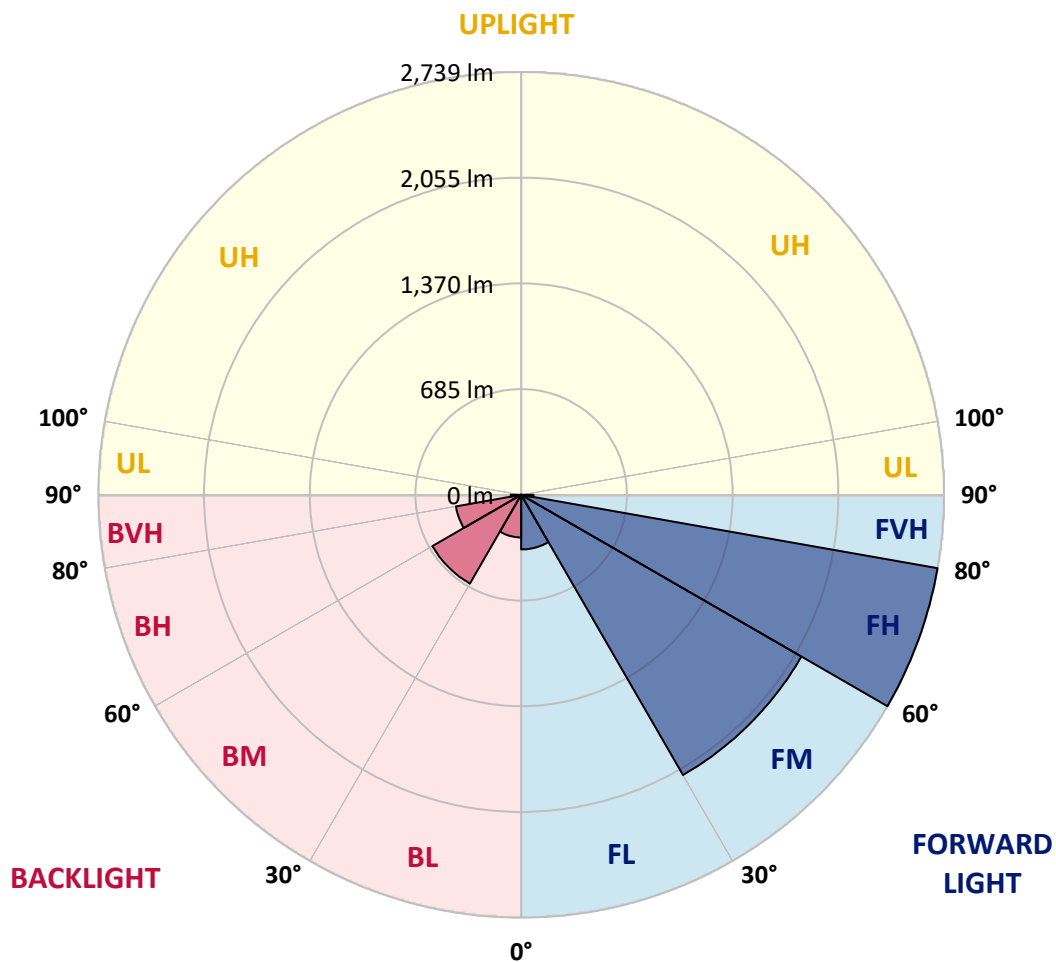
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.0	5.3			
FM	(30°-60°)	2096.3	31.3			
FH	(60°-80°)	2739.4	40.8			G2/5000
FVH	(80°-90°)	80.3	1.2			G1/100
BL	(0°-30°)	276.0	4.1	B1/500		
BM	(30°-60°)	664.2	9.9	B1/1000		
BH	(60°-80°)	429.5	6.4	B1/500		G1/500
BVH	(80°-90°)	67.7	1.0			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6
2.5°	846.3	844.5	845.5	842.4	835.0	827.2	827.2	819.0	810.3	801.6	792.0
5°	898.9	896.3	894.2	884.5	870.2	854.2	851.5	835.0	817.2	799.3	781.9
7.5°	942.9	940.2	933.6	916.3	895.4	871.6	868.5	846.8	823.3	798.5	774.2
10°	974.2	972.4	959.7	937.6	913.3	885.0	879.7	857.6	829.8	798.9	768.0
12.5°	991.5	988.9	973.6	947.6	918.9	890.2	885.0	863.7	832.0	798.1	762.0
15°	984.6	983.3	968.9	942.3	913.7	888.9	884.5	862.9	830.6	795.0	756.4
17.5°	955.0	958.0	946.7	920.7	897.1	879.7	875.0	854.6	824.2	787.7	747.7
20°	914.1	917.6	912.0	885.5	872.0	860.7	858.1	841.6	813.2	776.7	737.2
22.5°	870.6	873.7	874.1	849.4	845.1	840.7	838.5	826.7	803.7	770.3	730.3
25°	840.7	844.1	845.1	823.3	825.9	827.2	826.7	818.5	802.0	770.3	731.1
27.5°	832.9	834.6	833.7	813.8	818.5	825.9	826.3	824.6	808.9	779.0	743.3
30°	859.8	860.7	849.8	819.8	824.6	834.1	834.6	833.7	823.7	801.6	770.7
32.5°	976.3	975.4	938.0	860.7	844.1	847.6	848.9	856.7	857.6	838.9	810.3
35°	1153.7	1153.2	1109.7	977.6	899.8	881.5	883.2	895.4	906.3	893.6	877.2
37.5°	1348.8	1350.1	1323.6	1144.5	1019.8	943.7	941.9	951.0	970.7	975.0	977.1
40°	1565.3	1571.8	1570.5	1336.2	1188.0	1049.8	1032.4	1021.9	1059.8	1083.6	1114.5
42.5°	1812.6	1810.8	1811.7	1546.6	1380.1	1216.7	1184.5	1135.8	1179.7	1221.0	1288.8
45°	2025.1	2032.1	2037.3	1770.4	1595.3	1407.5	1374.8	1286.3	1325.7	1387.5	1491.0
47.5°	2239.0	2226.9	2236.4	2019.5	1834.8	1625.3	1583.1	1463.5	1500.5	1587.4	1744.7
50°	2488.1	2482.4	2439.0	2344.6	2124.3	1846.1	1790.9	1648.7	1702.6	1818.7	2058.2
52.5°	2711.5	2681.1	2647.2	2600.2	2408.9	2069.5	1999.6	1841.3	1940.4	2084.3	2447.2
55°	2793.3	2772.8	2813.6	2874.5	2710.2	2297.2	2219.0	2066.1	2208.6	2388.1	2905.0
57.5°	2880.2	2887.2	2979.2	3102.3	2995.4	2540.3	2455.5	2332.0	2502.9	2728.0	3416.6
60°	2923.6	2951.4	3135.3	3366.1	3266.6	2806.7	2725.4	2637.6	2829.3	3103.6	3926.9
62.5°	2931.1	2968.4	3228.7	3458.7	3640.0	3214.8	3121.0	3025.8	3237.0	3518.7	4296.4
65°	2795.4	2852.8	3220.6	3572.7	3980.3	3896.9	3837.3	3671.3	3783.0	3884.2	4359.4
67.5°	2396.8	2459.4	2901.9	3525.7	4253.3	4604.5	4593.3	4348.1	4204.6	4025.5	3892.1
70°	1759.2	1809.6	2234.6	3014.0	4134.3	5160.1	5180.0	4786.7	4322.5	3725.6	2894.0
71°	1422.7	1466.2	1867.0	2675.8	3902.1	5188.7	5230.4	4806.2	4199.8	3454.8	2422.9
72.5°	885.5	909.8	1239.7	2019.5	3360.1	4893.2	4963.6	4555.8	3813.9	2920.1	1712.6
75°	334.3	343.8	459.9	890.7	2005.6	3676.1	3761.3	3443.0	2679.3	1667.0	716.8
77.5°	179.5	184.3	228.2	370.3	803.7	2107.3	2216.8	1963.9	1285.3	583.3	293.0
80°	120.4	123.5	157.7	219.5	369.5	802.4	893.6	788.5	481.2	333.0	208.7
82.5°	77.8	79.6	107.4	144.3	238.7	282.1	322.1	336.4	300.3	238.7	126.0
85°	51.2	52.6	70.9	92.2	147.8	139.1	142.6	186.5	204.7	157.3	64.3
87.5°	29.6	30.4	42.6	47.4	66.5	52.2	56.5	88.7	121.7	102.6	36.9
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°	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6	797.6
2.5°	787.7	784.2	776.3	771.5	769.4	768.5	767.6	769.4	769.4	768.5	766.8
5°	773.2	766.8	753.7	744.6	739.8	738.5	740.2	742.5	743.7	743.7	742.5
7.5°	762.8	753.3	735.9	723.3	716.0	713.7	718.5	726.3	731.5	734.2	734.6
10°	754.1	741.1	722.0	709.0	702.9	702.1	708.1	718.1	729.0	733.8	734.6
12.5°	746.3	731.5	710.7	698.6	694.2	696.3	704.6	713.7	726.3	733.3	733.8
15°	739.0	723.7	701.5	689.0	688.1	691.6	699.4	706.8	716.4	725.1	725.1
17.5°	730.3	713.7	690.7	678.9	678.9	682.0	687.2	691.1	697.2	705.5	705.0
20°	719.9	702.9	679.4	667.3	664.6	662.9	662.9	663.8	669.0	676.4	677.7
22.5°	712.0	694.6	669.8	655.1	643.3	632.0	627.3	625.5	630.2	637.2	638.9
25°	712.0	694.6	666.8	642.0	613.4	591.6	582.5	579.8	584.6	591.2	593.7
27.5°	723.7	706.3	673.7	630.2	577.7	542.9	532.0	529.9	534.2	539.4	542.1
30°	751.2	734.2	693.8	616.8	538.2	492.4	480.3	478.1	480.3	482.5	485.5
32.5°	796.8	782.5	726.3	604.7	498.2	446.8	432.1	428.6	429.4	429.9	432.5
35°	871.0	864.6	769.8	590.2	460.3	409.5	394.2	387.3	386.9	389.0	392.1
37.5°	985.0	988.9	825.9	569.5	429.0	383.0	367.8	360.8	357.3	361.6	365.1
40°	1145.8	1154.9	890.7	541.1	403.3	367.3	351.2	344.7	339.9	338.6	340.3
42.5°	1354.9	1352.2	956.8	505.1	375.5	356.9	339.9	333.0	325.1	315.2	312.9
45°	1602.7	1565.3	1011.9	460.7	343.8	346.9	329.5	319.9	307.7	293.0	291.2
47.5°	1895.2	1792.2	1045.9	413.4	314.3	333.8	317.7	303.0	285.2	275.6	274.3
50°	2247.7	2057.8	1069.7	365.1	287.8	317.3	301.3	281.7	264.3	261.7	261.3
52.5°	2665.0	2371.2	1099.3	321.6	266.9	296.0	284.7	264.7	250.8	252.2	252.2
55°	3108.8	2695.5	1100.2	287.3	248.7	271.3	272.5	256.5	245.6	249.9	251.2
57.5°	3513.5	2978.8	1013.6	263.0	231.3	251.6	268.6	259.5	251.2	266.5	267.8
60°	3866.4	3197.0	827.7	243.0	216.9	244.3	277.3	278.2	276.5	317.7	320.8
62.5°	3995.5	3199.2	587.7	226.1	209.1	248.7	295.5	296.9	296.9	335.1	340.7
65°	3814.7	2932.8	391.2	216.0	203.9	258.2	310.4	304.7	291.2	317.7	311.7
67.5°	3177.5	2282.9	286.0	209.5	196.5	258.6	323.4	309.0	286.0	308.6	298.2
70°	2183.8	1452.7	239.5	203.5	187.8	247.3	330.3	307.7	278.2	287.8	273.8
71°	1757.8	1159.3	227.3	201.2	184.3	240.8	331.2	306.0	274.3	280.4	267.8
72.5°	1158.0	714.2	212.6	196.5	179.1	229.6	329.1	302.1	269.0	269.5	261.3
75°	456.8	296.0	191.3	185.6	164.3	211.2	319.5	293.8	259.1	250.4	246.9
77.5°	230.8	193.4	168.2	170.4	146.9	192.5	306.0	280.4	245.2	233.4	230.8
80°	168.7	146.9	143.9	147.8	127.4	174.3	289.1	262.1	227.3	239.5	234.3
82.5°	102.6	89.5	112.6	122.1	106.5	155.6	269.0	240.8	204.7	188.6	182.6
85°	48.7	52.6	81.3	90.0	78.7	124.3	246.0	217.4	178.6	154.3	156.9
87.5°	23.9	29.2	46.5	53.9	51.8	91.2	185.6	168.7	140.9	116.1	113.4
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)