

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: P271279

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271279  
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-7027-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4195.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 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 - G1

Input Watts (W): 44  
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

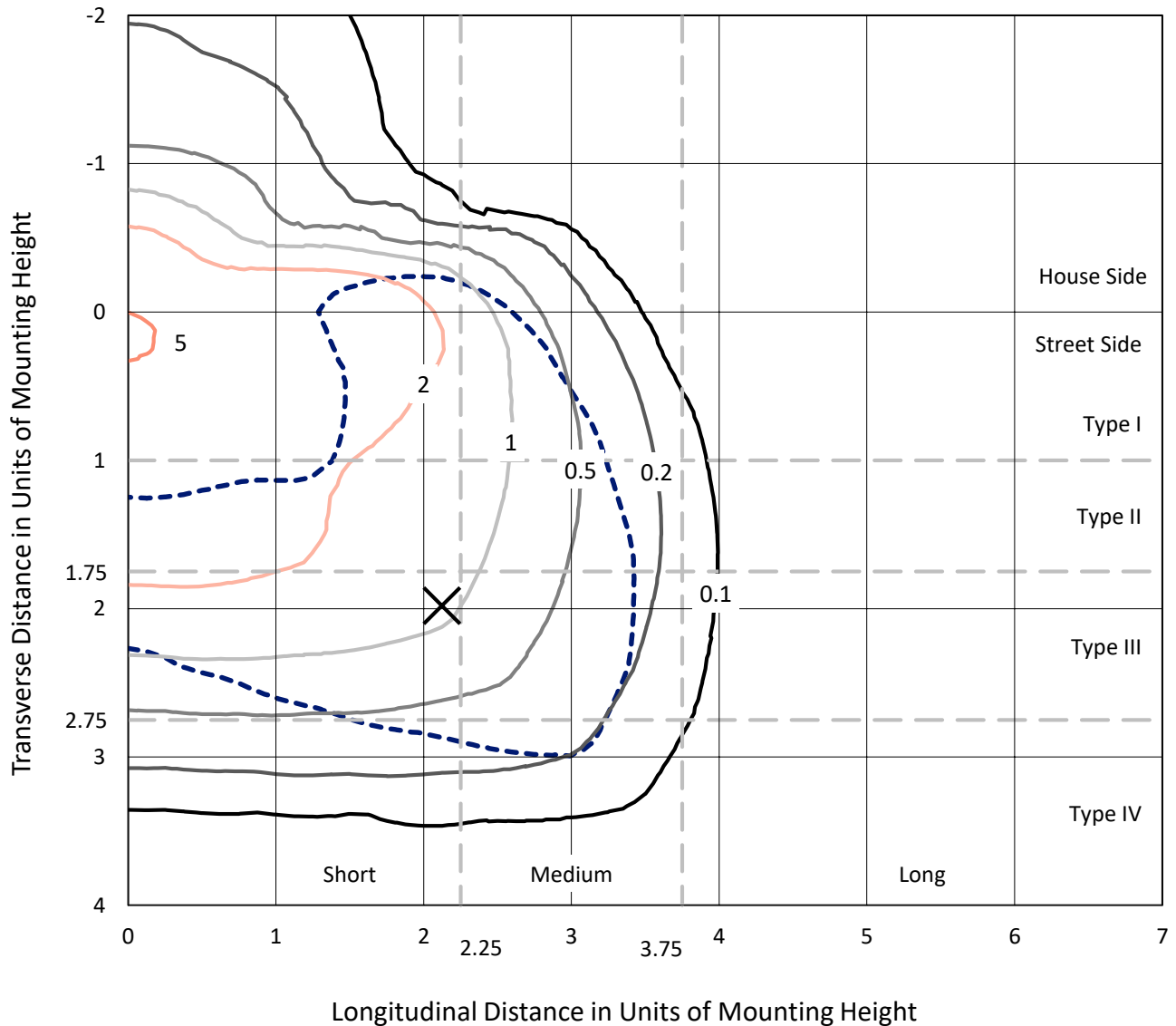


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

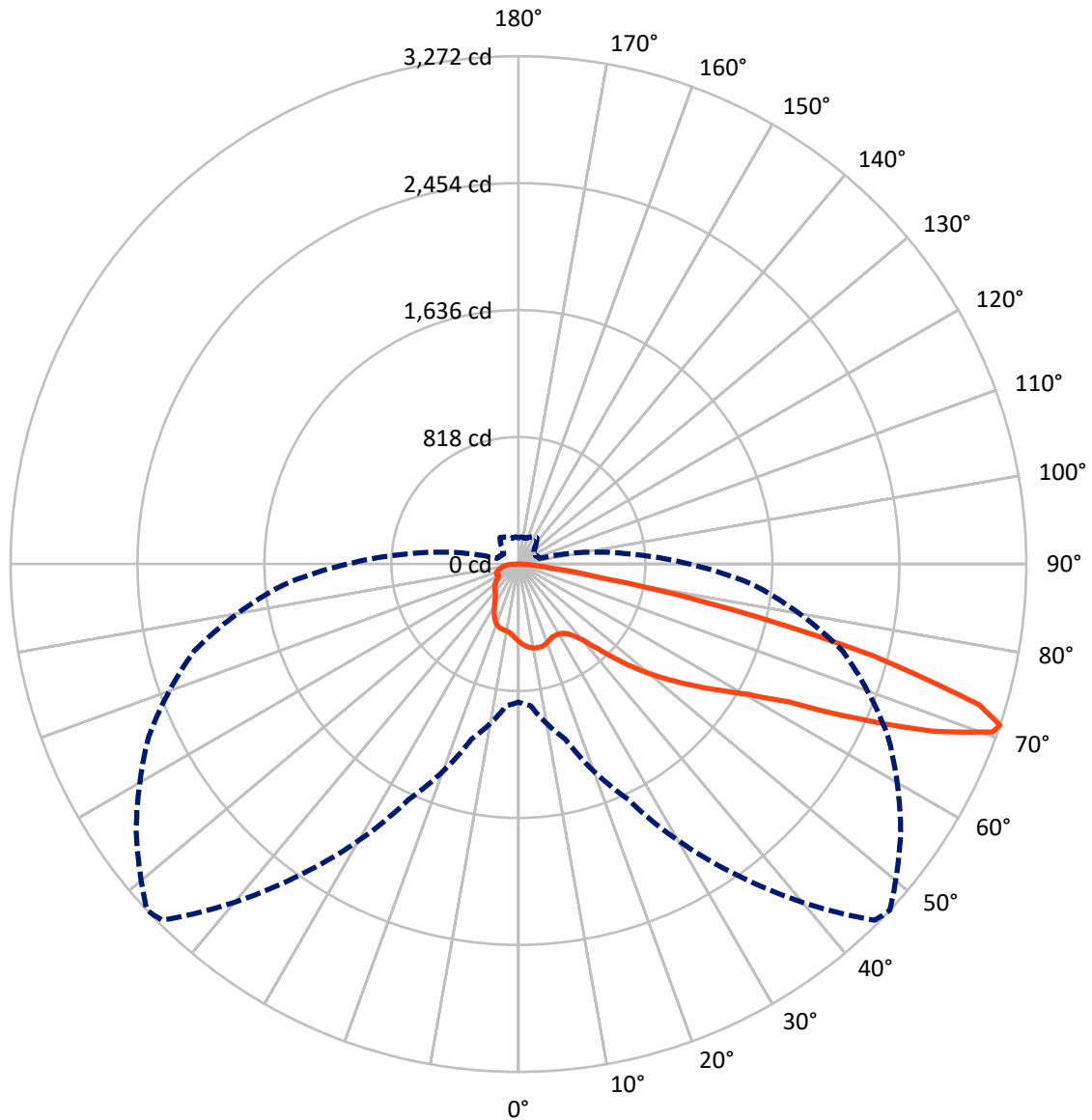


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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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	899.2	0.0	899.2
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	3296.6	0.0	3296.6
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	4195.8	0.0	4195.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	139.4	3.3
20°-30°	207.1	4.9
30°-40°	297.4	7.1
40°-50°	527.2	12.6
50°-60°	902.2	21.5
60°-70°	1280.8	30.5
70°-80°	701.5	16.7
80°-90°	92.6	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°	4195.8	100.0
0°-180°	4195.8	100.0

**Coefficient of Utilization**



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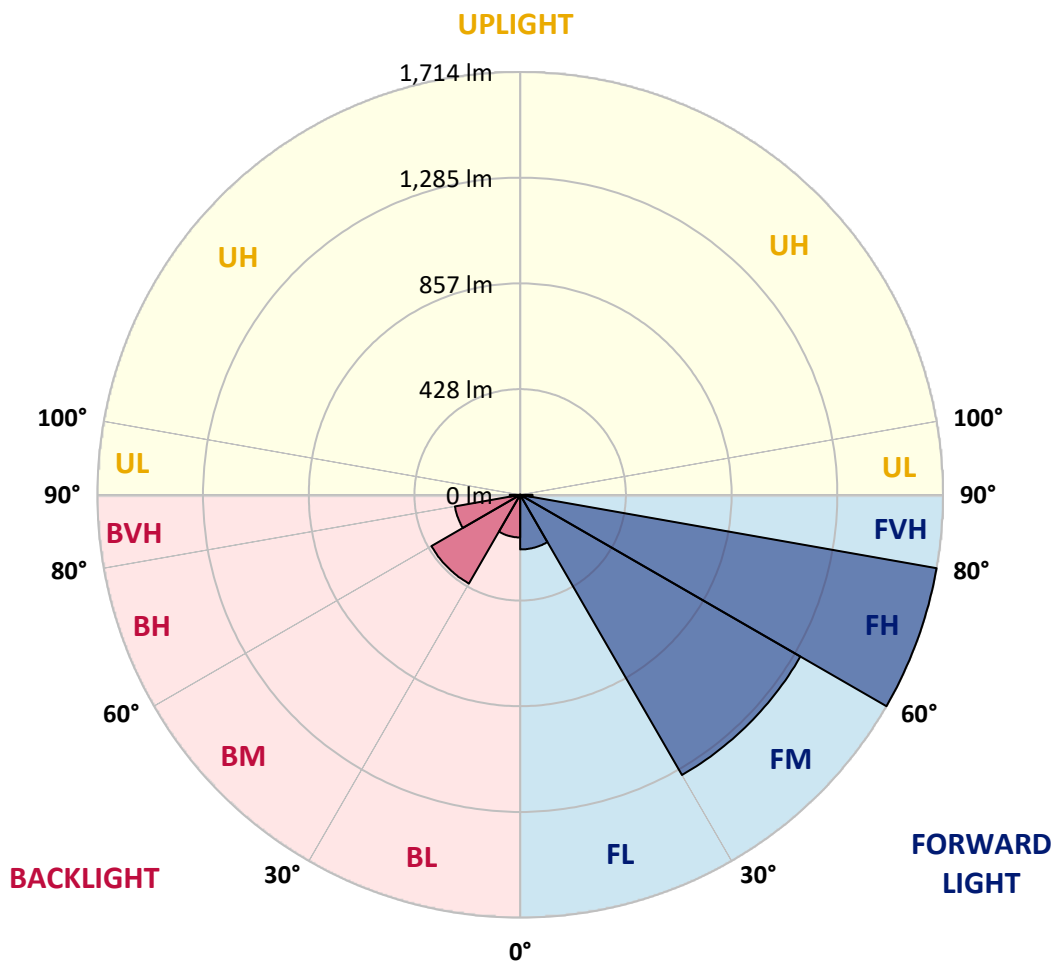
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.4	5.3			
FM	(30°-60°)	1311.3	31.3			
FH	(60°-80°)	1713.6	40.8			G1/1800
FVH	(80°-90°)	50.2	1.2			G1/100
BL	(0°-30°)	172.7	4.1	B1/500		
BM	(30°-60°)	415.5	9.9	B1/1000		
BH	(60°-80°)	268.7	6.4	B1/500		G1/500
BVH	(80°-90°)	42.4	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	529.5	528.4	528.8	526.9	522.4	517.5	517.5	512.3	506.9	501.4	495.4
5°	562.2	560.7	559.4	553.4	544.4	534.3	532.6	522.4	511.1	500.0	489.1
7.5°	589.7	588.1	584.1	573.2	560.2	545.2	543.3	529.7	515.0	499.5	484.2
10°	609.3	608.2	600.3	586.6	571.3	553.6	550.3	536.5	519.1	499.7	480.5
12.5°	620.2	618.7	609.1	592.7	574.8	556.9	553.6	540.3	520.5	499.2	476.7
15°	615.9	615.1	606.0	589.5	571.5	556.1	553.4	539.7	519.6	497.3	473.1
17.5°	597.5	599.3	592.3	576.0	561.3	550.3	547.3	534.6	515.5	492.7	467.7
20°	571.9	573.9	570.5	553.9	545.5	538.4	536.7	526.4	508.7	486.0	461.2
22.5°	544.6	546.6	546.8	531.3	528.7	525.9	524.5	517.2	502.7	481.9	456.8
25°	525.9	528.1	528.7	515.0	516.6	517.5	517.2	512.0	501.7	481.9	457.3
27.5°	520.9	522.0	521.6	509.0	512.0	516.6	517.0	515.7	506.0	487.3	465.0
30°	537.8	538.4	531.5	512.8	515.7	521.7	522.0	521.6	515.3	501.4	482.1
32.5°	610.7	610.2	586.9	538.4	528.1	530.2	531.1	535.8	536.5	524.8	506.9
35°	721.7	721.3	694.2	611.6	562.9	551.4	552.5	560.2	566.9	559.0	548.8
37.5°	843.8	844.5	828.0	715.9	637.8	590.4	589.2	594.9	607.2	609.9	611.2
40°	979.2	983.3	982.3	835.9	743.2	656.8	645.8	639.2	662.9	678.0	697.2
42.5°	1133.9	1132.9	1133.3	967.5	863.4	761.0	740.9	710.5	738.0	763.7	806.1
45°	1266.8	1271.2	1274.4	1107.5	997.8	880.5	860.0	804.6	829.3	867.9	932.6
47.5°	1400.5	1393.0	1399.0	1263.2	1147.8	1016.7	990.3	915.6	938.5	993.0	1091.4
50°	1556.5	1552.9	1525.7	1466.8	1328.9	1154.9	1120.2	1031.3	1065.1	1137.7	1287.5
52.5°	1696.2	1677.1	1655.9	1626.7	1506.9	1294.5	1250.8	1151.7	1213.8	1303.8	1530.8
55°	1747.4	1734.4	1760.0	1798.1	1695.3	1437.1	1388.2	1292.4	1381.6	1493.9	1817.2
57.5°	1801.7	1806.0	1863.7	1940.6	1873.8	1589.0	1536.0	1458.8	1565.7	1706.5	2137.2
60°	1828.9	1846.2	1961.3	2105.6	2043.5	1755.6	1704.9	1649.9	1769.9	1941.4	2456.4
62.5°	1833.5	1856.8	2019.7	2163.6	2276.9	2011.0	1952.2	1892.8	2024.9	2201.0	2687.5
65°	1748.6	1784.6	2014.5	2234.9	2489.9	2437.7	2400.5	2296.5	2366.4	2429.7	2727.0
67.5°	1499.4	1538.4	1815.2	2205.5	2660.6	2880.3	2873.3	2719.9	2630.1	2518.2	2434.6
70°	1100.5	1132.0	1397.9	1885.5	2586.1	3227.8	3240.4	2994.3	2703.9	2330.6	1810.4
71°	890.0	917.2	1167.8	1673.9	2441.0	3245.8	3271.8	3006.4	2627.3	2161.1	1515.6
72.5°	553.9	569.0	775.4	1263.2	2101.9	3060.9	3104.9	2850.0	2385.8	1826.8	1071.3
75°	209.0	215.1	287.6	557.2	1254.7	2299.5	2352.8	2153.7	1676.1	1042.8	448.3
77.5°	112.3	115.3	142.7	231.7	502.7	1318.3	1386.8	1228.5	804.1	364.9	183.3
80°	75.3	77.3	98.8	137.4	231.1	502.0	559.0	493.3	301.0	208.2	130.6
82.5°	48.7	49.8	67.2	90.3	149.3	176.4	201.5	210.5	187.8	149.3	78.8
85°	32.1	32.9	44.3	57.6	92.4	87.0	89.2	116.7	128.1	98.5	40.2
87.5°	18.4	19.0	26.6	29.6	41.6	32.6	35.4	55.4	76.1	64.1	23.0
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°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	492.7	490.6	485.7	482.6	481.3	480.8	480.2	481.3	481.3	480.8	479.6
5°	483.7	479.6	471.5	465.9	462.7	462.0	463.0	464.5	465.2	465.2	464.5
7.5°	477.2	471.3	460.3	452.4	447.9	446.5	449.4	454.4	457.6	459.3	459.6
10°	471.8	463.6	451.7	443.6	439.7	439.1	443.0	449.2	456.0	458.9	459.6
12.5°	466.8	457.6	444.7	436.9	434.2	435.6	440.8	446.5	454.4	458.8	458.9
15°	462.3	452.7	438.8	430.9	430.5	432.7	437.6	442.1	448.2	453.6	453.6
17.5°	456.8	446.5	432.1	424.7	424.7	426.6	429.8	432.4	436.1	441.2	441.1
20°	450.3	439.7	425.0	417.4	415.7	414.7	414.7	415.1	418.5	423.1	423.9
22.5°	445.4	434.5	419.0	409.7	402.4	395.3	392.4	391.3	394.3	398.6	399.7
25°	445.4	434.5	417.2	401.6	383.7	370.1	364.4	362.7	365.7	369.8	371.4
27.5°	452.7	441.8	421.5	394.3	361.4	339.6	332.8	331.5	334.2	337.5	339.1
30°	469.9	459.3	434.1	385.8	336.7	308.1	300.5	299.0	300.5	301.8	303.7
32.5°	498.4	489.4	454.4	378.2	311.6	279.6	270.3	268.1	268.7	269.0	270.6
35°	544.9	540.8	481.5	369.3	287.9	256.1	246.7	242.3	242.1	243.4	245.2
37.5°	616.1	618.7	516.6	356.2	268.4	239.6	230.1	225.7	223.5	226.3	228.3
40°	716.8	722.4	557.2	338.5	252.3	229.7	219.6	215.7	212.5	211.8	212.9
42.5°	847.6	845.9	598.5	315.9	234.9	223.3	212.5	208.2	203.3	197.2	195.8
45°	1002.5	979.2	633.0	288.3	215.1	217.0	206.2	200.1	192.4	183.3	182.1
47.5°	1185.6	1121.1	654.2	258.6	196.5	208.9	198.7	189.5	178.4	172.4	171.5
50°	1406.0	1287.2	669.1	228.3	180.0	198.4	188.5	176.2	165.3	163.8	163.4
52.5°	1667.1	1483.3	687.7	201.2	166.9	185.2	178.1	165.6	156.9	157.7	157.7
55°	1944.7	1686.1	688.2	179.8	155.5	169.7	170.5	160.4	153.6	156.3	157.2
57.5°	2197.9	1863.4	634.2	164.5	144.6	157.5	168.1	162.4	157.2	166.6	167.5
60°	2418.6	1999.8	517.8	152.1	135.6	152.8	173.6	174.0	173.0	198.7	200.7
62.5°	2499.4	2001.2	367.6	141.5	130.9	155.5	185.0	185.7	185.7	209.7	213.2
65°	2386.3	1834.6	244.7	135.1	127.5	161.5	194.2	190.6	182.1	198.7	194.9
67.5°	1987.7	1428.0	178.9	131.1	122.9	161.8	202.3	193.3	178.9	193.0	186.5
70°	1366.1	908.7	149.7	127.3	117.5	154.7	206.7	192.4	174.0	180.0	171.2
71°	1099.6	725.2	142.2	125.9	115.3	150.6	207.1	191.3	171.5	175.3	167.5
72.5°	724.4	446.7	132.9	122.9	112.0	143.5	205.8	189.0	168.3	168.6	163.4
75°	285.8	185.2	119.7	116.2	102.8	132.1	199.9	183.9	162.1	156.7	154.5
77.5°	144.4	121.0	105.2	106.5	91.8	120.5	191.3	175.3	153.4	146.1	144.4
80°	105.6	91.8	90.0	92.4	79.7	109.1	180.7	164.0	142.2	149.7	146.6
82.5°	64.1	56.1	70.4	76.4	66.7	97.3	168.3	150.6	128.1	117.9	114.3
85°	30.5	32.9	50.8	56.2	49.1	77.8	153.9	136.0	111.7	96.5	98.2
87.5°	14.9	18.2	29.0	33.7	32.3	57.1	116.2	105.6	88.2	72.7	71.0
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)