

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: P198635

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198635  
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: XNV2-AF-02-LED-U-T4W-7030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6950 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

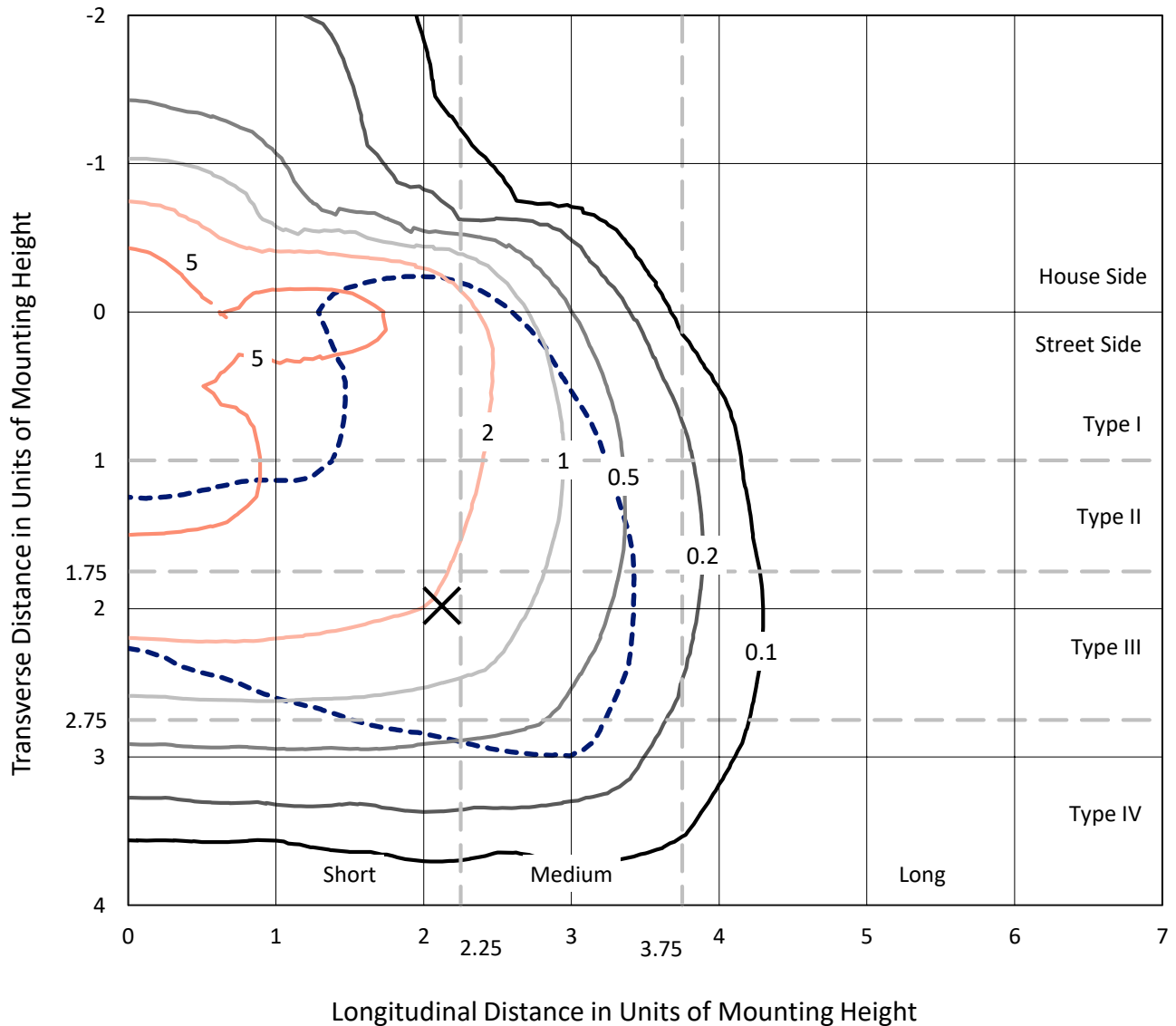
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

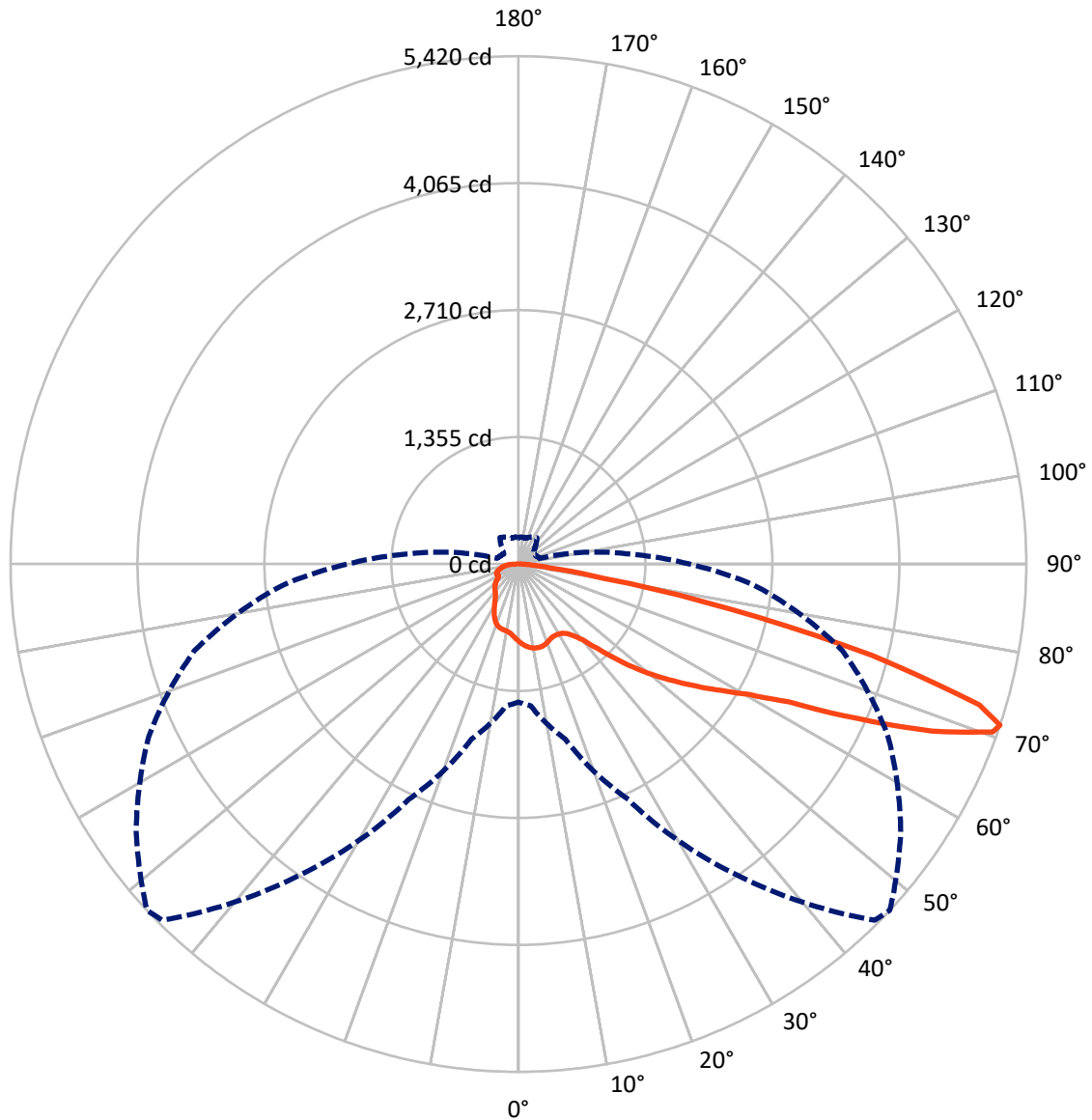


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198635

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-7030-600

### 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	1489.5	0.0	1489.5
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	5460.5	0.0	5460.5
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	6950.0	0.0	6950.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.1
10°-20°	230.9	3.3
20°-30°	343.0	4.9
30°-40°	492.6	7.1
40°-50°	873.3	12.6
50°-60°	1494.4	21.5
60°-70°	2121.5	30.5
70°-80°	1161.9	16.7
80°-90°	153.4	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°	6950.0	100.0
0°-180°	6950.0	100.0



REPORT NUMBER: P198635

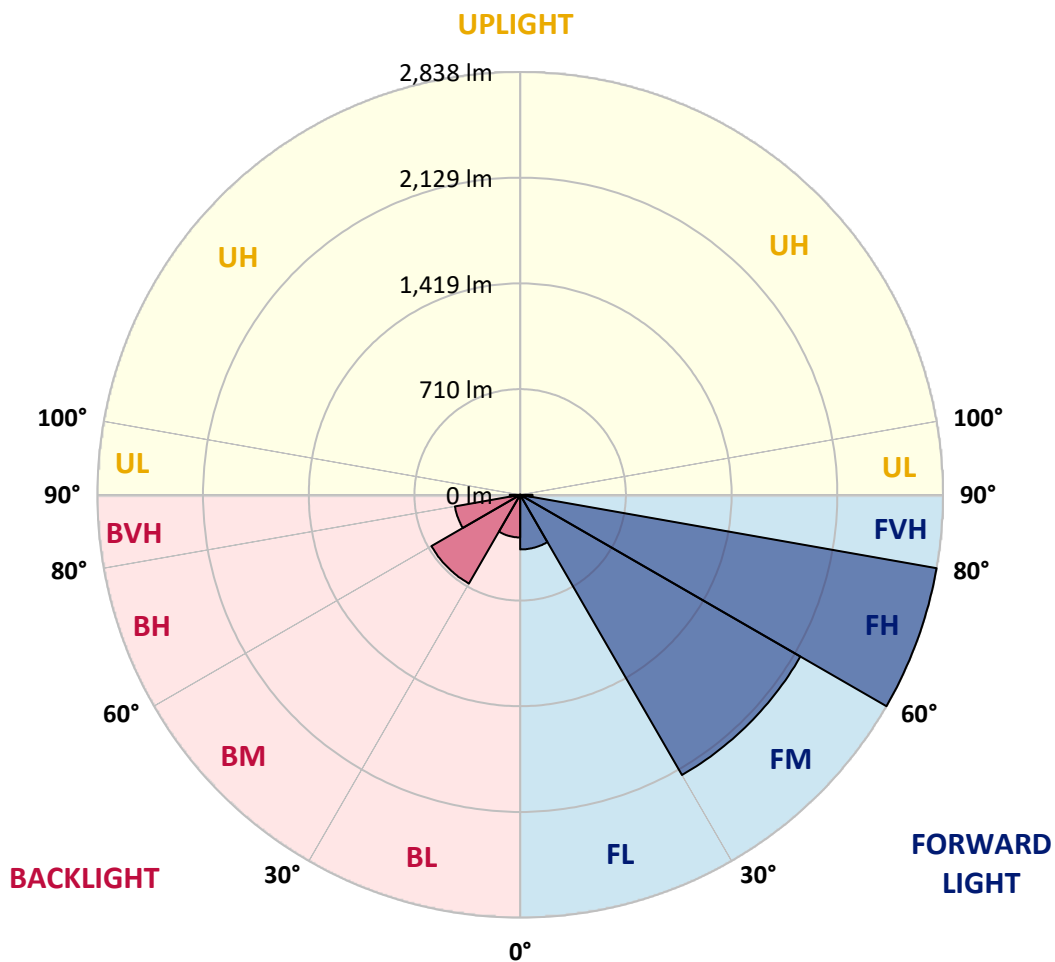
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.8	5.3			
FM	(30°-60°)	2172.1	31.3			
FH	(60°-80°)	2838.5	40.8			G2/5000
FVH	(80°-90°)	83.2	1.2			G1/100
BL	(0°-30°)	286.0	4.1	B1/500		
BM	(30°-60°)	688.2	9.9	B1/1000		
BH	(60°-80°)	445.0	6.4	B1/500		G1/500
BVH	(80°-90°)	70.2	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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CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5
2.5°	876.9	875.1	876.0	872.9	865.2	857.1	857.1	848.5	839.5	830.5	820.6
5°	931.4	928.7	926.5	916.6	901.7	885.0	882.3	865.2	846.7	828.3	810.3
7.5°	976.9	974.2	967.4	949.4	927.8	903.0	899.9	877.4	853.0	827.4	802.2
10°	1009.3	1007.5	994.5	971.5	946.3	917.0	911.6	888.6	859.8	827.8	795.8
12.5°	1027.3	1024.6	1008.9	981.9	952.1	922.4	917.0	894.9	862.1	826.9	789.5
15°	1020.1	1018.8	1003.9	976.5	946.7	921.1	916.6	894.0	860.7	823.8	783.7
17.5°	989.5	992.7	981.0	953.9	929.6	911.6	906.6	885.5	853.9	816.1	774.7
20°	947.2	950.8	944.9	917.5	903.5	891.8	889.1	872.0	842.7	804.9	763.9
22.5°	902.1	905.3	905.7	880.1	875.6	871.1	868.8	856.6	832.8	798.1	756.7
25°	871.1	874.7	875.6	853.0	855.7	857.1	856.6	848.1	831.0	798.1	757.6
27.5°	863.0	864.8	863.9	843.1	848.1	855.7	856.2	854.4	838.2	807.1	770.2
30°	890.9	891.8	880.5	849.4	854.4	864.3	864.8	863.9	853.5	830.5	798.5
32.5°	1011.6	1010.7	971.9	891.8	874.7	878.3	879.6	887.7	888.6	869.3	839.5
35°	1195.3	1194.9	1149.9	1012.9	932.3	913.4	915.2	927.8	939.1	926.0	908.9
37.5°	1397.6	1398.9	1371.4	1185.9	1056.6	977.8	976.0	985.5	1005.7	1010.2	1012.5
40°	1621.9	1628.6	1627.3	1384.5	1230.9	1087.7	1069.7	1058.9	1098.1	1122.8	1154.8
42.5°	1878.1	1876.3	1877.2	1602.5	1430.0	1260.7	1227.3	1176.9	1222.4	1265.2	1335.4
45°	2098.4	2105.6	2111.0	1834.5	1652.9	1458.4	1424.6	1332.7	1373.7	1437.7	1544.8
47.5°	2320.0	2307.4	2317.3	2092.5	1901.1	1684.0	1640.3	1516.5	1554.8	1644.8	1807.9
50°	2578.1	2572.2	2527.2	2429.4	2201.1	1912.8	1855.6	1708.3	1764.2	1884.4	2132.6
52.5°	2809.6	2778.0	2742.9	2694.3	2496.1	2144.3	2071.8	1907.9	2010.6	2159.6	2535.7
55°	2894.2	2873.1	2915.4	2978.4	2808.2	2380.3	2299.3	2140.7	2288.4	2474.5	3010.0
57.5°	2984.3	2991.5	3087.0	3214.5	3103.7	2632.1	2544.3	2416.4	2593.4	2826.7	3540.1
60°	3029.3	3058.2	3248.7	3487.8	3384.7	2908.2	2824.0	2733.0	2931.6	3215.8	4068.9
62.5°	3037.0	3075.7	3345.5	3583.8	3771.6	3331.1	3233.8	3135.2	3354.1	3645.9	4451.7
65°	2896.5	2955.9	3337.0	3701.8	4124.3	4037.8	3976.1	3804.0	3919.8	4024.7	4517.0
67.5°	2483.5	2548.3	3006.8	3653.1	4407.1	4771.0	4759.3	4505.3	4356.7	4171.1	4032.8
70°	1822.7	1875.0	2315.5	3123.0	4283.7	5346.6	5367.3	4959.7	4478.7	3860.3	2998.7
71°	1474.1	1519.2	1934.4	2772.6	4043.2	5376.3	5419.6	4980.0	4351.7	3579.7	2510.5
72.5°	917.5	942.7	1284.5	2092.5	3481.5	5070.1	5143.0	4720.6	3951.7	3025.7	1774.5
75°	346.4	356.3	476.5	922.9	2078.1	3809.0	3897.3	3567.6	2776.2	1727.3	742.7
77.5°	186.0	191.0	236.5	383.7	832.8	2183.5	2297.0	2034.9	1331.8	604.4	303.6
80°	124.8	127.9	163.5	227.4	382.8	831.4	926.0	817.0	498.6	345.0	216.2
82.5°	80.6	82.4	111.2	149.5	247.3	292.3	333.7	348.6	311.2	247.3	130.6
85°	53.1	54.5	73.4	95.5	153.1	144.1	147.7	193.2	212.1	163.0	66.7
87.5°	30.6	31.5	44.1	49.1	68.9	54.0	58.6	91.9	126.1	106.3	38.3
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: P198635

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-7030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5	826.5
2.5°	816.1	812.5	804.4	799.4	797.2	796.3	795.4	797.2	797.2	796.3	794.5
5°	801.2	794.5	781.0	771.5	766.6	765.2	767.0	769.3	770.6	770.6	769.3
7.5°	790.4	780.5	762.5	749.5	741.8	739.5	744.5	752.6	758.0	760.7	761.2
10°	781.4	767.9	748.1	734.6	728.3	727.4	733.7	744.0	755.3	760.3	761.2
12.5°	773.3	758.0	736.4	723.8	719.3	721.5	730.1	739.5	752.6	759.8	760.3
15°	765.7	749.9	726.9	713.9	713.0	716.6	724.7	732.3	742.2	751.3	751.3
17.5°	756.7	739.5	715.7	703.5	703.5	706.7	712.1	716.1	722.4	731.0	730.5
20°	745.9	728.3	704.0	691.4	688.7	686.8	686.8	687.8	693.2	700.8	702.2
22.5°	737.7	719.7	694.1	678.7	666.6	654.9	649.9	648.1	653.1	660.3	662.1
25°	737.7	719.7	690.9	665.2	635.5	613.0	603.5	600.8	605.8	612.5	615.2
27.5°	749.9	731.9	698.1	653.1	598.6	562.5	551.3	549.0	553.5	558.9	561.6
30°	778.3	760.7	718.8	639.1	557.6	510.3	497.7	495.4	497.7	499.9	503.1
32.5°	825.6	810.7	752.6	626.5	516.2	463.0	447.7	444.1	445.0	445.4	448.1
35°	902.6	895.8	797.6	611.6	477.0	424.3	408.5	401.3	400.8	403.1	406.3
37.5°	1020.6	1024.6	855.7	590.0	444.5	396.8	381.0	373.8	370.2	374.7	378.3
40°	1187.2	1196.7	922.9	560.7	418.0	380.6	363.9	357.2	352.2	350.9	352.7
42.5°	1403.9	1401.2	991.3	523.4	389.1	369.8	352.2	345.0	336.9	326.5	324.3
45°	1660.6	1621.9	1048.5	477.4	356.3	359.4	341.4	331.5	318.9	303.6	301.8
47.5°	1963.7	1857.0	1083.6	428.3	325.6	345.9	329.2	313.9	295.5	285.5	284.2
50°	2329.0	2132.2	1108.4	378.3	298.2	328.8	312.1	291.9	273.8	271.1	270.7
52.5°	2761.4	2456.9	1139.0	333.3	276.5	306.7	295.0	274.3	259.9	261.2	261.2
55°	3221.2	2792.9	1139.9	297.7	257.6	281.0	282.4	265.7	254.5	259.0	260.3
57.5°	3640.5	3086.5	1050.3	272.5	239.6	260.8	278.3	268.9	260.3	276.1	277.4
60°	4006.2	3312.6	857.5	251.8	224.7	253.1	287.4	288.3	286.5	329.2	332.4
62.5°	4140.0	3314.9	608.9	234.2	216.6	257.6	306.3	307.6	307.6	347.3	353.1
65°	3952.7	3038.8	405.4	223.8	211.2	267.5	321.6	315.7	301.8	329.2	322.9
67.5°	3292.4	2365.5	296.4	217.1	203.6	268.0	335.1	320.2	296.4	319.8	309.0
70°	2262.8	1505.2	248.2	210.8	194.6	256.3	342.3	318.9	288.3	298.2	283.7
71°	1821.4	1201.2	235.6	208.5	191.0	249.5	343.2	317.1	284.2	290.5	277.4
72.5°	1199.8	740.0	220.2	203.6	185.6	237.8	340.9	313.0	278.8	279.2	270.7
75°	473.4	306.7	198.2	192.3	170.2	218.9	331.0	304.5	268.4	259.4	255.8
77.5°	239.2	200.4	174.3	176.6	152.2	199.5	317.1	290.5	254.0	241.9	239.2
80°	174.8	152.2	149.1	153.1	132.0	180.6	299.5	271.6	235.6	248.2	242.8
82.5°	106.3	92.8	116.7	126.6	110.3	161.2	278.8	249.5	212.1	195.5	189.2
85°	50.4	54.5	84.2	93.2	81.5	128.8	254.9	225.2	185.1	159.9	162.6
87.5°	24.8	30.2	48.2	55.8	53.6	94.6	192.3	174.8	145.9	120.3	117.6
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)