

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: P271274

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)  
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-T4FT-7027-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3489.2 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

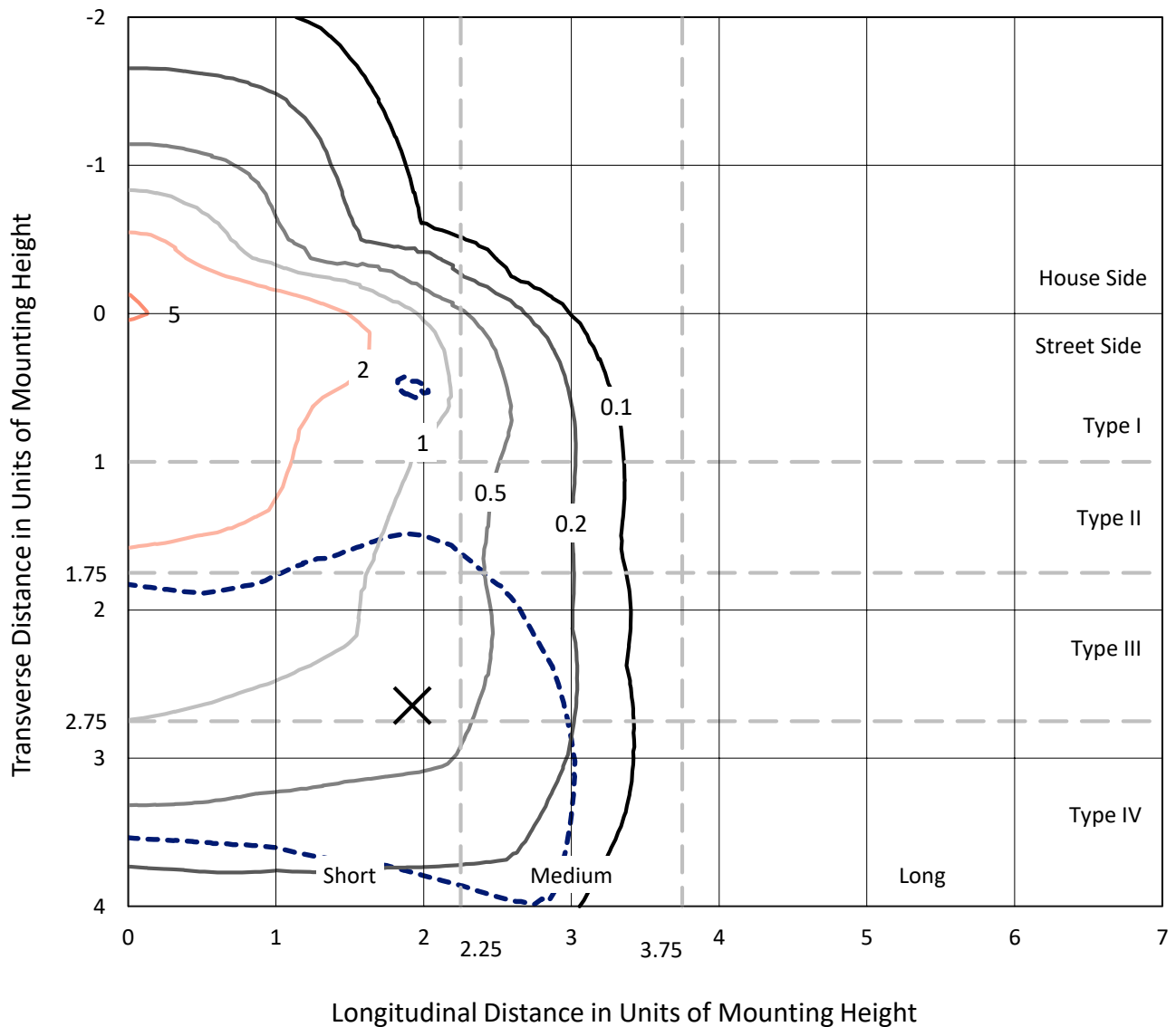


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

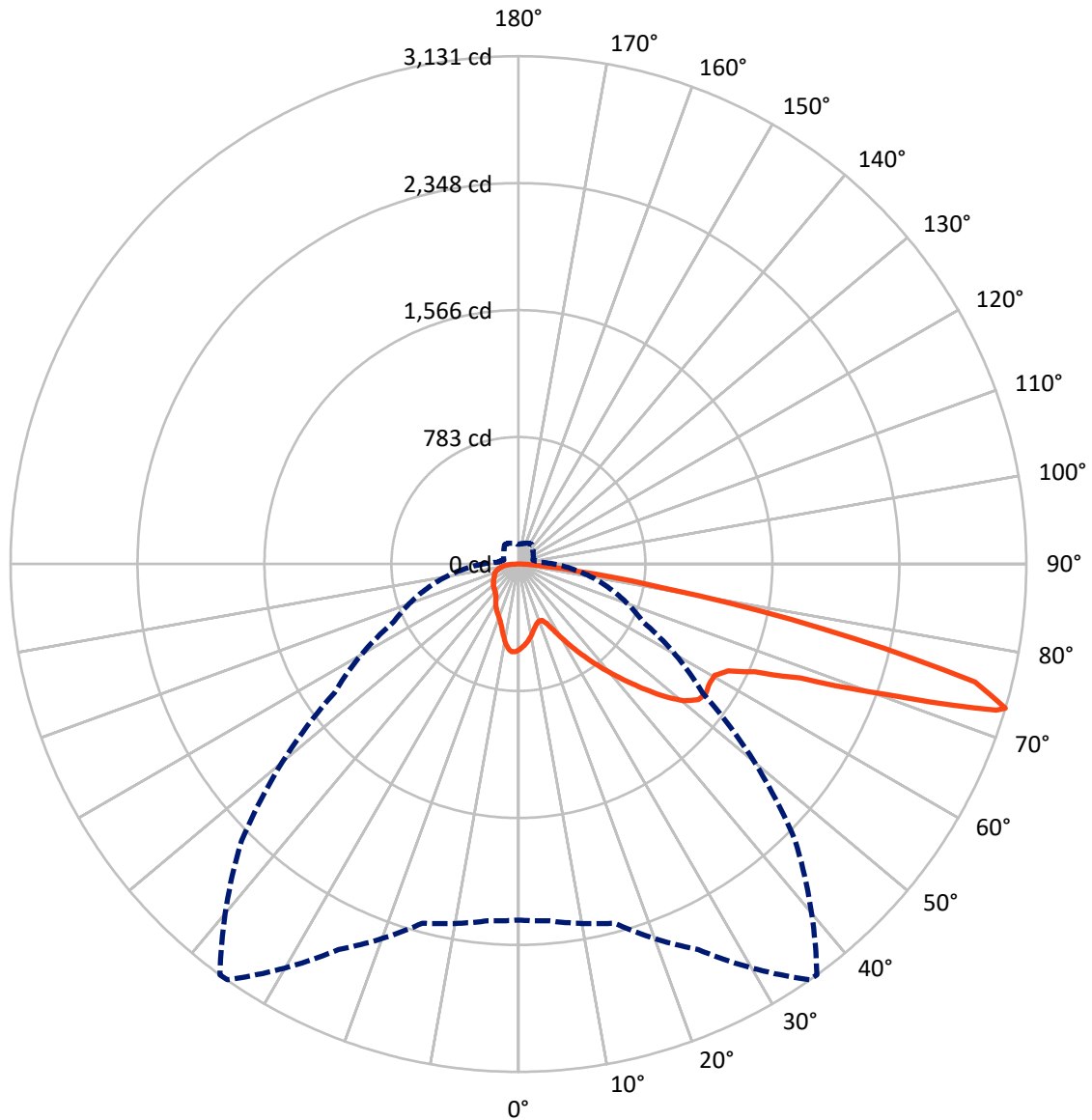


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	672.8	0.0	672.8
	% Fixture	19.3	0.0	19.3
<b>Street Side</b>	Lumens	2816.3	0.0	2816.3
	% Fixture	80.7	0.0	80.7
<b>Total</b>	Lumens	3489.2	0.0	3489.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.4
10°-20°	120.6	3.5
20°-30°	193.3	5.5
30°-40°	319.7	9.2
40°-50°	494.7	14.2
50°-60°	662.3	19.0
60°-70°	865.2	24.8
70°-80°	706.7	20.3
80°-90°	78.7	2.3
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°	3489.2	100.0
0°-180°	3489.2	100.0

**Coefficient of Utilization**



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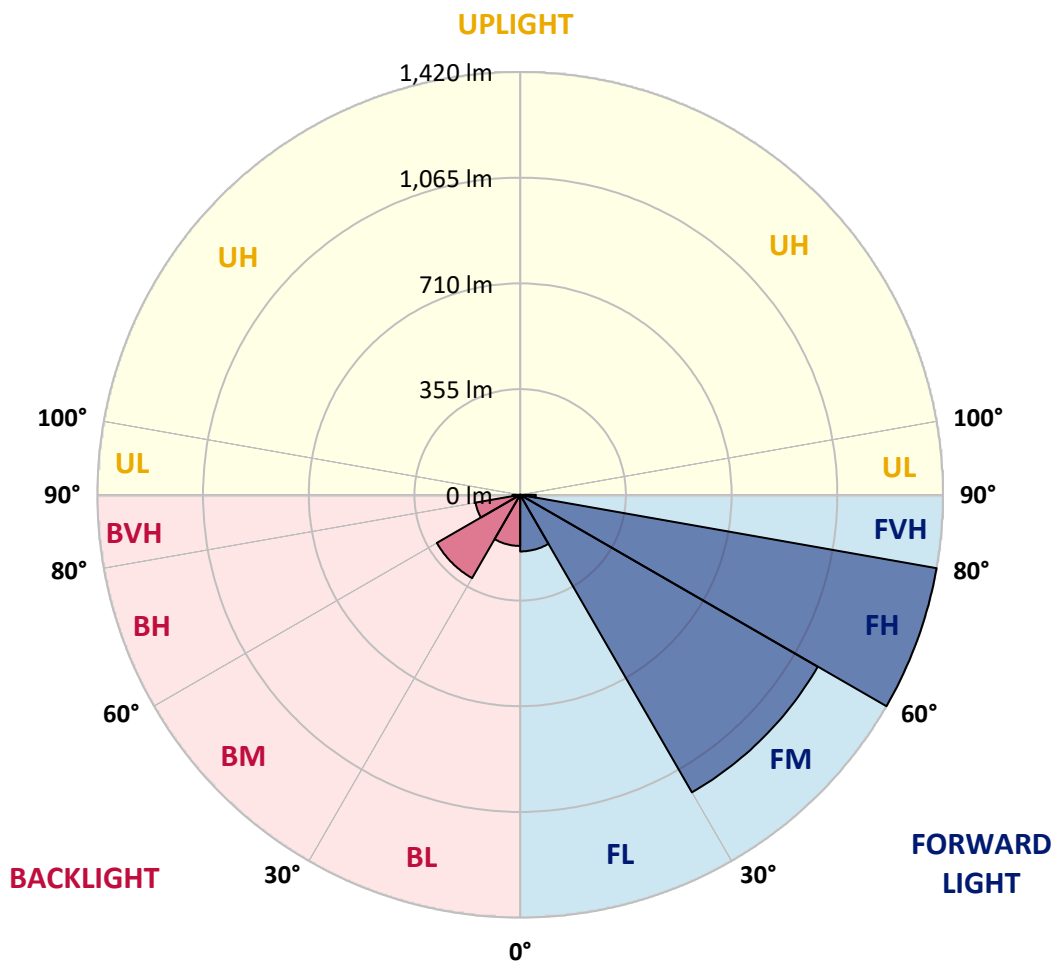
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.1	5.4			
FM (30°-60°)	1153.6	33.1			
FH (60°-80°)	1419.8	40.7			G1/1800
FVH (80°-90°)	52.8	1.5			G1/100
BL (0°-30°)	171.7	4.9	B1/500		
BM (30°-60°)	323.1	9.3	B1/1000		
BH (60°-80°)	152.0	4.4	B1/500		G1/500
BVH (80°-90°)	25.9	0.7			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°	36°	45°	55°	65°	75°	85°
0°	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6
2.5°	508.4	509.7	509.9	511.5	511.5	511.2	511.9	514.5	515.8	519.0	521.6
5°	483.3	484.8	485.5	488.1	491.6	491.7	494.2	499.3	504.0	511.0	516.7
7.5°	455.1	456.9	458.7	464.2	469.0	469.5	474.1	482.4	488.8	497.2	507.6
10°	427.9	428.3	430.1	437.1	443.7	444.2	450.9	460.2	468.8	480.7	492.5
12.5°	405.5	406.8	406.4	411.7	417.3	417.6	426.5	438.3	450.9	464.2	478.2
15°	397.7	397.5	392.7	392.6	395.1	395.6	404.1	417.9	432.1	448.4	466.4
17.5°	403.0	401.3	389.1	381.5	380.0	380.4	386.8	401.9	417.1	435.9	457.3
20°	432.4	425.3	396.8	378.6	373.5	373.5	377.3	389.5	406.2	428.1	455.1
22.5°	501.7	491.1	430.1	397.7	379.8	377.9	375.1	384.5	402.8	429.2	464.2
25°	589.0	583.9	491.1	448.4	411.5	405.7	386.6	390.0	409.6	441.2	489.0
27.5°	670.0	661.2	571.1	522.4	470.0	461.1	420.8	407.2	426.1	463.3	525.0
30°	717.1	711.2	653.2	606.7	544.5	533.1	475.4	441.3	455.4	499.8	576.0
32.5°	768.6	765.0	735.8	693.4	625.2	612.0	545.8	497.0	500.1	548.4	637.3
35°	818.4	823.1	806.5	775.4	712.0	699.9	640.4	569.7	555.3	603.0	703.0
37.5°	878.4	879.4	869.0	848.9	803.4	793.5	744.4	647.3	615.3	661.2	766.3
40°	997.8	980.3	939.4	923.5	896.5	890.3	834.4	718.6	671.3	720.7	826.3
42.5°	1127.1	1099.9	1035.9	1009.8	998.9	993.2	909.4	766.0	723.6	780.4	885.0
45°	1231.2	1209.1	1146.5	1114.2	1115.5	1106.3	974.8	808.2	780.4	840.3	950.5
47.5°	1334.0	1297.0	1226.8	1222.1	1237.7	1223.9	1037.4	850.7	839.6	905.4	1016.3
50°	1340.5	1306.9	1278.5	1315.7	1342.3	1325.3	1094.0	906.0	900.9	984.4	1101.0
52.5°	1259.7	1254.8	1298.1	1360.8	1404.9	1389.6	1140.4	963.1	963.7	1082.9	1204.0
55°	1230.1	1223.9	1275.9	1352.9	1412.7	1403.5	1175.0	1027.3	1033.3	1202.7	1314.6
57.5°	1279.8	1264.3	1274.4	1338.4	1394.3	1389.0	1210.8	1098.6	1109.5	1340.5	1416.7
60°	1433.9	1402.2	1348.0	1360.0	1395.1	1392.1	1262.3	1178.2	1196.5	1484.2	1481.6
62.5°	1664.6	1628.7	1518.6	1465.3	1457.6	1451.7	1347.2	1276.0	1285.1	1587.9	1443.8
65°	1917.8	1879.3	1748.2	1661.1	1615.4	1602.5	1484.2	1394.0	1336.9	1587.8	1297.2
67.5°	2202.0	2161.2	2030.7	1947.5	1898.1	1876.2	1706.6	1489.3	1320.1	1453.4	1037.9
70°	2493.2	2454.3	2394.4	2423.4	2445.2	2411.8	2056.8	1521.0	1199.1	1139.5	696.9
72.5°	2338.6	2335.6	2381.0	2656.3	3075.1	3081.6	2406.6	1431.4	926.4	677.2	371.5
73°	2195.2	2208.3	2292.5	2622.0	3128.9	3131.1	2413.6	1385.0	850.7	583.4	326.4
75°	1137.3	1225.9	1538.5	2126.0	2897.3	2907.6	2127.5	1048.6	507.1	324.1	219.9
77.5°	304.5	300.7	495.8	1035.7	1931.5	1917.8	1344.4	507.6	243.0	203.2	154.2
80°	104.5	105.7	168.7	378.8	901.5	933.8	583.4	221.4	159.9	141.7	109.4
82.5°	53.2	54.9	88.3	161.2	377.1	369.2	187.7	130.3	107.1	86.0	61.2
85°	28.3	29.3	48.6	83.6	138.2	139.9	66.0	69.6	68.0	48.8	30.2
87.5°	14.0	14.5	23.3	36.8	51.3	49.4	23.0	30.2	33.4	27.5	16.6
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°	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6	528.6
2.5°	525.0	525.0	527.8	532.8	536.3	539.6	541.8	545.4	547.3	547.2	546.9
5°	521.5	523.6	529.5	535.4	539.3	542.0	542.0	543.6	543.6	542.9	542.0
7.5°	513.2	517.0	525.4	530.7	531.8	528.9	523.3	518.7	513.2	510.3	509.2
10°	500.1	504.9	515.6	518.1	512.4	502.2	488.1	476.2	465.5	460.7	459.2
12.5°	487.3	493.7	503.7	499.8	486.2	466.2	444.8	428.3	416.4	411.7	410.2
15°	476.6	484.4	492.1	480.5	456.5	428.8	405.0	389.8	380.6	377.1	376.2
17.5°	469.5	478.6	481.3	459.4	426.1	395.1	374.0	364.1	360.0	358.5	358.1
20°	470.0	480.1	473.8	438.9	396.8	365.6	351.5	348.7	348.7	348.7	348.5
22.5°	482.2	491.1	470.6	419.9	368.7	340.7	334.8	337.3	339.0	339.0	338.8
25°	507.5	512.4	472.9	401.5	342.3	319.3	319.4	324.1	325.6	325.6	325.2
27.5°	546.0	542.0	476.9	381.2	316.4	299.8	302.8	307.0	308.2	307.5	307.3
30°	594.4	578.4	480.1	357.2	291.9	281.6	284.3	286.6	285.8	284.3	284.0
32.5°	648.4	615.3	478.2	330.2	270.5	262.8	264.2	265.5	264.2	260.5	260.5
35°	702.0	648.8	467.3	301.0	253.4	244.5	244.2	248.6	248.3	243.9	244.1
37.5°	749.0	675.3	446.3	274.3	238.8	231.3	232.1	234.7	236.2	230.1	229.4
40°	790.1	693.4	416.5	251.3	227.0	227.5	225.0	220.9	219.2	216.6	216.1
42.5°	828.6	706.1	385.1	232.3	221.1	226.2	217.8	208.0	203.7	206.3	207.7
45°	866.5	720.4	354.7	216.6	213.4	222.2	210.8	199.8	194.8	196.0	197.5
47.5°	912.9	740.1	318.1	199.8	201.9	214.9	206.4	194.5	187.0	182.6	181.4
50°	973.9	768.6	270.7	181.5	189.7	206.8	202.6	186.7	178.8	169.8	167.7
52.5°	1050.2	795.7	222.8	166.9	179.8	200.0	196.4	180.0	170.3	159.5	157.8
55°	1126.1	799.4	181.5	154.2	168.5	190.7	188.9	174.7	160.9	152.4	150.6
57.5°	1179.4	763.6	153.9	143.6	157.7	179.1	181.9	168.3	153.3	146.6	145.4
60°	1180.3	678.4	137.0	136.5	149.4	169.2	174.9	160.7	148.3	143.9	143.0
62.5°	1086.5	546.7	126.1	131.2	143.4	160.9	169.6	156.6	147.2	145.4	144.5
65°	910.7	403.9	117.5	126.3	137.9	154.1	165.2	155.1	146.8	146.1	145.4
67.5°	672.4	276.9	110.2	120.2	131.7	147.1	160.9	153.3	144.1	146.8	145.9
70°	423.0	185.0	103.3	113.0	123.4	138.8	155.3	149.7	140.8	139.1	136.4
72.5°	238.8	133.7	95.1	103.9	112.8	127.9	148.0	143.6	133.2	127.0	124.1
73°	215.8	126.7	93.2	101.8	110.4	125.8	146.1	141.9	131.1	124.1	121.5
75°	157.8	103.6	84.0	92.6	100.3	115.5	137.7	132.9	121.4	113.0	111.3
77.5°	114.4	79.8	72.3	79.9	86.6	101.2	125.0	119.7	108.2	103.8	102.0
80°	82.5	60.5	59.8	67.5	73.1	88.0	111.5	106.0	95.0	107.9	105.1
82.5°	49.1	38.7	43.8	52.3	58.3	73.8	96.8	90.5	79.8	80.7	68.7
85°	23.4	22.0	27.3	34.3	38.5	50.6	80.7	75.5	63.9	52.3	51.3
87.5°	10.4	10.1	13.0	15.4	20.7	30.4	55.2	49.0	46.4	27.7	21.6
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)