

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: P198618

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
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-T3R-7030-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3588 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1

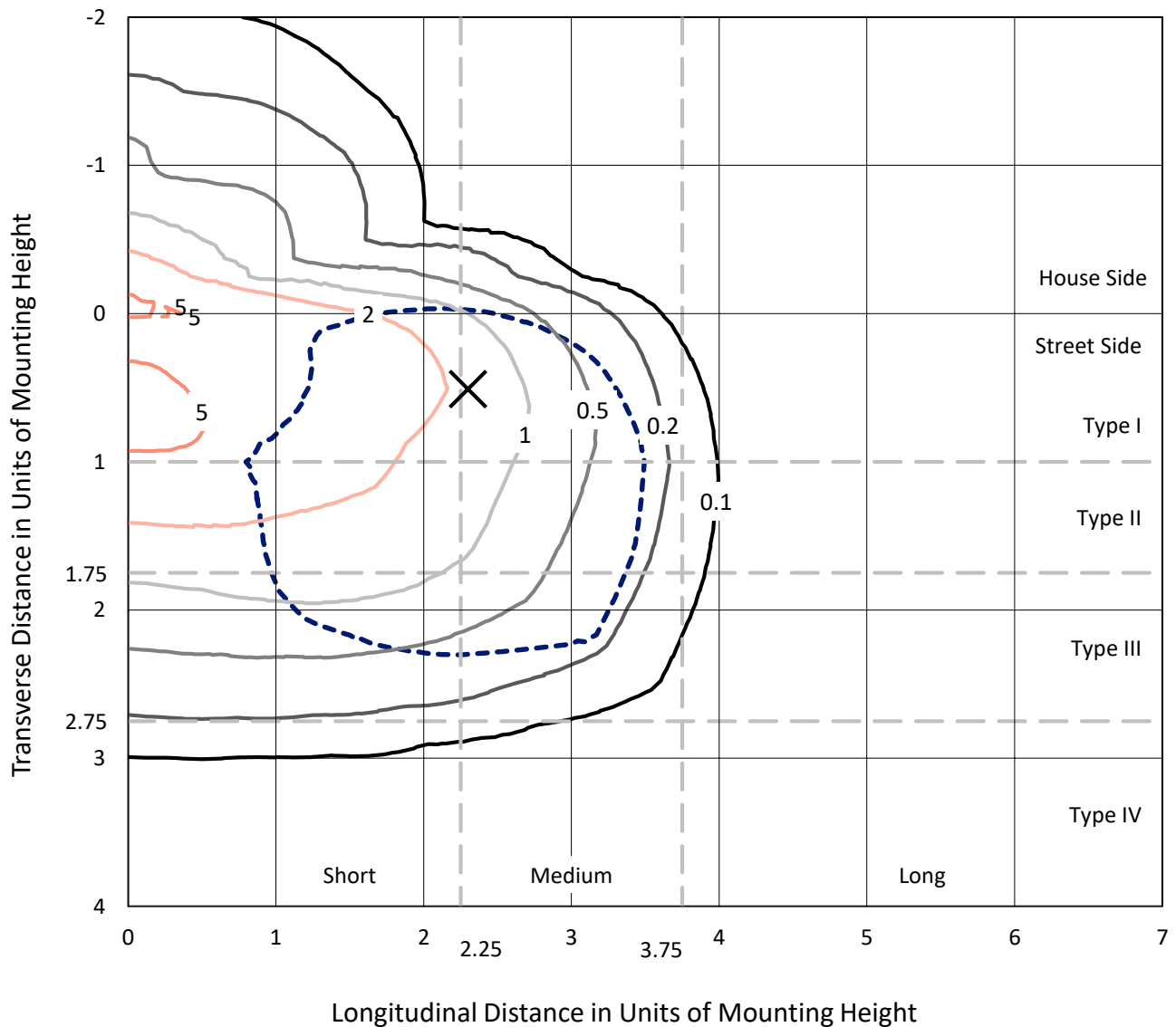
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

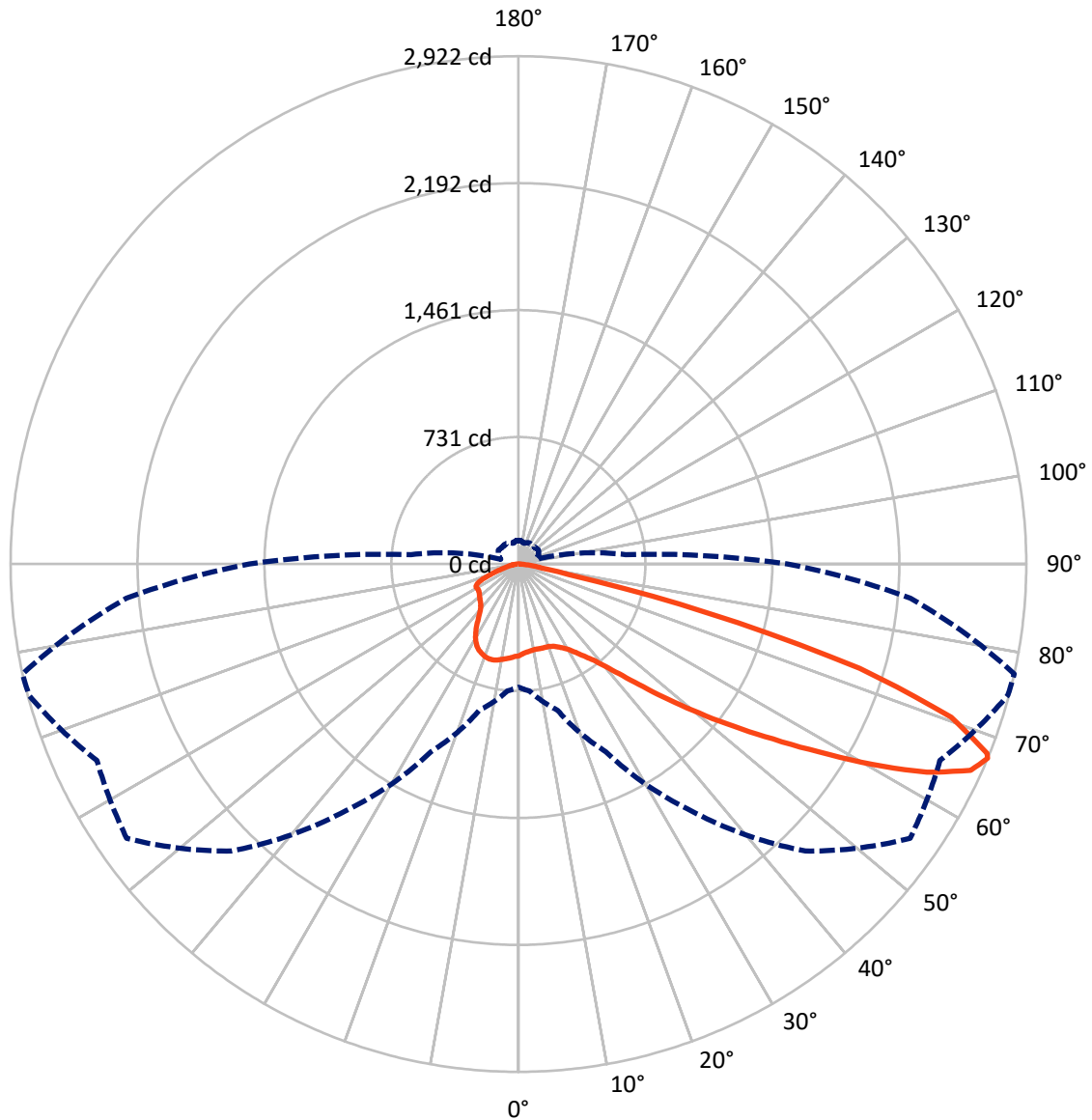
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	616.6	0.0	616.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2971.4	0.0	2971.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	3588.0	0.0	3588.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.0	1.3
10°-20°	130.2	3.6
20°-30°	221.3	6.2
30°-40°	354.0	9.9
40°-50°	545.0	15.2
50°-60°	756.2	21.1
60°-70°	1008.7	28.1
70°-80°	480.0	13.4
80°-90°	45.5	1.3
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°	3588.0	100.0
0°-180°	3588.0	100.0

**Coefficient of Utilization**



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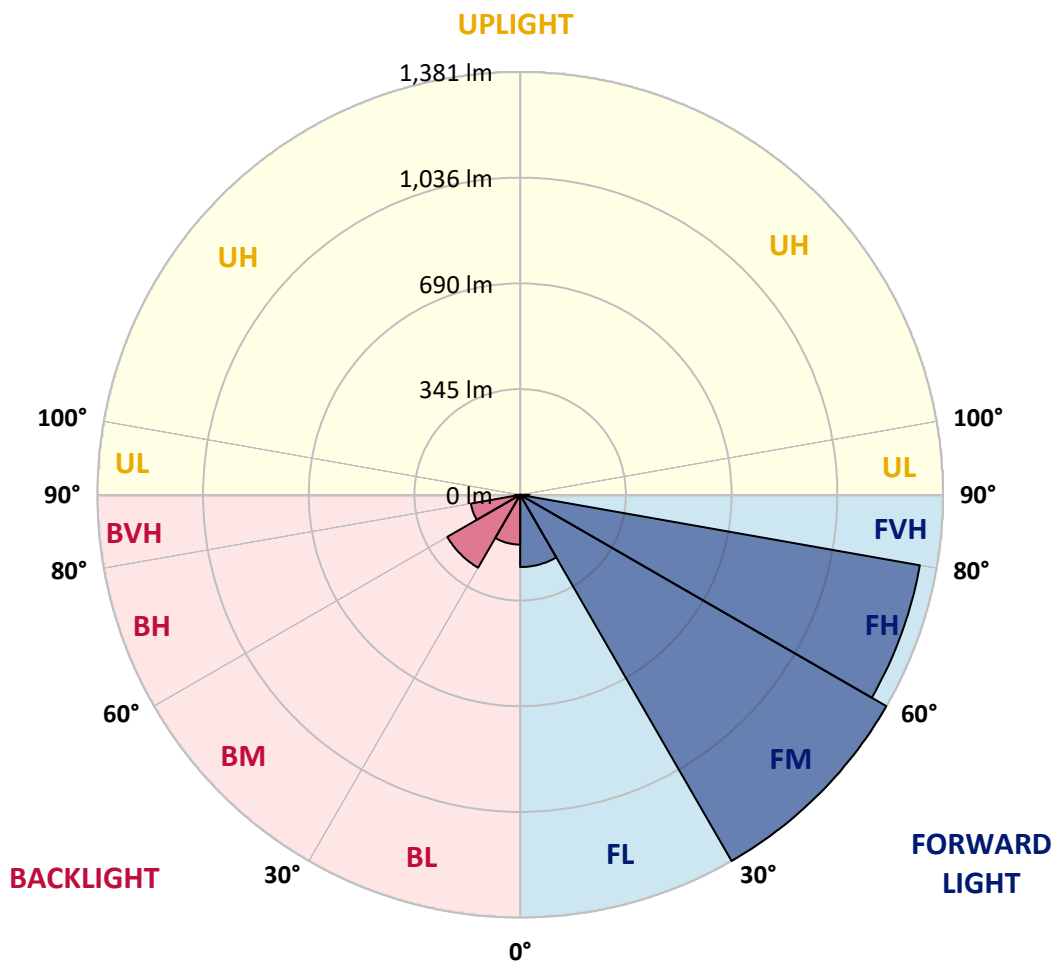
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.9	6.6			
FM	(30°-60°)	1380.7	38.5			
FH	(60°-80°)	1325.2	36.9			G1/1800
FVH	(80°-90°)	29.5	0.8			G1/100
BL	(0°-30°)	162.6	4.5	B1/500		
BM	(30°-60°)	274.5	7.7	B1/1000		
BH	(60°-80°)	163.5	4.6	B1/500		G1/500
BVH	(80°-90°)	15.9	0.4			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
2.5°	473.5	475.7	475.9	482.4	485.3	492.6	500.6	507.7	513.9	516.1	520.1
5°	426.0	426.0	426.7	430.9	439.1	450.9	467.5	485.7	504.8	509.4	521.2
7.5°	401.2	401.6	402.1	406.3	412.7	423.2	439.8	464.6	496.3	504.1	524.7
10°	403.4	402.8	400.5	399.6	402.3	409.0	423.4	448.9	489.2	501.2	531.2
12.5°	438.2	436.9	429.6	418.9	409.2	406.7	416.7	440.9	485.9	501.2	542.0
15°	497.9	498.8	484.4	462.2	436.7	419.4	418.1	438.0	484.8	502.6	554.7
17.5°	575.5	576.0	556.0	523.8	481.5	445.8	427.1	438.0	484.8	503.9	566.9
20°	658.0	654.9	632.3	591.9	536.9	482.4	443.8	440.7	486.1	505.9	578.4
22.5°	728.8	725.9	702.2	659.8	596.8	525.6	466.2	449.5	493.5	514.1	594.6
25°	790.6	792.4	769.4	721.7	656.5	574.4	499.7	470.0	508.8	528.9	614.6
27.5°	865.8	862.5	835.9	790.4	717.9	625.0	541.6	495.7	527.0	546.9	638.9
30°	952.8	951.2	915.3	868.5	785.5	681.5	583.1	523.4	550.7	571.5	669.6
32.5°	1058.3	1058.1	1019.5	962.1	861.6	745.4	632.1	561.3	585.3	606.3	710.1
35°	1177.9	1177.7	1137.7	1061.9	949.2	816.2	689.7	607.5	628.1	650.3	758.5
37.5°	1260.8	1259.5	1238.6	1165.0	1046.1	898.4	761.8	669.6	676.7	701.5	816.8
40°	1276.8	1284.8	1302.7	1259.3	1151.9	989.8	834.1	736.3	743.0	774.9	890.2
42.5°	1259.5	1269.9	1329.6	1341.8	1257.7	1100.5	924.6	828.8	837.2	876.9	976.5
45°	1244.4	1253.5	1328.2	1387.5	1362.2	1221.1	1037.5	941.7	957.6	1006.9	1075.0
47.5°	1218.7	1227.1	1302.1	1395.7	1421.8	1337.3	1173.4	1077.4	1104.9	1164.6	1187.2
50°	1217.4	1221.1	1266.4	1368.2	1442.5	1425.6	1324.0	1236.2	1278.3	1347.1	1311.4
52.5°	1183.6	1210.0	1251.1	1324.3	1442.9	1477.1	1472.4	1410.3	1475.3	1551.4	1447.6
55°	977.4	1007.8	1200.1	1302.7	1440.2	1521.2	1607.9	1595.5	1697.1	1777.1	1600.1
57.5°	912.6	925.5	1052.8	1309.2	1462.4	1594.2	1743.4	1794.4	1950.8	2038.2	1783.1
60°	894.9	908.4	1023.3	1312.3	1522.5	1727.0	1927.3	2019.1	2249.1	2341.8	1990.9
62.5°	875.1	892.7	1025.5	1315.2	1628.1	1923.5	2171.2	2262.8	2555.4	2638.1	2185.6
65°	817.5	840.8	984.5	1297.0	1743.6	2170.1	2493.7	2517.0	2808.4	2861.0	2303.2
67°	708.1	733.6	871.8	1191.8	1733.0	2336.2	2751.6	2676.0	2916.0	2922.4	2265.0
67.5°	673.5	699.9	833.7	1148.2	1702.6	2358.0	2797.3	2698.0	2915.1	2908.0	2229.6
70°	453.5	483.3	590.4	843.0	1365.7	2194.5	2786.2	2630.3	2723.9	2642.5	1915.5
72.5°	225.1	226.0	294.5	461.7	827.5	1574.0	2324.3	2250.2	2208.0	2054.4	1405.6
75°	108.5	110.4	139.1	204.0	348.9	812.6	1585.1	1518.3	1292.8	1119.3	703.5
77.5°	82.7	84.7	108.0	132.8	145.5	265.0	785.1	634.5	374.6	299.2	198.3
80°	63.9	67.6	91.2	102.0	96.3	106.2	246.8	194.3	145.7	133.7	98.2
82.5°	49.9	52.1	77.4	77.4	66.5	71.2	114.9	112.2	90.5	81.6	52.8
85°	35.3	39.7	62.3	57.7	43.7	44.1	68.8	65.9	46.6	37.5	20.6
87.5°	15.7	20.2	44.4	37.7	23.3	18.0	28.2	24.2	18.4	14.2	9.5
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°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
2.5°	524.5	528.1	533.6	536.9	541.4	543.1	544.9	548.0	550.5	549.8	548.7
5°	529.4	535.4	542.3	544.5	544.5	542.3	540.9	541.1	540.5	540.0	538.7
7.5°	536.5	544.7	549.6	547.4	540.5	531.8	523.6	518.7	514.1	511.2	512.1
10°	546.5	555.6	555.8	546.0	529.6	510.8	494.6	484.1	474.2	469.7	471.1
12.5°	560.9	570.0	562.2	541.1	512.3	482.8	453.1	431.6	412.3	407.6	406.3
15°	576.4	583.5	566.2	530.7	487.5	438.9	389.0	356.8	335.3	331.6	330.2
17.5°	589.9	593.9	564.2	512.1	448.2	371.7	313.6	291.9	287.4	289.6	289.6
20°	601.9	600.6	555.6	483.3	386.3	297.2	263.5	263.3	269.2	274.8	275.2
22.5°	617.0	606.6	541.8	440.5	312.5	248.0	242.2	248.0	254.6	260.8	261.5
25°	635.0	613.2	523.4	379.5	251.3	225.1	227.5	232.4	236.6	241.5	241.7
27.5°	652.9	618.3	497.5	307.8	218.0	210.5	213.1	215.1	216.2	219.3	219.3
30°	673.8	622.3	460.0	246.6	202.7	197.6	196.1	195.2	196.1	200.3	200.5
32.5°	699.9	629.4	408.7	211.6	195.6	188.5	180.5	176.1	179.2	186.7	188.1
35°	729.7	637.8	347.3	197.6	193.2	184.1	169.4	162.6	163.7	170.5	171.7
37.5°	766.9	648.7	286.8	194.3	195.6	183.6	164.3	154.6	149.7	149.9	149.7
40°	814.6	659.6	238.9	195.2	200.9	184.7	161.9	146.6	136.4	136.8	137.7
42.5°	864.5	666.7	208.5	197.8	207.4	186.3	161.0	138.8	130.0	137.5	144.4
45°	922.8	664.7	192.7	200.3	212.2	187.0	157.7	137.9	130.6	153.3	166.1
47.5°	989.8	656.0	183.9	201.4	213.6	186.7	155.2	140.8	136.2	175.4	190.1
50°	1062.6	642.5	176.8	199.6	212.9	185.9	157.9	144.4	138.4	180.3	191.6
52.5°	1142.2	630.1	169.4	195.6	209.6	183.2	161.2	142.8	132.2	166.1	174.8
55°	1236.4	627.2	161.2	188.7	204.0	180.3	159.5	137.9	125.3	147.3	152.6
57.5°	1344.2	645.2	150.6	180.3	196.5	174.5	155.2	135.3	122.9	134.0	136.8
60°	1481.1	684.9	139.3	171.4	187.2	165.9	151.5	136.0	123.5	132.0	132.6
62.5°	1587.9	720.6	129.1	160.6	174.8	155.5	147.5	136.6	125.5	134.6	133.5
65°	1626.8	703.0	116.4	144.4	157.2	143.9	141.9	137.1	125.5	136.2	133.7
67°	1547.1	619.4	104.5	128.2	140.6	133.7	136.6	135.3	123.3	136.0	131.7
67.5°	1509.2	589.9	101.4	125.5	136.2	130.6	135.3	134.4	122.6	135.5	130.6
70°	1244.6	423.2	85.6	105.3	114.0	115.1	127.1	128.6	117.3	127.3	118.4
72.5°	885.6	264.8	73.9	81.6	92.0	98.5	116.0	120.9	110.2	110.7	103.3
75°	438.2	142.2	65.9	63.0	71.6	82.1	101.1	110.2	99.8	92.3	89.8
77.5°	147.9	80.5	55.7	50.8	55.7	65.9	83.8	96.3	88.0	78.1	76.5
80°	76.5	58.6	43.5	40.8	43.9	51.0	65.6	80.1	75.2	75.6	62.3
82.5°	47.7	35.7	31.3	31.0	33.3	39.0	48.3	65.0	64.5	55.2	40.1
85°	22.2	20.6	20.0	20.6	21.3	22.2	31.5	46.4	49.0	29.7	26.4
87.5°	9.3	9.1	8.0	8.6	9.5	9.3	12.6	19.7	27.5	18.6	17.1
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)