

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: P271270

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271270  
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-7027-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 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: 3521.6 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

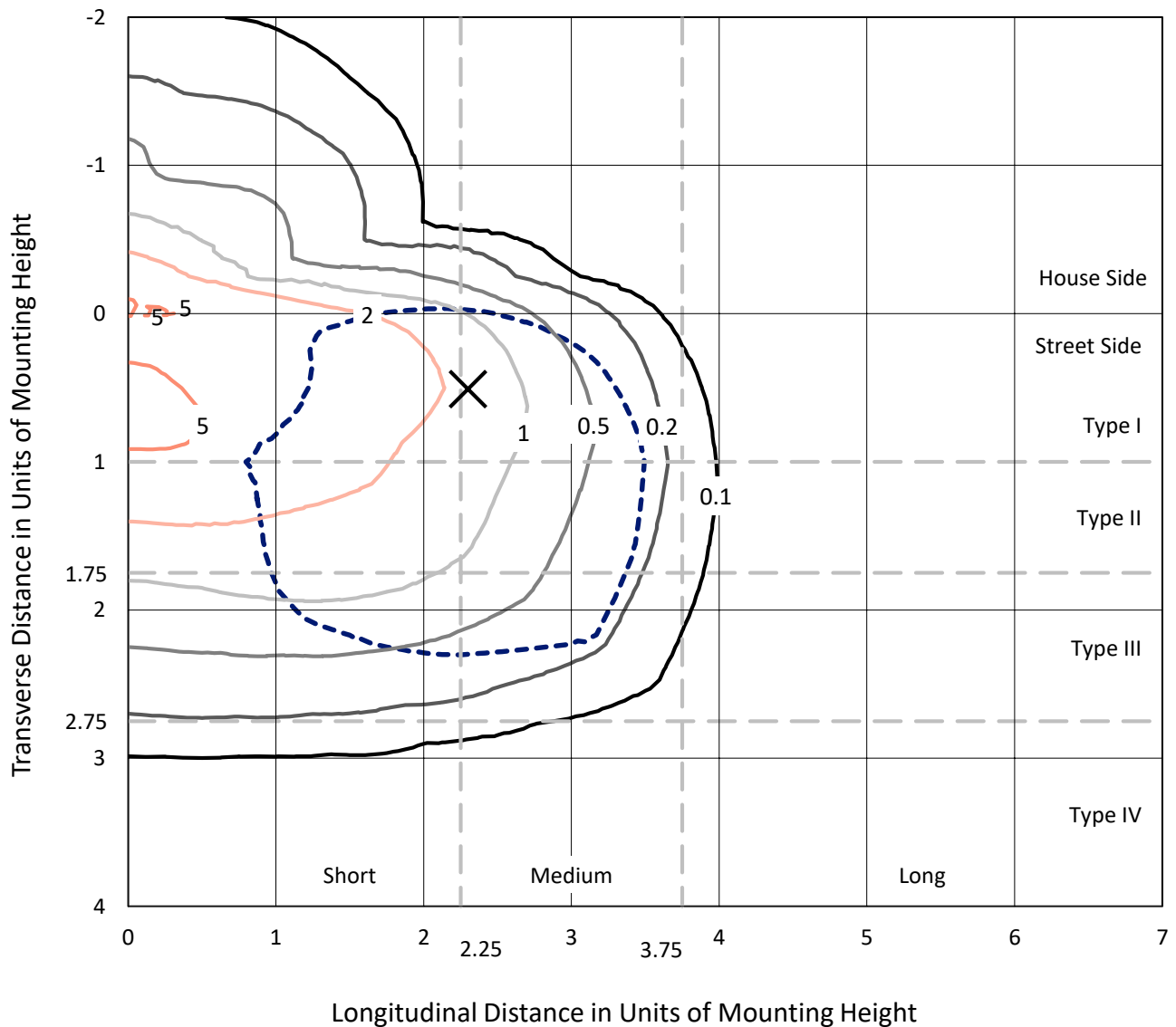
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

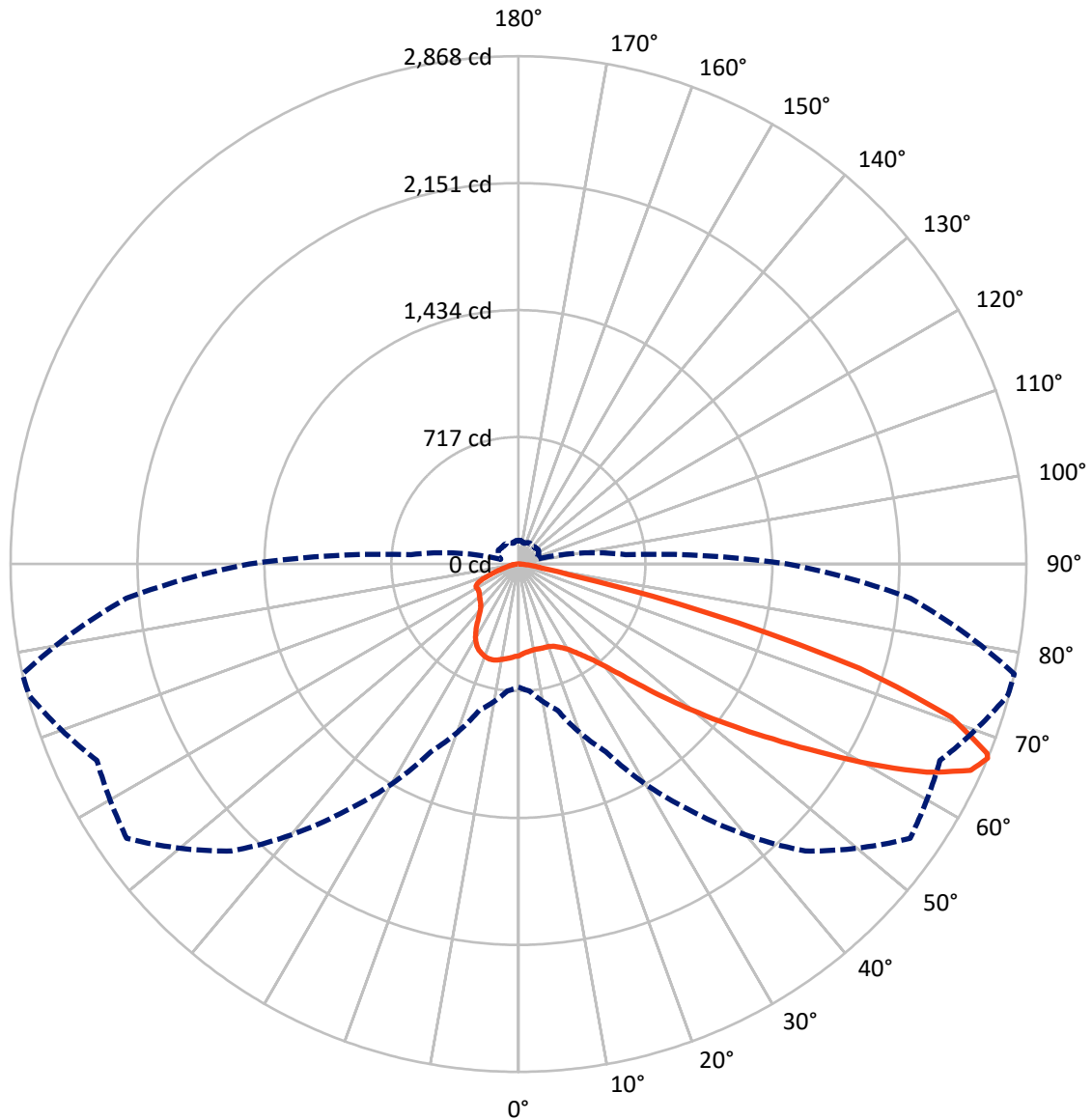
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	605.2	0.0	605.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	2916.4	0.0	2916.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	3521.6	0.0	3521.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	1.3
10°-20°	127.8	3.6
20°-30°	217.2	6.2
30°-40°	347.5	9.9
40°-50°	534.9	15.2
50°-60°	742.2	21.1
60°-70°	990.0	28.1
70°-80°	471.1	13.4
80°-90°	44.6	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°	3521.6	100.0
0°-180°	3521.6	100.0

**Coefficient of Utilization**



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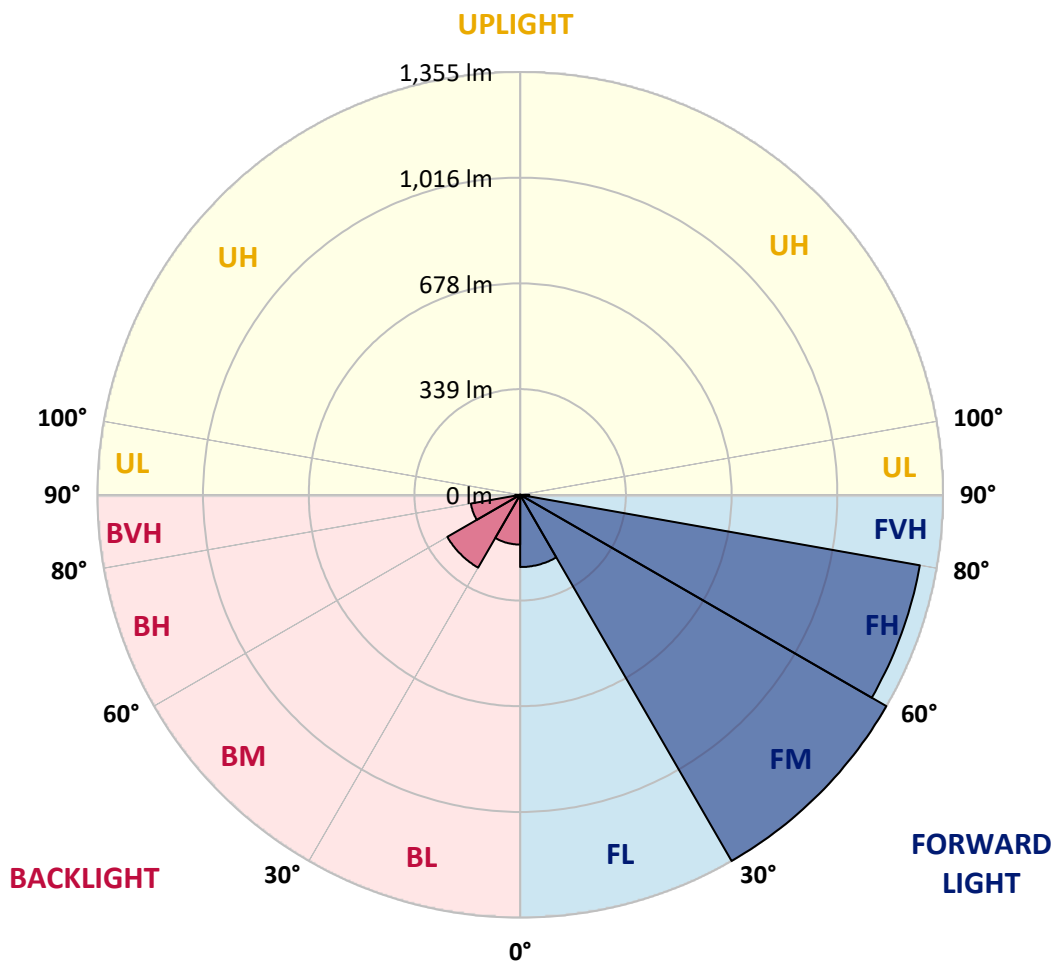
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.6	6.6			
FM	(30°-60°)	1355.1	38.5			
FH	(60°-80°)	1300.7	36.9			G1/1800
FVH	(80°-90°)	29.0	0.8			G1/100
BL	(0°-30°)	159.6	4.5	B1/500		
BM	(30°-60°)	269.5	7.7	B1/1000		
BH	(60°-80°)	160.5	4.6	B1/500		G1/500
BVH	(80°-90°)	15.6	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°	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3
2.5°	464.8	466.8	467.1	473.4	476.3	483.5	491.4	498.3	504.4	506.6	510.4
5°	418.2	418.2	418.8	422.9	430.9	442.5	458.9	476.7	495.4	499.9	511.6
7.5°	393.7	394.1	394.6	398.8	405.0	415.3	431.6	456.0	487.2	494.7	515.0
10°	396.0	395.3	393.1	392.2	394.9	401.5	415.6	440.6	480.1	491.9	521.3
12.5°	430.1	428.9	421.7	411.2	401.6	399.1	409.0	432.8	476.9	491.9	531.9
15°	488.7	489.5	475.5	453.6	428.6	411.7	410.3	429.8	475.8	493.3	544.5
17.5°	564.9	565.4	545.7	514.1	472.6	437.6	419.1	429.8	475.8	494.5	556.4
20°	645.8	642.7	620.5	580.9	526.9	473.4	435.6	432.5	477.1	496.6	567.6
22.5°	715.3	712.4	689.2	647.6	585.8	515.8	457.5	441.2	484.4	504.6	583.5
25°	776.0	777.8	755.1	708.4	644.4	563.7	490.5	461.3	499.4	519.1	603.2
27.5°	849.7	846.6	820.4	775.7	704.6	613.5	531.5	486.5	517.2	536.7	627.0
30°	935.1	933.6	898.3	852.4	770.9	668.9	572.3	513.7	540.5	560.9	657.2
32.5°	1038.7	1038.5	1000.6	944.3	845.7	731.6	620.4	550.9	574.5	595.0	696.9
35°	1156.1	1155.8	1116.7	1042.3	931.6	801.1	677.0	596.3	616.4	638.2	744.4
37.5°	1237.4	1236.2	1215.6	1143.5	1026.8	881.7	747.7	657.2	664.1	688.6	801.6
40°	1253.1	1261.0	1278.6	1236.0	1130.5	971.4	818.6	722.6	729.2	760.5	873.7
42.5°	1236.2	1246.4	1305.0	1316.9	1234.5	1080.1	907.5	813.4	821.7	860.7	958.4
45°	1221.3	1230.3	1303.6	1361.8	1336.9	1198.5	1018.3	924.3	939.8	988.2	1055.1
47.5°	1196.2	1204.4	1278.0	1369.8	1395.4	1312.6	1151.6	1057.5	1084.4	1143.1	1165.2
50°	1194.8	1198.5	1243.0	1342.8	1415.8	1399.2	1299.5	1213.3	1254.7	1322.1	1287.1
52.5°	1161.7	1187.6	1228.0	1299.8	1416.2	1449.8	1445.2	1384.2	1448.0	1522.6	1420.8
55°	959.3	989.2	1177.9	1278.6	1413.6	1493.1	1578.1	1565.9	1665.6	1744.1	1570.4
57.5°	895.7	908.4	1033.3	1284.9	1435.3	1564.7	1711.1	1761.1	1914.6	2000.4	1750.1
60°	878.4	891.6	1004.3	1288.0	1494.3	1695.0	1891.7	1981.8	2207.4	2298.5	1954.1
62.5°	858.9	876.1	1006.6	1290.9	1597.9	1887.9	2131.0	2220.9	2508.1	2589.3	2145.2
65°	802.4	825.3	966.2	1273.0	1711.4	2129.9	2447.5	2470.3	2756.4	2808.0	2260.6
67°	695.0	720.0	855.6	1169.8	1700.9	2293.0	2700.7	2626.5	2862.0	2868.3	2223.0
67.5°	661.1	686.9	818.3	1127.0	1671.0	2314.4	2745.5	2648.1	2861.1	2854.2	2188.4
70°	445.1	474.3	579.4	827.3	1340.5	2153.9	2734.6	2581.5	2673.4	2593.5	1880.1
72.5°	221.0	221.8	289.1	453.1	812.2	1544.8	2281.2	2208.6	2167.2	2016.3	1379.5
75°	106.4	108.3	136.5	200.2	342.4	797.5	1555.8	1490.2	1268.9	1098.5	690.4
77.5°	81.1	83.2	106.0	130.3	142.8	260.1	770.6	622.7	367.6	293.7	194.7
80°	62.7	66.4	89.6	100.2	94.5	104.3	242.3	190.7	143.0	131.2	96.4
82.5°	49.0	51.2	75.9	75.9	65.2	69.9	112.7	110.1	88.8	80.0	51.8
85°	34.7	38.9	61.2	56.7	42.8	43.3	67.6	64.7	45.8	36.8	20.2
87.5°	15.5	19.9	43.6	37.0	22.8	17.6	27.7	23.7	18.1	14.0	9.3
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°	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3
2.5°	514.8	518.3	523.7	526.9	531.3	533.1	534.9	537.8	540.3	539.6	538.5
5°	519.6	525.5	532.2	534.4	534.4	532.2	530.9	531.1	530.4	530.0	528.7
7.5°	526.5	534.6	539.4	537.2	530.4	521.9	513.9	509.1	504.6	501.8	502.6
10°	536.4	545.4	545.5	535.8	519.8	501.3	485.4	475.2	465.4	461.0	462.4
12.5°	550.5	559.5	551.7	531.1	502.8	473.9	444.8	423.6	404.6	400.0	398.8
15°	565.8	572.7	555.7	520.8	478.4	430.7	381.8	350.2	329.0	325.5	324.1
17.5°	579.0	582.9	553.7	502.6	439.9	364.8	307.8	286.5	282.1	284.3	284.3
20°	590.7	589.5	545.4	474.3	379.2	291.7	258.6	258.4	264.2	269.8	270.1
22.5°	605.5	595.3	531.7	432.4	306.7	243.4	237.7	243.4	249.9	255.9	256.6
25°	623.2	601.9	513.7	372.4	246.7	221.0	223.3	228.1	232.2	237.1	237.2
27.5°	640.9	606.9	488.3	302.1	213.9	206.6	209.1	211.1	212.2	215.2	215.2
30°	661.3	610.8	451.5	242.1	199.0	193.9	192.4	191.6	192.4	196.5	196.8
32.5°	686.9	617.8	401.2	207.7	192.0	185.1	177.1	172.8	175.9	183.3	184.6
35°	716.2	625.9	340.8	193.9	189.6	180.6	166.2	159.5	160.6	167.4	168.5
37.5°	752.7	636.7	281.4	190.7	192.0	180.2	161.2	151.8	147.0	147.1	147.0
40°	799.5	647.4	234.5	191.6	197.2	181.3	158.9	143.9	133.8	134.2	135.1
42.5°	848.4	654.3	204.6	194.2	203.6	182.8	158.0	136.3	127.6	134.9	141.8
45°	905.8	652.3	189.2	196.5	208.2	183.6	154.8	135.4	128.2	150.5	163.0
47.5°	971.4	643.8	180.5	197.6	209.7	183.3	152.4	138.2	133.7	172.1	186.6
50°	1042.9	630.6	173.6	195.9	208.9	182.4	155.0	141.8	135.9	177.0	188.0
52.5°	1121.1	618.5	166.2	192.0	205.7	179.8	158.2	140.1	129.7	163.0	171.5
55°	1213.5	615.6	158.2	185.2	200.2	177.0	156.6	135.4	123.0	144.5	149.7
57.5°	1319.3	633.2	147.9	177.0	192.9	171.2	152.4	132.8	120.6	131.5	134.2
60°	1453.6	672.2	136.7	168.3	183.8	162.9	148.7	133.5	121.2	129.5	130.2
62.5°	1558.5	707.2	126.8	157.7	171.5	152.6	144.7	134.0	123.2	132.1	131.1
65°	1596.6	690.0	114.3	141.8	154.2	141.3	139.2	134.6	123.2	133.7	131.2
67°	1518.5	608.0	102.5	125.9	138.0	131.2	134.0	132.8	121.0	133.5	129.3
67.5°	1481.2	579.0	99.5	123.2	133.7	128.2	132.8	132.0	120.4	132.9	128.2
70°	1221.5	415.3	84.0	103.3	111.8	112.9	124.8	126.2	115.2	125.0	116.2
72.5°	869.2	259.9	72.6	80.0	90.3	96.7	113.8	118.7	108.2	108.7	101.4
75°	430.1	139.5	64.7	61.9	70.2	80.6	99.3	108.2	97.9	90.5	88.2
77.5°	145.2	79.1	54.6	49.9	54.6	64.7	82.3	94.5	86.3	76.6	75.1
80°	75.1	57.5	42.7	40.1	43.1	50.0	64.4	78.6	73.8	74.2	61.2
82.5°	46.8	35.0	30.7	30.5	32.7	38.3	47.4	63.8	63.3	54.2	39.3
85°	21.7	20.2	19.7	20.2	20.9	21.7	30.9	45.5	48.1	29.1	26.0
87.5°	9.2	9.0	7.8	8.4	9.3	9.2	12.3	19.4	26.9	18.2	16.8
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)