

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: P198660

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
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-5WQ-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5200.7 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

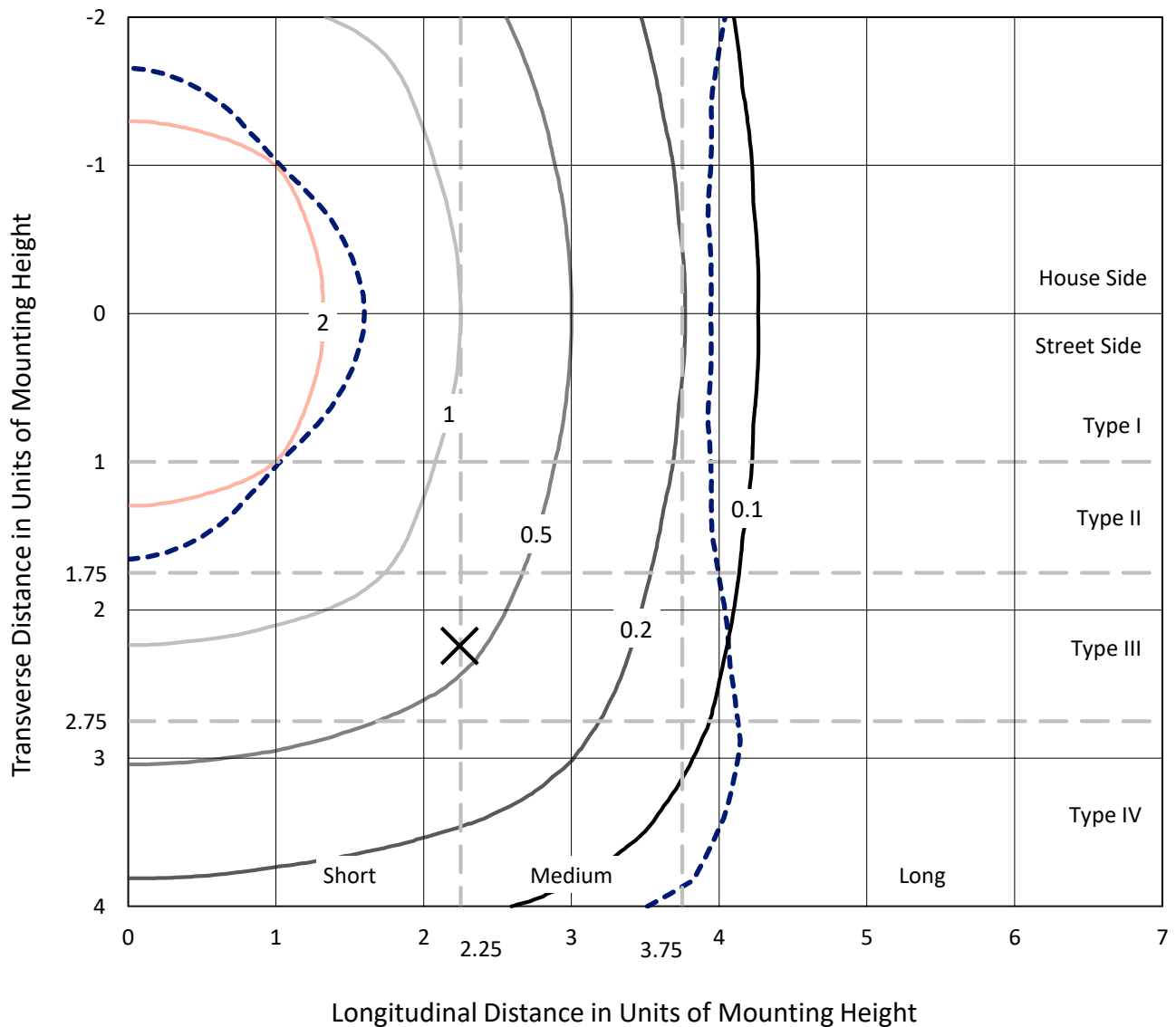
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

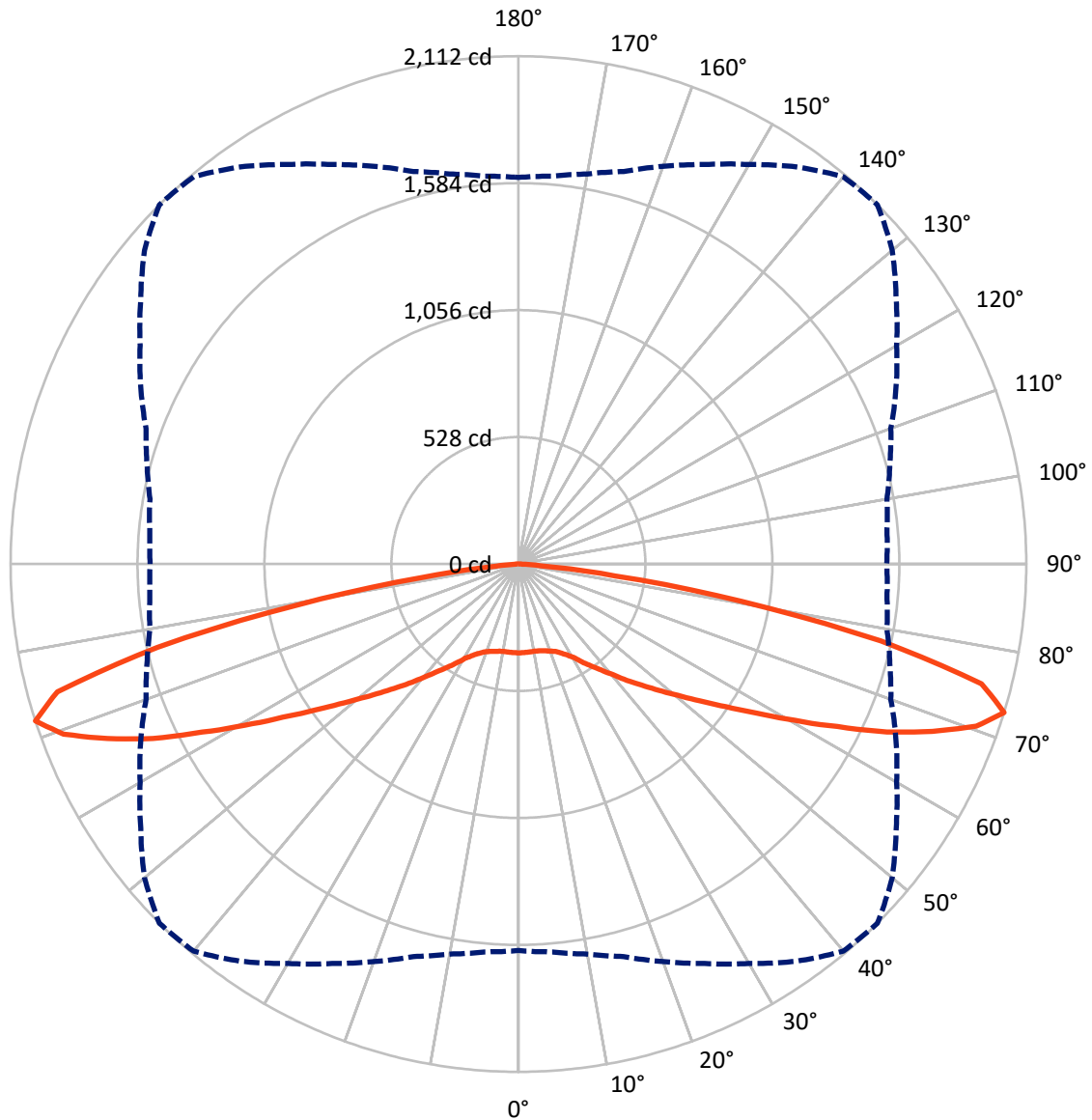
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2600.3	0.0	2600.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2600.3	0.0	2600.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5200.7	0.0	5200.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	0.7
10°-20°	106.8	2.1
20°-30°	192.8	3.7
30°-40°	328.9	6.3
40°-50°	559.9	10.8
50°-60°	901.1	17.3
60°-70°	1498.6	28.8
70°-80°	1449.7	27.9
80°-90°	127.6	2.5
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°	5200.7	100.0
0°-180°	5200.7	100.0



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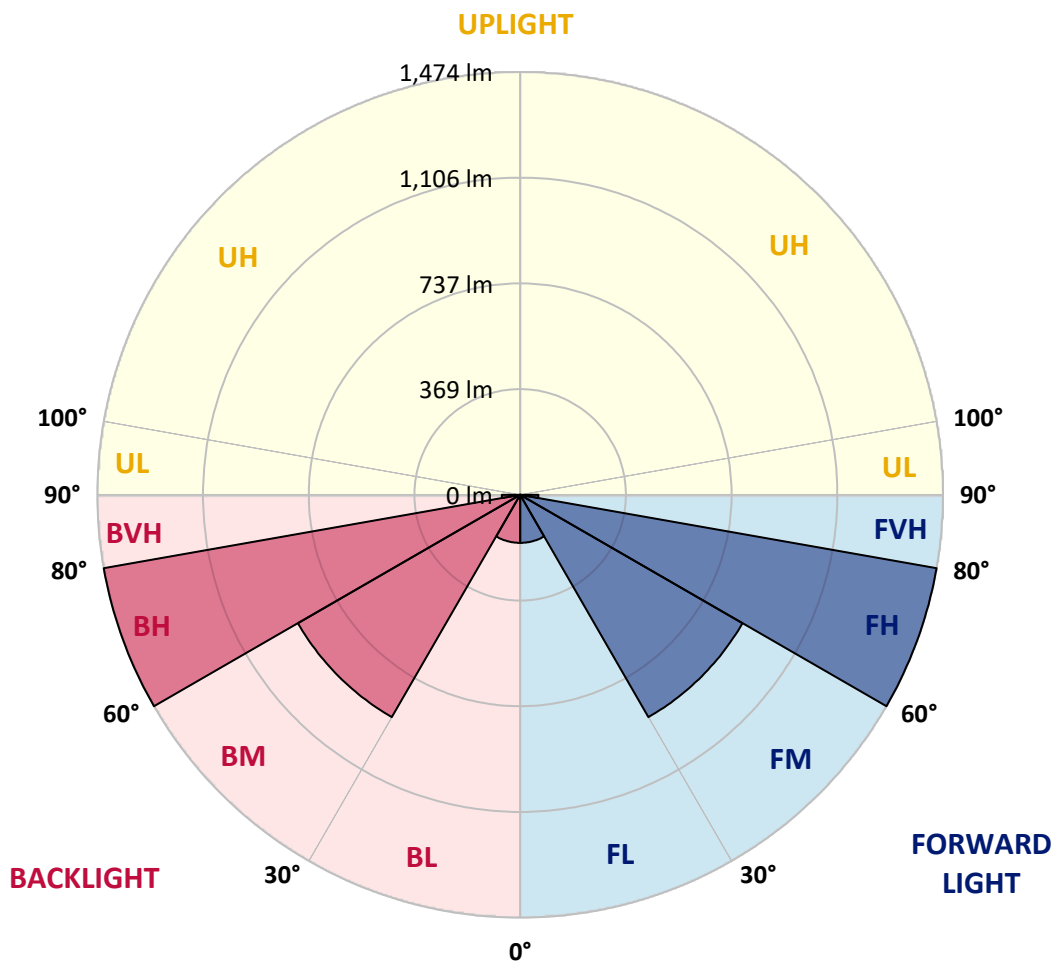
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.5	3.2			
FM	(30°-60°)	895.0	17.2			
FH	(60°-80°)	1474.1	28.3			G1/1800
FVH	(80°-90°)	63.8	1.2			G1/100
BL	(0°-30°)	167.5	3.2	B1/500		
BM	(30°-60°)	895.0	17.2	B1/1000		
BH	(60°-80°)	1474.1	28.3	B3/2500		G1/1800
BVH	(80°-90°)	63.8	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7
2.5°	372.7	372.7	373.0	372.7	371.9	371.6	370.7	370.0	369.4	369.1	368.5
5°	373.0	373.0	373.3	373.0	372.3	371.6	371.0	370.0	369.4	368.8	368.5
7.5°	374.2	374.5	374.8	374.5	373.3	372.7	371.6	370.7	369.4	368.8	368.2
10°	376.8	376.8	376.8	376.4	375.5	374.2	373.0	371.9	370.4	368.8	367.9
12.5°	378.7	379.0	379.0	378.4	377.1	375.5	374.2	373.3	371.9	370.7	369.7
15°	381.6	381.6	381.3	379.9	378.1	376.8	376.1	375.8	375.5	374.8	373.9
17.5°	387.3	387.0	386.1	384.1	381.9	380.9	380.3	380.3	380.3	379.9	379.3
20°	395.7	395.7	394.3	391.2	389.2	388.3	387.3	387.3	387.3	386.4	385.4
22.5°	409.1	409.4	407.5	403.7	401.1	399.2	397.9	396.9	396.0	395.4	393.7
25°	427.4	427.0	424.8	420.0	418.1	416.1	413.6	411.9	410.7	409.8	407.9
27.5°	446.5	446.2	443.7	439.6	438.2	435.4	433.4	431.2	429.6	428.0	426.1
30°	471.2	469.6	467.7	464.5	463.8	461.6	459.0	455.8	453.3	450.7	448.5
32.5°	493.3	493.3	490.4	488.8	490.1	489.2	489.5	487.5	485.9	485.0	482.7
35°	524.1	524.1	522.7	520.8	521.2	518.9	518.5	518.9	520.2	520.2	517.6
37.5°	565.0	565.6	561.5	560.9	559.2	556.1	554.4	555.1	557.9	559.6	556.1
40°	615.9	617.1	615.9	611.7	609.8	604.4	601.2	601.2	603.4	605.0	603.7
42.5°	666.1	668.4	666.1	663.0	661.3	657.1	655.6	656.8	659.7	661.6	659.7
45°	722.2	723.7	720.9	717.1	715.1	712.9	712.0	712.9	716.1	718.0	717.4
47.5°	777.2	779.5	775.9	774.4	774.4	772.1	774.7	777.2	780.1	784.6	782.7
50°	831.0	833.9	831.7	832.0	834.5	838.7	843.5	848.6	853.8	858.6	859.2
52.5°	879.0	883.5	883.8	889.6	897.6	904.0	917.5	928.6	940.8	945.0	943.1
55°	929.6	935.7	943.7	952.7	965.5	978.6	1001.3	1021.5	1037.5	1047.4	1045.8
57.5°	1002.0	1008.0	1016.4	1031.0	1050.3	1068.2	1099.3	1130.7	1155.0	1170.1	1162.7
60°	1095.8	1102.1	1113.1	1128.7	1153.7	1178.0	1220.6	1265.7	1303.5	1320.7	1307.3
62.5°	1220.0	1226.0	1233.1	1253.8	1281.8	1313.1	1366.6	1424.5	1472.5	1489.2	1470.3
65°	1396.9	1404.3	1406.6	1423.5	1450.7	1479.9	1537.5	1602.8	1657.6	1684.8	1647.0
67.5°	1596.4	1599.3	1608.3	1628.1	1656.0	1682.1	1727.7	1789.4	1841.9	1857.0	1816.7
70°	1713.2	1719.0	1734.7	1762.2	1795.5	1836.8	1886.4	1953.0	2012.6	2019.6	1968.4
72.5°	1607.6	1619.4	1647.3	1690.2	1760.0	1833.3	1918.7	2017.1	2102.5	2112.4	2030.1
75°	1289.4	1302.8	1336.2	1383.2	1465.8	1574.6	1698.2	1845.8	1973.8	1990.2	1881.3
77.5°	687.3	703.9	752.3	815.6	933.4	1077.5	1226.3	1394.7	1503.5	1540.4	1462.0
80°	173.2	182.2	205.5	242.6	322.3	438.5	566.9	748.1	883.2	940.5	883.2
82.5°	67.2	74.0	80.3	84.8	92.5	108.5	149.9	244.3	329.1	405.3	350.9
85°	25.9	27.5	39.7	45.1	45.1	49.6	57.0	67.2	83.3	90.9	76.2
87.5°	10.2	11.3	13.8	21.2	21.8	19.2	20.5	23.0	17.6	14.7	16.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	369.7	369.7	369.7	369.7	369.7	369.7	369.7	369.7
2.5°	368.2	367.9	367.1	367.4	367.1	367.1	367.1	367.1
5°	367.9	367.9	367.1	367.1	367.1	367.4	367.1	367.1
7.5°	367.4	367.1	366.5	366.2	366.2	365.9	365.9	365.9
10°	366.8	366.2	365.6	365.3	365.3	364.6	364.6	364.6
12.5°	368.5	367.4	366.8	366.5	366.5	366.5	366.8	366.8
15°	373.0	371.0	370.0	369.7	370.0	370.7	371.0	371.3
17.5°	377.8	375.8	374.2	373.6	373.9	374.8	375.8	376.4
20°	383.8	382.2	380.3	379.6	379.6	380.9	381.6	382.6
22.5°	392.5	391.2	389.5	388.6	388.0	389.5	390.6	391.2
25°	406.2	405.0	403.7	402.7	402.4	404.0	404.6	405.0
27.5°	424.4	423.2	422.6	422.3	421.3	421.9	422.9	422.6
30°	448.2	449.1	448.2	448.2	446.5	447.2	446.5	445.9
32.5°	479.9	478.8	476.0	474.0	471.9	471.9	470.9	469.9
35°	511.6	508.3	506.8	507.7	506.8	507.4	505.7	504.2
37.5°	549.0	547.1	546.8	549.6	549.0	549.6	549.6	547.4
40°	598.6	597.3	599.6	604.4	606.3	606.0	606.6	603.7
42.5°	655.6	653.4	654.3	658.5	660.7	661.3	661.0	658.5
45°	712.6	713.2	713.2	717.7	720.0	721.2	718.9	718.0
47.5°	776.9	777.9	775.6	778.5	779.2	781.4	779.5	777.9
50°	851.2	847.6	842.5	843.5	843.5	842.8	840.7	838.7
52.5°	934.1	926.1	916.5	913.3	909.7	906.2	901.7	898.3
55°	1028.5	1014.8	997.5	989.5	982.7	974.8	964.5	961.0
57.5°	1138.0	1114.3	1091.3	1076.9	1059.6	1049.0	1035.8	1035.2
60°	1267.9	1235.9	1195.3	1173.8	1156.5	1144.1	1134.1	1130.4
62.5°	1418.1	1363.1	1319.2	1296.2	1275.9	1268.3	1255.8	1257.4
65°	1572.1	1516.0	1473.5	1454.9	1436.0	1430.9	1419.3	1423.5
67.5°	1738.8	1692.8	1646.0	1628.7	1611.5	1606.3	1594.5	1598.0
70°	1888.4	1829.8	1776.7	1742.7	1713.2	1689.5	1674.5	1668.4
72.5°	1918.1	1816.7	1733.1	1648.3	1599.3	1556.4	1538.8	1532.1
75°	1723.5	1566.0	1446.9	1347.3	1292.3	1229.9	1223.1	1213.8
77.5°	1340.7	1161.4	1017.3	889.3	815.3	739.2	712.9	693.0
80°	799.6	614.6	476.3	333.9	272.4	219.3	206.1	192.4
82.5°	286.2	183.4	123.6	96.4	86.1	79.4	74.3	67.5
85°	69.2	58.3	55.0	49.9	49.3	41.9	29.8	26.6
87.5°	22.1	20.2	20.5	19.5	20.5	15.3	12.5	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)