

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: P199142

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199142  
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-8030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5134 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

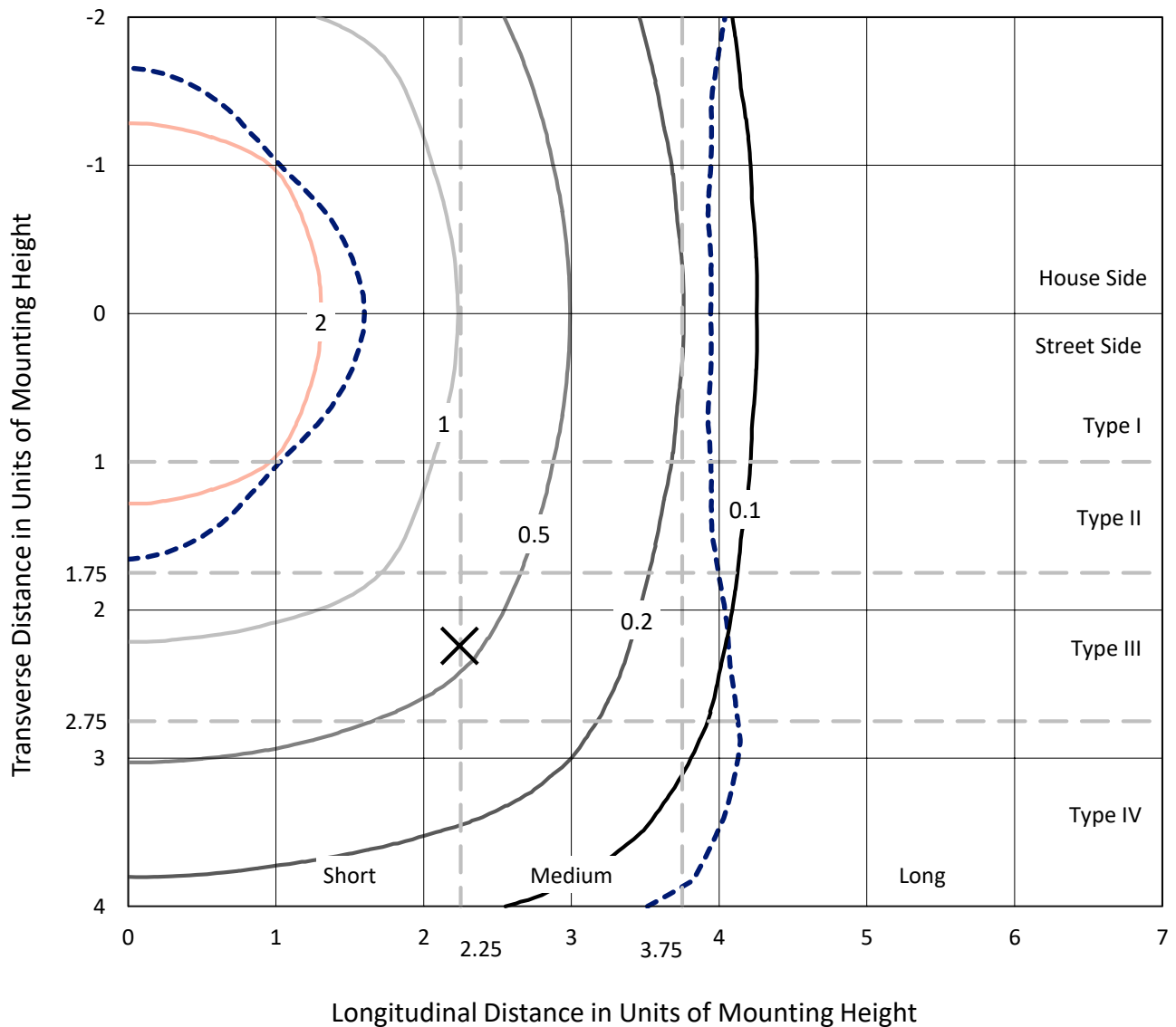
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

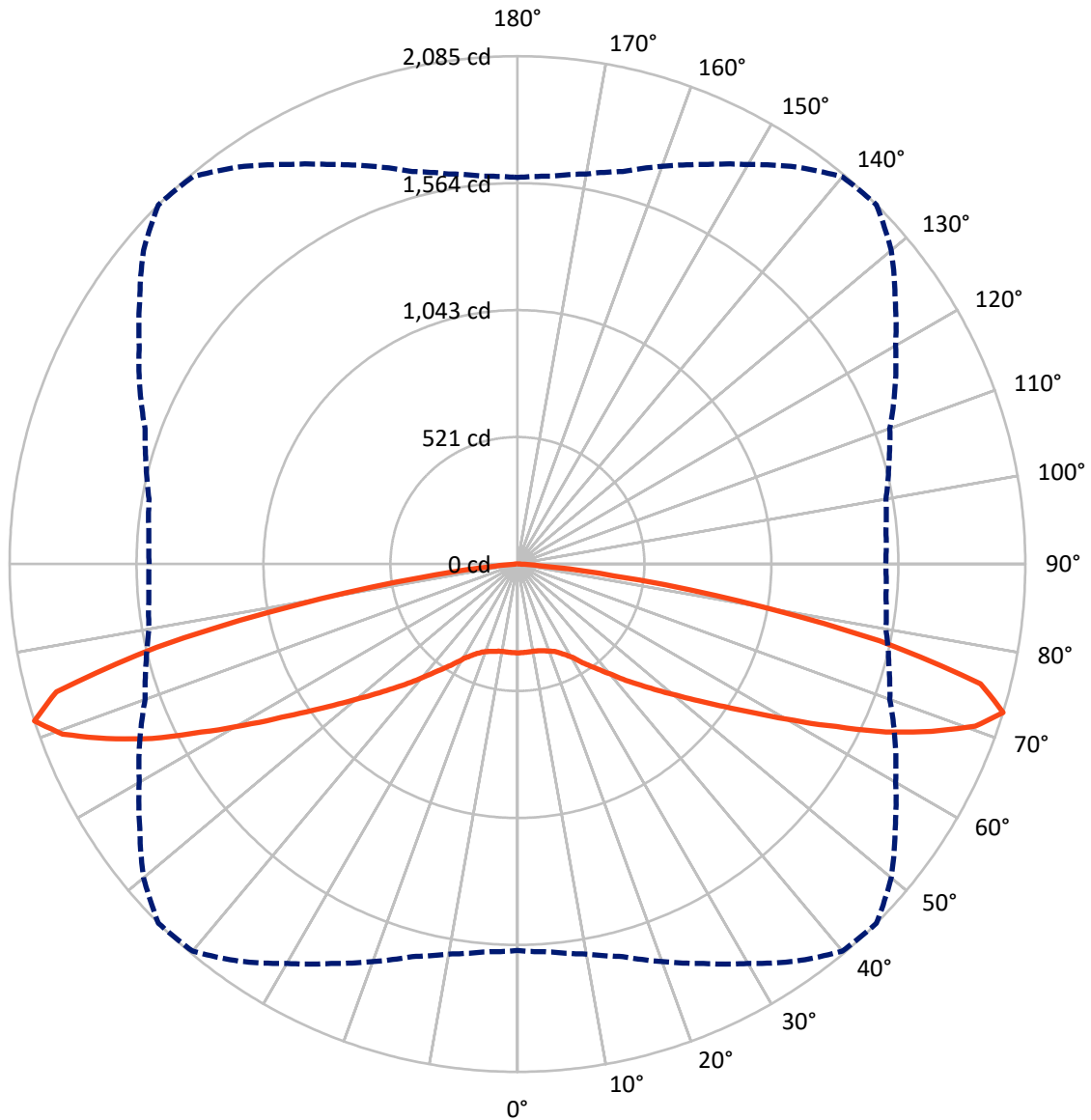
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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	2567.0	0.0	2567.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2567.0	0.0	2567.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5134.0	0.0	5134.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.8	0.7
10°-20°	105.4	2.1
20°-30°	190.3	3.7
30°-40°	324.7	6.3
40°-50°	552.7	10.8
50°-60°	889.6	17.3
60°-70°	1479.4	28.8
70°-80°	1431.1	27.9
80°-90°	126.0	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°	5134.0	100.0
0°-180°	5134.0	100.0



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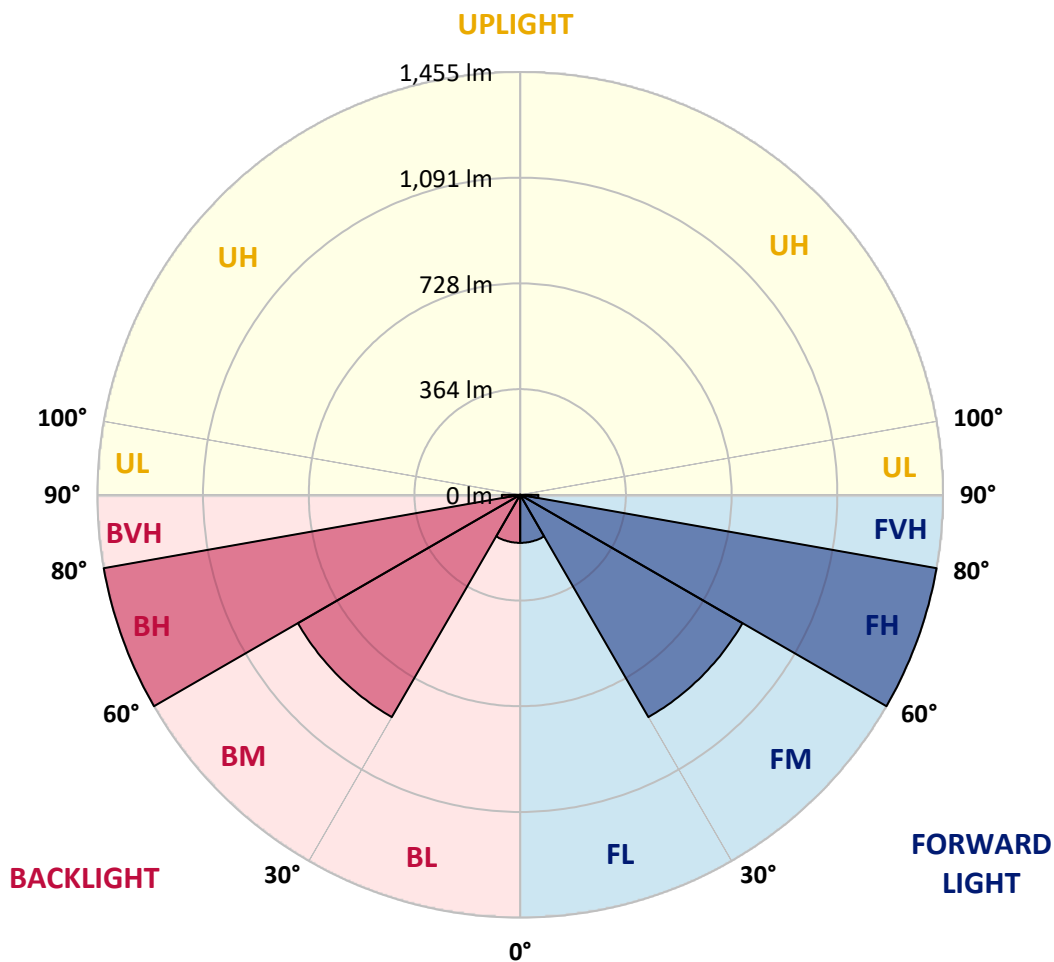
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.3	3.2			
FM	(30°-60°)	883.5	17.2			
FH	(60°-80°)	1455.2	28.3			G1/1800
FVH	(80°-90°)	63.0	1.2			G1/100
BL	(0°-30°)	165.3	3.2	B1/500		
BM	(30°-60°)	883.5	17.2	B1/1000		
BH	(60°-80°)	1455.2	28.3	B3/2500		G1/1800
BVH	(80°-90°)	63.0	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°	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
2.5°	367.8	367.8	368.1	367.8	367.2	366.9	365.9	365.3	364.7	364.4	363.7
5°	368.1	368.1	368.5	368.1	367.5	366.9	366.3	365.3	364.7	364.0	363.7
7.5°	369.4	369.7	370.0	369.7	368.5	367.8	366.9	365.9	364.7	364.0	363.4
10°	371.9	371.9	371.9	371.6	370.7	369.4	368.1	367.2	365.6	364.0	363.1
12.5°	373.8	374.2	374.2	373.5	372.3	370.7	369.4	368.5	367.2	365.9	365.0
15°	376.7	376.7	376.4	375.1	373.2	371.9	371.3	371.0	370.7	370.0	369.1
17.5°	382.4	382.1	381.1	379.2	377.0	376.0	375.4	375.4	375.4	375.1	374.5
20°	390.6	390.6	389.3	386.2	384.3	383.3	382.4	382.4	382.4	381.4	380.5
22.5°	403.9	404.2	402.3	398.5	396.0	394.1	392.8	391.8	390.9	390.3	388.7
25°	421.9	421.6	419.3	414.6	412.7	410.8	408.3	406.7	405.4	404.5	402.6
27.5°	440.8	440.5	438.0	433.9	432.6	429.8	427.9	425.7	424.1	422.5	420.6
30°	465.2	463.6	461.7	458.5	457.9	455.7	453.2	450.0	447.5	444.9	442.7
32.5°	487.0	487.0	484.1	482.5	483.8	482.9	483.2	481.3	479.7	478.8	476.5
35°	517.3	517.3	516.0	514.1	514.5	512.2	511.9	512.2	513.5	513.5	511.0
37.5°	557.8	558.4	554.3	553.6	552.1	548.9	547.3	548.0	550.8	552.4	548.9
40°	608.0	609.3	608.0	603.9	602.0	596.6	593.5	593.5	595.7	597.3	596.0
42.5°	657.6	659.8	657.6	654.5	652.9	648.8	647.2	648.4	651.3	653.2	651.3
45°	712.9	714.5	711.6	707.9	706.0	703.7	702.8	703.7	706.9	708.8	708.2
47.5°	767.3	769.5	766.0	764.4	764.4	762.2	764.7	767.3	770.1	774.5	772.6
50°	820.4	823.2	821.0	821.3	823.8	827.9	832.7	837.7	842.8	847.5	848.2
52.5°	867.8	872.2	872.5	878.2	886.1	892.4	905.7	916.7	928.7	932.9	931.0
55°	917.7	923.7	931.6	940.4	953.1	966.0	988.5	1008.4	1024.2	1034.0	1032.4
57.5°	989.1	995.1	1003.3	1017.9	1036.8	1054.5	1085.2	1116.1	1140.2	1155.0	1147.7
60°	1081.7	1088.0	1098.8	1114.2	1138.9	1162.9	1204.9	1249.5	1286.8	1303.8	1290.6
62.5°	1204.3	1210.3	1217.3	1237.8	1265.3	1296.3	1349.0	1406.2	1453.6	1470.1	1451.4
65°	1379.1	1386.3	1388.5	1405.3	1432.1	1460.9	1517.8	1582.3	1636.3	1663.1	1625.9
67.5°	1575.9	1578.8	1587.6	1607.2	1634.7	1660.6	1705.5	1766.5	1818.3	1833.2	1793.3
70°	1691.3	1697.0	1712.4	1739.6	1772.5	1813.3	1862.2	1928.0	1986.7	1993.7	1943.1
72.5°	1587.0	1598.7	1626.2	1668.5	1737.4	1809.8	1894.1	1991.2	2075.5	2085.3	2004.1
75°	1272.9	1286.2	1319.0	1365.5	1447.0	1554.4	1676.4	1822.1	1948.5	1964.6	1857.2
77.5°	678.5	694.9	742.6	805.2	921.5	1063.7	1210.6	1376.8	1484.3	1520.6	1443.2
80°	171.0	179.8	202.9	239.5	318.2	432.9	559.6	738.5	871.9	928.4	871.9
82.5°	66.4	73.0	79.3	83.7	91.3	107.1	147.9	241.1	324.9	400.1	346.3
85°	25.6	27.2	39.2	44.6	44.6	49.0	56.2	66.4	82.2	89.7	75.2
87.5°	10.1	11.1	13.6	20.9	21.5	19.0	20.2	22.8	17.4	14.5	16.4
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°	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
2.5°	363.4	363.1	362.5	362.8	362.5	362.5	362.5	362.5
5°	363.1	363.1	362.5	362.5	362.5	362.8	362.5	362.5
7.5°	362.8	362.5	361.8	361.5	361.5	361.2	361.2	361.2
10°	362.1	361.5	360.9	360.6	360.6	359.9	359.9	359.9
12.5°	363.7	362.8	362.1	361.8	361.8	361.8	362.1	362.1
15°	368.1	366.3	365.3	365.0	365.3	365.9	366.3	366.6
17.5°	372.9	371.0	369.4	368.8	369.1	370.0	371.0	371.6
20°	378.9	377.3	375.4	374.8	374.8	376.0	376.7	377.6
22.5°	387.4	386.2	384.6	383.6	383.0	384.6	385.5	386.2
25°	401.0	399.7	398.5	397.5	397.2	398.8	399.4	399.7
27.5°	419.0	417.8	417.1	416.8	415.9	416.5	417.4	417.1
30°	442.4	443.4	442.4	442.4	440.8	441.5	440.8	440.2
32.5°	473.7	472.7	469.9	468.0	465.8	465.8	464.8	463.9
35°	505.0	501.8	500.2	501.2	500.2	500.9	499.3	497.7
37.5°	542.0	540.1	539.7	542.6	542.0	542.6	542.6	540.4
40°	590.9	589.7	591.9	596.6	598.5	598.2	598.8	596.0
42.5°	647.2	645.0	645.9	650.0	652.2	652.9	652.6	650.0
45°	703.4	704.1	704.1	708.5	710.7	712.0	709.8	708.8
47.5°	767.0	767.9	765.7	768.5	769.2	771.4	769.5	767.9
50°	840.3	836.8	831.7	832.7	832.7	832.0	829.8	827.9
52.5°	922.1	914.2	904.7	901.6	898.1	894.6	890.2	886.7
55°	1015.3	1001.7	984.7	976.8	970.1	962.2	952.1	948.7
57.5°	1123.4	1100.0	1077.3	1063.0	1046.0	1035.6	1022.6	1022.0
60°	1251.7	1220.1	1180.0	1158.8	1141.7	1129.4	1119.6	1115.8
62.5°	1399.9	1345.6	1302.3	1279.5	1259.6	1252.0	1239.7	1241.3
65°	1551.9	1496.6	1454.6	1436.3	1417.6	1412.6	1401.2	1405.3
67.5°	1716.6	1671.0	1624.9	1607.8	1590.8	1585.7	1574.0	1577.5
70°	1864.1	1806.3	1753.8	1720.3	1691.3	1667.9	1653.0	1647.0
72.5°	1893.5	1793.3	1710.9	1627.1	1578.8	1536.4	1519.0	1512.4
75°	1701.4	1545.9	1428.4	1330.1	1275.7	1214.1	1207.5	1198.3
77.5°	1323.4	1146.5	1004.3	877.9	804.9	729.7	703.7	684.2
80°	789.4	606.7	470.2	329.6	268.9	216.5	203.5	189.9
82.5°	282.5	181.1	122.0	95.1	85.0	78.4	73.3	66.7
85°	68.3	57.5	54.4	49.3	48.7	41.4	29.4	26.2
87.5°	21.8	19.9	20.2	19.3	20.2	15.2	12.3	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)