

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: P198804

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
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-5MQ-7050-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5204 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full 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

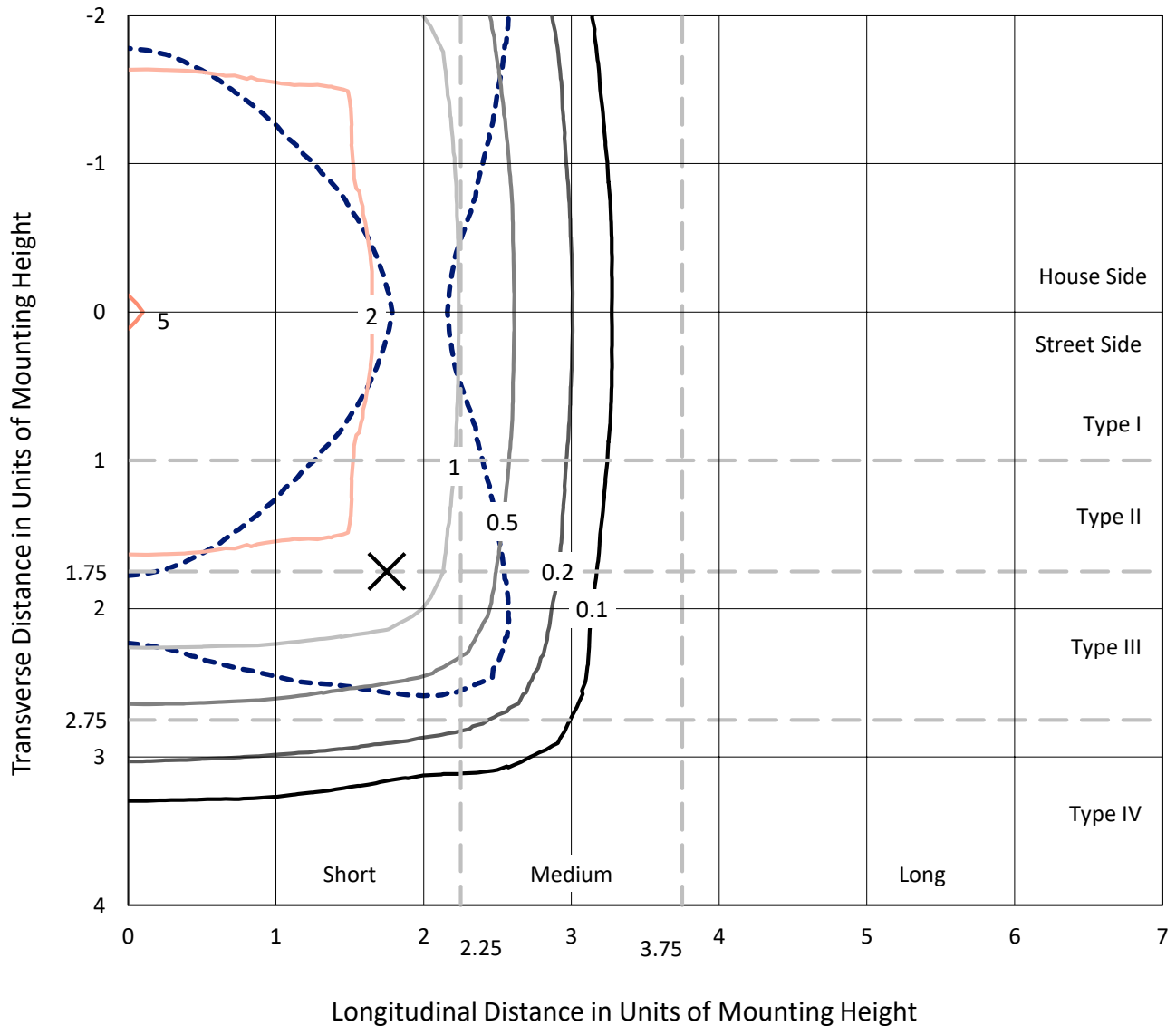


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

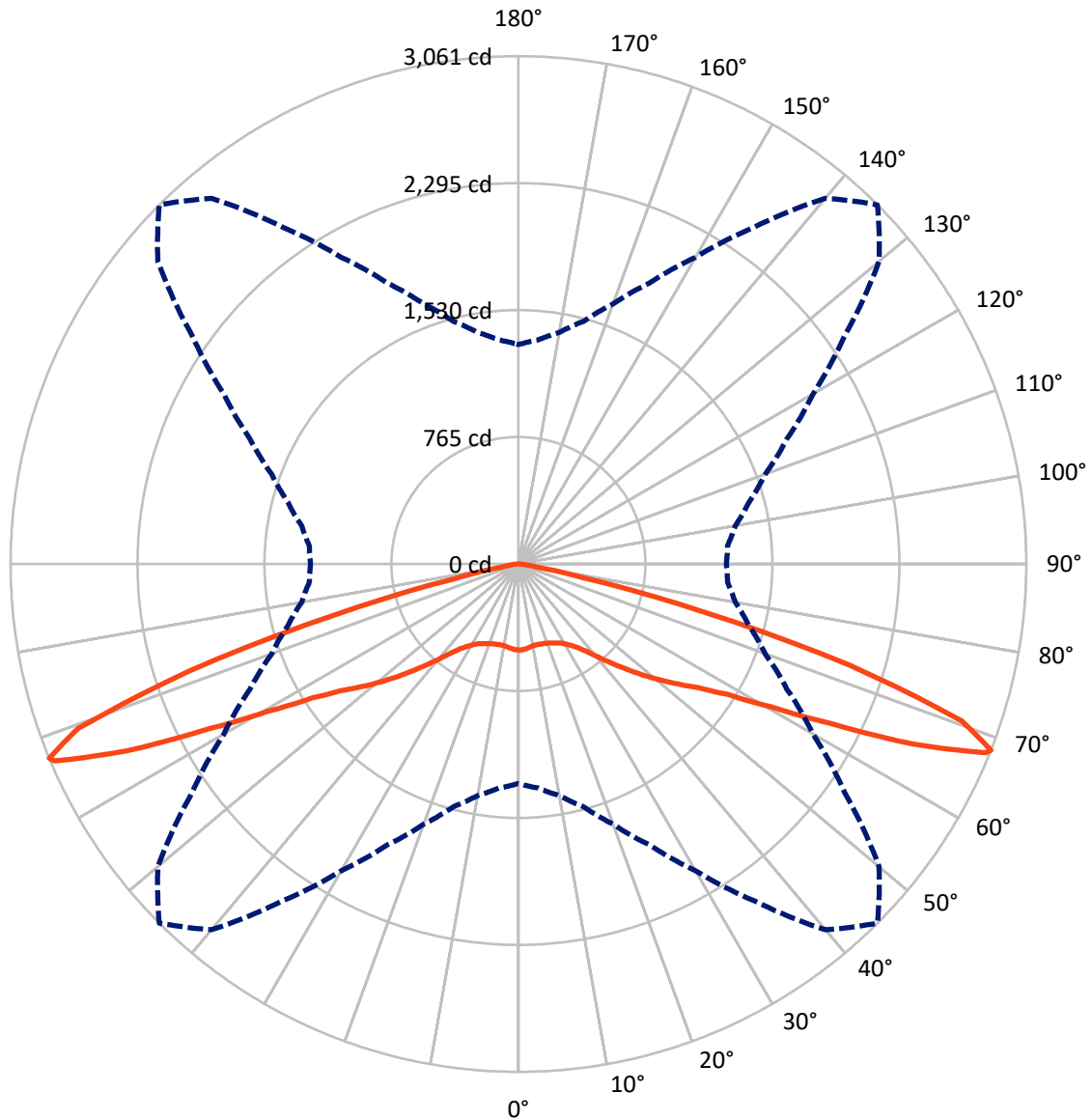


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2602.0	0.0	2602.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2602.0	0.0	2602.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5204.0	0.0	5204.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	0.9
10°-20°	140.9	2.7
20°-30°	239.5	4.6
30°-40°	391.9	7.5
40°-50°	700.5	13.5
50°-60°	1183.0	22.7
60°-70°	1834.3	35.2
70°-80°	630.7	12.1
80°-90°	34.7	0.7
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°	5204.0	100.0
0°-180°	5204.0	100.0



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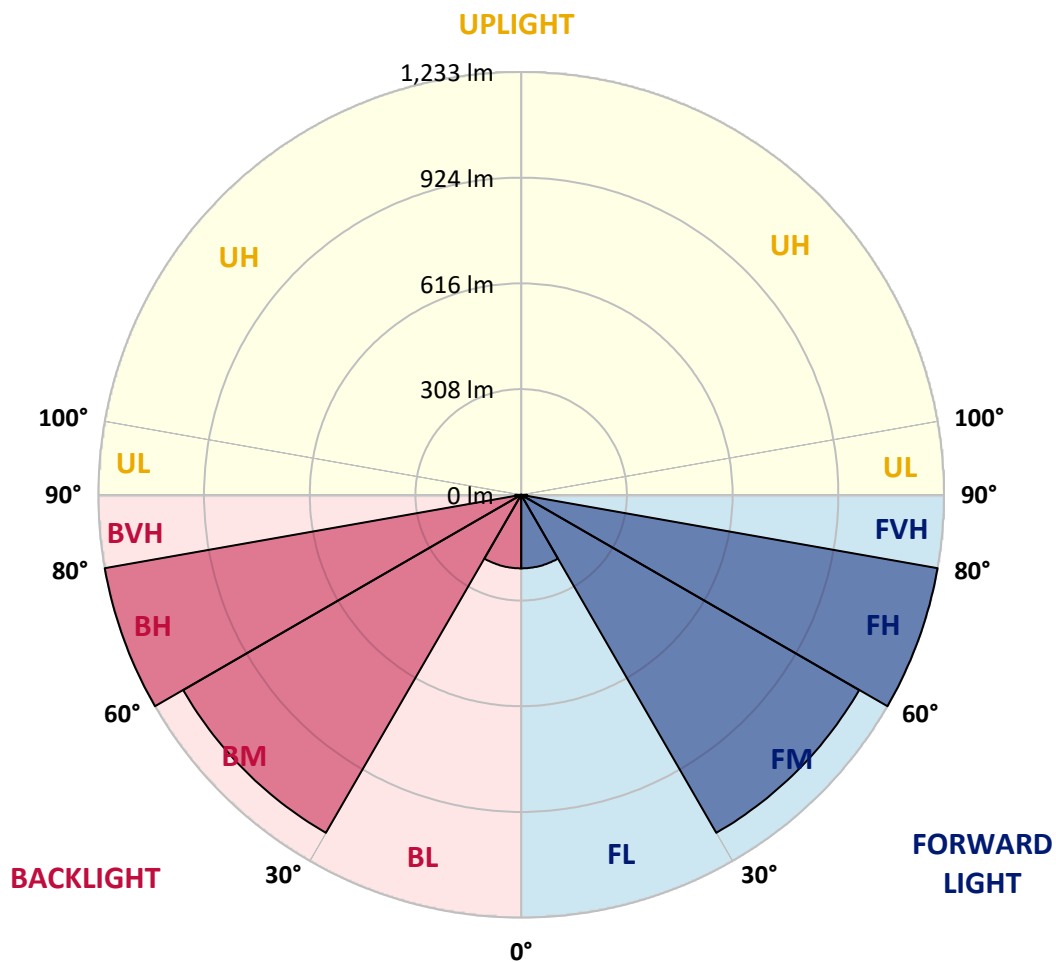
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.5	4.1			
FM (30°-60°)	1137.7	21.9			
FH (60°-80°)	1232.5	23.7			G1/1800
FVH (80°-90°)	17.3	0.3			G1/100
BL (0°-30°)	214.5	4.1	B1/500		
BM (30°-60°)	1137.7	21.9	B2/2500		
BH (60°-80°)	1232.5	23.7	B3/2500		G1/1800
BVH (80°-90°)	17.3	0.3			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°	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
2.5°	521.3	521.3	522.0	521.7	520.7	519.8	518.8	517.8	517.2	516.6	515.9
5°	515.9	515.9	516.9	516.2	515.6	514.7	514.0	513.1	512.4	511.8	512.1
7.5°	508.9	509.6	510.2	509.9	508.6	508.3	507.3	507.0	506.4	505.4	505.7
10°	502.9	503.2	503.8	503.5	503.2	502.2	501.9	501.6	501.3	500.0	499.7
12.5°	496.8	497.4	498.1	498.4	498.1	498.4	498.7	499.0	498.7	498.1	498.1
15°	492.0	492.7	493.6	494.6	494.9	496.8	498.1	499.4	500.3	500.6	499.7
17.5°	489.5	490.4	491.7	493.6	495.2	497.4	499.7	501.6	503.2	503.5	502.5
20°	489.2	490.1	492.0	494.3	497.1	500.0	503.5	506.4	508.0	508.9	508.0
22.5°	491.4	492.7	495.2	498.1	501.6	505.4	509.9	513.1	516.2	517.5	516.6
25°	497.8	499.0	501.9	505.4	509.2	514.0	518.5	522.6	525.8	527.4	526.1
27.5°	511.1	511.5	514.7	518.5	522.9	527.1	532.8	534.7	537.3	538.9	537.3
30°	529.9	530.6	533.5	539.5	543.7	549.1	552.3	554.2	557.0	558.6	556.7
32.5°	558.6	559.3	561.8	567.6	571.4	575.5	579.3	580.6	583.5	585.4	583.2
35°	599.1	600.4	602.6	606.4	609.6	612.8	615.7	614.7	616.6	619.2	616.9
37.5°	654.5	654.2	654.9	657.7	660.9	662.8	667.3	665.1	667.0	669.2	667.9
40°	719.2	719.2	718.9	724.0	725.3	727.2	732.0	729.1	731.7	734.2	732.0
42.5°	792.9	794.1	795.7	799.9	803.4	804.0	806.2	805.0	808.1	810.4	808.1
45°	877.6	879.5	881.4	891.0	892.6	893.9	895.5	891.3	894.8	896.7	896.1
47.5°	965.6	969.1	973.2	983.1	989.5	992.3	993.6	988.8	989.2	992.0	992.3
50°	1065.0	1068.8	1073.0	1084.1	1090.2	1095.3	1096.9	1091.4	1092.1	1094.3	1095.0
52.5°	1156.8	1161.2	1170.2	1185.1	1193.7	1202.7	1203.3	1196.6	1199.5	1201.1	1199.8
55°	1243.1	1248.9	1260.7	1280.7	1296.4	1313.9	1321.8	1314.5	1314.5	1313.2	1312.6
57.5°	1343.8	1350.2	1362.3	1385.6	1407.2	1432.4	1454.1	1461.4	1474.8	1479.3	1472.3
60°	1495.5	1502.2	1514.6	1545.2	1572.6	1609.3	1645.0	1674.0	1721.1	1746.6	1723.7
62.5°	1634.1	1644.3	1673.7	1727.2	1786.5	1854.3	1933.1	1989.1	2074.9	2117.6	2059.9
65°	1602.6	1623.3	1680.7	1764.8	1887.2	2034.4	2194.7	2348.6	2525.8	2616.6	2499.3
67.5°	1399.9	1417.4	1479.3	1577.1	1729.7	1932.7	2181.9	2500.6	2866.1	3036.3	2828.8
68°	1322.5	1355.3	1416.8	1514.0	1667.9	1867.4	2133.5	2477.7	2876.6	3060.5	2836.5
70°	1014.0	1025.8	1084.8	1172.1	1338.1	1533.8	1802.4	2194.7	2645.6	2834.9	2604.5
72.5°	481.8	488.8	527.1	613.1	718.6	877.9	1115.0	1485.0	1891.3	2088.2	1858.5
75°	176.5	178.1	187.1	207.5	247.0	306.9	420.6	650.7	963.3	1148.8	967.2
77.5°	95.3	95.6	99.1	104.2	111.2	119.2	136.4	182.9	295.1	401.5	311.7
80°	59.9	59.6	63.1	67.2	72.0	75.8	77.4	82.9	93.4	109.3	100.4
82.5°	30.6	33.5	41.4	45.9	52.9	54.2	52.6	52.3	55.4	59.9	61.8
85°	16.9	15.0	22.0	29.3	31.9	32.8	33.1	31.2	30.6	30.0	31.5
87.5°	8.6	8.0	9.6	14.7	15.6	12.7	13.1	11.2	7.6	7.6	8.0
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°	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
2.5°	515.3	515.6	515.0	515.0	515.0	515.3	515.0	514.7
5°	511.1	511.8	511.8	512.1	512.4	512.4	512.4	512.4
7.5°	505.1	505.4	506.0	506.0	506.0	506.0	506.0	506.0
10°	499.4	498.7	498.4	497.8	497.8	496.8	497.1	497.4
12.5°	496.5	495.2	494.6	493.6	493.0	492.0	492.0	492.3
15°	497.8	495.9	493.9	493.3	492.7	492.0	491.4	491.7
17.5°	500.3	498.1	495.9	494.6	493.3	492.3	492.0	492.3
20°	505.7	502.5	499.0	496.8	494.3	493.6	492.7	493.6
22.5°	513.1	509.2	504.8	500.6	497.8	496.5	495.2	496.2
25°	522.0	517.8	513.4	508.6	505.4	504.5	502.9	502.9
27.5°	534.4	530.9	527.1	522.6	519.4	518.5	515.9	515.9
30°	554.2	550.7	547.2	543.3	540.1	539.2	536.0	536.0
32.5°	580.3	576.5	574.2	571.1	568.5	566.9	563.1	562.8
35°	615.4	611.8	611.5	609.3	606.7	607.1	603.2	602.6
37.5°	665.7	662.8	663.8	661.9	659.6	661.6	659.3	659.3
40°	730.1	729.1	730.1	728.8	729.1	729.4	727.5	728.2
42.5°	807.8	805.3	811.0	810.4	809.4	812.0	807.5	804.3
45°	897.4	896.4	902.2	903.1	901.2	902.8	894.8	894.5
47.5°	994.6	994.6	999.7	999.0	997.1	997.4	987.9	981.8
50°	1095.9	1095.3	1100.4	1099.1	1096.5	1096.2	1086.3	1080.3
52.5°	1201.4	1201.4	1208.7	1205.2	1199.2	1196.3	1184.2	1176.2
55°	1318.0	1316.4	1318.7	1307.2	1295.4	1286.8	1271.8	1265.8
57.5°	1465.6	1447.1	1431.1	1416.5	1399.9	1389.7	1372.2	1365.8
60°	1674.9	1625.5	1604.2	1574.9	1547.5	1533.8	1510.5	1498.1
62.5°	1964.9	1883.0	1825.0	1760.3	1697.9	1653.9	1618.5	1602.9
65°	2300.2	2121.7	1974.2	1835.5	1718.0	1624.6	1572.6	1556.4
67.5°	2427.6	2100.0	1845.4	1646.6	1503.8	1392.6	1330.4	1317.4
68°	2400.5	2050.3	1785.8	1582.2	1438.8	1326.6	1264.8	1253.0
70°	2117.6	1729.7	1450.6	1247.9	1114.1	1007.3	963.7	944.9
72.5°	1443.6	1110.9	852.1	681.6	581.6	514.0	473.9	460.2
75°	664.4	449.0	299.9	224.0	190.2	174.0	161.6	158.4
77.5°	193.8	140.9	121.1	112.2	105.5	99.7	95.6	95.3
80°	92.1	86.4	83.8	78.1	72.0	66.6	62.8	63.4
82.5°	61.8	60.2	60.2	54.5	44.9	38.6	31.9	28.7
85°	32.8	34.1	36.0	34.1	29.6	22.0	14.3	15.6
87.5°	11.2	12.7	13.4	13.1	11.8	8.9	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)