

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: P196879

Luminaire Tested: **NVN-AF-01-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P196879  
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: NVN-AF-01-LED-U-5MQ-8030-800  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 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: 4290 lumens  
Efficiency: N/A  
Efficacy: 97.5 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 (A<sub>in</sub>): 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

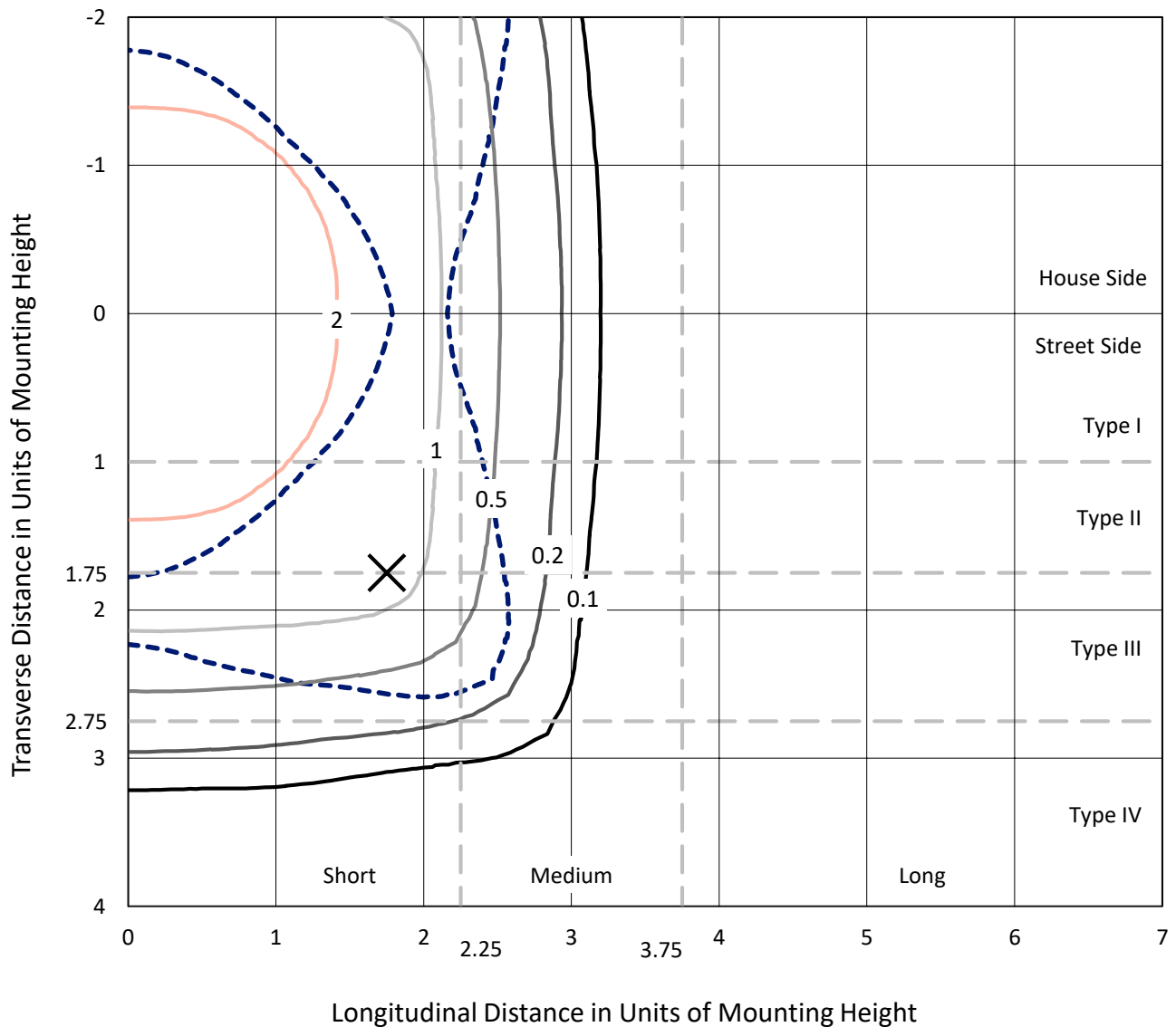


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### Iso-Footcandle Lines of Horizontal Illumination

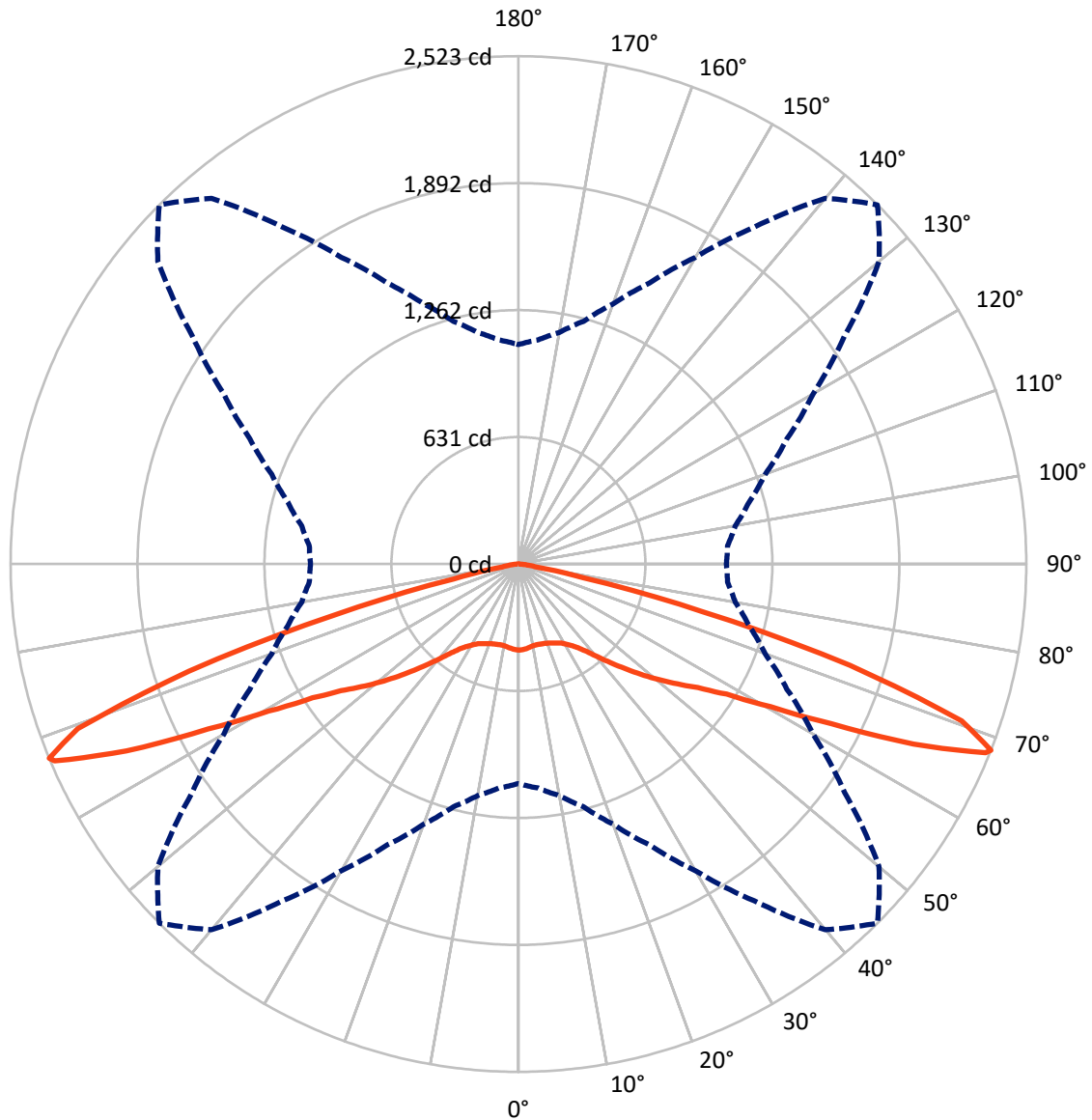
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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	2145.0	0.0	2145.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2145.0	0.0	2145.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4290.0	0.0	4290.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	0.9
10°-20°	116.1	2.7
20°-30°	197.4	4.6
30°-40°	323.1	7.5
40°-50°	577.4	13.5
50°-60°	975.2	22.7
60°-70°	1512.2	35.2
70°-80°	519.9	12.1
80°-90°	28.6	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°	4290.0	100.0
0°-180°	4290.0	100.0



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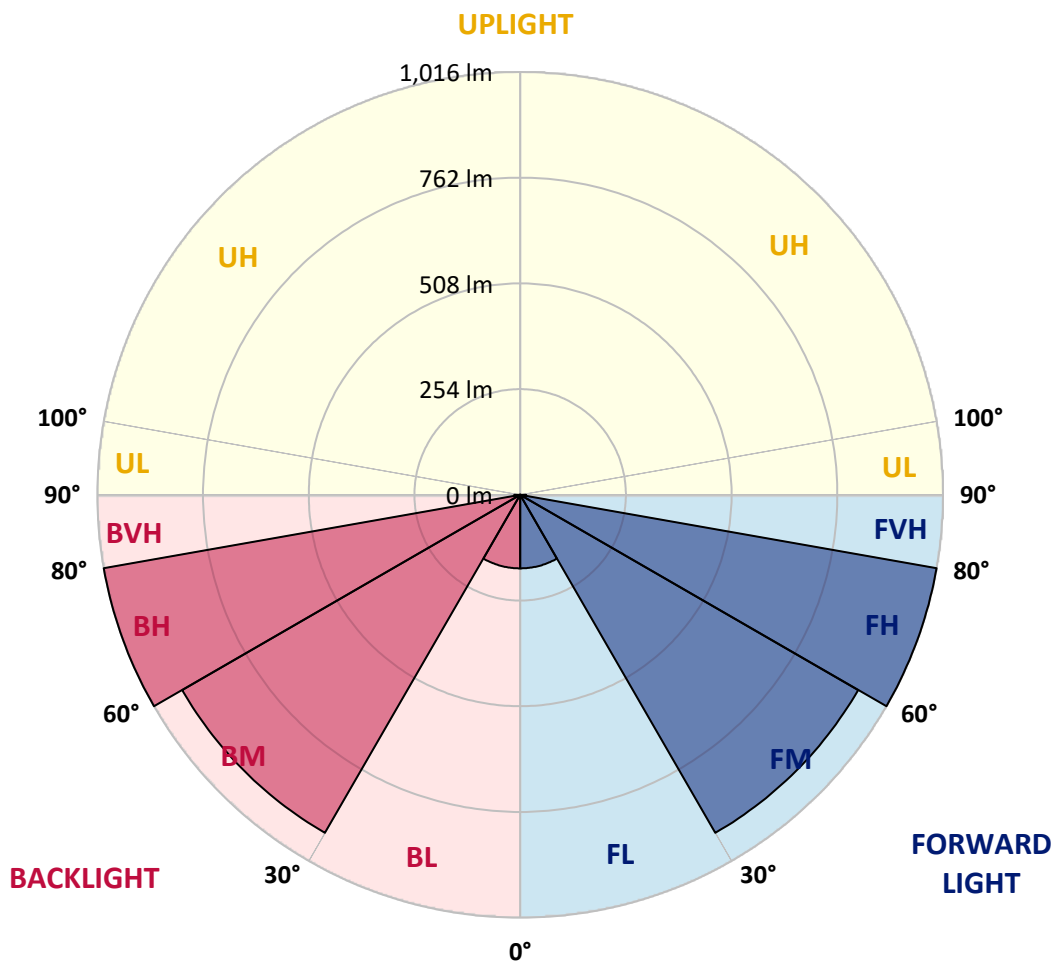
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.8	4.1			
FM	(30°-60°)	937.9	21.9			
FH	(60°-80°)	1016.0	23.7			G1/1800
FVH	(80°-90°)	14.3	0.3			G1/100
BL	(0°-30°)	176.8	4.1	B1/500		
BM	(30°-60°)	937.9	21.9	B1/1000		
BH	(60°-80°)	1016.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	14.3	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°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	429.8	429.8	430.3	430.0	429.3	428.5	427.7	426.9	426.4	425.8	425.3
5°	425.3	425.3	426.1	425.6	425.1	424.3	423.7	422.9	422.4	421.9	422.2
7.5°	419.5	420.1	420.6	420.3	419.3	419.0	418.2	418.0	417.4	416.6	416.9
10°	414.5	414.8	415.3	415.1	414.8	414.0	413.8	413.5	413.2	412.2	411.9
12.5°	409.6	410.1	410.6	410.9	410.6	410.9	411.1	411.4	411.1	410.6	410.6
15°	405.6	406.1	406.9	407.7	408.0	409.6	410.6	411.7	412.4	412.7	411.9
17.5°	403.5	404.3	405.3	406.9	408.2	410.1	411.9	413.5	414.8	415.1	414.3
20°	403.2	404.0	405.6	407.4	409.8	412.2	415.1	417.4	418.7	419.5	418.7
22.5°	405.1	406.1	408.2	410.6	413.5	416.6	420.3	422.9	425.6	426.6	425.8
25°	410.3	411.4	413.8	416.6	419.8	423.7	427.4	430.8	433.5	434.8	433.7
27.5°	421.4	421.6	424.3	427.4	431.1	434.5	439.2	440.8	442.9	444.2	442.9
30°	436.9	437.4	439.8	444.8	448.2	452.6	455.3	456.8	459.2	460.5	458.9
32.5°	460.5	461.0	463.1	467.9	471.0	474.4	477.6	478.6	481.0	482.6	480.7
35°	493.9	494.9	496.8	499.9	502.5	505.2	507.5	506.8	508.3	510.4	508.6
37.5°	539.6	539.3	539.9	542.2	544.8	546.4	550.1	548.3	549.8	551.7	550.6
40°	592.9	592.9	592.7	596.9	597.9	599.5	603.4	601.1	603.2	605.3	603.4
42.5°	653.6	654.7	656.0	659.4	662.3	662.8	664.6	663.6	666.2	668.0	666.2
45°	723.5	725.1	726.6	734.5	735.8	736.9	738.2	734.8	737.7	739.2	738.7
47.5°	796.0	798.9	802.3	810.4	815.7	818.1	819.1	815.2	815.4	817.8	818.1
50°	877.9	881.1	884.5	893.7	898.7	902.9	904.2	899.8	900.3	902.1	902.6
52.5°	953.6	957.3	964.6	977.0	984.1	991.4	992.0	986.4	988.8	990.1	989.1
55°	1024.8	1029.5	1039.2	1055.8	1068.7	1083.1	1089.7	1083.6	1083.6	1082.6	1082.1
57.5°	1107.8	1113.1	1123.0	1142.2	1160.1	1180.8	1198.7	1204.7	1215.8	1219.5	1213.7
60°	1232.9	1238.4	1248.6	1273.8	1296.4	1326.6	1356.1	1380.0	1418.8	1439.9	1421.0
62.5°	1347.1	1355.5	1379.7	1423.8	1472.7	1528.7	1593.5	1639.8	1710.4	1745.6	1698.1
65°	1321.1	1338.2	1385.5	1454.8	1555.7	1677.1	1809.2	1936.1	2082.2	2157.0	2060.4
67.5°	1154.0	1168.5	1219.5	1300.1	1425.9	1593.3	1798.7	2061.4	2362.7	2503.0	2332.0
68°	1090.2	1117.3	1168.0	1248.1	1375.0	1539.4	1758.8	2042.5	2371.4	2523.0	2338.3
70°	835.9	845.6	894.2	966.2	1103.1	1264.4	1485.8	1809.2	2180.9	2337.0	2147.1
72.5°	397.2	403.0	434.5	505.4	592.4	723.7	919.2	1224.2	1559.1	1721.5	1532.1
75°	145.5	146.8	154.2	171.0	203.6	253.0	346.8	536.4	794.1	947.0	797.3
77.5°	78.5	78.8	81.7	85.9	91.7	98.3	112.4	150.8	243.3	331.0	256.9
80°	49.4	49.1	52.0	55.4	59.4	62.5	63.8	68.3	77.0	90.1	82.8
82.5°	25.2	27.6	34.2	37.8	43.6	44.7	43.3	43.1	45.7	49.4	51.0
85°	13.9	12.3	18.1	24.2	26.3	27.1	27.3	25.7	25.2	24.7	26.0
87.5°	7.1	6.6	7.9	12.1	12.9	10.5	10.8	9.2	6.3	6.3	6.6
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°	427.9	427.9	427.9	427.9	427.9	427.9	427.9	427.9
2.5°	424.8	425.1	424.5	424.5	424.5	424.8	424.5	424.3
5°	421.4	421.9	421.9	422.2	422.4	422.4	422.4	422.4
7.5°	416.4	416.6	417.2	417.2	417.2	417.2	417.2	417.2
10°	411.7	411.1	410.9	410.3	410.3	409.6	409.8	410.1
12.5°	409.3	408.2	407.7	406.9	406.4	405.6	405.6	405.9
15°	410.3	408.8	407.2	406.7	406.1	405.6	405.1	405.3
17.5°	412.4	410.6	408.8	407.7	406.7	405.9	405.6	405.9
20°	416.9	414.3	411.4	409.6	407.4	406.9	406.1	406.9
22.5°	422.9	419.8	416.1	412.7	410.3	409.3	408.2	409.0
25°	430.3	426.9	423.2	419.3	416.6	415.9	414.5	414.5
27.5°	440.5	437.7	434.5	430.8	428.2	427.4	425.3	425.3
30°	456.8	453.9	451.1	447.9	445.3	444.5	441.9	441.9
32.5°	478.4	475.2	473.4	470.8	468.7	467.3	464.2	463.9
35°	507.3	504.4	504.1	502.3	500.2	500.4	497.3	496.8
37.5°	548.8	546.4	547.2	545.6	543.8	545.4	543.5	543.5
40°	601.8	601.1	601.8	600.8	601.1	601.3	599.7	600.3
42.5°	665.9	663.8	668.6	668.0	667.3	669.4	665.7	663.1
45°	739.8	739.0	743.7	744.5	742.9	744.2	737.7	737.4
47.5°	819.9	819.9	824.1	823.6	822.0	822.3	814.4	809.4
50°	903.4	902.9	907.1	906.1	904.0	903.7	895.5	890.6
52.5°	990.4	990.4	996.4	993.5	988.5	986.2	976.2	969.6
55°	1086.5	1085.2	1087.1	1077.6	1067.9	1060.8	1048.4	1043.4
57.5°	1208.2	1192.9	1179.8	1167.7	1154.0	1145.6	1131.2	1125.9
60°	1380.8	1340.0	1322.4	1298.3	1275.7	1264.4	1245.2	1235.0
62.5°	1619.8	1552.3	1504.5	1451.2	1399.7	1363.4	1334.3	1321.4
65°	1896.2	1749.1	1627.4	1513.2	1416.2	1339.3	1296.4	1283.0
67.5°	2001.3	1731.2	1521.3	1357.4	1239.7	1148.0	1096.8	1086.0
68°	1978.9	1690.2	1472.2	1304.3	1186.1	1093.6	1042.7	1032.9
70°	1745.6	1425.9	1195.8	1028.7	918.4	830.4	794.4	778.9
72.5°	1190.0	915.8	702.5	561.9	479.4	423.7	390.6	379.3
75°	547.7	370.1	247.2	184.7	156.8	143.4	133.2	130.6
77.5°	159.7	116.1	99.8	92.5	87.0	82.2	78.8	78.5
80°	75.9	71.2	69.1	64.4	59.4	54.9	51.8	52.3
82.5°	51.0	49.7	49.7	44.9	37.0	31.8	26.3	23.6
85°	27.1	28.1	29.7	28.1	24.4	18.1	11.8	12.9
87.5°	9.2	10.5	11.0	10.8	9.7	7.4	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)