

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: P147449

Luminaire Tested: **TMU-E02-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147449  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-E02-LED-E-U-5MQ-7030  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5888.9 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

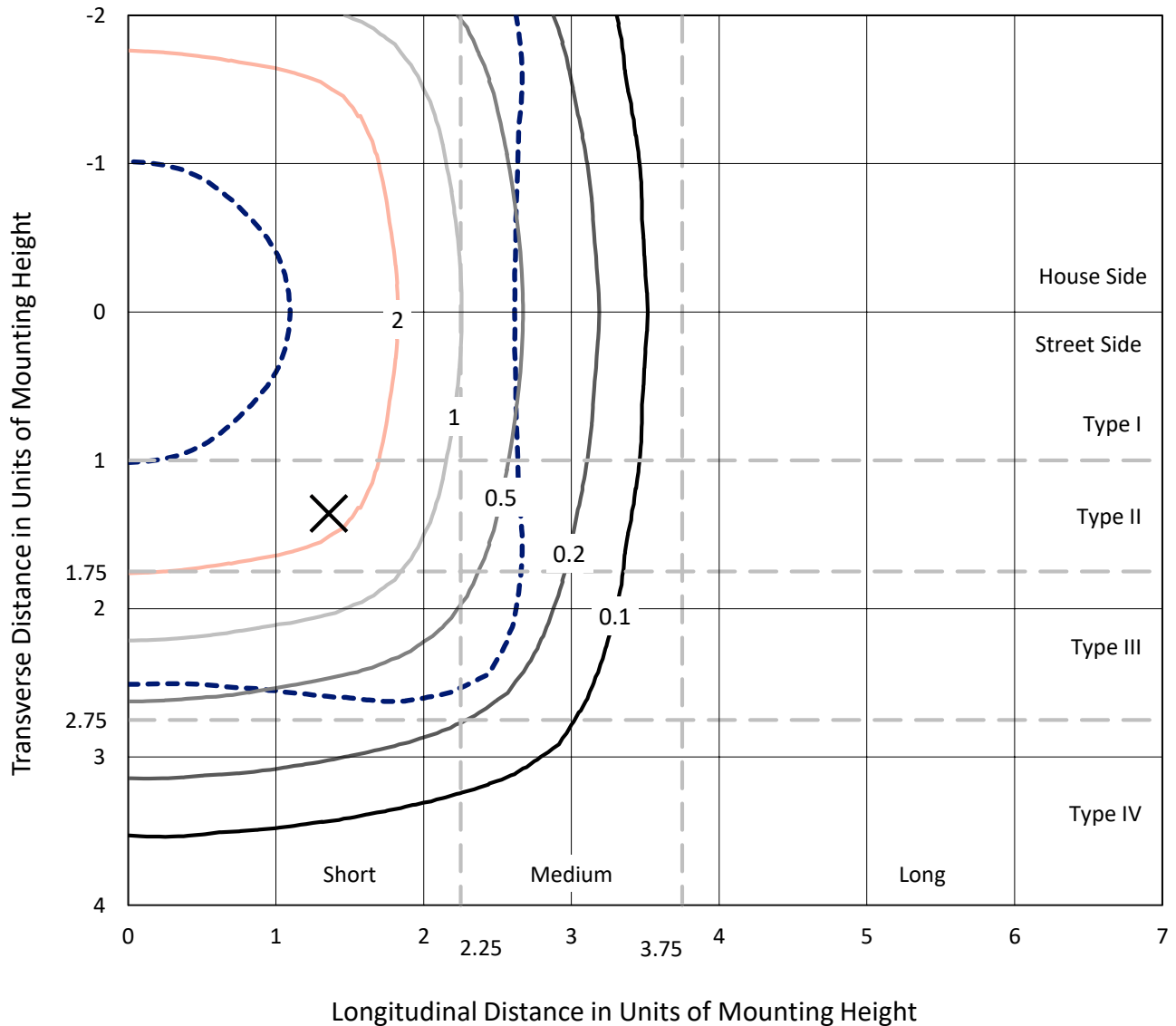
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

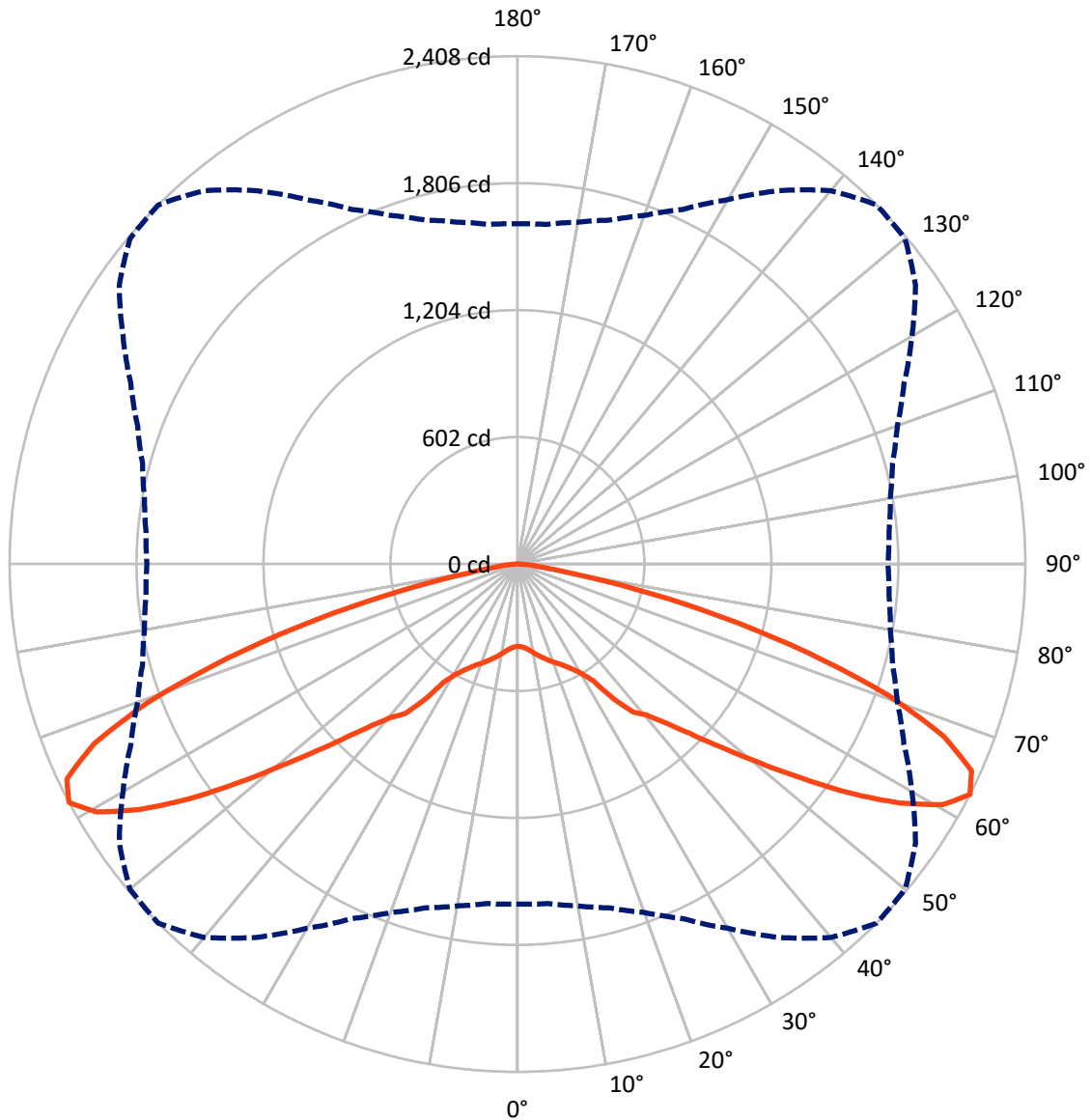
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2944.4	0.0	2944.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2944.4	0.0	2944.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5888.9	0.0	5888.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	0.7
10°-20°	132.4	2.2
20°-30°	256.0	4.3
30°-40°	495.7	8.4
40°-50°	895.1	15.2
50°-60°	1556.5	26.4
60°-70°	1767.0	30.0
70°-80°	685.1	11.6
80°-90°	61.8	1.0
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°	5888.9	100.0
0°-180°	5888.9	100.0

**Coefficient of Utilization**



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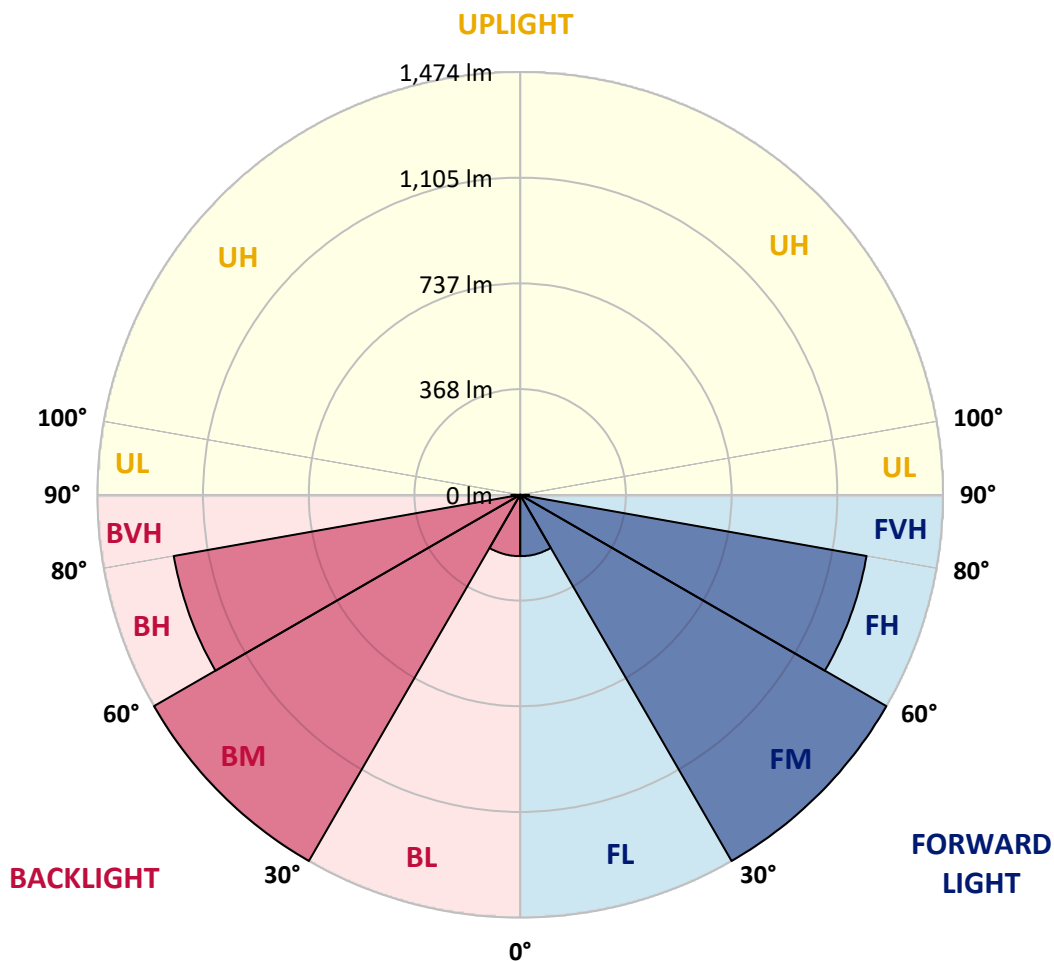
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.8	3.6			
FM	(30°-60°)	1473.7	25.0			
FH	(60°-80°)	1226.0	20.8			G1/1800
FVH	(80°-90°)	30.9	0.5			G1/100
BL	(0°-30°)	213.8	3.6	B1/500		
BM	(30°-60°)	1473.7	25.0	B2/2500		
BH	(60°-80°)	1226.0	20.8	B3/2500		G1/1800
BVH	(80°-90°)	30.9	0.5			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°	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9
2.5°	393.4	394.6	394.3	393.7	393.7	393.6	393.4	392.5	392.2	392.8	393.4
5°	402.5	402.5	402.5	402.5	401.9	401.9	401.3	400.6	401.0	400.4	400.0
7.5°	416.5	415.6	415.6	415.2	415.3	414.7	413.8	412.6	412.8	412.5	412.2
10°	433.0	433.2	432.3	433.2	431.8	431.4	430.2	429.6	429.2	428.4	428.4
12.5°	452.7	451.8	451.8	451.2	450.6	450.0	448.2	447.8	446.6	446.0	445.1
15°	471.2	471.0	469.8	468.6	468.2	467.6	465.5	464.3	464.0	462.4	461.2
17.5°	489.8	489.2	487.7	487.1	485.9	485.0	483.2	481.4	480.4	479.8	478.3
20°	509.6	509.0	507.5	506.3	504.8	503.6	500.8	499.3	498.4	497.4	496.2
22.5°	534.3	533.1	530.7	528.6	525.2	524.0	520.3	518.2	516.7	515.4	514.8
25°	561.1	561.4	558.0	555.3	551.4	548.0	543.4	541.0	539.5	538.2	538.0
27.5°	594.6	594.9	591.8	587.9	581.8	578.2	572.0	569.0	568.1	566.8	566.6
30°	647.6	644.8	639.6	633.2	627.8	619.8	611.0	608.0	605.0	604.0	604.0
32.5°	745.0	743.5	739.2	723.3	716.0	699.6	684.1	675.2	665.2	660.4	657.3
35°	813.2	812.6	809.2	803.8	799.2	795.8	786.7	785.2	783.4	783.4	785.8
37.5°	863.4	859.8	859.2	860.0	858.9	859.4	866.8	876.8	885.4	889.6	889.0
40°	937.7	932.6	935.6	933.4	930.7	930.1	932.6	936.5	940.4	940.4	939.6
42.5°	1034.8	1037.2	1038.5	1029.6	1023.9	1022.3	1028.1	1026.9	1030.8	1029.4	1025.4
45°	1179.2	1177.6	1175.5	1164.8	1155.7	1148.4	1149.9	1147.8	1148.1	1145.6	1142.6
47.5°	1324.6	1329.8	1321.0	1315.8	1305.4	1300.3	1304.6	1301.0	1307.9	1295.2	1289.0
50°	1465.9	1469.6	1466.6	1459.2	1459.2	1466.6	1471.8	1478.4	1488.2	1473.6	1451.6
52.5°	1581.6	1584.6	1589.2	1595.3	1610.2	1625.8	1647.7	1671.1	1689.7	1687.0	1662.0
55°	1652.2	1655.9	1663.5	1684.6	1711.4	1752.2	1801.8	1856.2	1898.8	1919.6	1901.3
57.5°	1676.0	1678.7	1699.4	1724.7	1766.4	1827.0	1910.2	2004.2	2086.1	2138.1	2129.9
60°	1670.5	1670.6	1691.5	1726.2	1784.7	1865.0	1982.6	2112.8	2238.3	2316.2	2304.7
62.5°	1613.0	1616.0	1646.2	1687.9	1758.5	1854.7	1994.8	2161.3	2311.4	2408.2	2398.8
65°	1486.9	1489.0	1521.6	1571.2	1650.2	1764.0	1917.1	2101.6	2273.6	2366.8	2349.1
67.5°	1283.2	1285.4	1311.8	1367.9	1451.4	1570.4	1735.6	1938.8	2107.1	2180.8	2127.8
70°	1020.8	1026.9	1044.0	1103.4	1166.6	1283.2	1435.5	1638.6	1797.5	1867.2	1808.8
72.5°	695.6	711.2	731.9	784.6	845.2	942.0	1063.2	1234.2	1361.8	1442.5	1390.4
75°	391.8	413.8	420.2	460.1	510.0	586.4	675.0	797.7	926.4	991.9	929.2
77.5°	169.3	187.2	195.2	213.7	252.7	284.6	338.6	421.4	520.9	566.9	491.7
80°	83.4	87.7	91.0	96.8	107.8	118.2	143.7	179.9	220.8	231.1	183.9
82.5°	64.6	67.6	73.4	78.0	80.6	83.4	85.8	90.7	94.7	96.8	91.3
85°	45.4	49.3	55.7	60.9	63.9	66.1	68.2	69.7	66.1	60.3	63.3
87.5°	11.9	15.5	21.6	23.4	26.5	28.0	27.4	28.4	25.6	18.6	20.7
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°	390.9	390.9	390.9	390.9	390.9	390.9	390.9	390.9
2.5°	393.0	392.7	393.0	393.0	393.0	392.8	392.8	392.7
5°	400.0	400.0	400.4	399.8	399.7	400.0	399.8	399.4
7.5°	412.0	411.6	411.6	411.4	411.6	411.3	411.4	411.0
10°	427.8	427.2	427.4	426.6	426.6	426.2	426.2	426.2
12.5°	444.8	443.8	444.2	443.2	441.8	442.1	442.4	442.1
15°	461.2	460.4	459.4	458.8	457.9	458.2	458.2	457.9
17.5°	478.0	476.2	475.8	475.0	474.6	474.6	474.6	474.9
20°	495.4	494.2	493.8	492.9	492.6	493.5	493.8	493.2
22.5°	514.0	513.3	513.9	513.3	514.2	514.8	515.2	514.5
25°	537.4	536.8	537.6	539.8	541.0	541.6	543.2	542.5
27.5°	567.5	566.9	569.0	572.1	573.9	576.9	578.4	579.1
30°	606.4	609.2	610.4	616.6	617.8	622.6	622.6	624.7
32.5°	663.1	668.2	677.4	686.8	700.0	709.4	709.4	714.2
35°	787.3	789.4	796.4	798.0	800.7	803.8	800.7	803.1
37.5°	882.6	873.2	866.4	857.0	851.2	851.2	851.8	851.2
40°	931.3	927.6	924.6	916.7	915.5	915.2	915.2	916.4
42.5°	1018.4	1009.6	1004.6	998.0	995.8	995.2	995.0	995.6
45°	1131.6	1117.3	1104.2	1097.6	1091.8	1086.3	1088.2	1088.1
47.5°	1263.4	1241.2	1220.0	1208.4	1198.3	1193.8	1190.7	1189.8
50°	1424.0	1392.9	1365.5	1343.8	1329.2	1329.0	1330.4	1320.7
52.5°	1620.6	1571.6	1537.5	1508.2	1494.6	1493.1	1488.2	1482.7
55°	1838.6	1780.4	1724.1	1692.7	1674.8	1665.0	1659.2	1650.1
57.5°	2063.3	1985.0	1904.0	1853.8	1822.2	1800.2	1788.6	1783.5
60°	2236.4	2129.6	2022.8	1942.1	1889.4	1856.8	1836.8	1828.5
62.5°	2304.7	2159.8	2022.8	1916.8	1840.7	1795.6	1768.6	1756.7
65°	2223.4	2051.7	1895.8	1778.9	1694.0	1643.7	1614.2	1601.4
67.5°	1996.2	1844.6	1675.0	1558.8	1471.4	1421.8	1389.8	1380.4
70°	1673.6	1518.6	1356.6	1252.8	1174.8	1134.4	1101.2	1097.2
72.5°	1257.7	1124.0	985.2	899.4	836.6	769.7	752.6	761.1
75°	806.2	681.0	557.4	480.1	422.8	359.0	334.3	340.4
77.5°	381.8	295.6	213.4	165.0	138.6	118.4	113.2	110.2
80°	141.6	114.8	101.4	96.2	92.6	89.2	86.8	84.0
82.5°	91.6	89.5	86.8	85.8	83.1	78.8	71.0	67.6
85°	68.5	68.5	64.8	65.2	63.0	57.6	50.2	46.3
87.5°	20.1	18.0	16.4	15.2	15.0	13.4	9.7	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)