

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: P147976

Luminaire Tested: **TMU-F02-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F02-LED-E-U-5WQ-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5393.8 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

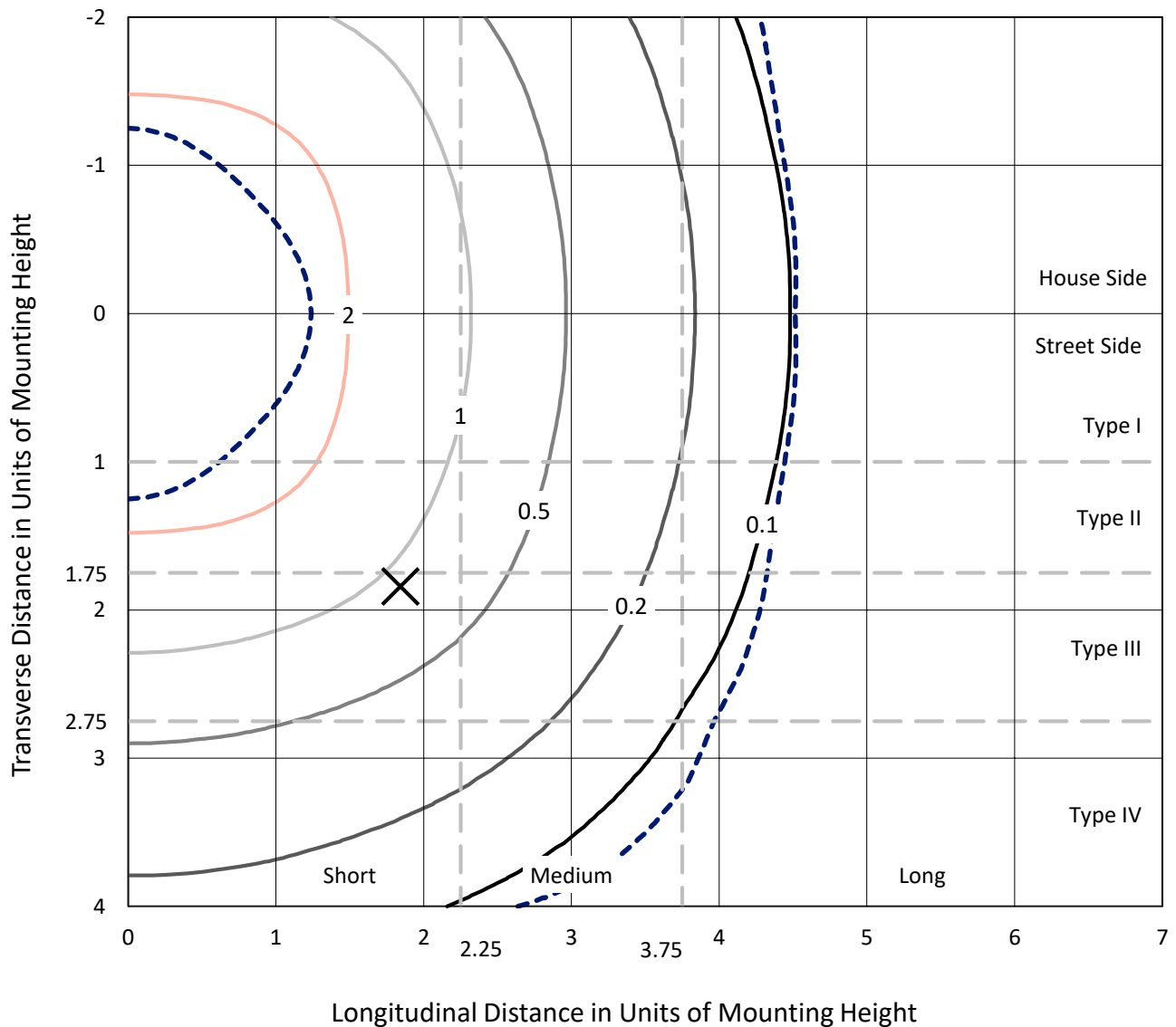
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

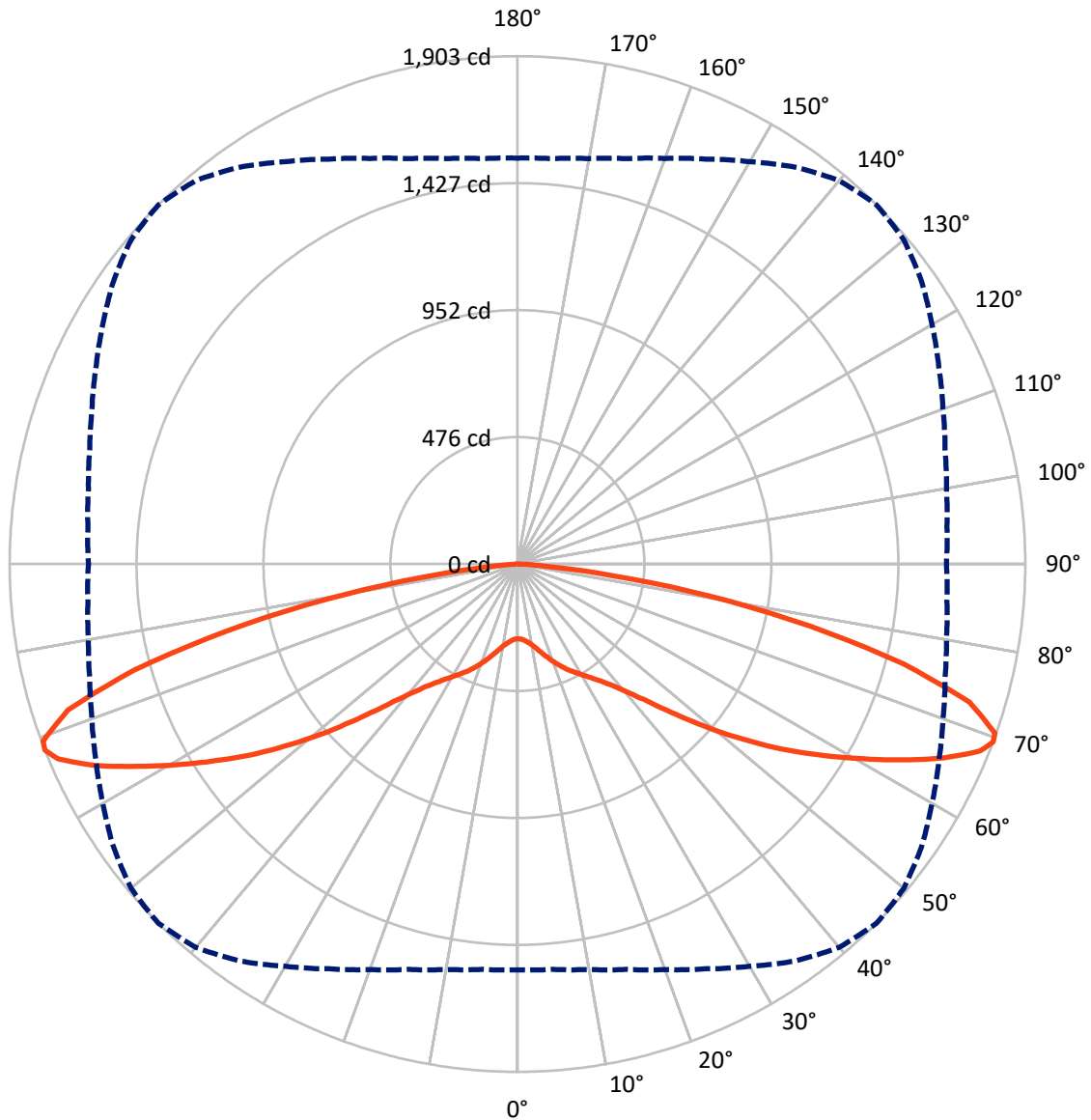
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2696.9	0.0	2696.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2696.9	0.0	2696.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5393.8	0.0	5393.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	0.5
10°-20°	99.3	1.8
20°-30°	201.1	3.7
30°-40°	337.2	6.3
40°-50°	594.7	11.0
50°-60°	1048.8	19.4
60°-70°	1601.2	29.7
70°-80°	1338.0	24.8
80°-90°	145.4	2.7
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°	5393.8	100.0
0°-180°	5393.8	100.0



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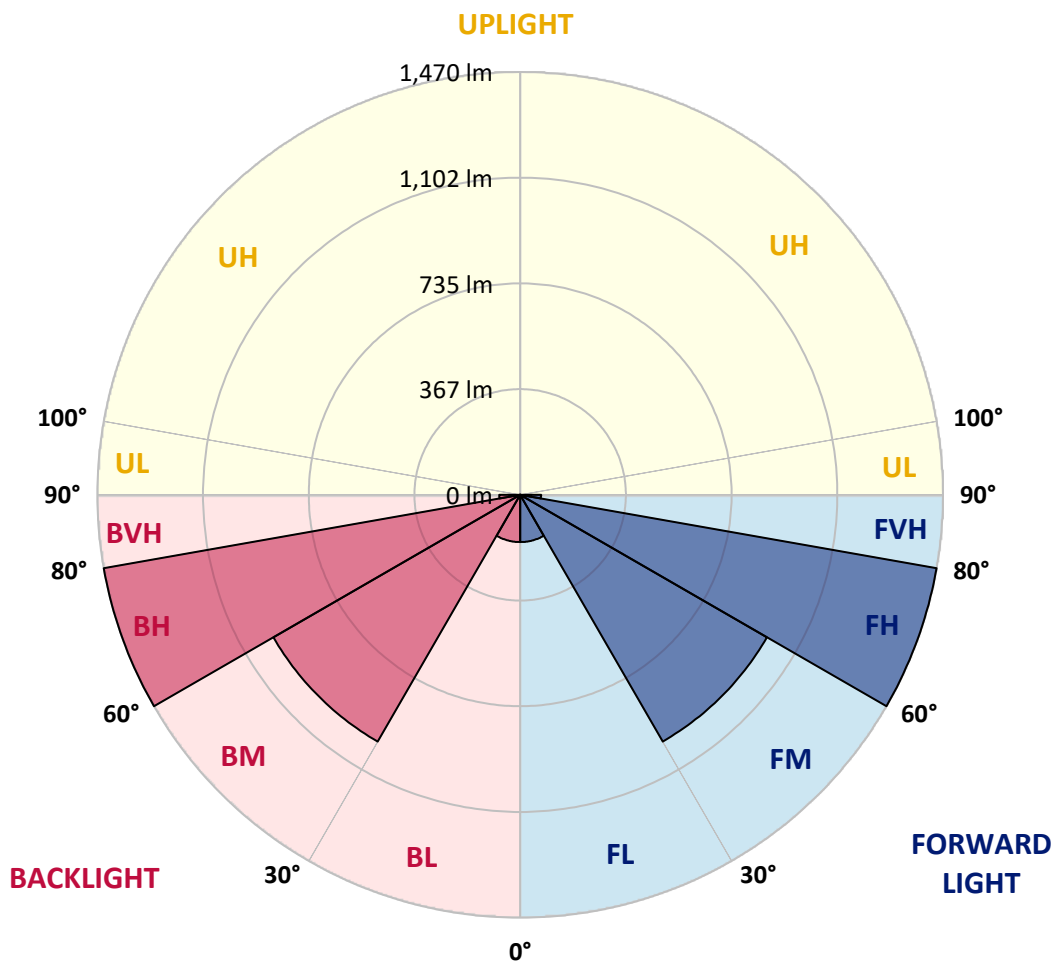
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.3	3.0			
FM	(30°-60°)	990.4	18.4			
FH	(60°-80°)	1469.6	27.2			G1/1800
FVH	(80°-90°)	72.7	1.3			G1/100
BL	(0°-30°)	164.3	3.0	B1/500		
BM	(30°-60°)	990.4	18.4	B1/1000		
BH	(60°-80°)	1469.6	27.2	B3/2500		G1/1800
BVH	(80°-90°)	72.7	1.3			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°	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1
2.5°	282.4	282.9	282.4	282.4	282.4	282.4	282.4	281.8	281.8	281.8	282.4
5°	288.0	288.6	288.0	288.6	288.6	288.6	288.6	288.0	288.0	288.0	288.0
7.5°	297.0	297.0	297.0	297.6	297.0	297.0	297.6	297.0	297.0	297.0	297.0
10°	310.0	309.5	309.5	309.5	309.5	309.5	310.0	310.0	310.0	309.5	309.5
12.5°	325.8	325.3	325.8	325.8	326.4	326.4	326.4	326.4	326.4	326.4	325.8
15°	345.0	345.0	345.0	345.6	346.7	346.7	346.2	346.7	346.7	346.7	346.7
17.5°	366.5	367.6	366.5	367.1	367.6	367.1	368.2	368.8	369.3	368.8	367.1
20°	388.5	389.1	389.1	389.1	389.1	390.2	390.8	390.8	392.5	391.9	391.3
22.5°	409.4	410.5	410.5	411.1	411.1	412.8	412.8	412.8	413.9	415.1	413.9
25°	431.4	430.9	430.9	432.0	432.6	434.8	434.8	436.0	437.7	438.2	437.1
27.5°	451.2	450.6	450.6	452.3	452.9	455.7	455.7	458.0	459.1	459.7	458.6
30°	472.1	472.1	471.5	473.2	474.9	477.2	478.3	480.6	482.3	482.8	481.7
32.5°	497.0	495.8	496.4	497.5	498.6	500.9	502.6	505.4	507.7	508.2	507.1
35°	525.2	523.5	524.1	525.2	526.9	530.3	533.1	534.8	538.2	539.3	537.0
37.5°	556.2	556.8	556.2	559.1	561.9	565.8	569.2	571.5	574.9	576.6	574.9
40°	600.3	598.6	600.3	603.1	607.6	612.7	619.5	621.2	624.6	628.0	624.0
42.5°	657.3	656.2	660.2	662.4	667.5	673.1	681.6	686.1	691.2	693.5	690.1
45°	731.9	731.9	736.4	737.0	744.9	752.2	764.1	769.7	779.3	779.3	779.3
47.5°	814.3	817.7	820.5	826.2	831.8	845.4	857.2	869.7	878.7	879.8	878.1
50°	899.6	903.0	911.5	919.4	931.8	948.7	961.7	978.1	986.0	992.8	990.5
52.5°	993.9	994.5	1004.6	1014.8	1032.9	1051.5	1072.4	1089.3	1103.5	1109.7	1104.6
55°	1097.2	1098.4	1107.4	1118.1	1138.5	1159.9	1185.9	1203.4	1221.5	1232.8	1224.3
57.5°	1209.1	1209.6	1218.7	1231.6	1255.9	1277.4	1302.2	1327.1	1344.0	1354.2	1348.5
60°	1332.7	1335.6	1342.3	1358.7	1381.9	1404.5	1429.3	1451.3	1471.1	1481.8	1476.2
62.5°	1464.9	1467.7	1477.3	1490.3	1510.6	1535.5	1559.2	1587.4	1603.8	1615.7	1607.2
65°	1553.5	1558.6	1573.9	1591.4	1621.3	1653.5	1681.2	1719.6	1739.3	1753.4	1745.5
67.5°	1559.2	1562.0	1580.6	1607.2	1647.3	1695.8	1752.3	1812.2	1851.1	1869.8	1856.2
69°	1520.8	1524.7	1542.8	1572.7	1617.3	1673.8	1741.0	1815.6	1875.4	1903.1	1890.1
70°	1477.3	1485.8	1505.5	1538.3	1581.8	1641.1	1710.5	1790.2	1860.2	1898.0	1888.4
72.5°	1385.8	1388.1	1401.1	1427.0	1460.4	1509.5	1575.0	1650.1	1716.7	1771.0	1778.9
75°	1230.0	1237.3	1246.9	1264.4	1281.3	1316.9	1361.0	1412.4	1451.3	1493.1	1494.8
77.5°	929.5	951.5	958.9	962.8	970.2	998.4	1036.8	1081.4	1113.6	1120.4	1119.3
80°	417.3	446.7	453.5	485.7	505.4	552.3	611.0	679.4	725.1	730.2	717.8
82.5°	81.9	87.5	102.2	127.6	173.9	201.6	240.0	288.0	332.1	357.5	342.2
85°	27.1	28.8	33.3	36.7	42.4	48.0	58.2	72.3	89.8	99.4	88.7
87.5°	10.7	10.7	12.4	13.6	14.7	14.7	14.7	13.6	13.0	10.7	9.6
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°	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1
2.5°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8
5°	288.0	287.4	287.4	286.9	286.9	286.9	286.9	286.9
7.5°	296.5	295.9	295.3	295.9	295.3	295.3	295.3	295.3
10°	309.5	308.3	307.8	307.2	307.2	307.2	306.6	306.6
12.5°	324.7	324.7	324.1	323.6	322.5	323.0	322.5	321.3
15°	345.6	344.5	343.9	343.3	342.2	342.2	342.2	341.7
17.5°	366.5	365.4	365.4	363.7	363.1	363.1	363.1	363.7
20°	389.7	388.0	386.8	385.7	384.6	385.1	384.0	385.1
22.5°	412.8	410.5	409.4	407.7	406.0	406.0	405.5	404.3
25°	435.4	432.6	431.4	429.7	427.5	427.5	426.4	425.2
27.5°	456.9	454.0	452.9	449.5	447.3	446.7	445.6	445.0
30°	480.6	477.2	475.5	472.1	468.7	468.2	466.5	466.5
32.5°	505.4	502.0	500.9	495.8	493.0	493.0	491.9	490.7
35°	536.5	531.4	530.3	525.2	521.2	521.2	520.1	520.7
37.5°	573.2	569.2	565.3	561.3	556.8	556.2	555.1	554.0
40°	622.3	617.8	613.3	607.6	603.7	602.6	600.9	600.3
42.5°	687.8	683.3	674.3	669.8	665.8	662.4	661.8	661.3
45°	771.4	765.8	759.5	751.1	746.0	738.6	737.5	734.7
47.5°	871.9	861.2	850.5	843.1	835.2	826.7	825.1	820.5
50°	978.7	970.2	952.1	940.3	927.8	919.4	913.7	912.0
52.5°	1093.3	1077.5	1059.4	1043.6	1025.5	1014.2	1004.1	1001.2
55°	1213.0	1190.4	1167.8	1149.2	1131.1	1117.6	1108.0	1103.5
57.5°	1332.7	1307.9	1283.0	1262.7	1247.5	1230.0	1220.4	1218.1
60°	1457.5	1433.8	1408.4	1388.1	1369.4	1354.2	1348.5	1337.8
62.5°	1589.7	1564.8	1541.1	1521.3	1497.6	1486.9	1477.3	1471.1
65°	1719.6	1690.8	1660.8	1639.9	1616.2	1601.0	1589.1	1580.6
67.5°	1820.1	1776.6	1736.5	1701.5	1669.3	1645.6	1630.3	1622.4
69°	1848.3	1794.1	1742.7	1697.0	1659.1	1632.6	1615.7	1607.7
70°	1844.9	1785.1	1728.6	1678.3	1637.1	1608.9	1592.5	1577.8
72.5°	1740.5	1685.7	1623.0	1568.2	1530.9	1503.8	1487.5	1479.6
75°	1485.2	1448.5	1403.3	1361.0	1333.9	1318.0	1297.7	1298.3
77.5°	1081.4	1082.6	1052.1	1008.6	978.1	972.4	963.4	954.4
80°	670.9	617.2	582.2	535.4	500.9	471.0	458.0	429.7
82.5°	309.5	241.7	187.5	141.7	109.0	85.3	74.5	61.0
85°	68.9	52.5	43.5	35.0	29.9	27.7	22.6	20.9
87.5°	9.6	8.5	7.9	7.3	6.2	4.5	3.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)