

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: P192530

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8151.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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

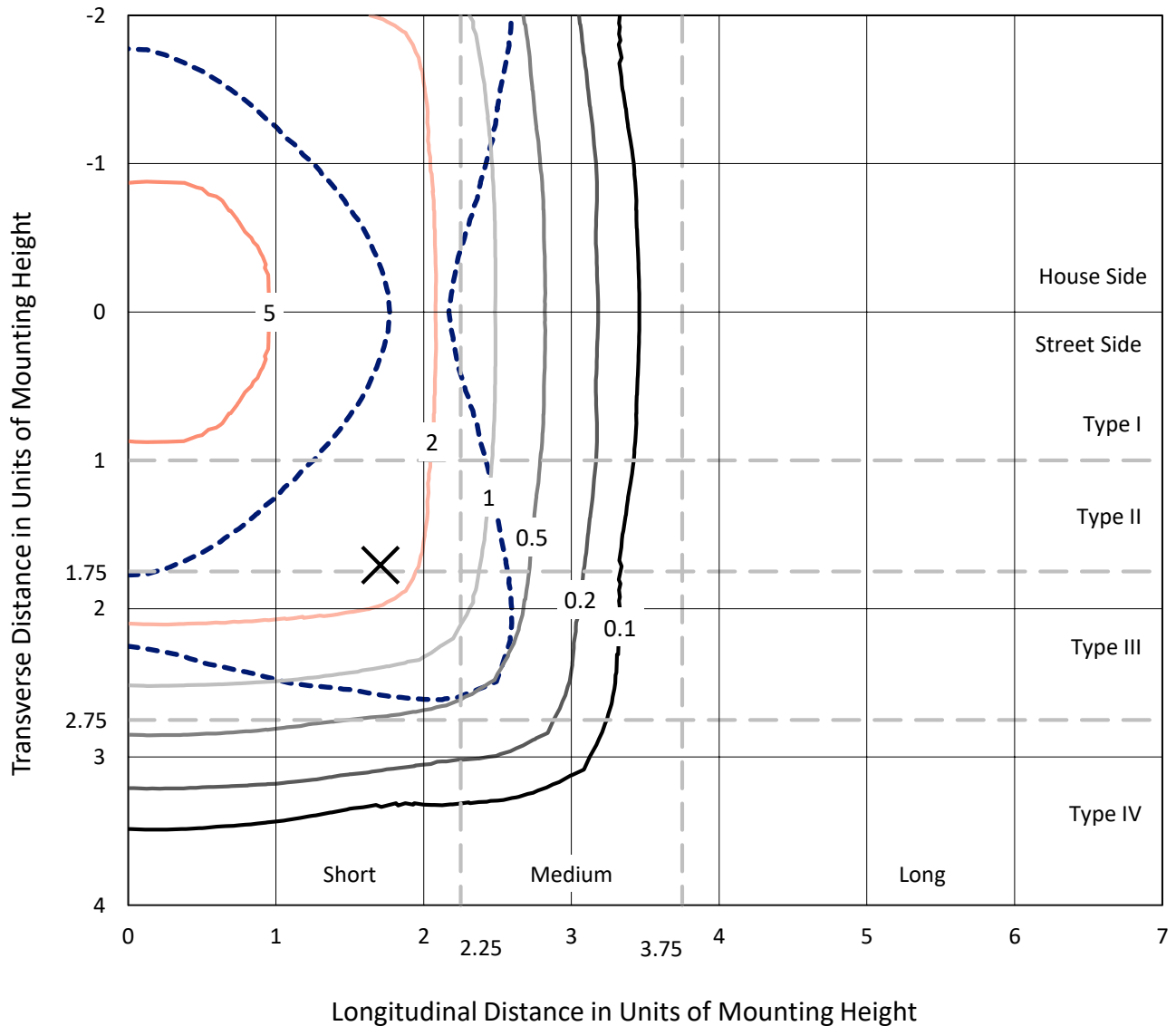


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

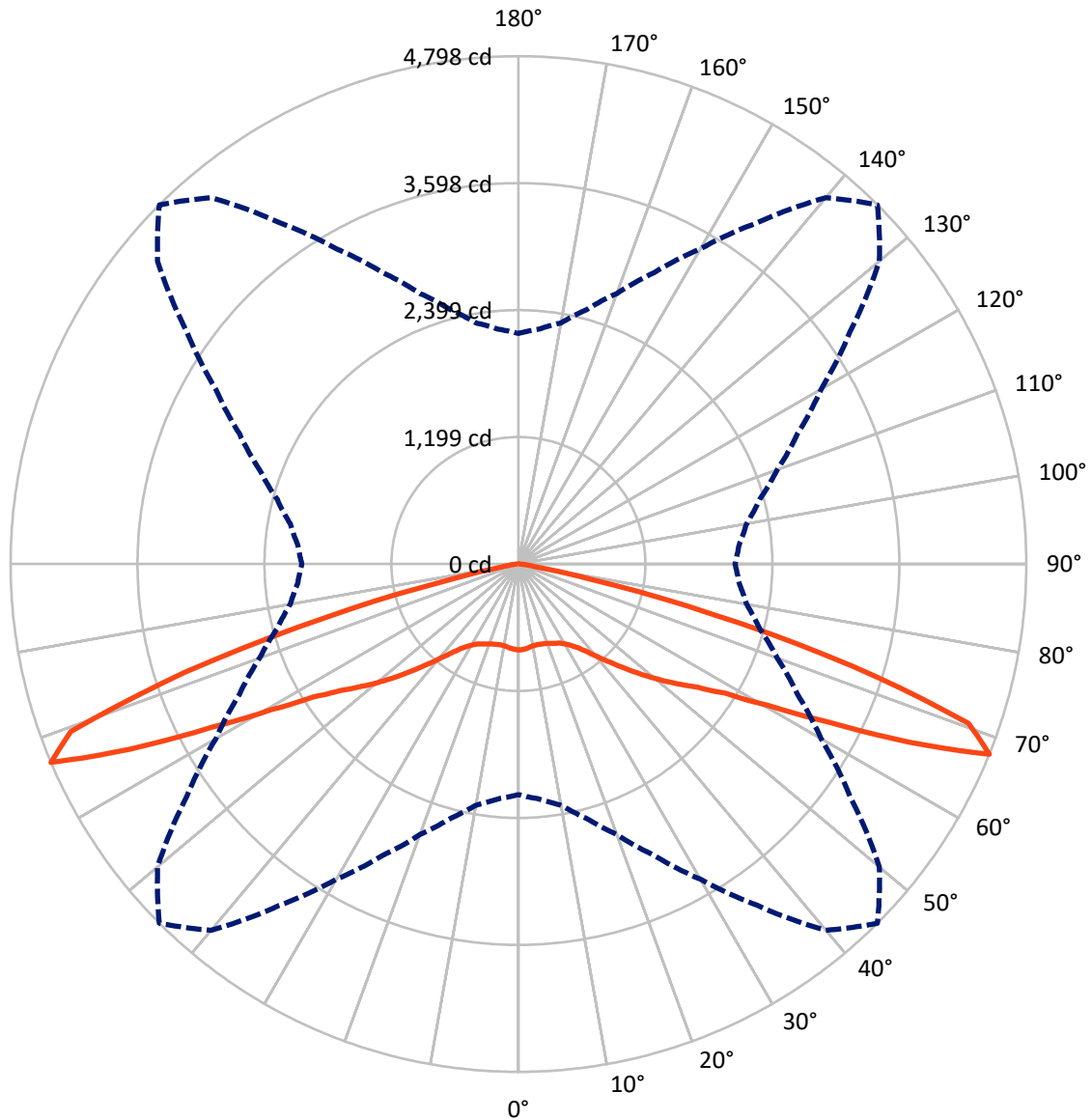


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4075.9	0.0	4075.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4075.9	0.0	4075.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8151.8	0.0	8151.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	0.9
10°-20°	220.6	2.7
20°-30°	375.1	4.6
30°-40°	613.1	7.5
40°-50°	1094.6	13.4
50°-60°	1845.4	22.6
60°-70°	2863.9	35.1
70°-80°	1006.2	12.3
80°-90°	56.9	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°	8151.8	100.0
0°-180°	8151.8	100.0



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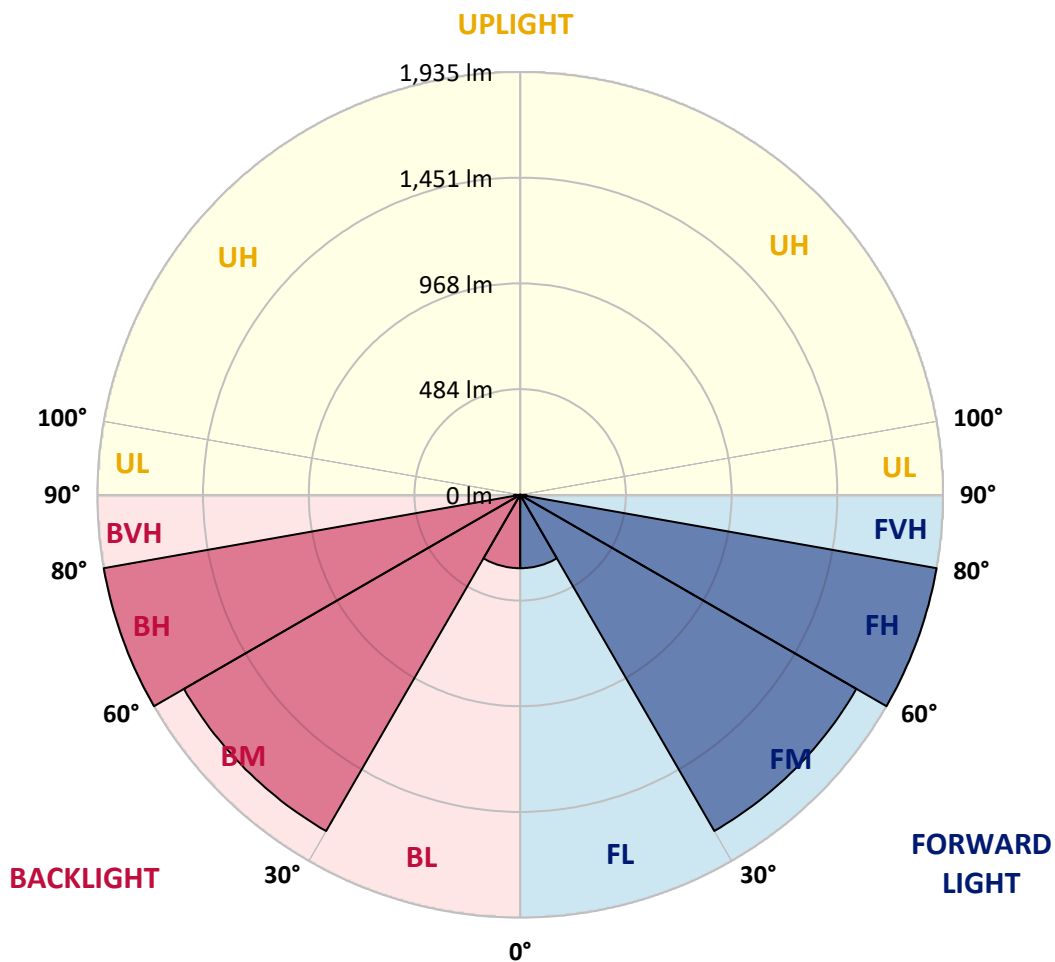
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.9	4.1			
FM (30°-60°)	1776.6	21.8			
FH (60°-80°)	1935.0	23.7			G2/5000
FVH (80°-90°)	28.4	0.3			G1/100
BL (0°-30°)	335.9	4.1	B1/500		
BM (30°-60°)	1776.6	21.8	B2/2500		
BH (60°-80°)	1935.0	23.7	B3/2500		G2/5000
BVH (80°-90°)	28.4	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4
2.5°	809.4	810.1	810.1	810.1	809.7	809.7	808.9	809.7	809.4	808.2	808.6
5°	802.6	803.4	803.4	802.9	804.1	803.7	802.6	803.4	802.9	802.3	802.6
7.5°	792.9	794.0	794.0	793.7	794.8	794.5	793.7	794.0	794.0	792.9	792.9
10°	782.0	782.8	782.8	782.4	784.3	784.3	783.8	785.0	785.3	784.3	783.5
12.5°	771.9	773.0	773.0	774.5	776.4	777.2	779.0	780.5	782.0	781.6	780.1
15°	765.9	766.7	768.1	769.9	773.0	775.6	778.6	782.0	785.0	785.8	783.5
17.5°	762.1	763.2	765.5	768.1	772.3	776.8	781.2	785.8	789.8	791.4	788.8
20°	761.0	761.7	764.0	768.5	774.1	780.8	787.2	792.4	798.1	800.0	798.1
22.5°	763.2	764.7	767.3	772.7	780.1	788.8	796.3	803.4	810.4	813.9	811.2
25°	773.3	774.8	778.3	785.0	793.2	802.3	810.8	819.1	825.5	828.8	827.0
27.5°	792.1	794.0	798.1	804.9	813.9	823.6	833.0	839.7	845.0	846.1	843.8
30°	820.2	824.4	829.3	836.7	847.2	855.5	864.9	870.8	877.3	877.3	875.3
32.5°	864.1	868.2	873.4	880.6	888.9	897.8	906.1	911.3	918.1	918.5	914.0
35°	929.7	931.6	936.1	940.6	948.1	955.9	963.1	966.4	972.1	972.4	968.4
37.5°	1016.3	1016.6	1019.7	1021.1	1027.9	1036.6	1043.3	1045.5	1050.7	1050.1	1045.9
40°	1117.1	1119.1	1120.1	1122.4	1129.5	1137.7	1144.9	1146.0	1151.6	1150.5	1145.2
42.5°	1233.7	1234.5	1240.8	1244.3	1251.0	1255.1	1264.1	1265.2	1272.0	1268.9	1262.9
45°	1364.5	1371.3	1377.3	1384.1	1391.2	1396.0	1403.2	1401.7	1406.1	1401.7	1398.3
47.5°	1502.1	1507.0	1520.6	1531.0	1542.6	1546.8	1556.8	1552.3	1556.8	1550.5	1549.4
50°	1653.6	1662.3	1673.9	1685.9	1698.2	1705.0	1718.1	1712.4	1718.4	1712.4	1709.1
52.5°	1802.8	1805.1	1830.5	1848.1	1865.4	1873.2	1881.1	1878.5	1878.9	1878.5	1875.1
55°	1944.5	1949.7	1975.2	1999.2	2029.3	2051.4	2064.9	2063.4	2060.0	2056.6	2051.1
57.5°	2104.3	2109.5	2138.6	2168.4	2202.4	2234.0	2261.2	2289.4	2300.2	2303.3	2290.8
60°	2320.1	2319.8	2358.8	2394.8	2443.5	2490.3	2550.3	2611.4	2681.5	2714.1	2671.1
62.5°	2539.8	2548.8	2605.1	2668.7	2769.2	2867.1	2977.7	3086.3	3197.4	3287.7	3191.7
65°	2513.6	2548.0	2631.6	2776.0	2961.6	3181.9	3420.4	3672.7	3900.7	4057.4	3881.6
67.5°	2178.4	2227.6	2312.6	2488.1	2720.1	3038.1	3438.4	3937.3	4517.4	4797.7	4450.2
70°	1579.1	1634.5	1723.7	1895.0	2124.8	2426.9	2861.8	3460.9	4228.7	4511.4	4128.6
72.5°	785.8	815.7	870.8	979.9	1153.9	1399.1	1793.4	2369.3	3048.6	3308.0	2958.2
75°	266.9	280.8	290.2	325.8	380.9	477.3	673.2	1035.8	1580.1	1894.2	1557.6
77.5°	154.0	154.5	160.8	167.1	176.6	187.1	213.3	280.0	484.3	687.9	501.2
80°	99.8	99.3	104.6	109.5	115.9	121.1	122.6	129.7	149.5	177.3	158.5
82.5°	51.7	58.1	69.7	76.2	88.1	90.3	87.3	84.6	89.6	93.0	95.3
85°	28.5	24.7	37.1	48.0	53.2	54.0	54.0	51.1	52.9	51.7	56.3
87.5°	13.1	12.0	14.6	23.6	25.1	21.5	22.5	19.8	14.2	13.8	15.8
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°	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4
2.5°	808.6	808.9	808.9	810.1	810.4	811.2	812.1	812.4
5°	802.3	803.4	802.6	803.7	803.7	804.4	804.4	804.9
7.5°	792.9	794.0	794.0	794.0	793.7	794.8	794.8	794.8
10°	783.2	783.8	783.5	782.8	782.0	783.2	782.8	782.4
12.5°	780.1	778.3	776.8	776.0	774.5	774.8	773.8	773.8
15°	782.0	778.6	776.0	774.8	773.3	772.7	771.9	772.3
17.5°	786.8	782.8	779.3	777.5	775.6	774.5	773.0	773.3
20°	795.5	790.6	785.8	782.0	778.6	776.8	775.6	775.3
22.5°	808.2	801.1	794.0	788.5	783.8	781.2	780.1	779.3
25°	822.8	815.0	806.8	800.4	795.9	792.4	790.3	790.3
27.5°	841.2	834.8	827.3	819.9	815.7	812.4	810.8	810.1
30°	872.0	866.0	860.0	852.9	847.7	844.2	841.7	839.3
32.5°	911.3	906.5	901.6	896.4	891.4	886.9	882.9	880.9
35°	966.8	963.1	959.8	953.8	951.8	949.3	947.0	945.1
37.5°	1043.3	1041.8	1041.8	1035.4	1033.9	1032.8	1030.6	1031.0
40°	1143.7	1145.2	1143.4	1141.1	1140.0	1137.1	1137.1	1139.7
42.5°	1262.6	1263.7	1267.9	1264.1	1268.2	1264.4	1262.3	1264.1
45°	1400.6	1404.6	1412.9	1409.2	1411.8	1405.4	1397.5	1398.0
47.5°	1555.5	1559.1	1562.5	1559.9	1560.2	1549.8	1539.3	1536.6
50°	1716.3	1717.7	1719.5	1715.8	1716.6	1705.0	1693.0	1693.3
52.5°	1875.1	1882.3	1889.7	1879.7	1877.4	1864.3	1847.3	1840.7
55°	2057.0	2067.0	2058.5	2040.9	2023.3	2005.6	1983.5	1979.8
57.5°	2281.2	2263.9	2236.9	2203.5	2179.1	2154.5	2131.9	2122.6
60°	2593.0	2528.2	2479.4	2429.9	2398.9	2368.5	2338.9	2334.4
62.5°	3033.9	2921.8	2824.7	2722.4	2638.8	2573.6	2521.4	2506.9
65°	3586.4	3321.5	3091.6	2877.3	2690.8	2550.3	2461.8	2422.9
67.5°	3824.2	3300.8	2906.9	2602.4	2358.8	2188.6	2093.0	2045.4
70°	3360.4	2737.4	2308.8	2004.2	1782.1	1600.7	1514.2	1463.2
72.5°	2311.9	1741.3	1376.8	1123.8	946.6	794.8	734.8	730.3
75°	1038.1	687.6	473.8	365.2	307.4	267.2	254.9	245.5
77.5°	290.5	214.8	191.5	179.1	167.1	153.3	148.0	149.2
80°	141.4	133.4	128.2	120.3	109.5	97.9	92.6	94.8
82.5°	93.8	92.6	95.9	90.3	74.7	63.4	53.2	48.7
85°	57.1	57.7	58.9	59.2	50.3	35.3	24.0	27.0
87.5°	22.5	25.9	28.1	29.3	27.4	16.8	13.5	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)