

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: P200225

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200225
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: GAP-AF-01-LED-U-5MQ-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7326 lumens
Efficiency: N/A
Efficacy: 109.3 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): 67
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

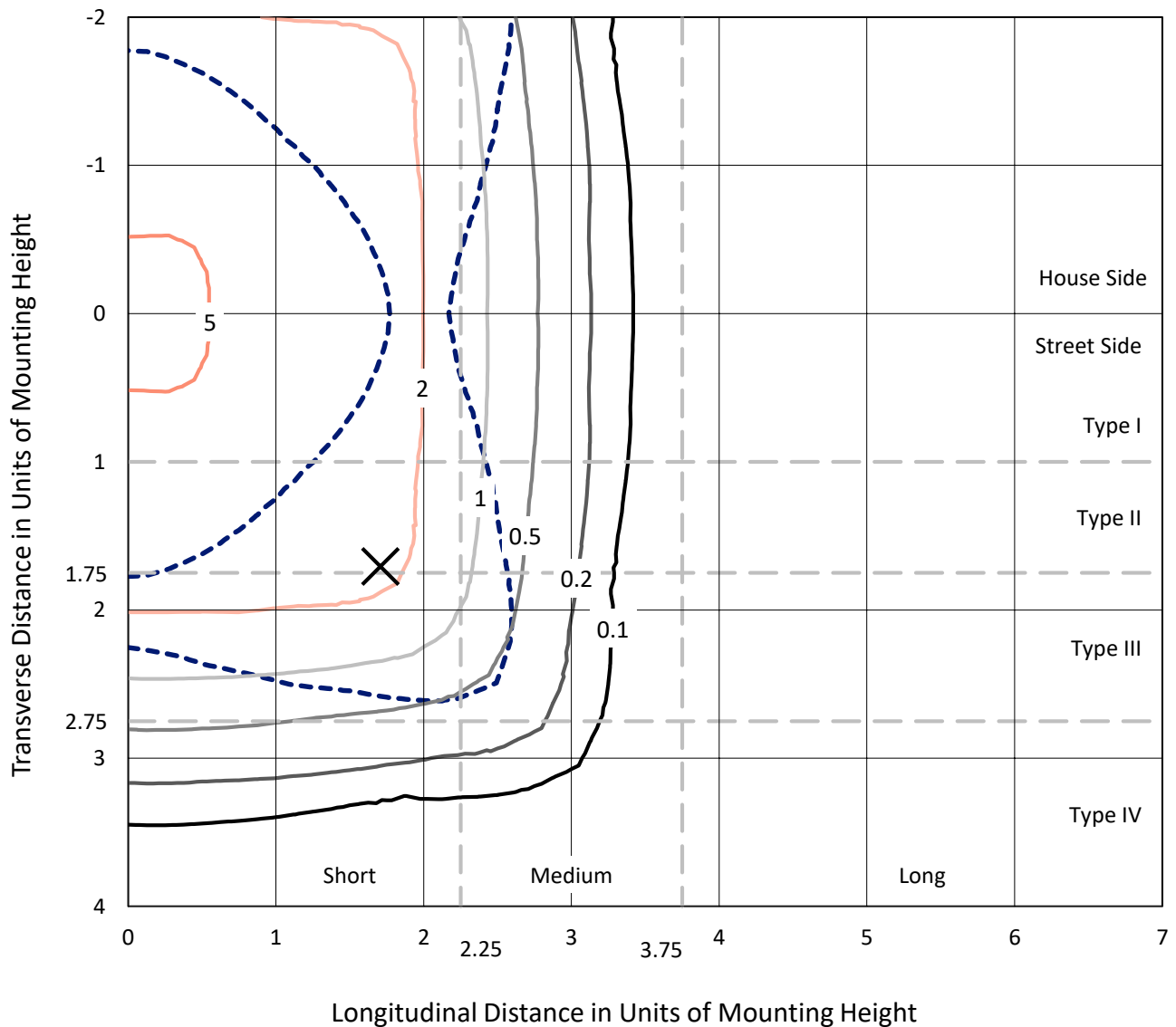


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

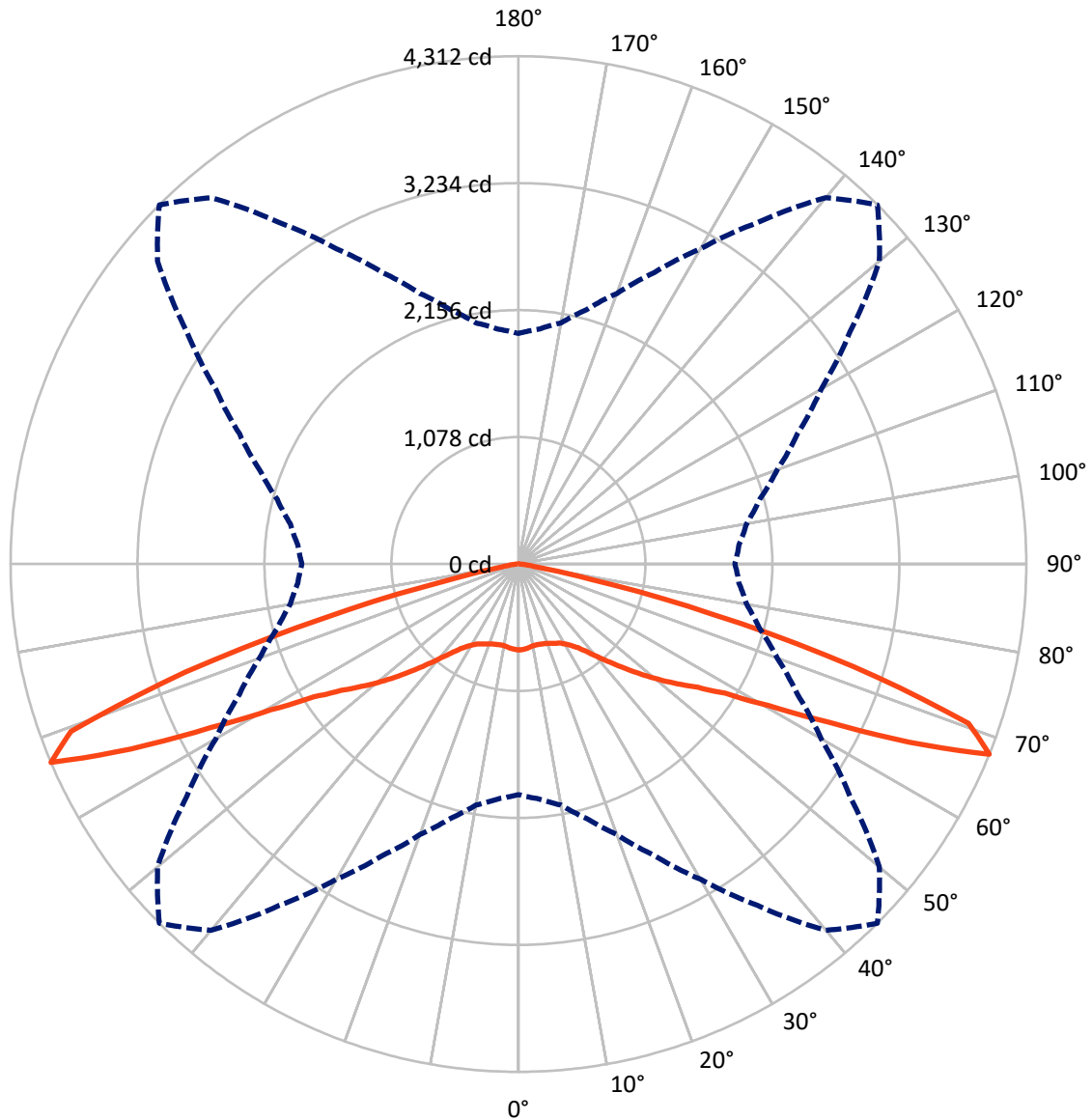


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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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	3663.0	0.0	3663.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3663.0	0.0	3663.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7326.0	0.0	7326.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	0.9
10°-20°	198.3	2.7
20°-30°	337.1	4.6
30°-40°	551.0	7.5
40°-50°	983.7	13.4
50°-60°	1658.5	22.6
60°-70°	2573.7	35.1
70°-80°	904.3	12.3
80°-90°	51.1	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°	7326.0	100.0
0°-180°	7326.0	100.0



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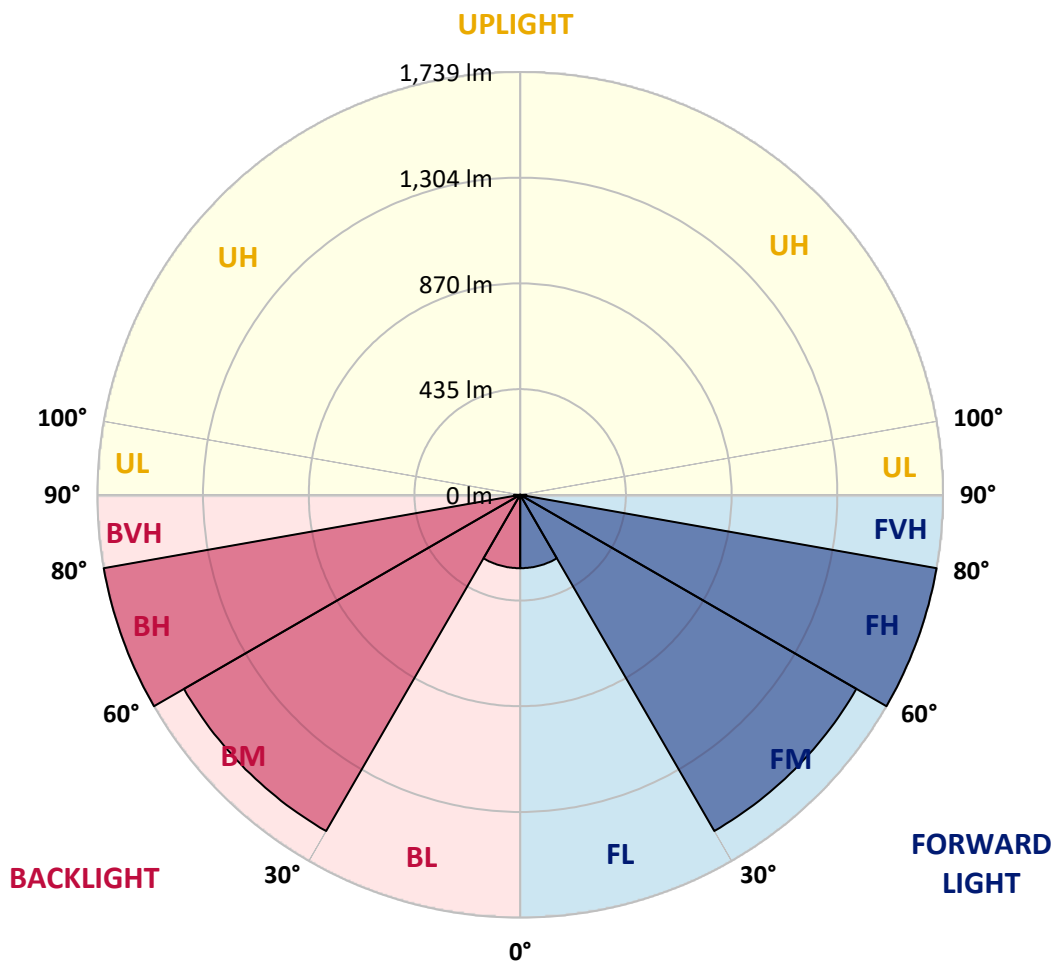
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.8	4.1			
FM	(30°-60°)	1596.6	21.8			
FH	(60°-80°)	1739.0	23.7			G1/1800
FVH	(80°-90°)	25.6	0.3			G1/100
BL	(0°-30°)	301.8	4.1	B1/500		
BM	(30°-60°)	1596.6	21.8	B2/2500		
BH	(60°-80°)	1739.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	25.6	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°	730.1	730.1	730.1	730.1	730.1	730.1	730.1	730.1	730.1	730.1	730.1
2.5°	727.4	728.0	728.0	728.0	727.7	727.7	727.0	727.7	727.4	726.4	726.7
5°	721.3	722.0	722.0	721.6	722.7	722.3	721.3	722.0	721.6	721.0	721.3
7.5°	712.5	713.6	713.6	713.2	714.2	713.9	713.2	713.6	713.6	712.5	712.5
10°	702.8	703.5	703.5	703.1	704.8	704.8	704.5	705.5	705.8	704.8	704.1
12.5°	693.7	694.7	694.7	696.0	697.7	698.4	700.1	701.4	702.8	702.4	701.1
15°	688.3	689.0	690.3	692.0	694.7	697.1	699.7	702.8	705.5	706.1	704.1
17.5°	684.9	685.9	688.0	690.3	694.0	698.1	702.1	706.1	709.9	711.2	708.8
20°	683.9	684.6	686.6	690.6	695.7	701.8	707.5	712.2	717.3	718.9	717.3
22.5°	685.9	687.3	689.6	694.4	701.1	708.8	715.6	722.0	728.4	731.4	729.1
25°	695.0	696.4	699.4	705.5	712.9	721.0	728.7	736.1	741.9	744.9	743.2
27.5°	711.9	713.6	717.3	723.3	731.4	740.2	748.6	754.7	759.4	760.4	758.4
30°	737.1	740.8	745.2	752.0	761.4	768.8	777.2	782.6	788.4	788.4	786.7
32.5°	776.6	780.3	785.0	791.4	798.8	806.9	814.3	819.0	825.1	825.4	821.4
35°	835.5	837.2	841.2	845.3	852.0	859.1	865.5	868.5	873.6	873.9	870.2
37.5°	913.3	913.7	916.4	917.7	923.8	931.5	937.6	939.6	944.3	943.7	940.0
40°	1004.0	1005.7	1006.7	1008.7	1015.1	1022.5	1028.9	1029.9	1035.0	1034.0	1029.2
42.5°	1108.7	1109.4	1115.1	1118.2	1124.2	1127.9	1136.0	1137.0	1143.1	1140.4	1135.0
45°	1226.3	1232.4	1237.8	1243.8	1250.2	1254.6	1261.0	1259.7	1263.7	1259.7	1256.6
47.5°	1350.0	1354.3	1366.5	1375.9	1386.4	1390.1	1399.2	1395.1	1399.2	1393.4	1392.4
50°	1486.1	1493.8	1504.3	1515.0	1526.2	1532.2	1544.0	1539.0	1544.4	1539.0	1535.9
52.5°	1620.2	1622.2	1645.1	1660.9	1676.4	1683.5	1690.6	1688.2	1688.6	1688.2	1685.2
55°	1747.5	1752.2	1775.1	1796.7	1823.7	1843.5	1855.7	1854.3	1851.3	1848.2	1843.2
57.5°	1891.0	1895.7	1922.0	1948.6	1979.3	2007.6	2032.2	2057.5	2067.2	2069.9	2058.8
60°	2085.1	2084.8	2119.8	2152.1	2195.9	2238.0	2291.9	2346.9	2409.9	2439.2	2400.4
62.5°	2282.5	2290.6	2341.1	2398.4	2488.7	2576.6	2676.0	2773.7	2873.4	2954.6	2868.4
65°	2258.9	2289.9	2365.1	2494.8	2661.5	2859.6	3073.9	3300.6	3505.5	3646.3	3488.3
67.5°	1957.7	2001.9	2078.3	2236.0	2444.6	2730.3	3090.1	3538.5	4059.7	4311.7	3999.4
70°	1419.0	1468.9	1549.1	1703.0	1909.6	2181.1	2571.9	3110.3	3800.3	4054.3	3710.3
72.5°	706.1	733.1	782.6	880.7	1037.0	1257.3	1611.7	2129.2	2739.7	2972.8	2658.5
75°	239.9	252.3	260.8	292.8	342.3	428.9	605.1	930.9	1420.0	1702.4	1399.8
77.5°	138.5	138.8	144.5	150.3	158.7	168.1	191.7	251.7	435.3	618.2	450.4
80°	89.6	89.3	94.0	98.4	104.1	108.8	110.2	116.6	134.4	159.4	142.5
82.5°	46.5	52.2	62.7	68.4	79.2	81.2	78.5	76.1	80.5	83.6	85.6
85°	25.6	22.2	33.4	43.1	47.8	48.5	48.5	45.8	47.5	46.5	50.5
87.5°	11.8	10.8	13.1	21.2	22.6	19.2	20.2	17.9	12.8	12.5	14.1
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°	730.1	730.1	730.1	730.1	730.1	730.1	730.1	730.1
2.5°	726.7	727.0	727.0	728.0	728.4	729.1	729.7	730.1
5°	721.0	722.0	721.3	722.3	722.3	723.0	723.0	723.3
7.5°	712.5	713.6	713.6	713.6	713.2	714.2	714.2	714.2
10°	703.8	704.5	704.1	703.5	702.8	703.8	703.5	703.1
12.5°	701.1	699.4	698.1	697.4	696.0	696.4	695.4	695.4
15°	702.8	699.7	697.4	696.4	695.0	694.4	693.7	694.0
17.5°	707.2	703.5	700.4	698.7	697.1	696.0	694.7	695.0
20°	714.9	710.5	706.1	702.8	699.7	698.1	697.1	696.7
22.5°	726.4	720.0	713.6	708.5	704.5	702.1	701.1	700.4
25°	739.5	732.4	725.0	719.3	715.2	712.2	710.2	710.2
27.5°	756.0	750.3	743.5	736.8	733.1	730.1	728.7	728.0
30°	783.6	778.2	772.9	766.5	761.7	758.7	756.3	754.3
32.5°	819.0	814.6	810.2	805.5	801.2	797.1	793.4	791.7
35°	868.9	865.5	862.5	857.1	855.4	853.0	851.0	849.3
37.5°	937.6	936.3	936.3	930.5	929.2	928.2	926.1	926.5
40°	1027.9	1029.2	1027.6	1025.5	1024.5	1021.8	1021.8	1024.2
42.5°	1134.7	1135.7	1139.4	1136.0	1139.7	1136.4	1134.3	1136.0
45°	1258.7	1262.4	1269.8	1266.4	1268.8	1263.0	1256.0	1256.3
47.5°	1397.8	1401.2	1404.2	1401.8	1402.2	1392.8	1383.3	1381.0
50°	1542.3	1543.7	1545.4	1542.0	1542.7	1532.2	1521.4	1521.8
52.5°	1685.2	1691.6	1698.3	1689.2	1687.2	1675.4	1660.3	1654.2
55°	1848.6	1857.7	1849.9	1834.1	1818.3	1802.4	1782.5	1779.2
57.5°	2050.0	2034.6	2010.3	1980.3	1958.4	1936.2	1916.0	1907.5
60°	2330.4	2272.1	2228.3	2183.8	2155.8	2128.5	2101.9	2097.9
62.5°	2726.5	2625.8	2538.6	2446.6	2371.5	2312.8	2266.0	2252.9
65°	3223.1	2985.0	2778.4	2585.7	2418.3	2291.9	2212.4	2177.4
67.5°	3436.7	2966.4	2612.3	2338.8	2119.8	1966.8	1880.9	1838.1
70°	3020.0	2460.1	2075.0	1801.1	1601.6	1438.6	1360.7	1314.9
72.5°	2077.7	1564.9	1237.4	1010.0	850.7	714.2	660.3	656.3
75°	932.9	617.9	425.8	328.1	276.3	240.2	229.1	220.7
77.5°	261.1	193.0	172.2	161.0	150.3	137.8	133.1	134.1
80°	127.0	119.9	115.2	108.1	98.4	87.9	83.2	85.2
82.5°	84.2	83.2	86.2	81.2	67.0	56.9	47.8	43.8
85°	51.2	51.9	52.9	53.2	45.1	31.7	21.6	24.3
87.5°	20.2	23.2	25.3	26.3	24.6	15.2	12.1	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)