

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: McGRAW-EDISON

Report Number: P200223

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200223
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: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5MQ-7050
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6678 lumens
Efficiency: N/A
Efficacy: 113.2 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

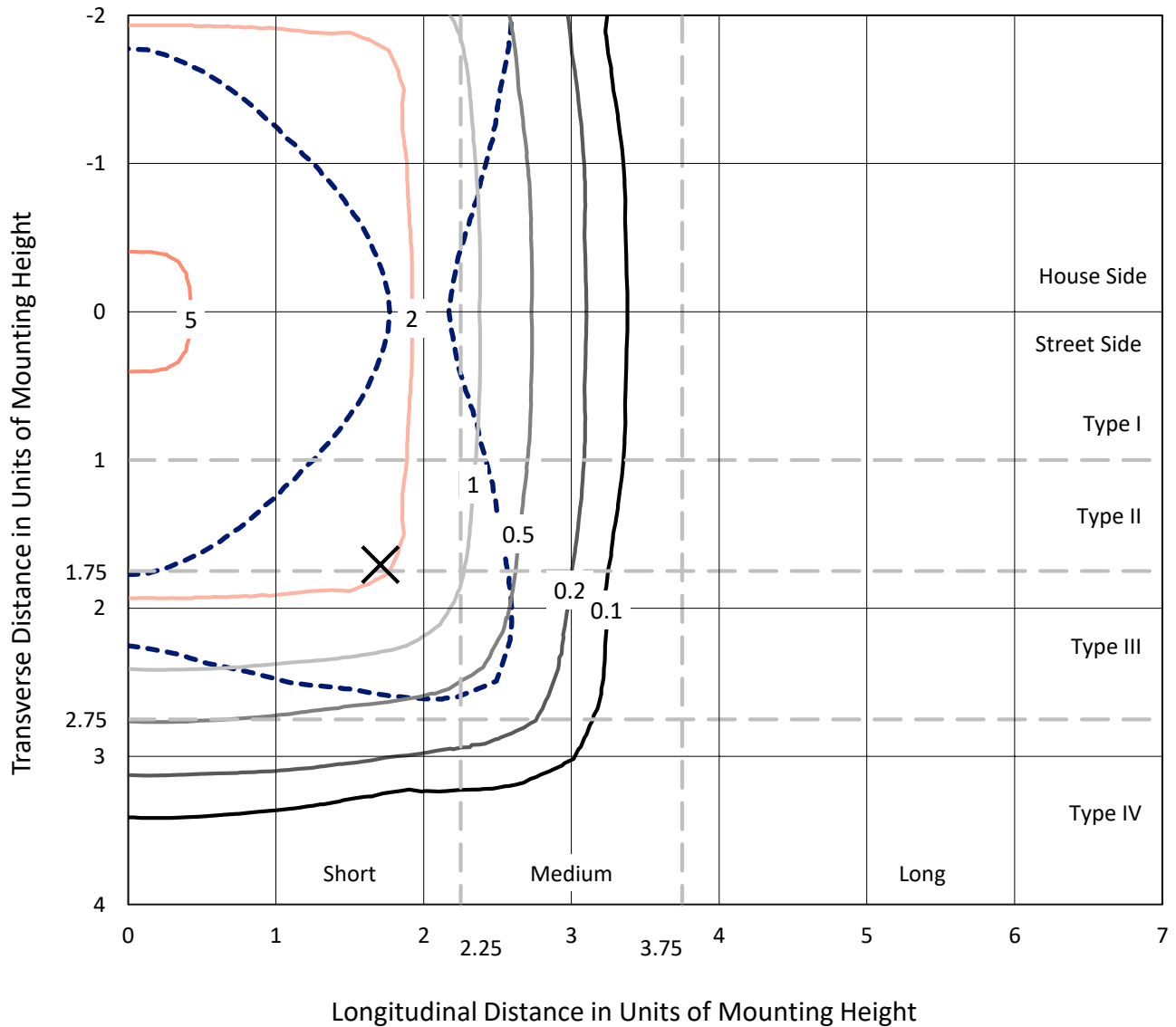
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

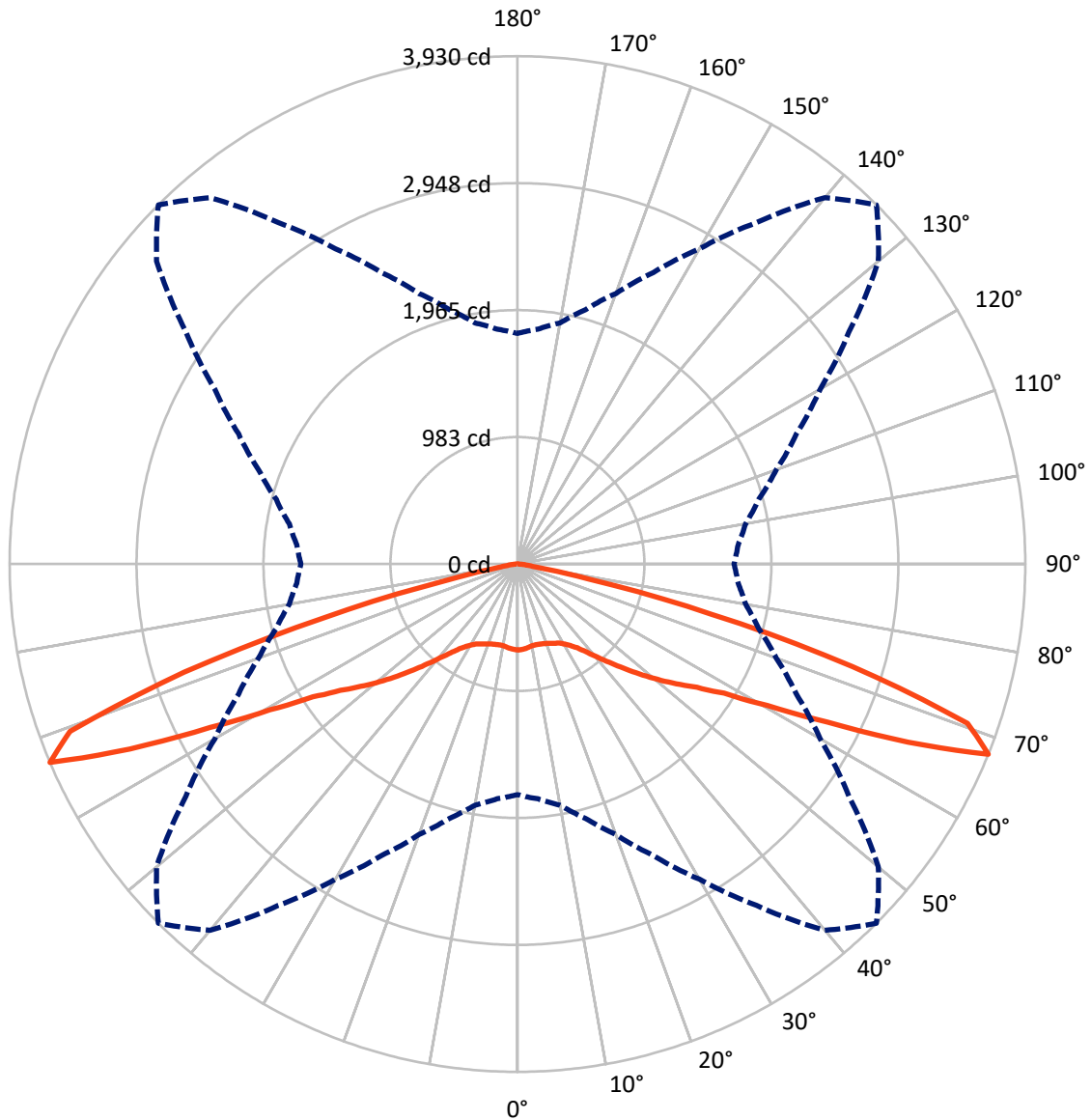
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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	3339.0	0.0	3339.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3339.0	0.0	3339.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6678.0	0.0	6678.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	0.9
10°-20°	180.7	2.7
20°-30°	307.3	4.6
30°-40°	502.3	7.5
40°-50°	896.7	13.4
50°-60°	1511.8	22.6
60°-70°	2346.1	35.1
70°-80°	824.3	12.3
80°-90°	46.6	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°	6678.0	100.0
0°-180°	6678.0	100.0



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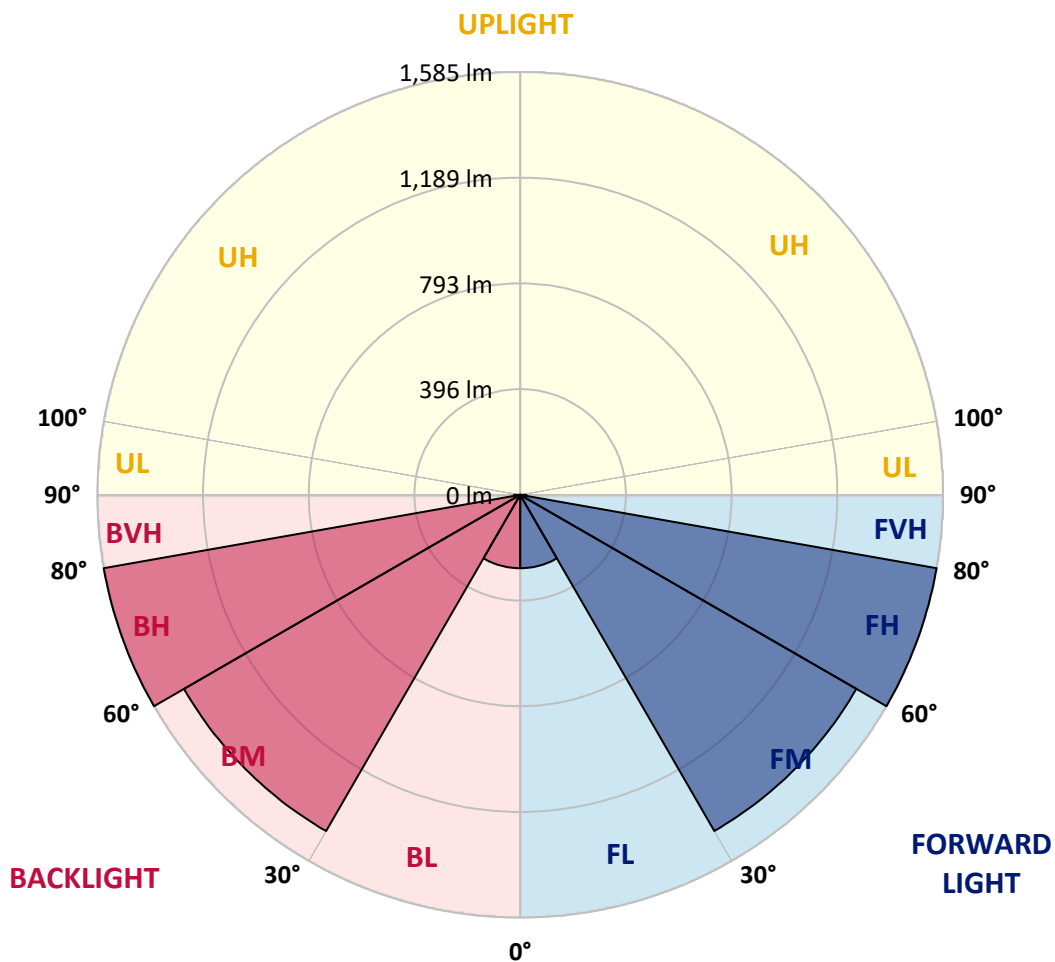
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.1	4.1			
FM	(30°-60°)	1455.4	21.8			
FH	(60°-80°)	1585.2	23.7			G1/1800
FVH	(80°-90°)	23.3	0.3			G1/100
BL	(0°-30°)	275.1	4.1	B1/500		
BM	(30°-60°)	1455.4	21.8	B2/2500		
BH	(60°-80°)	1585.2	23.7	B3/2500		G1/1800
BVH	(80°-90°)	23.3	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°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
2.5°	663.0	663.6	663.6	663.6	663.3	663.3	662.7	663.3	663.0	662.1	662.4
5°	657.5	658.1	658.1	657.8	658.7	658.4	657.5	658.1	657.8	657.2	657.5
7.5°	649.5	650.4	650.4	650.1	651.1	650.7	650.1	650.4	650.4	649.5	649.5
10°	640.6	641.2	641.2	640.9	642.5	642.5	642.2	643.1	643.4	642.5	641.8
12.5°	632.3	633.2	633.2	634.5	636.0	636.6	638.2	639.4	640.6	640.3	639.1
15°	627.4	628.0	629.3	630.8	633.2	635.4	637.9	640.6	643.1	643.7	641.8
17.5°	624.3	625.3	627.1	629.3	632.6	636.3	640.0	643.7	647.1	648.3	646.1
20°	623.4	624.0	625.9	629.6	634.2	639.7	644.9	649.2	653.8	655.4	653.8
22.5°	625.3	626.5	628.6	632.9	639.1	646.1	652.3	658.1	664.0	666.7	664.6
25°	633.6	634.8	637.5	643.1	649.8	657.2	664.3	671.0	676.2	679.0	677.5
27.5°	648.9	650.4	653.8	659.3	666.7	674.7	682.4	687.9	692.2	693.1	691.3
30°	671.9	675.3	679.3	685.5	694.1	700.8	708.5	713.4	718.6	718.6	717.1
32.5°	707.9	711.2	715.5	721.4	728.1	735.5	742.3	746.6	752.1	752.4	748.7
35°	761.6	763.1	766.8	770.5	776.7	783.1	788.9	791.7	796.3	796.6	793.2
37.5°	832.6	832.9	835.3	836.5	842.1	849.1	854.7	856.5	860.8	860.2	856.8
40°	915.2	916.7	917.6	919.5	925.3	932.1	937.9	938.8	943.4	942.5	938.2
42.5°	1010.7	1011.3	1016.5	1019.3	1024.8	1028.2	1035.5	1036.5	1042.0	1039.5	1034.6
45°	1117.9	1123.4	1128.3	1133.8	1139.7	1143.6	1149.5	1148.3	1151.9	1148.3	1145.5
47.5°	1230.6	1234.6	1245.6	1254.2	1263.7	1267.1	1275.4	1271.7	1275.4	1270.2	1269.3
50°	1354.6	1361.7	1371.2	1381.0	1391.2	1396.7	1407.5	1402.8	1407.8	1402.8	1400.1
52.5°	1476.9	1478.7	1499.6	1514.0	1528.1	1534.6	1541.0	1538.9	1539.2	1538.9	1536.1
55°	1592.9	1597.2	1618.1	1637.8	1662.3	1680.5	1691.5	1690.3	1687.5	1684.8	1680.2
57.5°	1723.8	1728.1	1752.0	1776.3	1804.2	1830.0	1852.4	1875.5	1884.4	1886.8	1876.7
60°	1900.7	1900.3	1932.3	1961.8	2001.7	2040.1	2089.2	2139.3	2196.7	2223.4	2188.1
62.5°	2080.6	2088.0	2134.1	2186.3	2268.6	2348.7	2439.3	2528.4	2619.3	2693.3	2614.7
65°	2059.1	2087.4	2155.9	2274.1	2426.1	2606.7	2802.0	3008.7	3195.4	3323.8	3179.7
67.5°	1784.6	1824.8	1894.5	2038.2	2228.3	2488.8	2816.7	3225.5	3700.6	3930.3	3645.6
70°	1293.5	1339.0	1412.1	1552.4	1740.7	1988.2	2344.4	2835.2	3464.1	3695.7	3382.1
72.5°	643.7	668.3	713.4	802.8	945.3	1146.1	1469.2	1940.9	2497.4	2709.9	2423.3
75°	218.7	230.0	237.7	266.9	312.0	390.9	551.6	848.5	1294.4	1551.8	1276.0
77.5°	126.2	126.5	131.7	137.0	144.6	153.2	174.7	229.4	396.8	563.5	410.6
80°	81.7	81.4	85.7	89.7	94.9	99.2	100.4	106.3	122.5	145.3	129.9
82.5°	42.4	47.6	57.1	62.3	72.2	74.0	71.6	69.4	73.4	76.2	78.0
85°	23.3	20.3	30.4	39.3	43.6	44.2	44.2	41.8	43.3	42.4	46.1
87.5°	10.7	9.8	12.0	19.3	20.6	17.5	18.4	16.3	11.7	11.4	12.9
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°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
2.5°	662.4	662.7	662.7	663.6	664.0	664.6	665.2	665.5
5°	657.2	658.1	657.5	658.4	658.4	659.0	659.0	659.3
7.5°	649.5	650.4	650.4	650.4	650.1	651.1	651.1	651.1
10°	641.5	642.2	641.8	641.2	640.6	641.5	641.2	640.9
12.5°	639.1	637.5	636.3	635.7	634.5	634.8	633.9	633.9
15°	640.6	637.9	635.7	634.8	633.6	632.9	632.3	632.6
17.5°	644.6	641.2	638.5	636.9	635.4	634.5	633.2	633.6
20°	651.7	647.7	643.7	640.6	637.9	636.3	635.4	635.1
22.5°	662.1	656.3	650.4	645.8	642.2	640.0	639.1	638.5
25°	674.1	667.6	660.9	655.7	652.0	649.2	647.4	647.4
27.5°	689.1	683.9	677.8	671.6	668.3	665.5	664.3	663.6
30°	714.3	709.4	704.5	698.7	694.4	691.6	689.4	687.6
32.5°	746.6	742.6	738.6	734.3	730.3	726.6	723.2	721.7
35°	792.0	788.9	786.2	781.3	779.7	777.6	775.7	774.2
37.5°	854.7	853.4	853.4	848.2	847.0	846.1	844.2	844.5
40°	937.0	938.2	936.7	934.8	933.9	931.4	931.4	933.6
42.5°	1034.3	1035.2	1038.6	1035.5	1038.9	1035.9	1034.0	1035.5
45°	1147.3	1150.7	1157.5	1154.4	1156.5	1151.3	1144.9	1145.2
47.5°	1274.2	1277.2	1280.0	1277.9	1278.2	1269.6	1261.0	1258.8
50°	1405.9	1407.1	1408.7	1405.6	1406.2	1396.7	1386.9	1387.2
52.5°	1536.1	1542.0	1548.1	1539.8	1538.0	1527.2	1513.4	1507.9
55°	1685.1	1693.4	1686.3	1671.9	1657.4	1643.0	1624.9	1621.8
57.5°	1868.7	1854.6	1832.5	1805.1	1785.2	1764.9	1746.5	1738.8
60°	2124.2	2071.1	2031.2	1990.6	1965.1	1940.3	1916.0	1912.3
62.5°	2485.4	2393.6	2314.0	2230.2	2161.7	2108.3	2065.6	2053.6
65°	2938.0	2720.9	2532.7	2357.0	2204.4	2089.2	2016.7	1984.8
67.5°	3132.8	2704.0	2381.3	2131.9	1932.3	1792.9	1714.6	1675.6
70°	2752.9	2242.5	1891.4	1641.8	1460.0	1311.3	1240.4	1198.6
72.5°	1893.9	1426.5	1128.0	920.7	775.4	651.1	601.9	598.2
75°	850.4	563.2	388.2	299.1	251.8	219.0	208.8	201.2
77.5°	238.0	176.0	156.9	146.8	137.0	125.6	121.3	122.2
80°	115.8	109.3	105.0	98.6	89.7	80.2	75.9	77.7
82.5°	76.8	75.9	78.6	74.0	61.1	51.9	43.6	39.9
85°	46.7	47.3	48.2	48.5	41.2	28.9	19.7	22.1
87.5°	18.4	21.2	23.0	24.0	22.4	13.8	11.1	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)