

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: P193330

Luminaire Tested: **GLEON-AF-02-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193330
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: GLEON-AF-02-LED-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 6878 lumens
Efficiency: N/A
Efficacy: 104.2 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 - G1

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: 25 FT

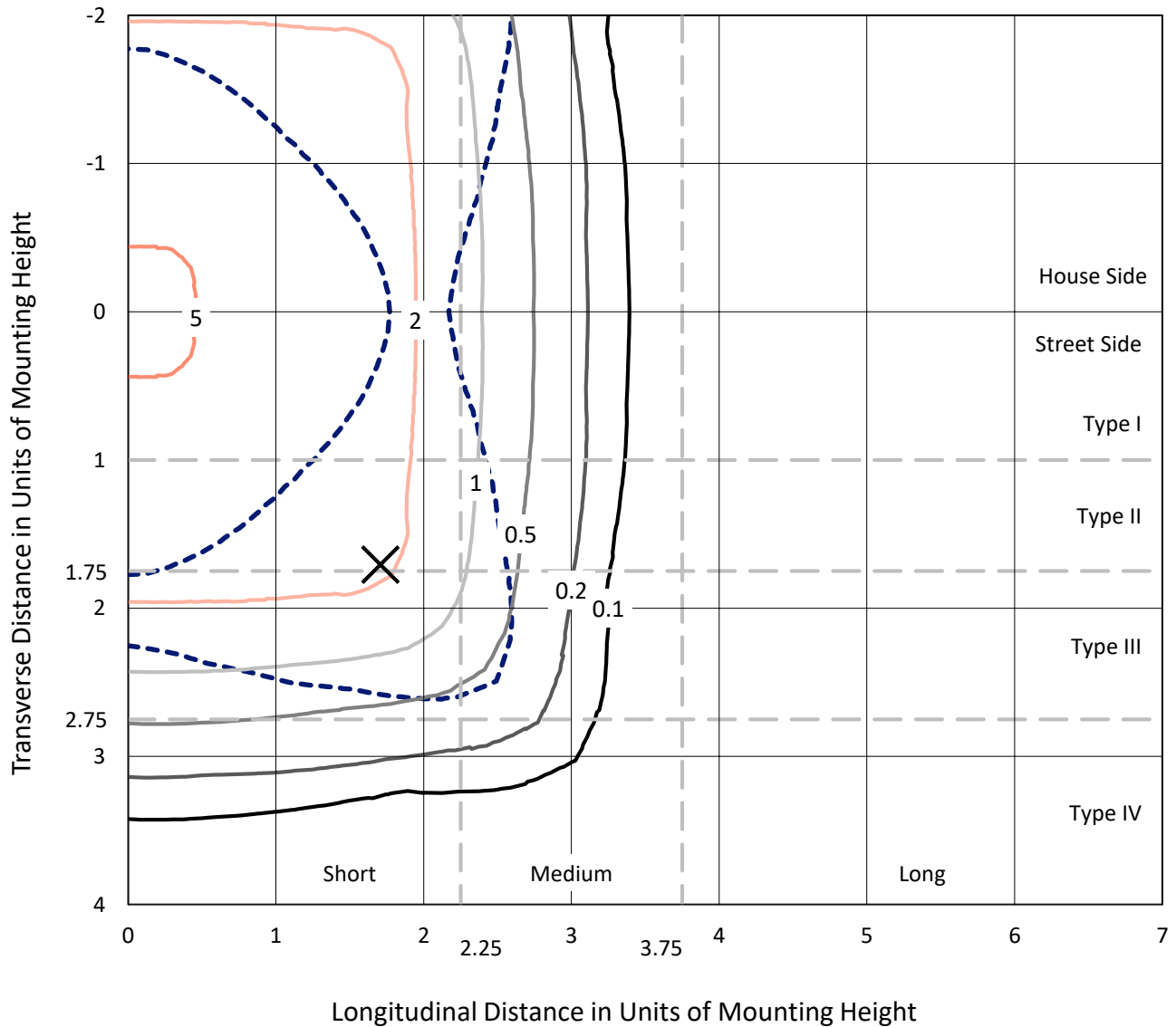


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Iso-Footcandle Lines of Horizontal Illumination

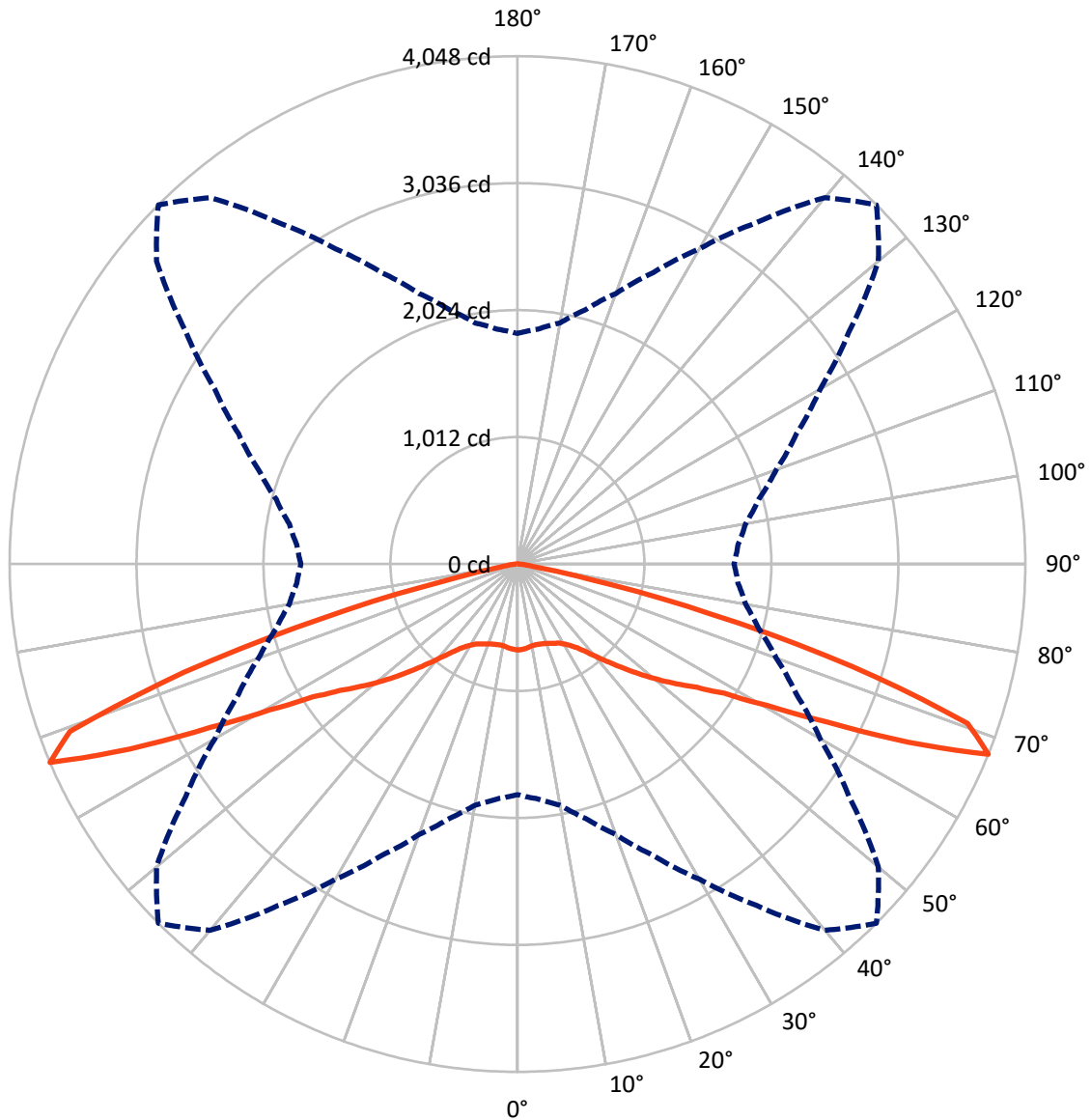
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	3439.0	0.0	3439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3439.0	0.0	3439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6878.0	0.0	6878.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	0.9
10°-20°	186.2	2.7
20°-30°	316.5	4.6
30°-40°	517.3	7.5
40°-50°	923.5	13.4
50°-60°	1557.1	22.6
60°-70°	2416.3	35.1
70°-80°	849.0	12.3
80°-90°	48.0	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°	6878.0	100.0
0°-180°	6878.0	100.0



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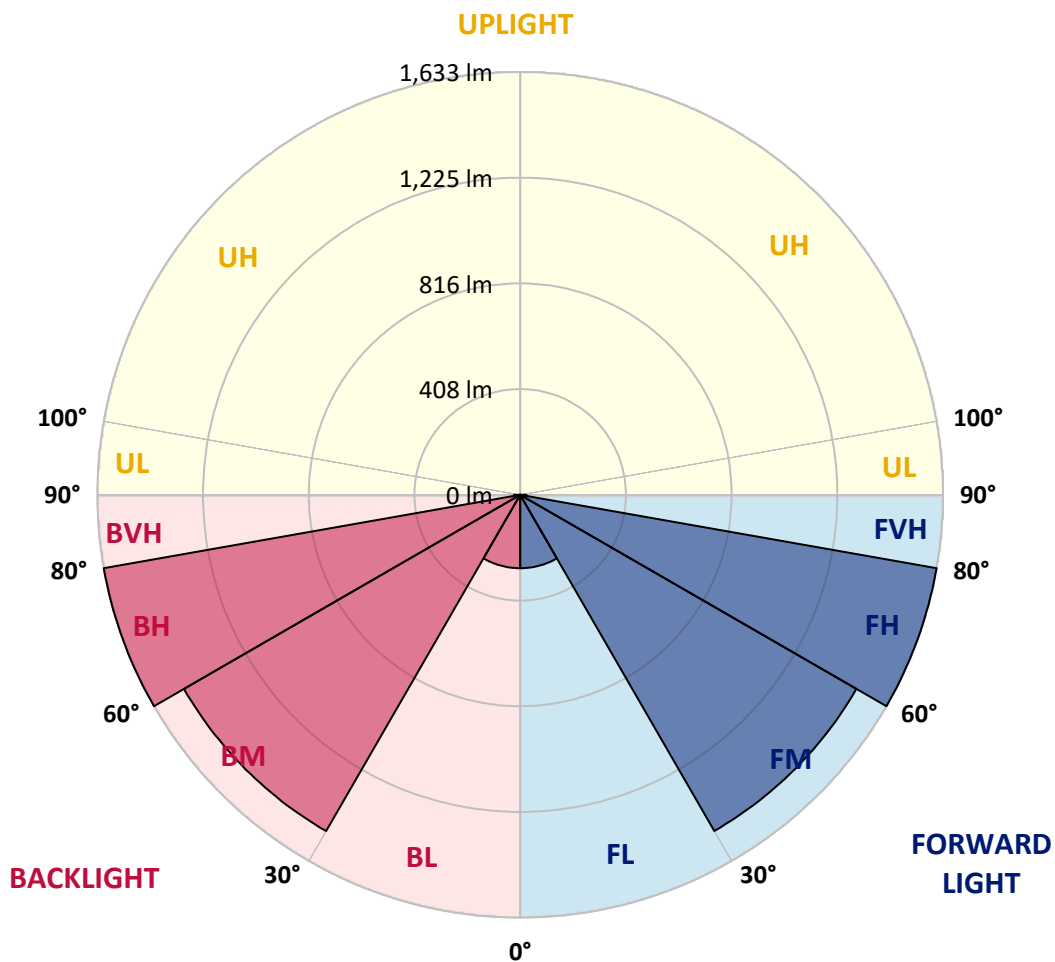
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.4	4.1			
FM	(30°-60°)	1499.0	21.8			
FH	(60°-80°)	1632.7	23.7			G1/1800
FVH	(80°-90°)	24.0	0.3			G1/100
BL	(0°-30°)	283.4	4.1	B1/500		
BM	(30°-60°)	1499.0	21.8	B2/2500		
BH	(60°-80°)	1632.7	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.0	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°	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4
2.5°	682.9	683.5	683.5	683.5	683.2	683.2	682.6	683.2	682.9	681.9	682.3
5°	677.2	677.8	677.8	677.5	678.5	678.1	677.2	677.8	677.5	676.9	677.2
7.5°	669.0	669.9	669.9	669.6	670.6	670.2	669.6	669.9	669.9	669.0	669.0
10°	659.8	660.4	660.4	660.1	661.7	661.7	661.4	662.3	662.6	661.7	661.1
12.5°	651.3	652.2	652.2	653.5	655.1	655.7	657.3	658.5	659.8	659.5	658.2
15°	646.2	646.8	648.1	649.7	652.2	654.4	657.0	659.8	662.3	663.0	661.1
17.5°	643.0	644.0	645.9	648.1	651.6	655.4	659.2	663.0	666.4	667.7	665.5
20°	642.1	642.7	644.6	648.4	653.2	658.9	664.2	668.7	673.4	675.0	673.4
22.5°	644.0	645.3	647.5	651.9	658.2	665.5	671.8	677.8	683.8	686.7	684.5
25°	652.5	653.8	656.6	662.3	669.3	676.9	684.2	691.1	696.5	699.3	697.8
27.5°	668.3	669.9	673.4	679.1	686.7	694.9	702.8	708.5	712.9	713.9	712.0
30°	692.1	695.5	699.7	706.0	714.8	721.8	729.7	734.8	740.1	740.1	738.6
32.5°	729.1	732.6	737.0	743.0	749.9	757.5	764.5	768.9	774.6	774.9	771.1
35°	784.4	786.0	789.8	793.6	799.9	806.6	812.6	815.4	820.2	820.5	817.0
37.5°	857.5	857.8	860.3	861.6	867.3	874.6	880.3	882.2	886.6	886.0	882.5
40°	942.6	944.2	945.1	947.0	953.0	960.0	966.0	966.9	971.7	970.7	966.3
42.5°	1040.9	1041.6	1047.0	1049.8	1055.5	1059.0	1066.6	1067.5	1073.2	1070.7	1065.6
45°	1151.3	1157.0	1162.1	1167.8	1173.8	1177.9	1183.9	1182.6	1186.4	1182.6	1179.8
47.5°	1267.4	1271.5	1282.9	1291.8	1301.6	1305.1	1313.6	1309.8	1313.6	1308.2	1307.3
50°	1395.2	1402.5	1412.3	1422.4	1432.8	1438.5	1449.6	1444.9	1449.9	1444.9	1442.0
52.5°	1521.1	1523.0	1544.5	1559.4	1573.9	1580.6	1587.2	1585.0	1585.3	1585.0	1582.1
55°	1640.6	1645.1	1666.6	1686.8	1712.1	1730.8	1742.2	1740.9	1738.1	1735.2	1730.5
57.5°	1775.4	1779.8	1804.5	1829.5	1858.3	1884.8	1907.9	1931.6	1940.8	1943.3	1932.9
60°	1957.6	1957.3	1990.2	2020.5	2061.6	2101.2	2151.8	2203.3	2262.5	2290.0	2253.6
62.5°	2142.9	2150.5	2198.0	2251.7	2336.5	2419.1	2512.4	2604.1	2697.7	2773.9	2693.0
65°	2120.8	2149.9	2220.4	2342.2	2498.8	2684.8	2885.9	3098.8	3291.1	3423.3	3275.0
67.5°	1838.0	1879.5	1951.3	2099.3	2295.1	2563.3	2901.1	3322.1	3811.4	4048.0	3754.8
70°	1332.3	1379.1	1454.3	1598.9	1792.8	2047.7	2414.6	2920.1	3567.9	3806.4	3483.4
72.5°	663.0	688.3	734.8	826.8	973.6	1180.4	1513.2	1999.0	2572.2	2791.0	2495.9
75°	225.2	236.9	244.8	274.9	321.4	402.6	568.1	873.9	1333.2	1598.3	1314.2
77.5°	130.0	130.3	135.7	141.1	149.0	157.8	180.0	236.3	408.7	580.4	422.9
80°	84.1	83.8	88.2	92.4	97.7	102.2	103.4	109.4	126.2	149.6	133.8
82.5°	43.6	49.0	58.8	64.2	74.3	76.2	73.7	71.5	75.6	78.4	80.3
85°	24.0	20.9	31.3	40.5	44.9	45.5	45.5	43.0	44.6	43.6	47.4
87.5°	11.1	10.1	12.3	19.9	21.2	18.0	19.0	16.8	12.0	11.7	13.3
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°	685.4	685.4	685.4	685.4	685.4	685.4	685.4	685.4
2.5°	682.3	682.6	682.6	683.5	683.8	684.5	685.1	685.4
5°	676.9	677.8	677.2	678.1	678.1	678.8	678.8	679.1
7.5°	669.0	669.9	669.9	669.9	669.6	670.6	670.6	670.6
10°	660.8	661.4	661.1	660.4	659.8	660.8	660.4	660.1
12.5°	658.2	656.6	655.4	654.7	653.5	653.8	652.8	652.8
15°	659.8	657.0	654.7	653.8	652.5	651.9	651.3	651.6
17.5°	663.9	660.4	657.6	656.0	654.4	653.5	652.2	652.5
20°	671.2	667.1	663.0	659.8	657.0	655.4	654.4	654.1
22.5°	681.9	675.9	669.9	665.2	661.4	659.2	658.2	657.6
25°	694.3	687.6	680.7	675.3	671.5	668.7	666.8	666.8
27.5°	709.8	704.4	698.1	691.7	688.3	685.4	684.2	683.5
30°	735.7	730.7	725.6	719.6	715.2	712.3	710.1	708.2
32.5°	768.9	764.8	760.7	756.3	752.2	748.4	744.9	743.3
35°	815.7	812.6	809.7	804.7	803.1	800.9	799.0	797.4
37.5°	880.3	879.0	879.0	873.6	872.4	871.4	869.5	869.8
40°	965.0	966.3	964.7	962.8	961.9	959.3	959.3	961.6
42.5°	1065.3	1066.2	1069.7	1066.6	1070.0	1066.9	1065.0	1066.6
45°	1181.7	1185.2	1192.1	1189.0	1191.2	1185.8	1179.2	1179.5
47.5°	1312.3	1315.5	1318.3	1316.1	1316.4	1307.6	1298.7	1296.5
50°	1448.0	1449.3	1450.9	1447.7	1448.3	1438.5	1428.4	1428.7
52.5°	1582.1	1588.1	1594.5	1585.9	1584.0	1573.0	1558.7	1553.0
55°	1735.5	1744.1	1736.8	1721.9	1707.1	1692.2	1673.5	1670.4
57.5°	1924.7	1910.1	1887.4	1859.2	1838.7	1817.8	1798.8	1790.9
60°	2187.8	2133.1	2092.0	2050.3	2024.0	1998.4	1973.4	1969.6
62.5°	2559.8	2465.2	2383.3	2297.0	2226.4	2171.4	2127.4	2115.1
65°	3026.0	2802.4	2608.5	2427.6	2270.4	2151.8	2077.1	2044.2
67.5°	3226.6	2785.0	2452.6	2195.8	1990.2	1846.6	1765.9	1725.7
70°	2835.3	2309.6	1948.1	1690.9	1503.7	1350.6	1277.5	1234.5
72.5°	1950.6	1469.2	1161.8	948.3	798.7	670.6	619.9	616.2
75°	875.8	580.1	399.8	308.1	259.4	225.5	215.1	207.2
77.5°	245.1	181.2	161.6	151.2	141.1	129.4	124.9	125.9
80°	119.2	112.6	108.2	101.5	92.4	82.6	78.1	80.0
82.5°	79.1	78.1	81.0	76.2	62.9	53.5	44.9	41.1
85°	48.1	48.7	49.7	50.0	42.4	29.7	20.2	22.8
87.5°	19.0	21.8	23.7	24.7	23.1	14.2	11.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)