

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: P199903

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199903
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-7030
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 6458.3 lumens
Efficiency: N/A
Efficacy: 109.5 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

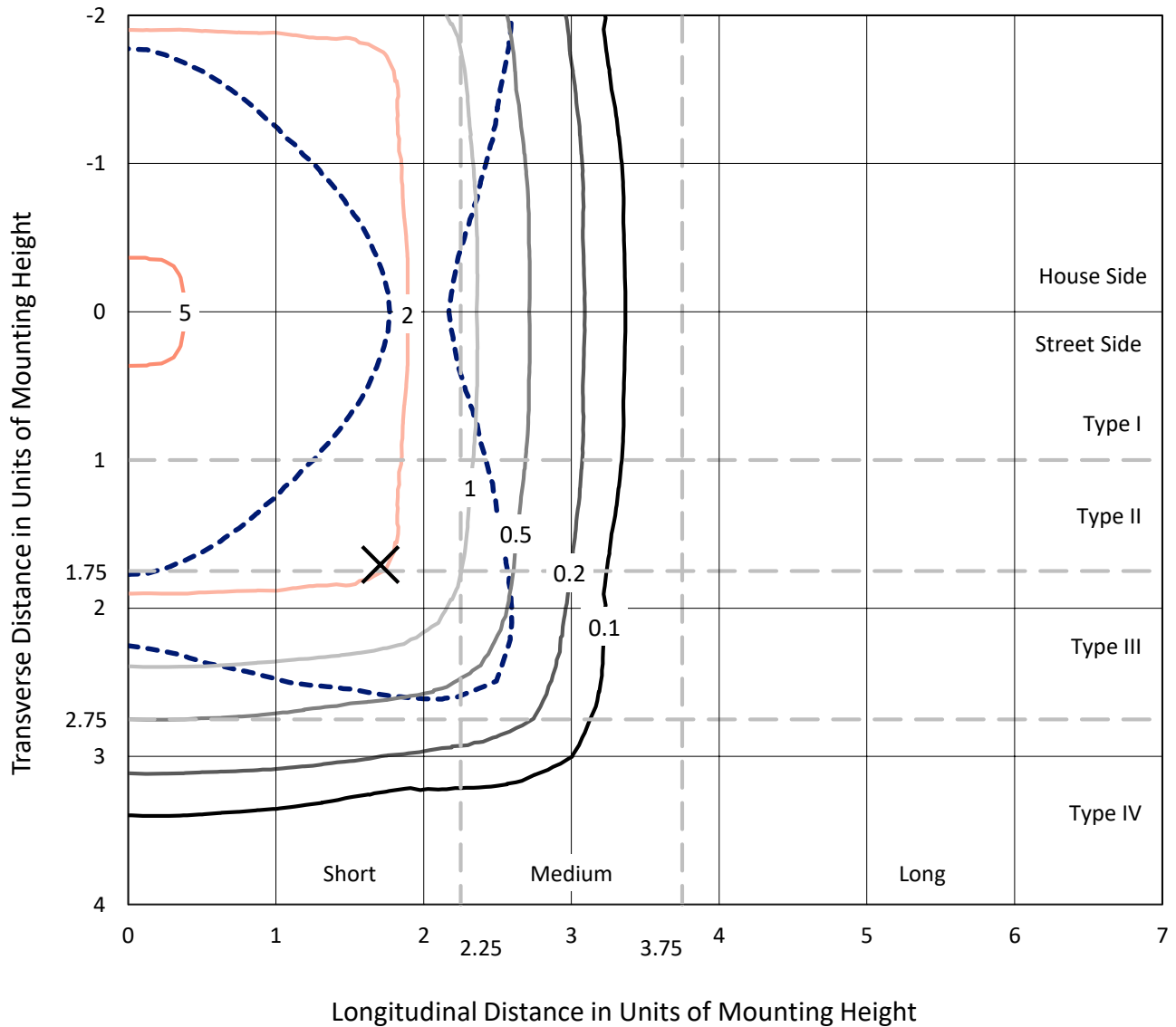
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

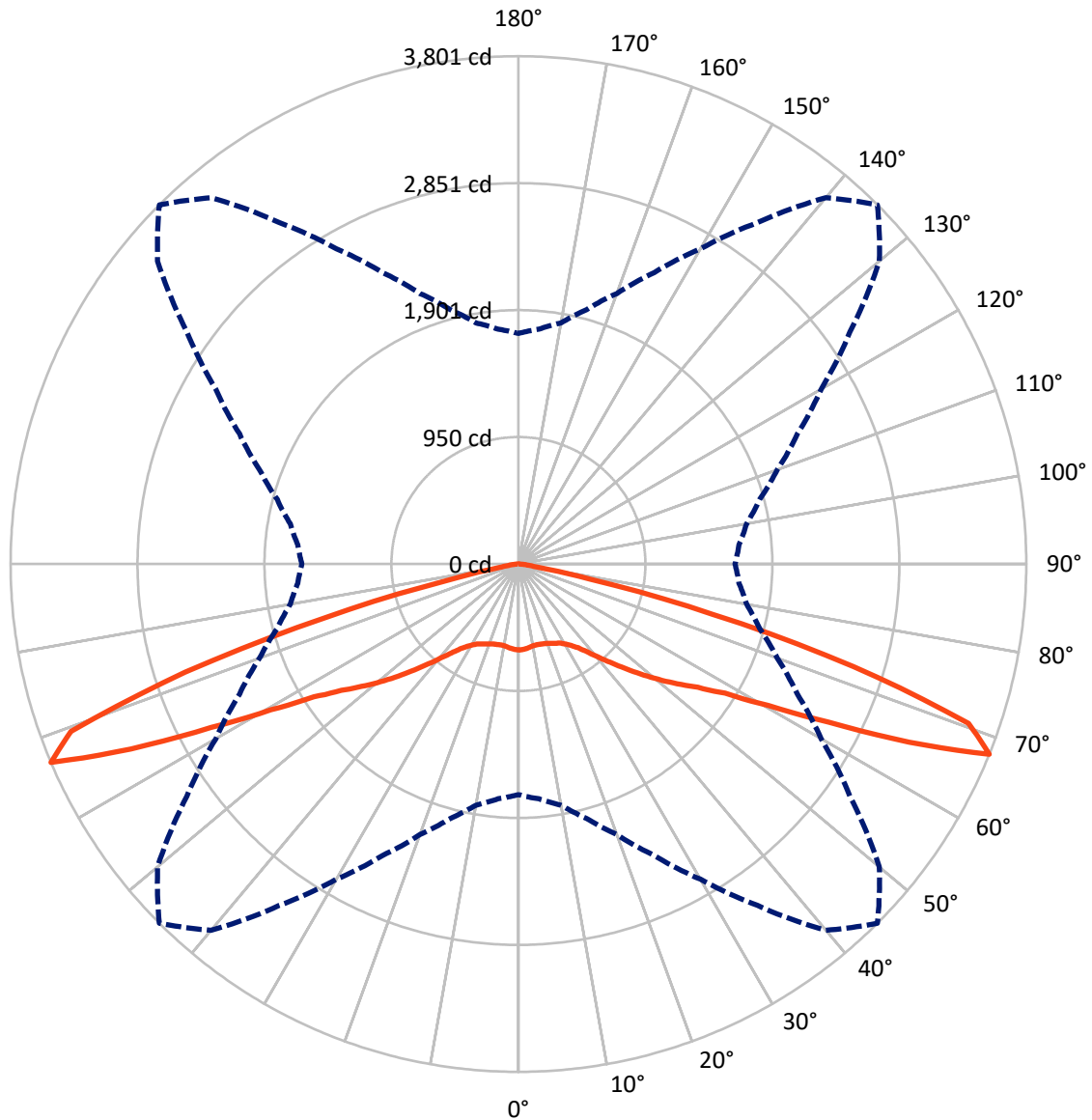
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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	3229.1	0.0	3229.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3229.1	0.0	3229.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6458.3	0.0	6458.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	0.9
10°-20°	174.8	2.7
20°-30°	297.2	4.6
30°-40°	485.8	7.5
40°-50°	867.2	13.4
50°-60°	1462.1	22.6
60°-70°	2268.9	35.1
70°-80°	797.2	12.3
80°-90°	45.0	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°	6458.3	100.0
0°-180°	6458.3	100.0

Coefficient of Utilization



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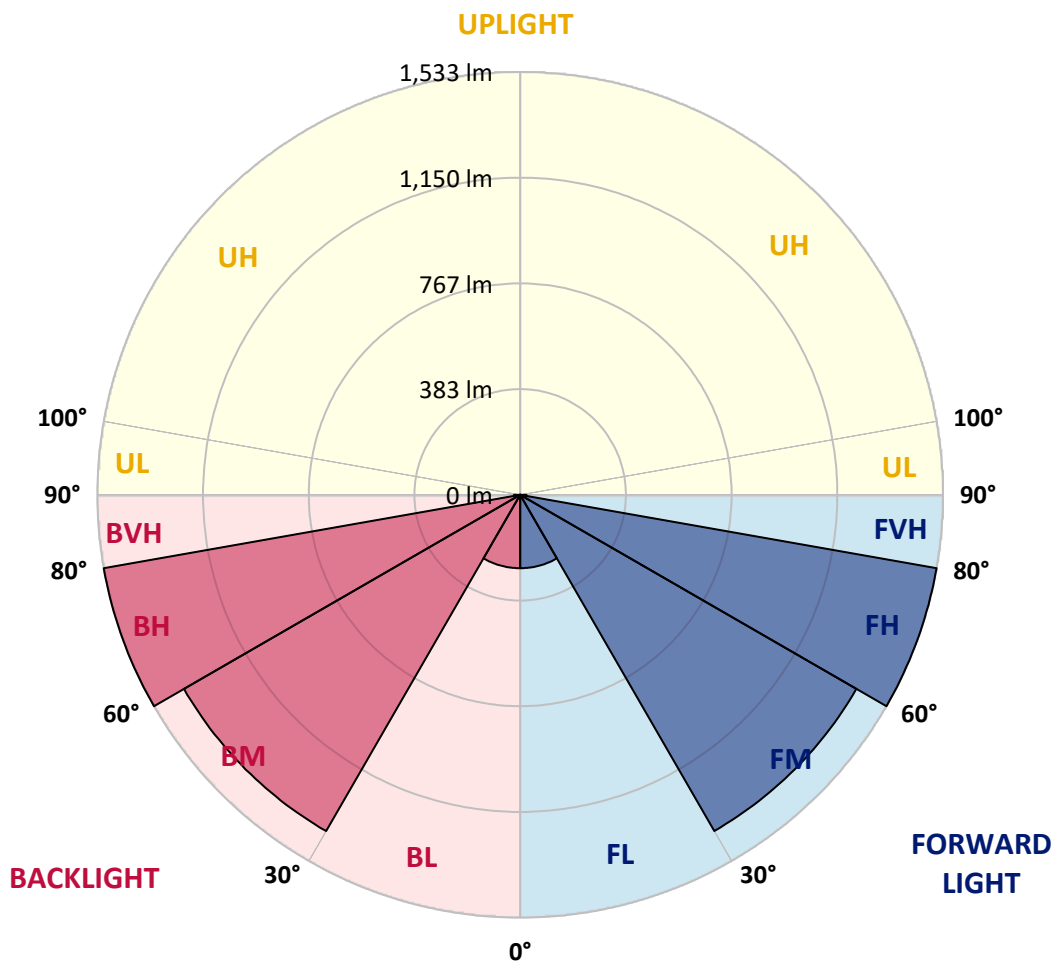
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.1	4.1			
FM	(30°-60°)	1407.5	21.8			
FH	(60°-80°)	1533.0	23.7			G1/1800
FVH	(80°-90°)	22.5	0.3			G1/100
BL	(0°-30°)	266.1	4.1	B1/500		
BM	(30°-60°)	1407.5	21.8	B2/2500		
BH	(60°-80°)	1533.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	22.5	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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
2.5°	641.3	641.8	641.8	641.8	641.6	641.6	641.0	641.6	641.3	640.4	640.6
5°	635.9	636.4	636.4	636.2	637.1	636.8	635.9	636.4	636.2	635.6	635.9
7.5°	628.1	629.0	629.0	628.8	629.7	629.4	628.8	629.0	629.0	628.1	628.1
10°	619.5	620.1	620.1	619.8	621.3	621.3	621.0	621.9	622.2	621.3	620.7
12.5°	611.6	612.4	612.4	613.6	615.1	615.6	617.2	618.4	619.5	619.3	618.1
15°	606.7	607.4	608.6	610.0	612.4	614.5	616.9	619.5	621.9	622.6	620.7
17.5°	603.7	604.6	606.5	608.6	611.9	615.3	619.0	622.6	625.7	626.9	624.9
20°	602.9	603.5	605.3	608.9	613.3	618.6	623.7	627.8	632.3	633.8	632.3
22.5°	604.6	605.9	607.9	612.1	618.1	624.9	630.9	636.4	642.1	644.7	642.7
25°	612.7	613.9	616.6	621.9	628.5	635.6	642.5	648.9	654.0	656.6	655.2
27.5°	627.5	629.0	632.3	637.6	644.7	652.5	659.9	665.3	669.4	670.3	668.5
30°	649.9	653.2	656.9	662.8	671.2	677.7	685.2	690.0	695.0	695.0	693.5
32.5°	684.6	687.9	692.0	697.6	704.1	711.3	717.9	721.9	727.3	727.6	724.1
35°	736.5	738.0	741.7	745.1	751.1	757.3	762.9	765.7	770.2	770.4	767.1
37.5°	805.1	805.5	807.9	809.1	814.4	821.2	826.5	828.3	832.4	831.9	828.6
40°	885.1	886.5	887.4	889.3	894.9	901.4	907.1	908.0	912.5	911.4	907.3
42.5°	977.5	978.0	983.2	985.7	991.1	994.4	1001.5	1002.4	1007.7	1005.3	1000.6
45°	1081.1	1086.5	1091.2	1096.5	1102.2	1106.0	1111.7	1110.5	1114.0	1110.5	1107.8
47.5°	1190.1	1193.9	1204.6	1213.0	1222.2	1225.5	1233.4	1229.8	1233.4	1228.4	1227.5
50°	1310.0	1316.9	1326.1	1335.5	1345.4	1350.8	1361.2	1356.7	1361.5	1356.7	1354.0
52.5°	1428.2	1430.1	1450.2	1464.2	1477.8	1484.1	1490.3	1488.2	1488.5	1488.2	1485.6
55°	1540.5	1544.7	1564.9	1583.9	1607.6	1625.2	1635.8	1634.7	1632.0	1629.4	1624.9
57.5°	1667.1	1671.2	1694.4	1717.9	1744.9	1769.8	1791.6	1813.8	1822.5	1824.7	1815.1
60°	1838.2	1837.8	1868.8	1897.3	1935.8	1973.0	2020.5	2069.0	2124.4	2150.3	2116.2
62.5°	2012.1	2019.3	2063.8	2114.3	2193.9	2271.5	2359.0	2445.2	2533.0	2604.7	2528.7
65°	1991.4	2018.7	2084.8	2199.3	2346.4	2520.9	2709.8	2909.7	3090.3	3214.4	3075.1
67.5°	1725.9	1764.7	1832.2	1971.1	2155.0	2406.9	2724.1	3119.4	3578.9	3801.0	3525.7
70°	1250.9	1294.9	1365.6	1501.3	1683.3	1922.8	2267.3	2741.9	3350.1	3574.1	3270.9
72.5°	622.6	646.3	690.0	776.4	914.2	1108.4	1420.8	1877.1	2415.1	2620.7	2343.6
75°	211.4	222.5	229.9	258.1	301.8	378.0	533.4	820.6	1251.9	1500.7	1234.1
77.5°	122.1	122.4	127.4	132.4	139.9	148.1	169.1	221.9	383.7	544.9	397.0
80°	79.0	78.6	82.8	86.8	91.8	95.9	97.1	102.8	118.5	140.5	125.6
82.5°	41.0	46.0	55.2	60.3	69.8	71.6	69.2	67.0	71.0	73.6	75.4
85°	22.6	19.5	29.4	38.0	42.2	42.7	42.7	40.4	41.8	41.0	44.6
87.5°	10.4	9.5	11.6	18.7	19.8	16.9	17.8	15.8	11.3	11.0	12.4
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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
2.5°	640.6	641.0	641.0	641.8	642.1	642.7	643.3	643.6
5°	635.6	636.4	635.9	636.8	636.8	637.3	637.3	637.6
7.5°	628.1	629.0	629.0	629.0	628.8	629.7	629.7	629.7
10°	620.5	621.0	620.7	620.1	619.5	620.5	620.1	619.8
12.5°	618.1	616.6	615.3	614.8	613.6	613.9	613.1	613.1
15°	619.5	616.9	614.8	613.9	612.7	612.1	611.6	611.9
17.5°	623.5	620.1	617.5	616.0	614.5	613.6	612.4	612.7
20°	630.2	626.4	622.6	619.5	616.9	615.3	614.5	614.1
22.5°	640.4	634.7	629.0	624.6	621.0	619.0	618.1	617.5
25°	651.9	645.7	639.1	634.1	630.5	627.8	626.0	626.0
27.5°	666.5	661.4	655.4	649.5	646.3	643.6	642.5	641.8
30°	690.8	686.0	681.3	675.7	671.5	668.8	666.8	665.0
32.5°	721.9	718.2	714.3	710.0	706.3	702.7	699.5	697.9
35°	766.0	762.9	760.3	755.5	754.1	752.0	750.2	748.8
37.5°	826.5	825.4	825.4	820.3	819.1	818.3	816.5	816.7
40°	906.2	907.3	905.9	904.1	903.1	900.9	900.9	902.9
42.5°	1000.3	1001.2	1004.4	1001.5	1004.7	1001.8	1000.0	1001.5
45°	1109.6	1112.8	1119.4	1116.4	1118.5	1113.5	1107.3	1107.6
47.5°	1232.2	1235.1	1237.9	1235.8	1236.2	1227.7	1219.5	1217.3
50°	1359.6	1360.9	1362.4	1359.4	1360.0	1350.8	1341.2	1341.6
52.5°	1485.6	1491.3	1497.2	1489.2	1487.3	1476.9	1463.6	1458.3
55°	1629.6	1637.7	1630.8	1616.8	1603.0	1588.9	1571.4	1568.4
57.5°	1807.2	1793.6	1772.1	1745.8	1726.4	1706.8	1689.0	1681.6
60°	2054.3	2002.9	1964.4	1925.1	1900.4	1876.4	1852.9	1849.4
62.5°	2403.6	2314.7	2237.8	2156.8	2090.5	2038.9	1997.6	1986.0
65°	2841.4	2631.4	2449.4	2279.4	2131.8	2020.5	1950.4	1919.4
67.5°	3029.6	2615.1	2302.9	2061.7	1868.8	1733.8	1658.1	1620.5
70°	2662.3	2168.7	1829.2	1587.7	1411.9	1268.2	1199.5	1159.2
72.5°	1831.6	1379.6	1090.9	890.4	749.9	629.7	582.2	578.5
75°	822.4	544.6	375.5	289.3	243.5	211.8	201.9	194.5
77.5°	230.2	170.2	151.8	141.9	132.4	121.5	117.4	118.2
80°	112.0	105.8	101.6	95.4	86.8	77.5	73.3	75.2
82.5°	74.3	73.3	76.1	71.6	59.1	50.1	42.2	38.6
85°	45.2	45.8	46.7	46.9	39.8	28.0	19.0	21.5
87.5°	17.8	20.5	22.3	23.2	21.7	13.3	10.7	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)