

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: P200239

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-7050
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6695 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

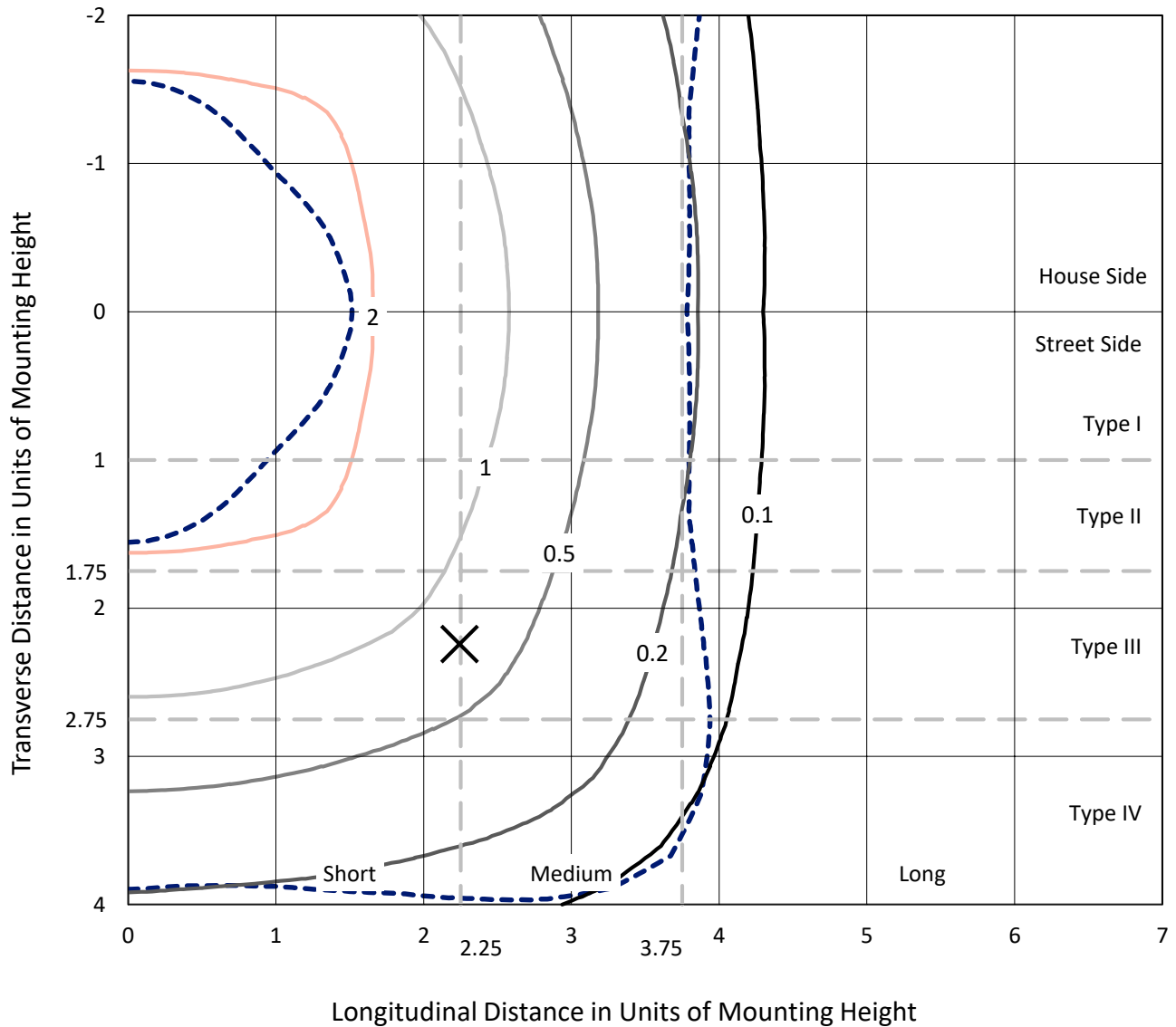
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

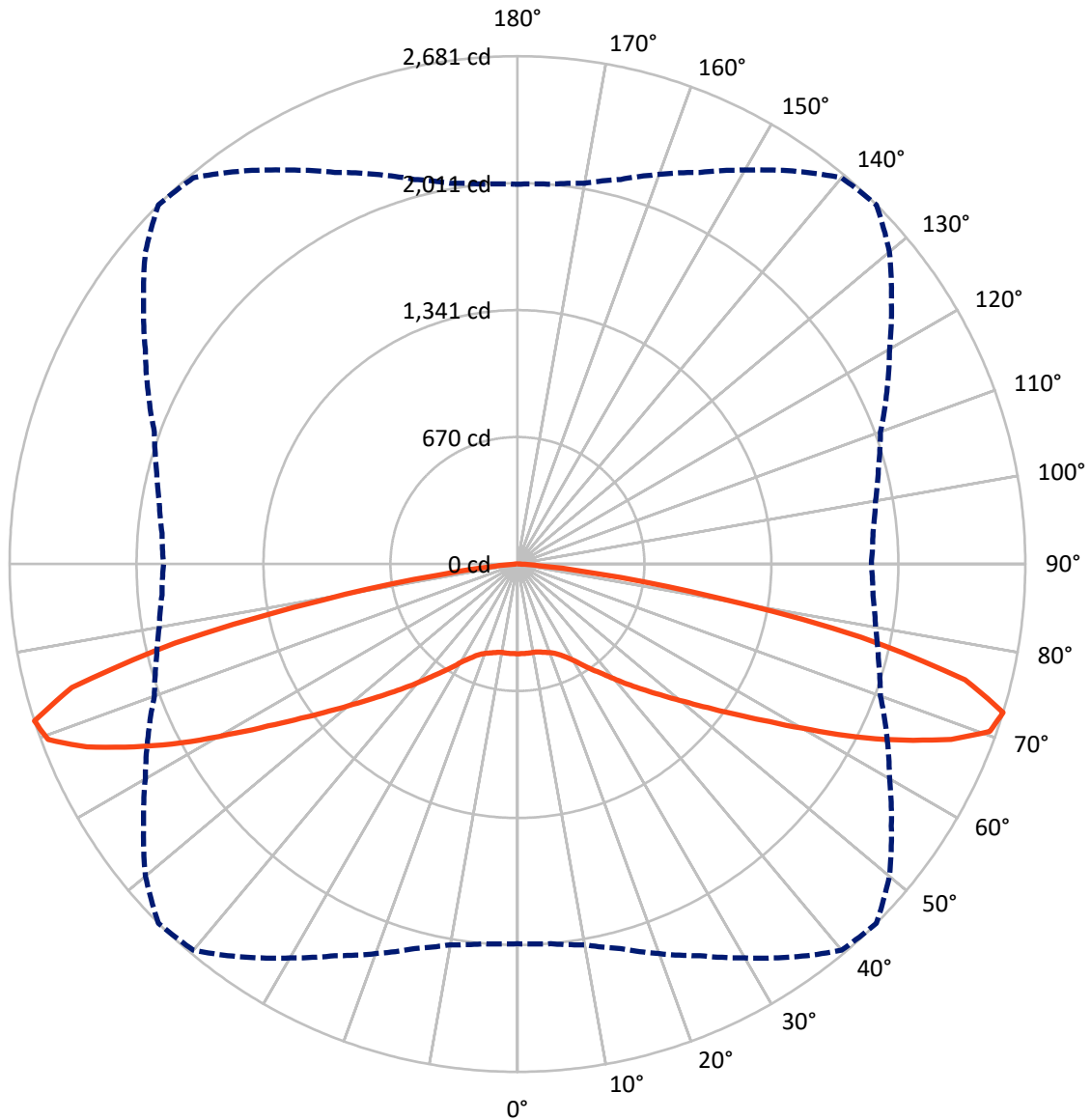
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3347.5	0.0	3347.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3347.5	0.0	3347.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6695.0	0.0	6695.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	0.7
10°-20°	137.5	2.1
20°-30°	251.3	3.8
30°-40°	433.2	6.5
40°-50°	740.6	11.1
50°-60°	1200.4	17.9
60°-70°	1991.4	29.7
70°-80°	1754.0	26.2
80°-90°	141.4	2.1
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°	6695.0	100.0
0°-180°	6695.0	100.0



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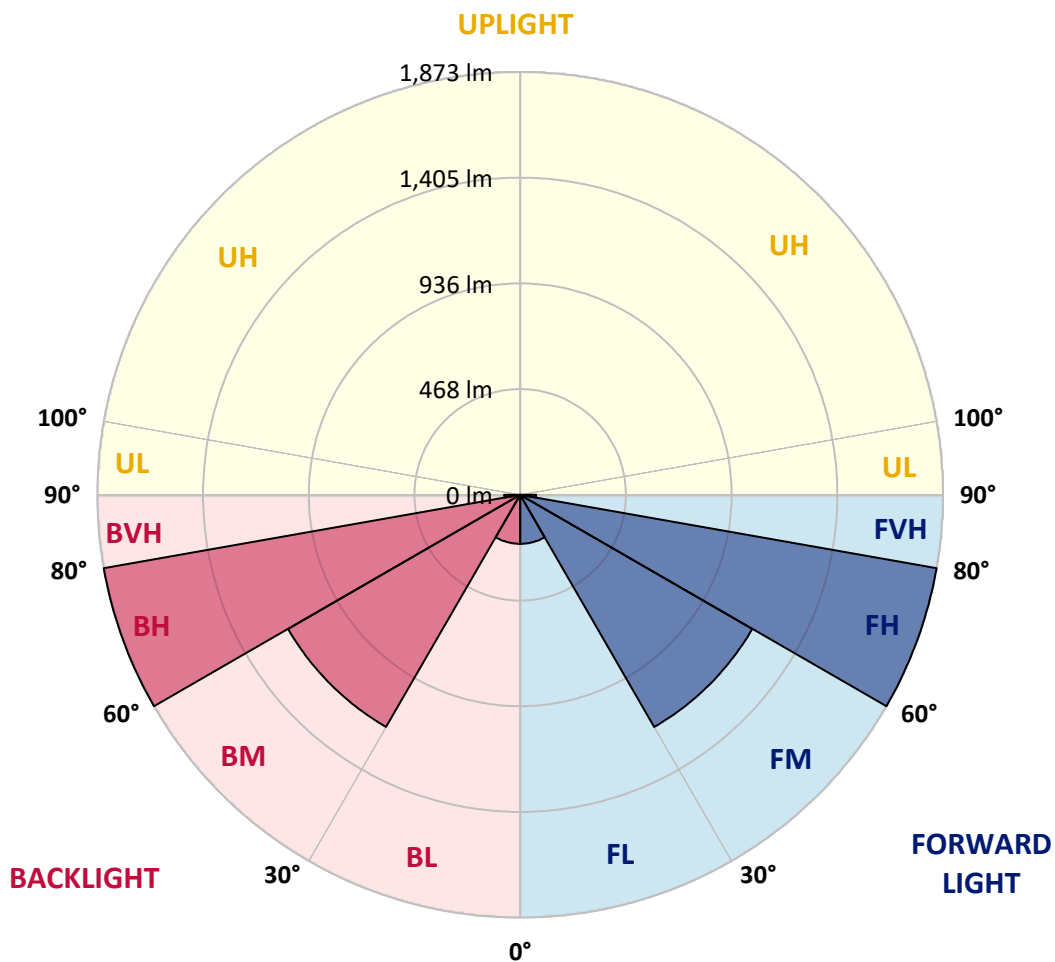
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.0	3.2			
FM	(30°-60°)	1187.1	17.7			
FH	(60°-80°)	1872.7	28.0			G2/5000
FVH	(80°-90°)	70.7	1.1			G1/100
BL	(0°-30°)	217.0	3.2	B1/500		
BM	(30°-60°)	1187.1	17.7	B2/2500		
BH	(60°-80°)	1872.7	28.0	B3/2500		G2/5000
BVH	(80°-90°)	70.7	1.1			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°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	474.1	474.4	474.7	474.4	474.4	474.1	473.8	474.1	473.8	473.2	473.5
5°	475.6	476.3	476.3	475.6	476.0	475.6	475.0	475.3	474.7	473.8	473.8
7.5°	477.5	477.8	477.8	477.2	477.5	476.9	476.3	476.0	475.3	474.1	473.2
10°	480.3	480.6	480.3	479.6	479.6	478.7	477.2	476.6	475.3	473.5	472.6
12.5°	483.3	483.6	483.3	482.7	482.4	480.9	479.6	478.7	477.8	476.3	474.7
15°	487.6	488.2	487.6	486.4	485.5	484.2	483.6	483.9	484.2	483.0	481.5
17.5°	495.6	495.9	495.0	492.2	491.0	489.8	489.8	490.4	491.3	490.7	489.2
20°	510.3	509.4	507.3	503.9	502.4	500.2	499.9	500.2	500.2	499.9	498.7
22.5°	528.8	528.2	525.4	521.1	518.9	517.7	515.9	514.3	514.0	513.1	511.9
25°	550.9	550.6	547.2	543.5	542.0	540.4	538.9	536.8	534.9	532.8	531.5
27.5°	579.1	577.9	573.0	571.1	569.0	568.1	565.9	563.5	561.9	559.2	557.6
30°	610.1	610.1	606.1	605.5	605.5	603.4	600.9	596.6	593.9	591.1	590.2
32.5°	641.2	641.5	637.5	638.7	639.6	641.2	641.8	640.2	638.4	638.1	636.2
35°	686.0	684.8	680.8	681.7	681.4	681.1	681.1	684.5	685.1	685.7	682.0
37.5°	741.6	741.6	737.6	737.6	735.7	733.9	731.4	733.6	737.0	737.9	735.4
40°	805.1	807.3	802.4	802.1	802.7	796.8	794.1	797.5	799.6	803.3	800.5
42.5°	880.1	878.5	873.6	873.0	869.6	867.8	865.3	868.1	871.5	873.9	874.8
45°	951.9	950.7	945.1	945.1	941.8	940.2	941.5	946.1	947.6	951.0	954.4
47.5°	1022.8	1021.3	1017.6	1019.2	1019.5	1022.2	1026.2	1030.5	1034.8	1039.4	1041.0
50°	1095.3	1095.6	1091.6	1095.3	1099.9	1107.6	1118.3	1125.4	1134.3	1140.1	1142.0
52.5°	1161.3	1162.6	1166.9	1175.4	1184.7	1199.7	1218.1	1235.3	1250.1	1259.9	1259.3
55°	1240.5	1242.4	1252.8	1267.6	1282.6	1305.3	1332.7	1363.1	1387.6	1401.8	1392.9
57.5°	1341.9	1345.9	1357.5	1377.5	1399.9	1429.4	1466.9	1512.6	1550.7	1569.7	1555.3
60°	1481.0	1483.4	1497.6	1519.7	1546.7	1583.2	1633.3	1694.7	1748.4	1773.6	1757.0
62.5°	1664.3	1668.9	1680.3	1702.7	1730.3	1771.8	1832.9	1909.6	1976.6	2011.6	1974.1
65°	1883.2	1898.0	1907.5	1930.2	1956.0	1999.9	2063.8	2146.1	2217.9	2241.0	2197.7
67.5°	2100.0	2112.9	2129.5	2155.6	2181.7	2231.1	2290.4	2370.2	2449.2	2470.0	2402.8
70°	2194.9	2202.3	2228.1	2263.7	2313.7	2372.1	2440.6	2530.2	2627.9	2645.1	2559.7
72.5°	2004.8	2012.2	2041.1	2101.6	2188.8	2281.5	2400.9	2532.7	2661.6	2681.0	2563.4
75°	1516.3	1504.3	1547.0	1627.1	1744.7	1874.0	2041.1	2229.9	2416.3	2440.6	2300.2
77.5°	783.6	782.1	814.3	913.8	1054.2	1201.2	1385.2	1598.6	1781.0	1854.7	1740.5
80°	220.8	223.2	238.6	288.0	370.0	476.3	620.0	819.9	969.1	1045.3	981.4
82.5°	86.6	93.3	99.2	108.4	119.1	134.8	179.9	267.8	359.3	429.3	351.6
85°	31.0	33.2	47.0	55.6	56.5	59.6	67.9	79.2	95.5	113.9	93.7
87.5°	11.7	12.9	15.0	24.9	24.6	22.4	27.3	28.6	21.5	19.7	24.3
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°	474.1	474.1	474.1	474.1	474.1	474.1	474.1	474.1
2.5°	472.9	473.2	473.2	473.5	473.8	473.8	474.4	474.4
5°	473.2	473.2	472.6	472.9	472.6	472.6	472.9	472.9
7.5°	472.6	472.3	471.7	471.3	470.7	470.7	470.7	470.7
10°	471.7	471.3	470.7	470.4	470.1	470.1	470.1	470.1
12.5°	474.1	473.2	472.6	472.3	472.3	472.3	472.3	472.3
15°	480.6	478.4	476.9	476.9	477.2	477.8	477.8	478.4
17.5°	488.5	486.1	484.6	483.3	483.9	484.9	485.5	486.1
20°	498.1	496.8	494.7	493.5	493.5	494.7	495.3	495.6
22.5°	511.3	510.3	509.4	507.9	507.9	508.5	509.7	509.7
25°	530.9	530.3	529.7	528.5	528.2	528.2	528.8	529.4
27.5°	555.5	555.8	555.2	554.9	553.9	553.6	554.6	554.3
30°	588.3	589.9	591.4	590.2	588.6	587.7	586.8	585.6
32.5°	632.9	631.0	629.8	627.6	624.9	622.4	620.6	618.4
35°	674.9	671.9	670.6	672.5	672.2	670.6	668.5	666.6
37.5°	726.5	725.9	726.5	729.9	729.3	730.8	726.5	726.2
40°	791.6	792.2	796.5	800.5	802.7	804.8	802.4	799.9
42.5°	867.2	866.8	868.4	873.9	877.6	880.1	874.8	874.2
45°	947.0	944.8	946.1	950.7	954.4	957.1	951.3	951.3
47.5°	1034.8	1031.1	1027.1	1032.4	1034.5	1036.3	1031.7	1030.2
50°	1132.8	1125.1	1116.5	1118.6	1118.6	1118.0	1112.2	1111.9
52.5°	1245.2	1231.0	1215.4	1209.5	1206.2	1202.5	1192.3	1187.4
55°	1374.4	1353.2	1328.7	1313.6	1305.6	1295.5	1278.6	1274.0
57.5°	1525.5	1492.3	1450.0	1431.5	1413.7	1397.2	1378.4	1373.2
60°	1704.5	1655.7	1599.5	1565.4	1546.1	1530.1	1510.8	1509.8
62.5°	1904.1	1827.0	1763.5	1732.8	1718.6	1704.5	1686.1	1688.6
65°	2107.1	2026.6	1967.1	1942.2	1929.0	1917.3	1898.9	1901.7
67.5°	2307.3	2233.3	2167.9	2142.4	2127.7	2112.9	2096.3	2099.1
70°	2451.0	2359.2	2285.5	2229.0	2193.7	2153.8	2128.0	2121.5
72.5°	2409.9	2268.3	2151.3	2039.2	1973.5	1920.1	1883.9	1868.2
75°	2085.6	1892.1	1741.7	1604.1	1526.7	1463.8	1418.0	1389.5
77.5°	1548.8	1331.4	1153.6	995.2	869.9	785.8	726.5	688.1
80°	847.8	644.8	471.3	331.3	243.5	202.4	178.7	167.4
82.5°	264.1	170.4	125.6	108.4	100.7	96.4	89.4	78.0
85°	84.1	73.7	68.5	65.4	62.3	54.4	37.5	34.1
87.5°	32.5	33.5	33.2	31.3	31.9	23.0	18.4	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)