

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: INVUE

Report Number: P140284

Luminaire Tested: **ECM-F03-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140284
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F03-LED-E1-5MQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6907.6 lumens
Efficiency: N/A
Efficacy: 88.2 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

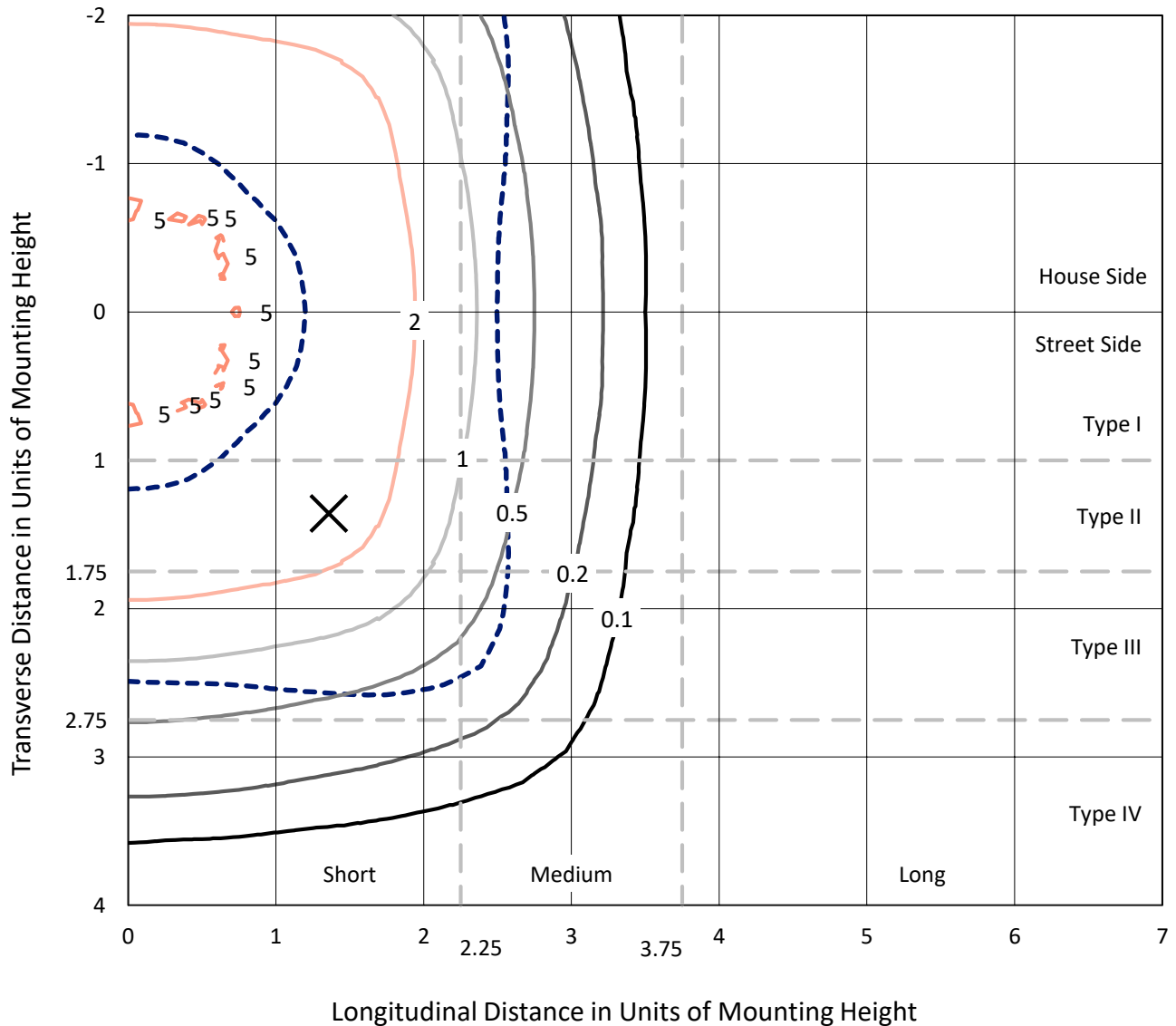
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

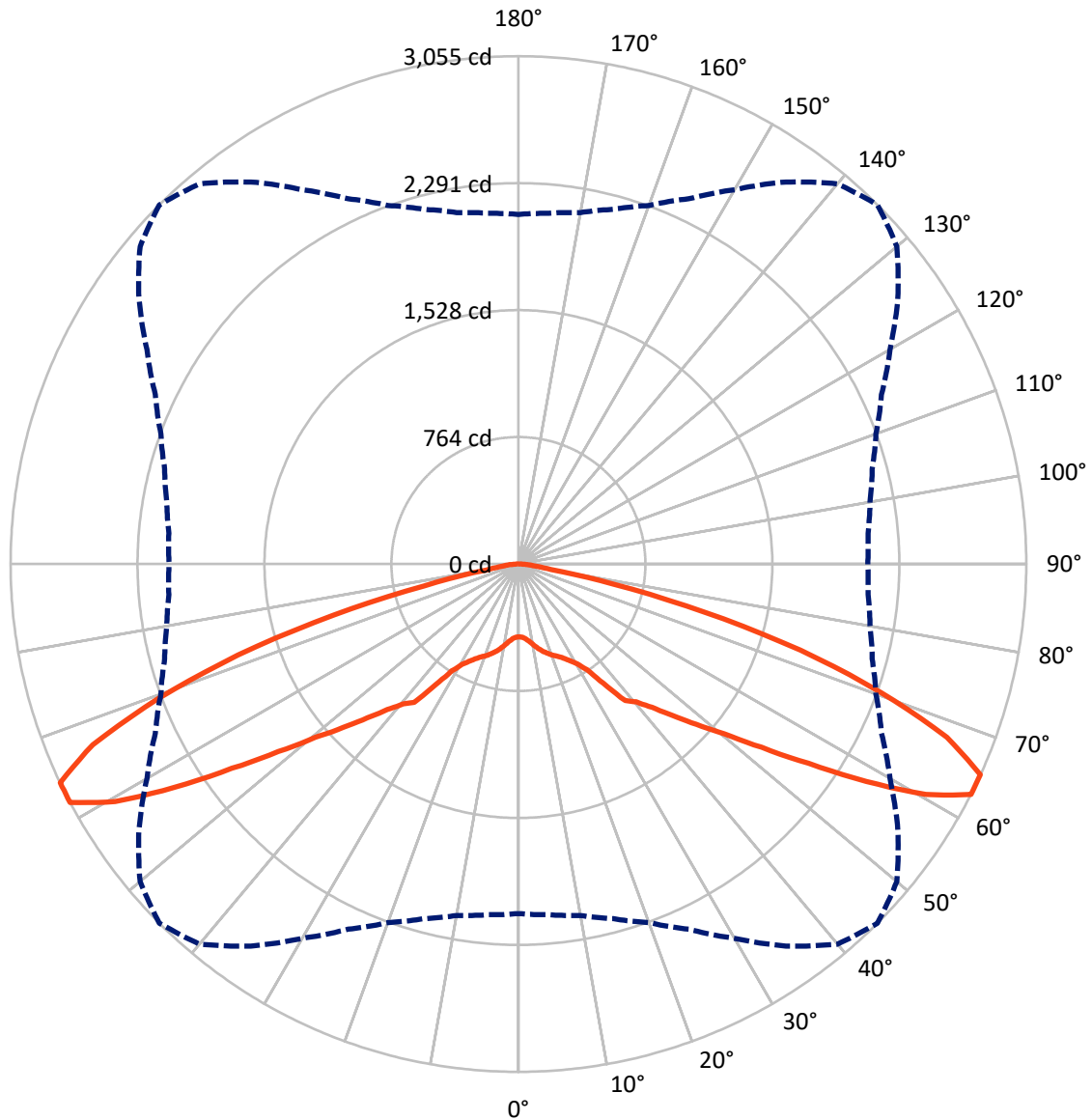
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3453.8	0.0	3453.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3453.8	0.0	3453.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6907.6	0.0	6907.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	0.6
10°-20°	155.2	2.2
20°-30°	298.2	4.3
30°-40°	573.6	8.3
40°-50°	998.3	14.5
50°-60°	1793.0	26.0
60°-70°	2198.0	31.8
70°-80°	775.1	11.2
80°-90°	71.7	1.0
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°	6907.6	100.0
0°-180°	6907.6	100.0



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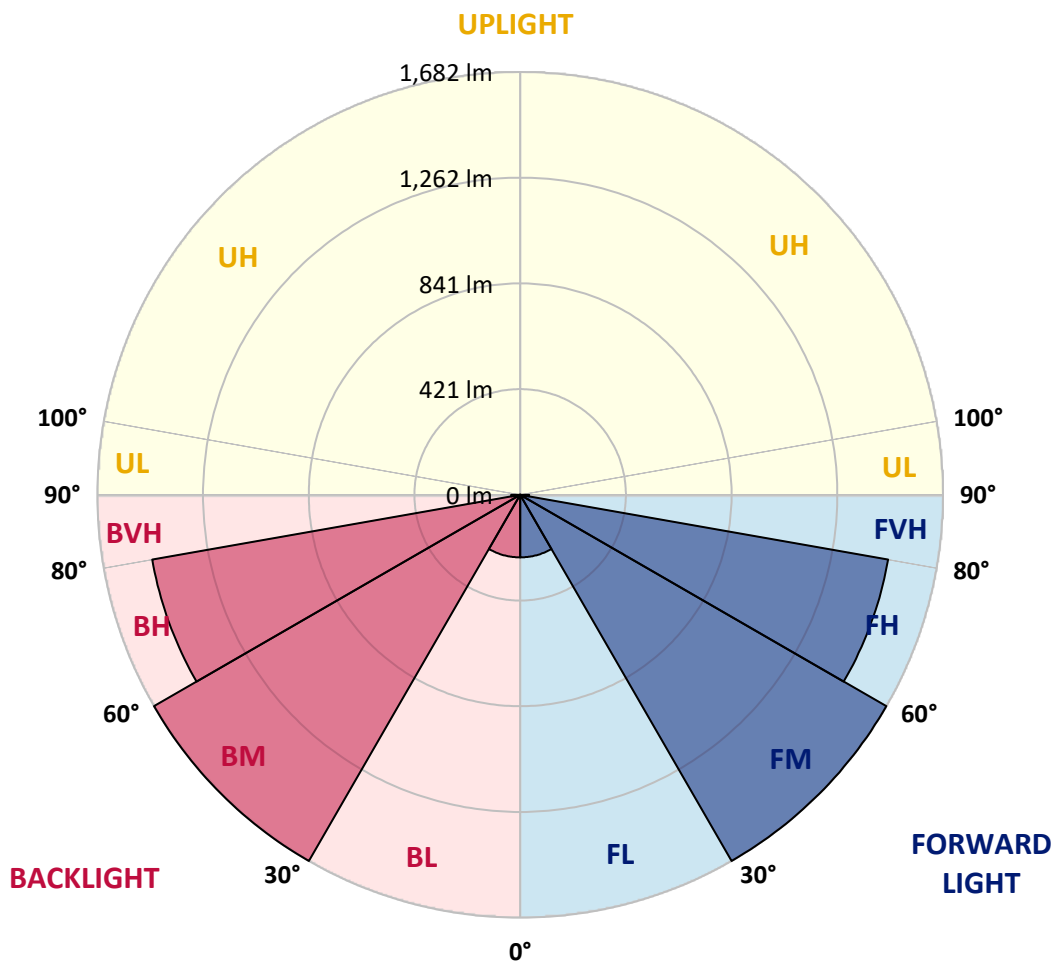
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.0	3.6			
FM (30°-60°)	1682.4	24.4			
FH (60°-80°)	1486.6	21.5			G1/1800
FVH (80°-90°)	35.8	0.5			G1/100
BL (0°-30°)	249.0	3.6	B1/500		
BM (30°-60°)	1682.4	24.4	B2/2500		
BH (60°-80°)	1486.6	21.5	B3/2500		G1/1800
BVH (80°-90°)	35.8	0.5			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°	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1
2.5°	443.3	443.3	442.6	441.8	441.8	441.8	441.1	441.1	441.8	440.3	440.3
5°	454.7	455.4	454.7	453.9	453.2	453.2	452.4	452.4	453.2	451.6	450.9
7.5°	475.8	476.5	475.0	474.3	473.5	472.8	472.0	471.2	472.0	469.7	469.7
10°	502.9	502.9	502.9	499.9	499.9	497.6	496.9	495.4	496.1	493.9	493.9
12.5°	530.1	530.1	529.3	527.8	527.0	525.5	524.0	524.0	522.5	519.5	518.0
15°	554.2	554.9	554.2	551.9	551.2	548.9	548.9	547.4	545.1	543.6	542.1
17.5°	576.8	577.6	575.3	574.5	572.3	570.8	569.3	568.5	567.0	564.7	564.0
20°	598.7	597.9	595.7	592.6	591.1	589.6	588.1	587.4	586.6	585.1	585.1
22.5°	619.8	619.8	617.5	613.0	610.0	608.5	606.2	604.7	603.2	602.4	603.9
25°	651.5	650.7	646.2	641.6	636.4	631.8	628.8	628.1	626.6	626.6	627.3
27.5°	692.2	690.7	683.9	677.8	671.8	665.8	662.0	659.0	658.2	657.5	657.5
30°	743.4	741.2	735.1	727.6	720.8	713.3	705.7	703.5	699.7	696.7	702.0
32.5°	841.5	843.0	830.9	815.8	800.7	786.4	773.6	763.8	757.8	758.5	758.5
35°	949.3	950.0	944.8	938.7	934.2	925.9	911.6	899.5	890.5	880.7	885.2
37.5°	996.0	996.8	992.3	991.5	994.5	999.8	1014.1	1024.7	1040.5	1042.8	1038.2
40°	1078.2	1074.4	1068.4	1066.9	1064.6	1072.2	1078.2	1083.5	1085.8	1090.3	1085.8
42.5°	1164.2	1162.7	1158.1	1152.9	1152.9	1154.4	1164.2	1172.5	1177.7	1178.5	1177.7
45°	1260.7	1258.4	1254.6	1253.9	1256.2	1262.9	1269.7	1280.3	1296.9	1297.6	1296.9
47.5°	1367.0	1368.5	1362.5	1364.7	1368.5	1379.8	1398.7	1416.0	1434.1	1440.9	1432.6
50°	1512.5	1507.2	1507.2	1505.0	1514.8	1531.4	1554.0	1574.3	1600.0	1606.0	1593.2
52.5°	1710.1	1698.7	1701.0	1695.0	1700.3	1715.3	1752.3	1783.9	1816.4	1832.2	1807.3
55°	1947.6	1928.7	1931.0	1937.0	1941.5	1967.2	2013.9	2050.1	2111.2	2116.5	2087.8
57.5°	2142.1	2136.8	2139.8	2154.2	2182.8	2227.3	2286.1	2373.6	2449.0	2467.1	2436.2
60°	2213.0	2216.7	2237.9	2275.6	2329.8	2409.0	2523.6	2660.1	2780.0	2816.2	2769.4
62.5°	2102.9	2118.0	2146.6	2209.2	2295.2	2424.1	2599.8	2805.6	2985.1	3055.2	2971.5
65°	1888.0	1897.8	1944.5	1998.1	2108.9	2256.7	2472.3	2740.0	2960.9	3053.7	2960.2
67.5°	1606.0	1624.9	1665.6	1731.9	1827.7	1977.7	2203.9	2477.6	2699.3	2780.7	2698.5
70°	1289.3	1297.6	1323.3	1375.3	1474.8	1607.5	1801.3	2046.3	2262.0	2313.3	2247.7
72.5°	894.2	910.8	932.7	980.2	1042.8	1155.1	1315.0	1495.2	1668.6	1774.9	1678.4
75°	385.3	363.4	411.7	459.2	536.1	640.1	765.3	913.1	1085.0	1155.9	1060.9
77.5°	115.4	114.6	122.1	135.7	162.9	215.6	302.4	401.9	534.6	580.6	498.4
80°	94.2	97.3	100.3	103.3	106.3	110.1	116.9	136.5	167.4	197.5	160.6
82.5°	79.9	83.7	92.0	96.5	98.8	99.5	99.5	98.8	95.0	93.5	92.7
85°	60.3	66.4	77.7	84.4	84.4	84.4	84.4	82.2	76.9	67.9	75.4
87.5°	20.4	27.1	45.2	48.3	49.8	46.0	48.3	49.0	40.7	30.9	39.2
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°	438.1	438.1	438.1	438.1	438.1	438.1	438.1	438.1
2.5°	440.3	440.3	440.3	441.1	440.3	440.3	440.3	440.3
5°	451.6	450.9	451.6	450.9	451.6	451.6	450.9	451.6
7.5°	469.0	469.0	469.7	469.7	469.0	469.0	469.0	469.0
10°	492.4	490.8	491.6	491.6	491.6	490.8	490.8	490.1
12.5°	516.5	515.0	515.0	515.0	515.0	514.2	515.0	515.0
15°	539.1	537.6	536.1	536.1	536.8	537.6	537.6	536.8
17.5°	561.0	559.5	557.2	557.2	556.4	558.0	559.5	558.7
20°	582.8	582.1	578.3	578.3	578.3	579.8	580.6	582.8
22.5°	604.7	603.9	600.9	600.2	600.9	603.9	606.2	606.2
25°	628.1	629.6	628.8	628.8	630.3	634.9	637.1	640.1
27.5°	661.3	664.3	665.0	668.0	668.8	674.1	677.8	682.4
30°	704.2	709.5	712.5	717.8	721.6	724.6	729.9	733.6
32.5°	763.8	776.6	791.7	809.0	816.6	830.1	836.2	837.7
35°	901.0	914.6	927.4	935.0	931.9	935.7	935.7	938.7
37.5°	1024.7	1011.1	999.8	997.5	991.5	989.2	990.0	992.3
40°	1082.0	1075.2	1070.7	1072.9	1069.9	1067.7	1069.2	1069.9
42.5°	1174.7	1164.2	1160.4	1159.6	1158.1	1159.6	1163.4	1161.9
45°	1283.3	1269.7	1264.4	1263.7	1261.4	1260.7	1262.2	1265.2
47.5°	1413.7	1397.1	1380.6	1375.3	1375.3	1370.8	1373.8	1369.3
50°	1573.6	1546.4	1529.1	1519.3	1513.3	1506.5	1512.5	1502.7
52.5°	1783.9	1745.5	1726.6	1713.8	1696.5	1697.2	1698.7	1695.0
55°	2049.4	2007.1	1970.2	1945.3	1934.7	1928.7	1927.2	1939.3
57.5°	2354.7	2280.1	2221.3	2177.5	2160.9	2138.3	2127.8	2127.8
60°	2645.0	2509.3	2392.4	2319.3	2265.0	2226.5	2200.9	2193.4
62.5°	2786.8	2580.9	2409.8	2289.1	2203.2	2148.1	2111.2	2101.4
65°	2725.7	2464.1	2262.7	2127.0	2027.5	1956.6	1913.6	1901.6
67.5°	2479.9	2206.2	1994.3	1857.8	1750.8	1673.9	1641.4	1627.9
70°	2059.2	1808.1	1624.1	1490.6	1379.1	1314.2	1269.7	1251.6
72.5°	1480.1	1289.3	1120.4	1005.8	905.5	871.6	811.3	805.3
75°	874.6	708.8	569.3	481.8	392.1	343.1	315.2	285.0
77.5°	355.9	254.1	190.8	144.0	123.7	112.3	107.1	105.6
80°	121.4	108.6	102.5	100.3	97.3	95.8	92.0	89.0
82.5°	95.8	95.0	92.0	91.2	88.2	83.7	76.2	71.6
85°	79.9	78.4	74.6	73.9	71.6	65.6	57.3	52.0
87.5°	45.2	41.5	37.7	38.5	36.2	31.7	23.4	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)