

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: P140444

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140444
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F03-LED-E1-5WQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6757.3 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

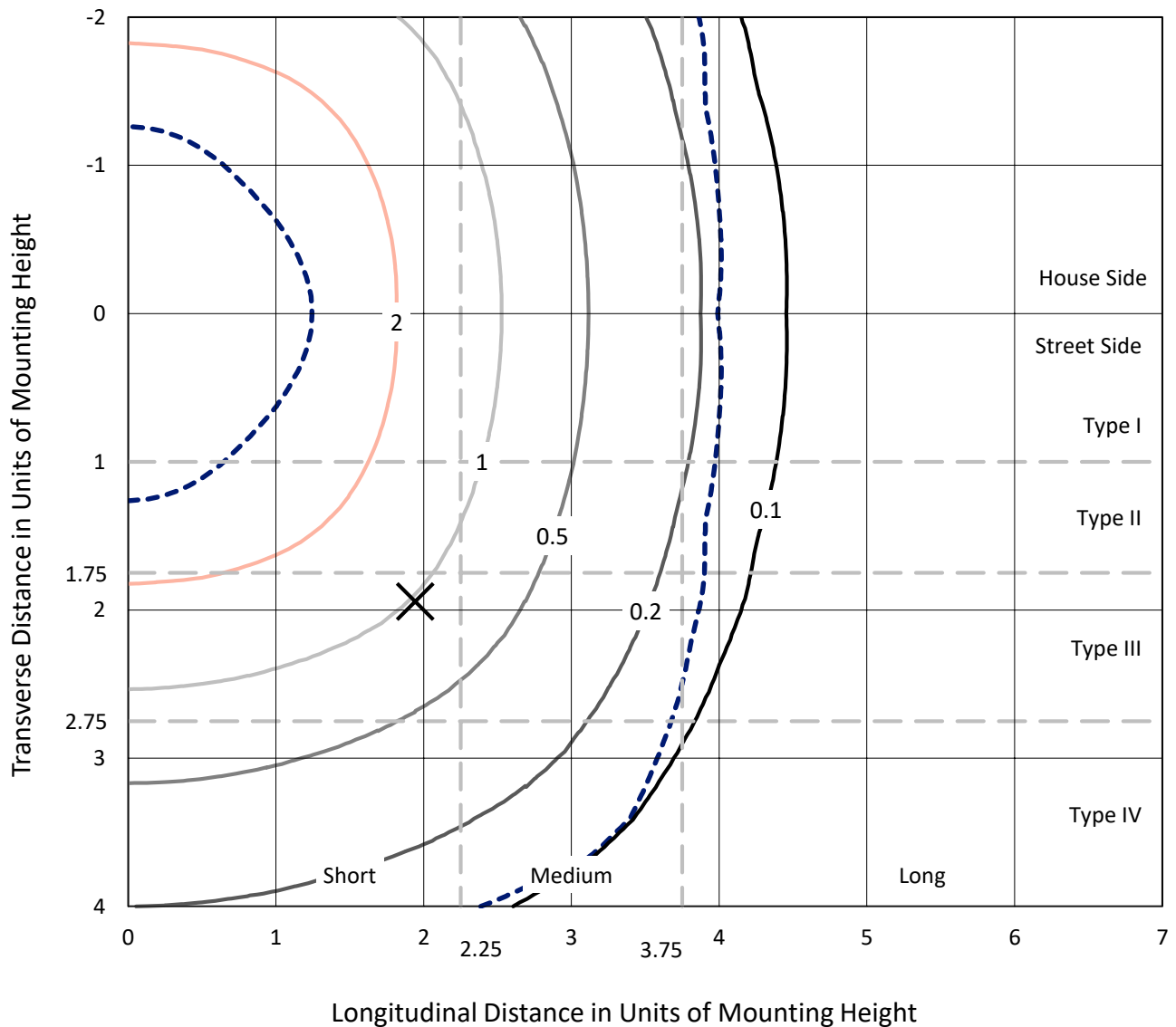
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140444
 CATALOG NUMBER: ECM-F03-LED-E1-5WQ-7030

Iso-Footcandle Lines of Horizontal Illumination

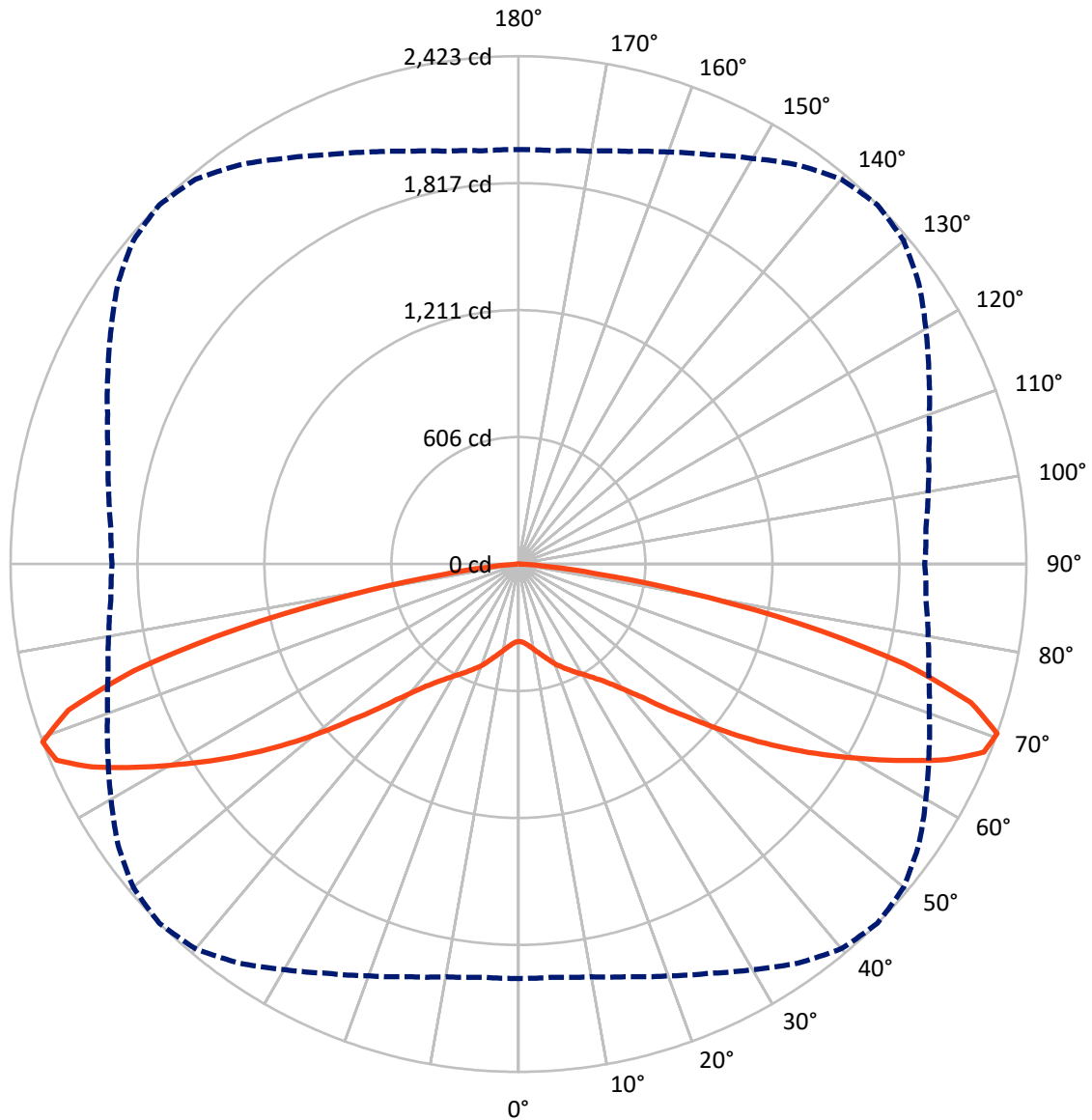
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P140444
CATALOG NUMBER: ECM-F03-LED-E1-5WQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: ECM-F03-LED-E1-5WQ-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3378.7	0.0	3378.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3378.7	0.0	3378.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6757.3	0.0	6757.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.6
10°-20°	130.9	1.9
20°-30°	257.1	3.8
30°-40°	425.4	6.3
40°-50°	744.7	11.0
50°-60°	1328.3	19.7
60°-70°	2050.6	30.3
70°-80°	1623.2	24.0
80°-90°	159.7	2.4
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°	6757.3	100.0
0°-180°	6757.3	100.0



REPORT NUMBER: P140444

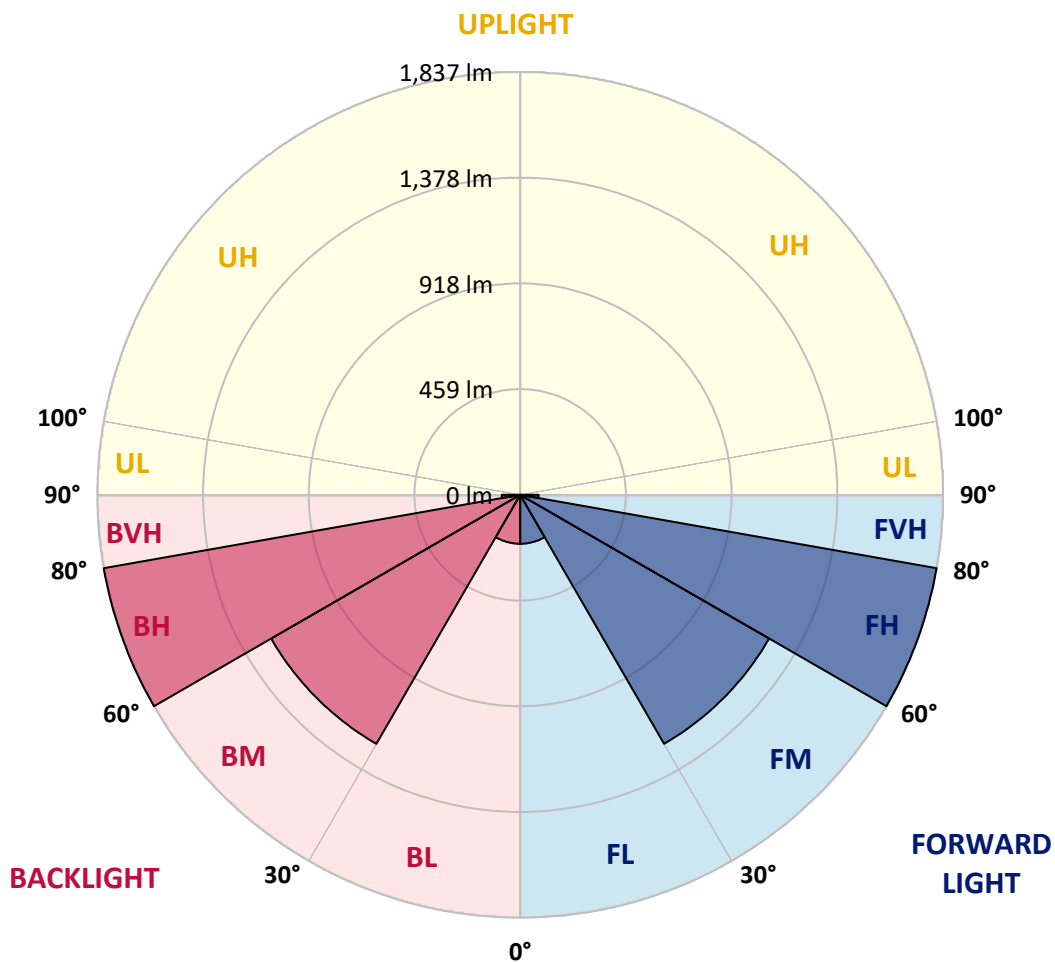
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.7	3.1			
FM	(30°-60°)	1249.2	18.5			
FH	(60°-80°)	1836.9	27.2			G2/5000
FVH	(80°-90°)	79.9	1.2			G1/100
BL	(0°-30°)	212.7	3.1	B1/500		
BM	(30°-60°)	1249.2	18.5	B2/2500		
BH	(60°-80°)	1836.9	27.2	B3/2500		G2/5000
BVH	(80°-90°)	79.9	1.2			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





REPORT NUMBER: P140444

CATALOG NUMBER: ECM-F03-LED-E1-5WQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	374.0	374.0	373.2	373.2	373.2	373.2	372.5	372.5	373.2	372.5	372.5
5°	383.0	383.8	383.8	383.0	383.0	383.0	383.0	383.0	383.8	383.0	383.0
7.5°	396.6	397.4	397.4	396.6	396.6	396.6	396.6	396.6	397.4	397.4	395.8
10°	413.2	413.9	413.9	413.2	413.2	413.9	413.9	413.9	414.7	414.7	413.9
12.5°	432.8	433.5	434.3	433.5	434.3	434.3	435.1	435.8	435.8	435.8	434.3
15°	455.4	457.7	456.2	456.2	456.9	457.7	457.7	459.9	459.2	458.4	457.7
17.5°	481.8	481.0	481.0	481.8	482.6	481.8	482.6	484.8	484.1	483.3	482.6
20°	506.7	506.7	506.7	505.9	507.4	507.4	508.2	508.9	508.9	510.5	508.2
22.5°	530.8	530.8	530.1	530.1	531.6	531.6	533.1	534.6	534.6	534.6	533.1
25°	553.4	553.4	554.2	553.4	554.2	554.9	556.4	558.0	558.7	558.7	558.7
27.5°	573.8	576.1	575.3	576.1	577.6	579.1	580.6	582.8	584.3	585.1	582.8
30°	599.4	599.4	598.7	599.4	600.9	603.2	606.2	610.0	610.0	610.7	610.7
32.5°	626.6	627.3	625.8	627.3	629.6	632.6	635.6	638.6	640.1	643.2	642.4
35°	662.0	659.7	660.5	662.8	664.3	667.3	671.1	676.3	679.3	680.9	679.3
37.5°	702.7	702.0	703.5	703.5	708.8	711.8	718.6	723.1	725.3	729.1	727.6
40°	754.0	757.0	757.8	760.0	763.0	769.1	776.6	784.2	788.7	791.7	792.4
42.5°	823.4	824.9	821.9	830.1	838.4	842.2	851.3	861.8	868.6	870.9	871.6
45°	908.6	908.6	913.1	918.4	928.9	936.5	946.3	963.6	969.6	977.9	977.9
47.5°	1010.4	1013.4	1013.4	1025.4	1033.7	1048.8	1067.7	1082.0	1094.8	1091.0	1103.8
50°	1128.0	1130.2	1138.5	1145.3	1159.6	1177.0	1194.3	1215.4	1234.3	1236.5	1238.8
52.5°	1250.9	1253.9	1260.7	1276.5	1293.9	1313.5	1345.1	1363.2	1381.3	1391.1	1389.6
55°	1391.9	1390.4	1401.7	1413.7	1439.4	1465.8	1492.2	1517.8	1536.6	1550.2	1549.5
57.5°	1539.7	1544.9	1557.8	1572.8	1594.7	1618.1	1649.7	1675.4	1706.3	1714.6	1702.5
60°	1711.6	1706.3	1719.1	1742.5	1762.1	1792.2	1820.1	1853.3	1875.2	1885.0	1881.2
62.5°	1887.2	1882.7	1892.5	1922.7	1946.1	1967.9	2006.4	2042.6	2060.7	2064.4	2057.6
65°	2016.2	2017.7	2033.5	2059.9	2096.9	2130.0	2173.0	2216.7	2245.4	2249.9	2234.8
67.5°	2046.3	2049.4	2071.2	2105.1	2151.1	2206.2	2270.3	2335.1	2384.1	2394.7	2372.8
70°	1977.0	1978.5	1999.6	2038.0	2090.8	2154.2	2234.1	2323.8	2395.4	2422.6	2398.5
72.5°	1834.5	1840.5	1857.8	1890.3	1931.7	1994.3	2071.2	2151.1	2222.0	2256.7	2256.7
75°	1577.4	1590.9	1599.2	1609.8	1646.0	1696.5	1759.1	1822.4	1885.0	1904.6	1849.5
77.5°	1125.7	1103.1	1108.4	1167.2	1158.9	1216.2	1285.6	1330.8	1386.6	1378.3	1299.1
80°	516.5	503.7	533.1	572.3	622.0	660.5	735.1	742.7	806.8	810.5	753.2
82.5°	103.3	108.6	129.7	159.8	199.1	242.0	281.2	314.4	358.1	366.4	340.1
85°	32.4	35.4	44.5	49.0	51.3	58.8	67.1	90.5	104.1	107.8	101.0
87.5°	6.8	10.6	17.3	19.6	20.4	19.6	19.6	18.8	15.1	12.1	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140444

CATALOG NUMBER: ECM-F03-LED-E1-5WQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	369.5	369.5	369.5	369.5	369.5	369.5	369.5	369.5
2.5°	371.7	371.7	372.5	372.5	372.5	371.7	371.0	371.7
5°	382.3	382.3	382.3	382.3	380.8	380.8	380.0	380.0
7.5°	395.8	395.1	395.1	394.3	393.6	393.6	392.8	393.6
10°	413.9	412.4	411.7	410.9	410.2	410.2	409.4	408.7
12.5°	433.5	432.8	432.0	430.5	429.8	428.3	428.3	428.3
15°	456.2	455.4	454.7	452.4	452.4	450.1	450.9	450.9
17.5°	481.0	479.5	477.3	476.5	475.8	473.5	473.5	473.5
20°	506.7	503.7	502.2	500.7	500.7	498.4	497.6	497.6
22.5°	531.6	528.5	525.5	524.0	522.5	521.8	520.3	519.5
25°	556.4	553.4	550.4	548.2	545.1	543.6	542.1	542.1
27.5°	581.3	578.3	573.8	570.8	567.8	564.7	563.2	564.0
30°	607.0	603.9	599.4	595.7	591.9	588.9	587.4	586.6
32.5°	639.4	635.6	630.3	626.6	619.8	616.8	615.3	616.0
35°	677.1	671.8	668.0	662.0	656.7	653.0	650.7	650.7
37.5°	725.3	720.8	717.0	711.0	703.5	699.0	695.9	698.2
40°	787.9	784.2	776.6	767.6	761.5	757.8	754.7	755.5
42.5°	867.8	860.3	853.5	848.2	839.2	833.9	825.6	828.6
45°	968.9	960.6	953.8	945.5	937.2	926.7	923.6	917.6
47.5°	1091.0	1085.0	1069.9	1062.4	1051.8	1036.7	1029.2	1023.2
50°	1226.0	1214.7	1204.1	1185.3	1173.2	1155.9	1149.1	1146.8
52.5°	1378.3	1359.5	1342.1	1324.8	1300.6	1284.1	1270.5	1273.5
55°	1529.1	1507.2	1482.4	1463.5	1444.7	1424.3	1410.0	1401.7
57.5°	1688.2	1664.1	1637.7	1610.5	1594.7	1570.6	1561.5	1557.0
60°	1851.8	1829.9	1803.6	1778.7	1756.8	1728.9	1713.8	1707.8
62.5°	2032.8	2002.6	1970.9	1940.0	1915.9	1895.5	1879.7	1869.1
65°	2199.4	2157.9	2125.5	2086.3	2059.9	2030.5	2010.9	2007.1
67.5°	2323.8	2259.7	2203.2	2152.7	2111.9	2075.7	2050.9	2041.1
70°	2332.1	2243.9	2160.2	2085.5	2026.0	1984.5	1951.3	1938.5
72.5°	2170.7	2061.4	1948.3	1875.2	1811.8	1754.5	1731.2	1725.9
75°	1765.9	1674.6	1580.4	1497.4	1453.7	1425.0	1405.4	1376.8
77.5°	1226.7	1143.1	1092.5	999.8	983.2	959.8	940.2	921.4
80°	686.9	613.8	557.2	499.1	463.7	444.1	423.7	412.4
82.5°	308.4	253.3	201.3	156.1	128.9	101.8	76.2	80.7
85°	76.9	64.8	49.8	41.5	37.7	34.7	27.9	24.9
87.5°	14.3	13.6	12.1	12.1	12.8	10.6	6.0	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)