

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: P180183

Luminaire Tested: **ICM-F03-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180183  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F03-LED-E1-5XQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7326.9 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

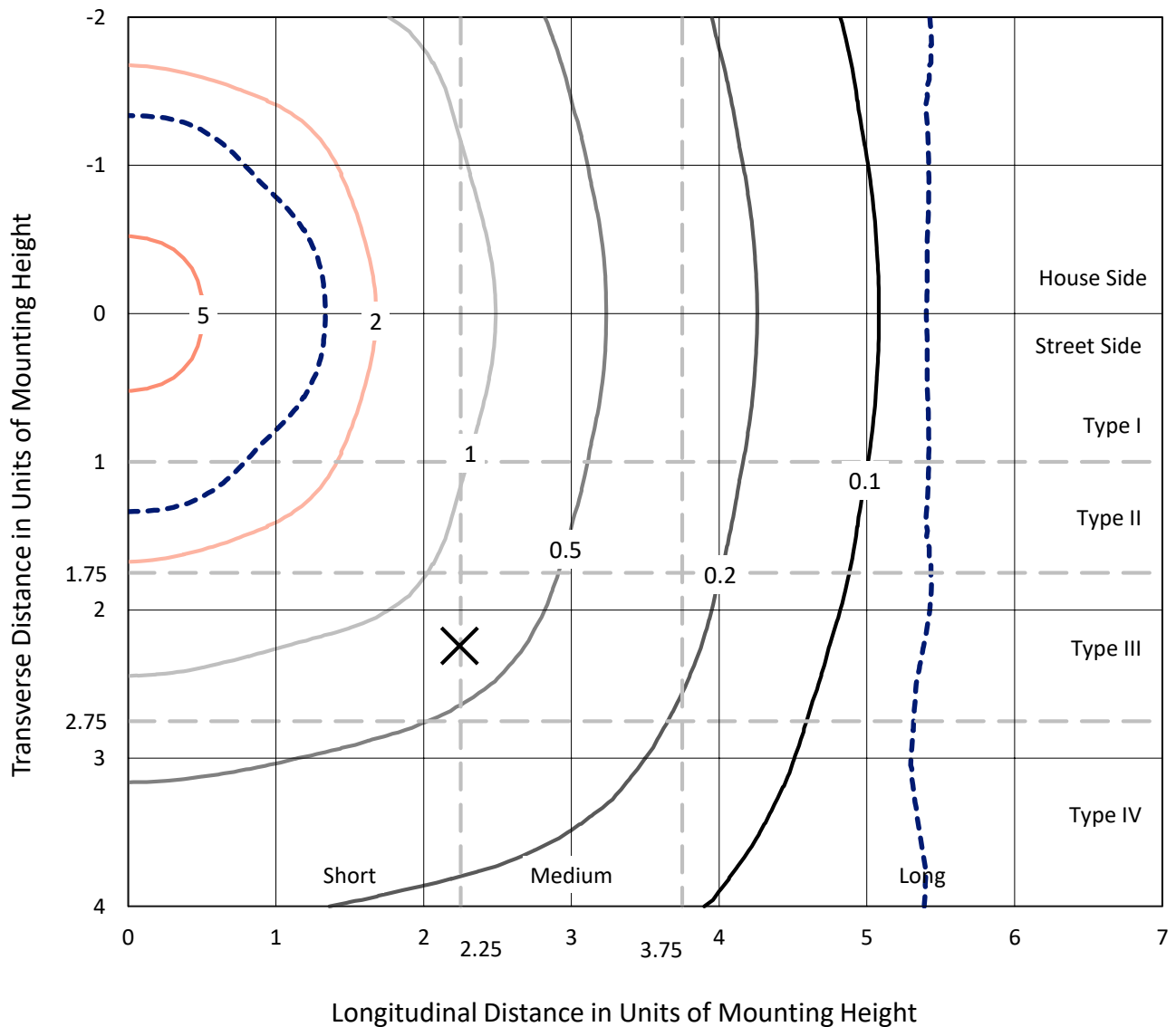
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180183  
 CATALOG NUMBER: ICM-F03-LED-E1-5XQ

### Iso-Footcandle Lines of Horizontal Illumination

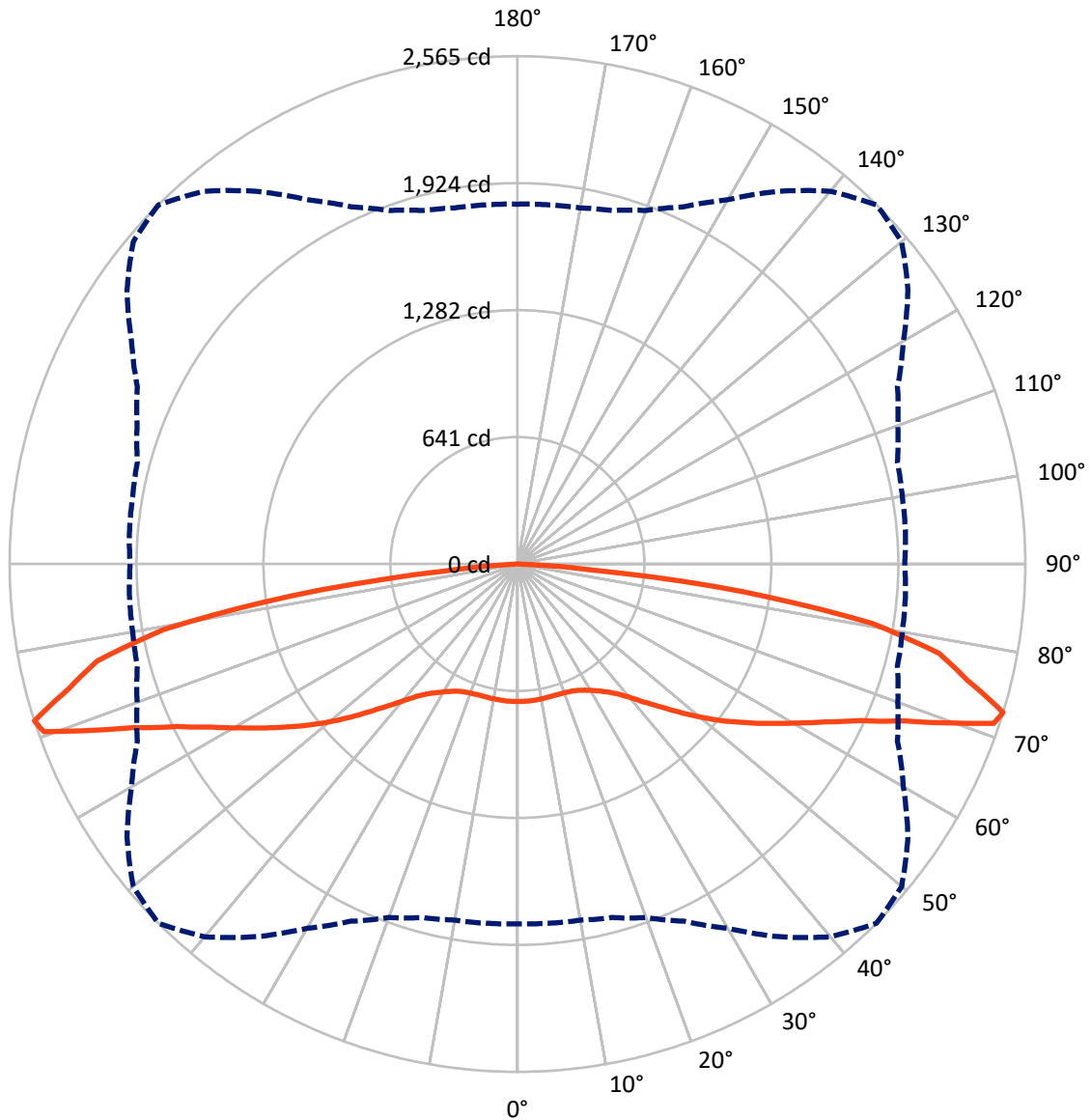
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P180183  
CATALOG NUMBER: ICM-F03-LED-E1-5XQ

### 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
<b>House Side</b>	Lumens	3663.5	0.0	3663.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3663.5	0.0	3663.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7326.9	0.0	7326.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	0.9
10°-20°	195.7	2.7
20°-30°	327.7	4.5
30°-40°	499.6	6.8
40°-50°	797.8	10.9
50°-60°	1226.7	16.7
60°-70°	1786.0	24.4
70°-80°	2011.9	27.5
80°-90°	415.3	5.7
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°	7326.9	100.0
0°-180°	7326.9	100.0



REPORT NUMBER: P180183

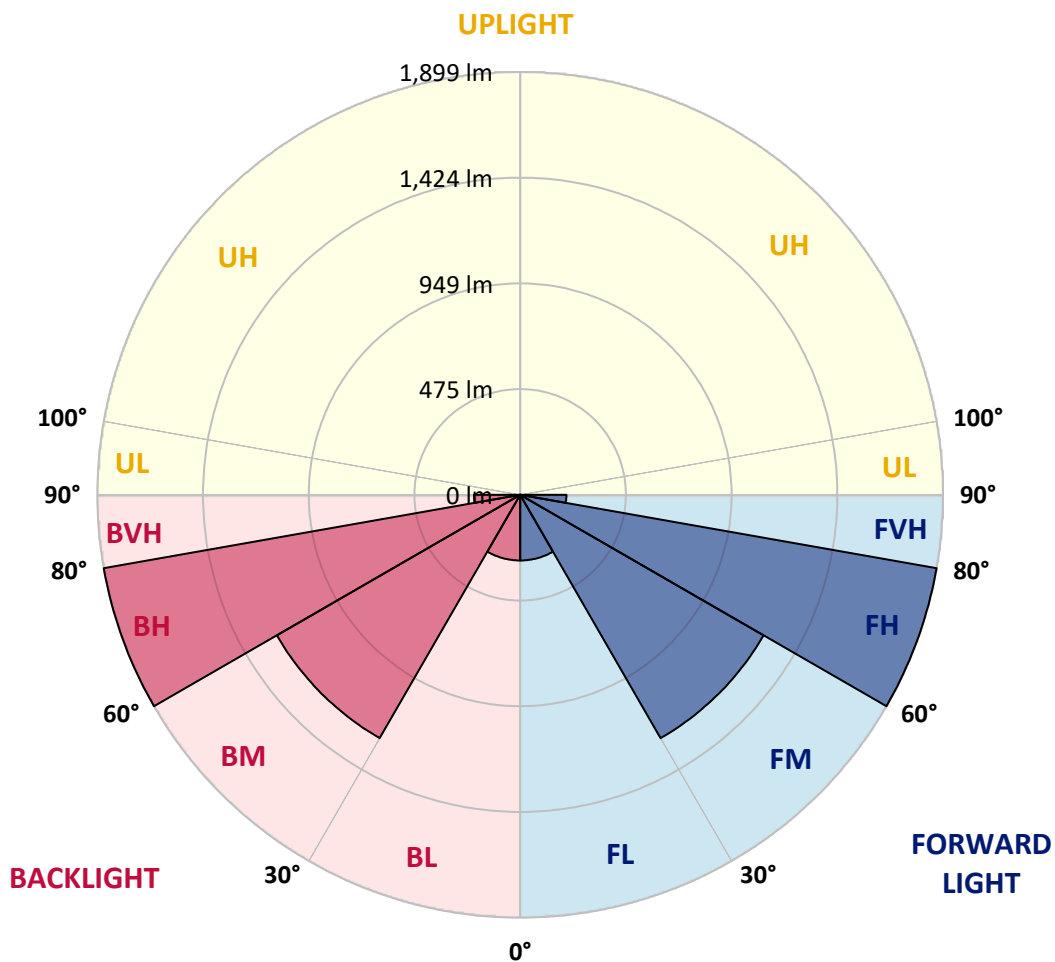
CATALOG NUMBER: ICM-F03-LED-E1-5XQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.8	4.0			
FM	(30°-60°)	1262.0	17.2			
FH	(60°-80°)	1899.0	25.9			G2/5000
FVH	(80°-90°)	207.7	2.8			G2/225
BL	(0°-30°)	294.8	4.0	B1/500		
BM	(30°-60°)	1262.0	17.2	B2/2500		
BH	(60°-80°)	1899.0	25.9	B3/2500		G2/5000
BVH	(80°-90°)	207.7	2.8			G2/225
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: P180183

CATALOG NUMBER: ICM-F03-LED-E1-5XQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	694.2	694.2	694.2	694.2	694.2	694.2	694.2	694.2	694.2	694.2	694.2
2.5°	695.4	695.7	695.6	695.2	695.4	695.2	694.8	694.6	693.2	694.1	695.2
5°	695.4	695.0	694.8	694.6	694.6	695.2	694.6	694.1	693.8	694.2	693.7
7.5°	695.0	694.2	693.8	693.6	693.8	694.1	693.4	692.7	693.2	692.7	691.9
10°	693.9	693.2	693.4	692.7	692.8	692.7	691.9	691.4	691.7	691.2	690.1
12.5°	694.2	693.2	693.1	692.7	692.5	692.3	691.4	690.4	690.5	690.2	689.2
15°	694.2	693.7	693.4	692.7	692.5	692.1	691.0	690.5	690.6	690.0	688.8
17.5°	694.6	694.2	694.2	693.2	692.8	692.7	691.4	690.7	691.4	690.1	689.4
20°	695.7	695.4	695.5	695.0	694.2	694.2	693.2	692.8	693.0	692.8	690.8
22.5°	698.1	698.1	698.4	698.2	698.1	698.2	697.5	697.5	697.7	697.7	695.9
25°	704.6	704.4	704.7	704.7	704.9	706.3	705.8	705.5	706.5	706.5	704.7
27.5°	716.8	716.5	716.9	717.3	718.2	719.9	719.5	720.1	721.7	721.3	719.7
30°	731.1	730.7	731.6	732.8	733.6	736.3	735.1	738.0	739.4	740.5	739.4
32.5°	751.8	751.8	753.5	754.3	756.1	758.7	759.2	761.4	763.2	765.0	763.7
35°	779.4	779.1	780.5	781.8	783.8	786.3	787.4	790.4	793.1	794.4	791.9
37.5°	821.7	819.5	822.1	822.9	824.6	825.1	827.8	831.6	834.5	834.2	832.5
40°	878.9	878.5	877.6	876.4	879.1	880.0	880.0	885.2	889.9	889.1	888.8
42.5°	945.7	944.0	942.8	942.8	944.4	944.7	950.7	954.5	957.8	958.5	957.8
45°	1017.5	1015.7	1016.2	1015.4	1015.9	1018.4	1022.0	1029.0	1035.2	1035.4	1032.1
47.5°	1094.7	1089.3	1093.5	1087.6	1091.3	1093.2	1101.8	1112.2	1122.9	1124.8	1122.0
50°	1173.0	1172.5	1172.1	1170.9	1172.7	1176.8	1187.4	1203.7	1214.1	1221.0	1216.4
52.5°	1258.6	1255.7	1254.4	1252.5	1254.2	1262.5	1277.2	1291.5	1310.1	1318.0	1311.6
55°	1342.0	1341.0	1336.0	1335.8	1339.5	1352.3	1368.5	1386.0	1406.1	1414.9	1412.7
57.5°	1427.5	1422.0	1420.5	1418.1	1425.5	1437.6	1457.3	1488.8	1509.8	1519.7	1514.0
60°	1511.3	1507.1	1503.8	1503.1	1508.0	1524.9	1553.3	1591.2	1617.0	1630.1	1620.9
62.5°	1601.1	1598.4	1594.6	1590.1	1600.8	1622.4	1657.8	1699.6	1737.9	1754.0	1739.9
65°	1712.9	1707.3	1703.1	1697.5	1706.1	1733.4	1777.8	1836.7	1888.0	1906.8	1896.8
67.5°	1830.7	1825.6	1826.0	1822.5	1837.9	1875.7	1932.8	2012.9	2081.7	2113.7	2094.9
70°	1933.6	1936.6	1937.3	1951.3	1977.9	2035.4	2130.6	2256.0	2360.2	2409.1	2389.0
71°	1903.3	1909.7	1919.5	1934.1	1979.7	2047.9	2177.9	2329.7	2454.2	2537.0	2509.2
72.5°	1817.3	1821.1	1826.2	1848.4	1900.1	1990.2	2124.1	2297.7	2457.6	2564.9	2532.7
75°	1692.8	1696.6	1698.2	1713.9	1760.8	1839.6	1962.1	2116.0	2257.1	2348.5	2339.5
77.5°	1505.1	1505.7	1519.2	1543.2	1595.9	1686.0	1815.0	1974.7	2107.4	2178.4	2133.3
80°	1080.9	1073.6	1087.4	1118.2	1183.5	1286.9	1419.0	1601.3	1748.6	1815.1	1745.1
82.5°	411.3	433.5	468.7	519.6	541.8	656.7	779.8	887.0	1011.0	1149.6	1114.9
85°	44.2	49.7	62.3	77.4	97.7	135.2	186.8	255.0	314.2	369.4	327.9
87.5°	16.6	16.9	18.8	21.7	22.1	23.1	24.6	28.7	26.7	23.1	18.6
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: P180183

CATALOG NUMBER: ICM-F03-LED-E1-5XQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	694.2	694.2	694.2	694.2	694.2	694.2	694.2	694.2
2.5°	694.2	694.4	694.2	694.4	694.4	693.7	693.9	693.4
5°	694.1	693.4	693.6	693.9	693.6	694.1	693.5	693.9
7.5°	693.0	691.9	692.3	692.3	691.9	692.5	692.1	691.9
10°	691.2	689.6	690.4	690.0	689.8	690.0	690.0	690.1
12.5°	689.4	688.5	688.6	688.5	688.2	688.8	688.7	688.8
15°	689.0	687.4	687.3	686.9	687.1	687.4	687.4	688.1
17.5°	688.7	686.7	686.5	686.1	686.3	687.1	687.3	686.9
20°	689.8	688.2	687.9	687.4	687.3	688.2	688.0	688.1
22.5°	695.2	693.2	693.0	691.5	691.0	691.4	691.2	691.2
25°	703.8	701.5	700.7	698.6	697.1	697.1	696.6	696.2
27.5°	719.4	715.9	715.2	713.4	711.4	711.7	710.5	710.3
30°	737.4	734.3	731.6	729.1	726.7	725.7	724.4	724.1
32.5°	761.0	757.6	754.3	751.3	747.7	746.4	744.1	743.0
35°	790.0	785.4	781.6	779.4	776.0	774.2	772.7	774.5
37.5°	830.5	824.9	823.1	820.5	818.2	815.5	816.1	815.5
40°	886.6	881.6	879.6	875.3	874.7	871.6	873.5	871.6
42.5°	955.9	946.7	945.3	941.9	940.7	939.0	939.7	938.4
45°	1031.4	1023.1	1021.6	1016.0	1016.2	1012.1	1013.7	1013.7
47.5°	1116.2	1107.5	1100.5	1096.4	1094.9	1092.4	1093.8	1093.6
50°	1203.7	1192.0	1184.2	1176.3	1172.8	1173.8	1171.1	1175.6
52.5°	1297.8	1280.4	1269.2	1261.8	1255.3	1256.6	1256.9	1258.2
55°	1395.2	1372.8	1356.8	1347.0	1341.0	1341.4	1343.2	1344.7
57.5°	1493.0	1465.2	1443.4	1428.8	1424.9	1426.6	1426.6	1426.4
60°	1594.6	1561.2	1533.0	1516.5	1513.0	1512.1	1519.5	1517.0
62.5°	1703.6	1663.5	1634.3	1613.2	1608.2	1611.7	1618.4	1616.8
65°	1848.2	1792.8	1755.1	1734.2	1725.8	1729.2	1738.2	1737.9
67.5°	2034.6	1957.0	1907.4	1880.5	1874.3	1878.5	1883.5	1888.4
70°	2313.4	2202.6	2131.5	2073.4	2048.5	2043.6	2048.7	2048.8
71°	2411.5	2284.2	2171.2	2100.1	2059.3	2042.0	2043.3	2034.6
72.5°	2407.5	2250.6	2118.3	2044.1	1987.3	1973.4	1966.7	1956.3
75°	2245.2	2103.9	1989.2	1908.1	1853.4	1837.1	1825.2	1824.6
77.5°	2036.2	1931.9	1805.4	1719.6	1652.9	1625.9	1613.8	1613.4
80°	1636.8	1480.8	1388.2	1336.6	1256.2	1232.9	1208.4	1199.1
82.5°	989.9	773.5	628.9	558.9	520.1	428.3	384.4	363.6
85°	230.5	163.8	112.9	74.1	53.4	42.4	32.7	28.8
87.5°	15.5	12.3	11.0	8.8	6.7	6.5	4.1	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)