

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: P140606

Luminaire Tested: **ECM-F03-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140606
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F03-LED-E1-5XQ-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7576.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

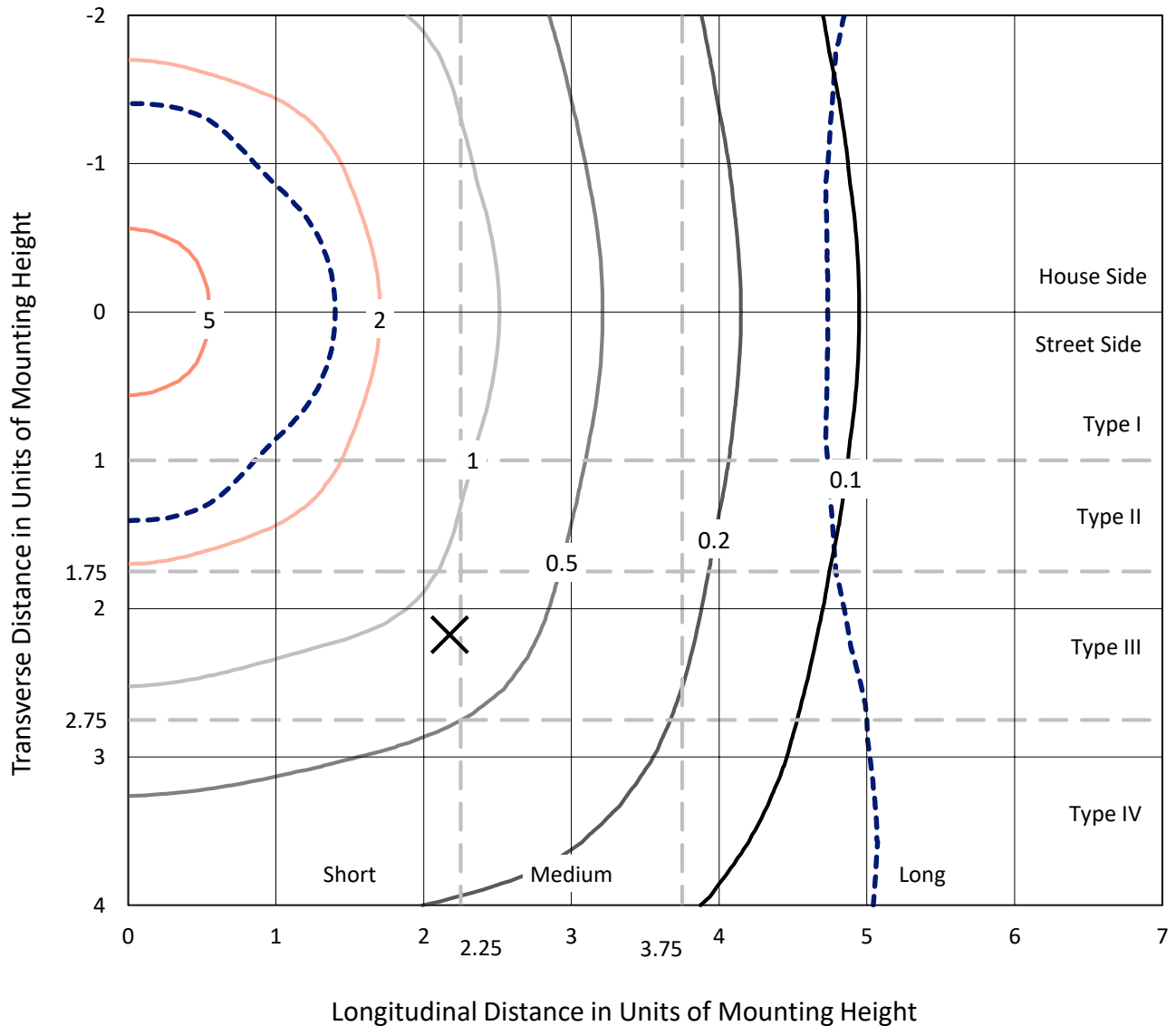
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140606
 CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

Iso-Footcandle Lines of Horizontal Illumination

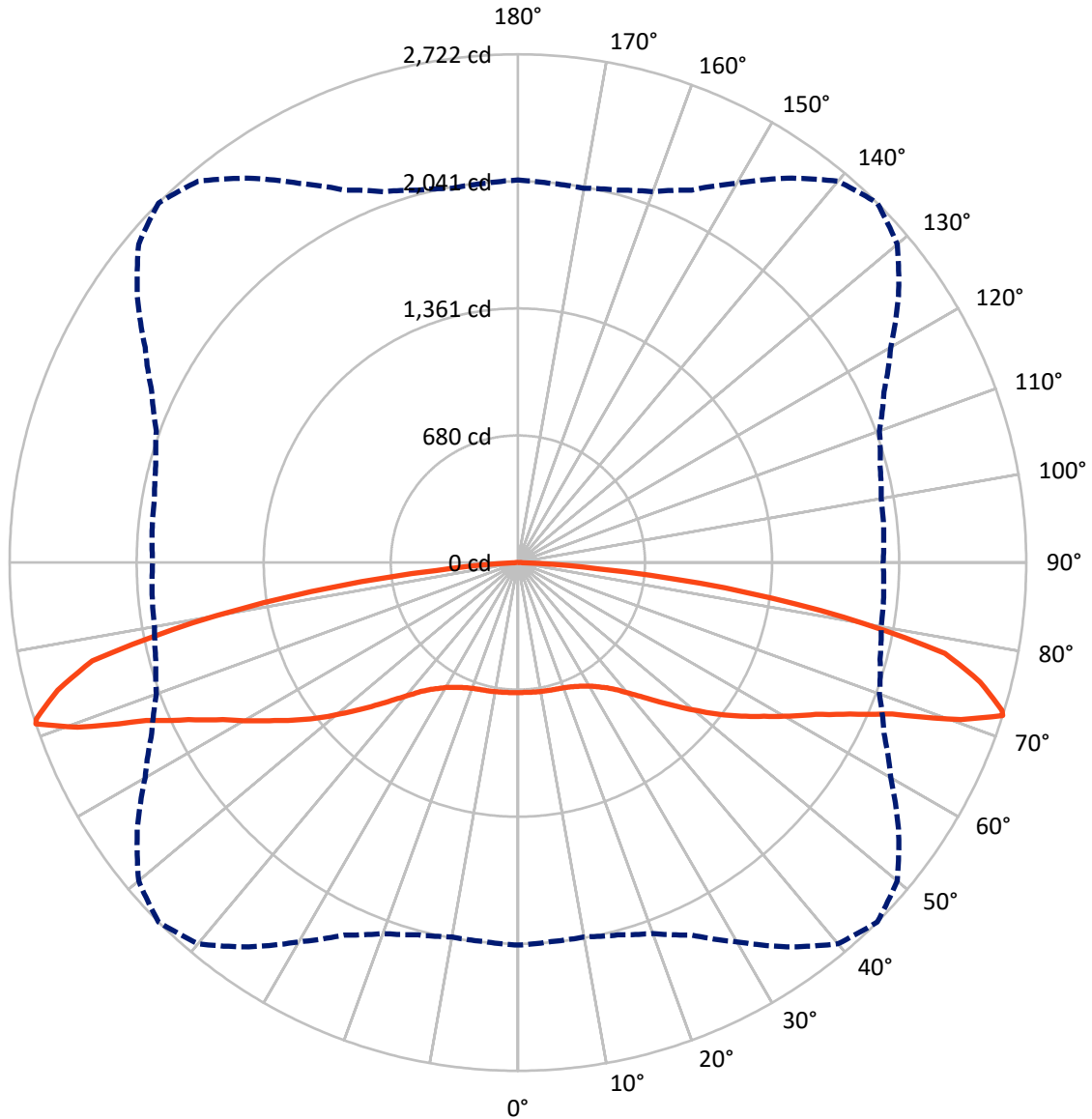
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140606
CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P140606

CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3788.4	0.0	3788.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3788.4	0.0	3788.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7576.8	0.0	7576.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	0.9
10°-20°	201.0	2.7
20°-30°	340.1	4.5
30°-40°	517.4	6.8
40°-50°	819.2	10.8
50°-60°	1255.4	16.6
60°-70°	1843.1	24.3
70°-80°	2090.8	27.6
80°-90°	442.9	5.8
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°	7576.8	100.0
0°-180°	7576.8	100.0



REPORT NUMBER: P140606

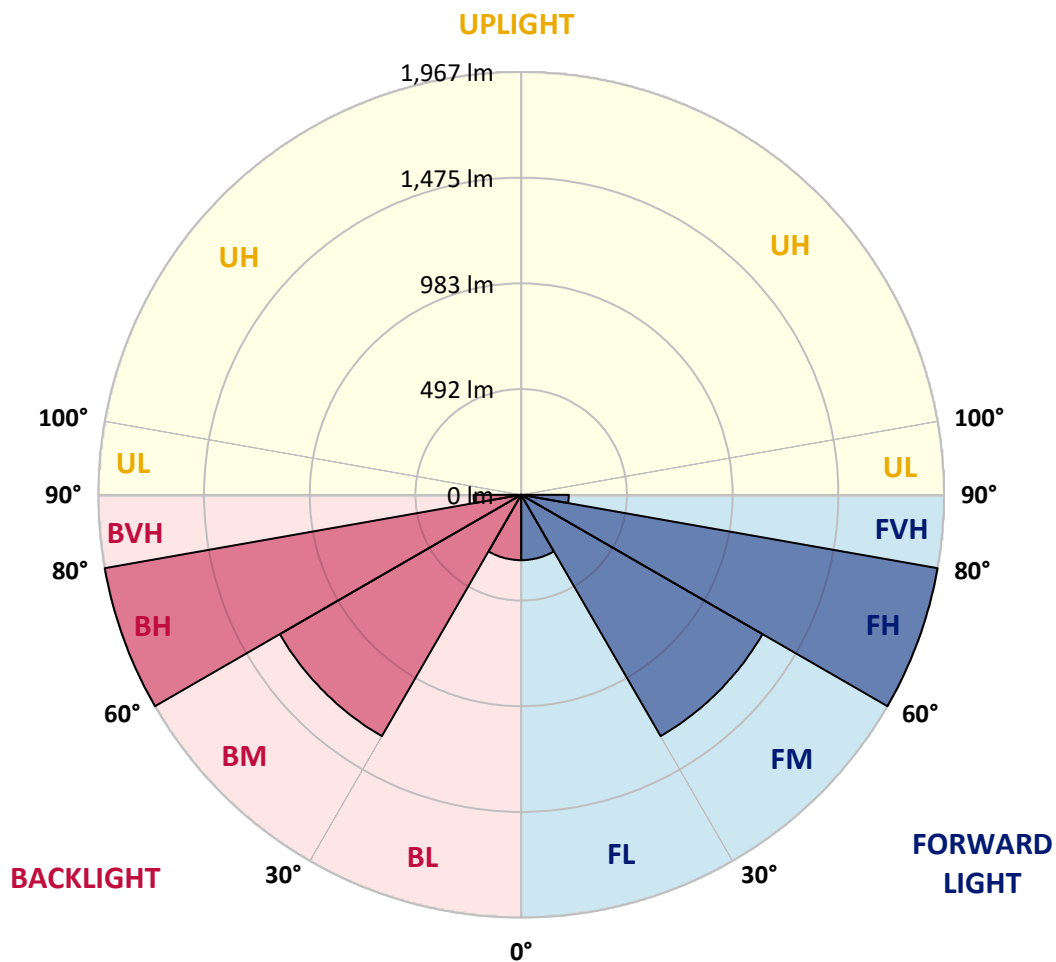
CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.9	4.0			
FM (30°-60°)	1296.1	17.1			
FH (60°-80°)	1966.9	26.0			G2/5000
FVH (80°-90°)	221.4	2.9			G2/225
BL (0°-30°)	303.9	4.0	B1/500		
BM (30°-60°)	1296.1	17.1	B2/2500		
BH (60°-80°)	1966.9	26.0	B3/2500		G2/5000
BVH (80°-90°)	221.4	2.9			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: P140606

CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	696.3	696.3	696.3	696.3	696.3	696.3	696.3	696.3	696.3	696.3	696.3
2.5°	698.8	699.7	698.8	698.0	698.0	697.1	697.1	697.1	698.0	696.3	696.3
5°	700.5	701.4	700.5	698.8	698.8	698.8	698.0	698.0	698.8	698.0	698.0
7.5°	703.1	703.9	703.1	701.4	701.4	700.5	699.7	699.7	701.4	699.7	699.7
10°	705.6	707.3	705.6	703.9	703.9	703.1	702.2	702.2	703.1	701.4	701.4
12.5°	709.8	709.8	709.0	708.2	708.2	707.3	706.5	705.6	704.8	703.9	703.1
15°	713.2	714.1	712.4	711.5	710.7	709.8	709.0	709.0	707.3	706.5	706.5
17.5°	717.5	718.3	716.6	714.9	714.9	713.2	712.4	712.4	710.7	709.8	709.0
20°	721.7	722.6	720.9	720.0	719.2	718.3	716.6	717.5	716.6	714.9	714.9
22.5°	726.8	726.8	725.9	725.1	725.1	724.2	723.4	725.1	723.4	723.4	722.6
25°	731.9	732.7	731.9	731.9	732.7	732.7	733.6	735.3	735.3	734.4	733.6
27.5°	742.9	742.9	742.9	742.9	745.4	745.4	746.3	748.8	749.7	749.7	749.7
30°	757.3	758.1	757.3	757.3	759.8	760.7	763.2	765.8	767.5	767.5	768.3
32.5°	778.5	777.6	778.5	780.2	781.9	783.5	786.1	790.3	792.9	793.7	793.7
35°	805.6	806.4	805.6	806.4	809.8	812.3	814.9	820.0	821.7	823.4	824.2
37.5°	845.4	847.9	846.2	846.2	850.5	852.2	855.5	859.8	863.2	864.9	864.0
40°	903.0	902.1	900.4	901.3	902.1	903.8	907.2	915.7	919.9	919.9	919.9
42.5°	969.1	969.9	967.4	966.5	967.4	969.1	974.1	980.9	987.7	986.0	986.8
45°	1044.4	1038.5	1040.2	1038.5	1039.4	1045.3	1053.8	1057.2	1063.9	1063.9	1065.6
47.5°	1118.1	1115.6	1114.8	1113.9	1116.4	1122.4	1132.5	1143.6	1149.5	1152.9	1155.4
50°	1201.2	1196.9	1196.1	1196.9	1197.8	1199.5	1218.9	1230.0	1244.4	1246.9	1246.0
52.5°	1281.6	1278.2	1276.5	1276.5	1279.9	1285.9	1306.2	1324.0	1340.1	1350.2	1346.0
55°	1368.9	1368.9	1363.8	1362.1	1367.2	1373.1	1401.1	1421.4	1444.3	1451.9	1440.0
57.5°	1458.7	1457.8	1450.2	1447.7	1451.9	1467.1	1490.9	1522.2	1546.8	1553.5	1546.8
60°	1546.8	1546.8	1542.5	1540.8	1545.1	1563.7	1592.5	1627.2	1656.9	1669.6	1658.6
62.5°	1647.6	1647.6	1636.6	1641.6	1647.6	1662.0	1698.4	1743.3	1783.1	1789.9	1779.7
65°	1761.9	1767.0	1758.5	1756.8	1764.5	1791.6	1833.1	1889.8	1936.4	1954.2	1939.0
67.5°	1936.4	1928.8	1918.6	1914.4	1926.2	1951.7	2002.5	2077.0	2145.6	2162.6	2144.8
70°	2117.7	2110.1	2106.7	2120.2	2145.6	2199.0	2276.9	2381.1	2476.8	2517.5	2480.2
72°	2048.2	2038.1	2035.5	2064.3	2113.5	2200.7	2344.7	2512.4	2664.9	2721.7	2651.3
72.5°	2012.7	2004.2	2003.3	2030.4	2083.8	2171.9	2313.4	2486.2	2649.7	2711.5	2636.1
75°	1868.6	1860.2	1868.6	1899.1	1952.5	2047.4	2191.4	2353.2	2500.6	2557.3	2483.6
77.5°	1669.6	1654.3	1662.0	1704.3	1763.6	1867.0	2019.4	2210.9	2353.2	2337.9	2228.7
80°	1332.4	1298.6	1335.0	1347.7	1415.5	1484.9	1632.3	1717.9	1767.0	1769.5	1691.6
82.5°	581.9	595.5	641.2	679.4	727.6	808.1	867.4	959.7	1067.3	1117.3	1057.2
85°	38.1	47.4	75.4	89.8	124.5	151.6	217.7	316.8	382.0	437.1	368.5
87.5°	6.8	9.3	16.9	20.3	22.0	24.6	24.6	33.9	35.6	28.8	32.2
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: P140606

CATALOG NUMBER: ECM-F03-LED-E1-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	696.3	696.3	696.3	696.3	696.3	696.3	696.3	696.3
2.5°	696.3	696.3	697.1	696.3	696.3	696.3	695.4	695.4
5°	697.1	697.1	698.0	698.0	697.1	697.1	697.1	697.1
7.5°	699.7	698.8	699.7	699.7	698.8	698.8	698.0	698.8
10°	700.5	700.5	701.4	701.4	700.5	700.5	700.5	700.5
12.5°	703.1	703.1	703.1	703.9	703.1	703.1	703.9	703.1
15°	705.6	704.8	704.8	704.8	704.8	705.6	705.6	706.5
17.5°	708.2	708.2	707.3	708.2	708.2	709.0	709.0	709.0
20°	713.2	712.4	710.7	712.4	712.4	712.4	712.4	713.2
22.5°	720.9	719.2	717.5	717.5	716.6	717.5	716.6	716.6
25°	731.9	729.3	726.8	725.9	725.1	724.2	723.4	724.2
27.5°	748.0	744.6	741.2	739.5	738.6	737.0	736.1	736.1
30°	765.8	763.2	758.1	756.4	753.9	751.4	751.4	750.5
32.5°	792.9	789.5	783.5	781.0	776.8	774.2	773.4	773.4
35°	820.8	816.6	814.0	810.7	805.6	803.0	802.2	802.2
37.5°	863.2	858.1	854.7	850.5	849.6	846.2	846.2	846.2
40°	918.2	914.0	909.8	906.4	903.8	901.3	897.9	897.9
42.5°	986.0	979.2	976.7	972.4	969.1	966.5	964.8	964.8
45°	1060.5	1054.6	1051.2	1045.3	1044.4	1042.8	1039.4	1039.4
47.5°	1144.4	1135.9	1129.2	1127.5	1123.2	1119.0	1117.3	1118.1
50°	1235.9	1221.5	1212.2	1212.2	1207.1	1201.2	1202.0	1201.2
52.5°	1329.9	1313.8	1302.0	1293.5	1287.6	1286.7	1287.6	1286.7
55°	1424.8	1407.8	1393.4	1384.1	1378.2	1372.3	1371.4	1371.4
57.5°	1523.0	1501.9	1479.0	1470.5	1464.6	1461.2	1461.2	1462.1
60°	1634.0	1599.3	1570.5	1559.5	1555.2	1556.9	1556.1	1556.9
62.5°	1746.7	1706.9	1673.0	1660.3	1654.3	1653.5	1660.3	1662.8
65°	1889.0	1839.8	1801.7	1778.0	1778.0	1775.5	1783.1	1779.7
67.5°	2074.5	2005.0	1958.4	1920.3	1921.2	1923.7	1934.7	1933.9
70°	2390.4	2267.6	2181.2	2116.0	2090.6	2073.6	2070.3	2070.3
72°	2487.9	2304.9	2162.6	2060.1	2007.6	1975.4	1966.1	1955.9
72.5°	2462.4	2274.4	2130.4	2023.7	1969.5	1937.3	1922.9	1910.2
75°	2302.4	2092.3	1935.6	1823.8	1763.6	1724.6	1717.0	1711.1
77.5°	2031.3	1844.9	1683.1	1567.1	1506.9	1457.0	1436.6	1434.9
80°	1566.2	1398.5	1274.0	1183.4	1129.2	1091.9	1093.6	1081.7
82.5°	924.2	782.7	676.0	554.8	475.2	429.5	400.7	397.3
85°	271.9	184.7	117.7	84.7	61.0	45.7	33.9	30.5
87.5°	24.6	19.5	16.1	13.6	12.7	11.0	6.8	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)