

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: P140644

Luminaire Tested: **EMM-F03-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140644
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: EMM-F03-LED-E1-5XQ-7030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6744.2 lumens
Efficiency: N/A
Efficacy: 86.1 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

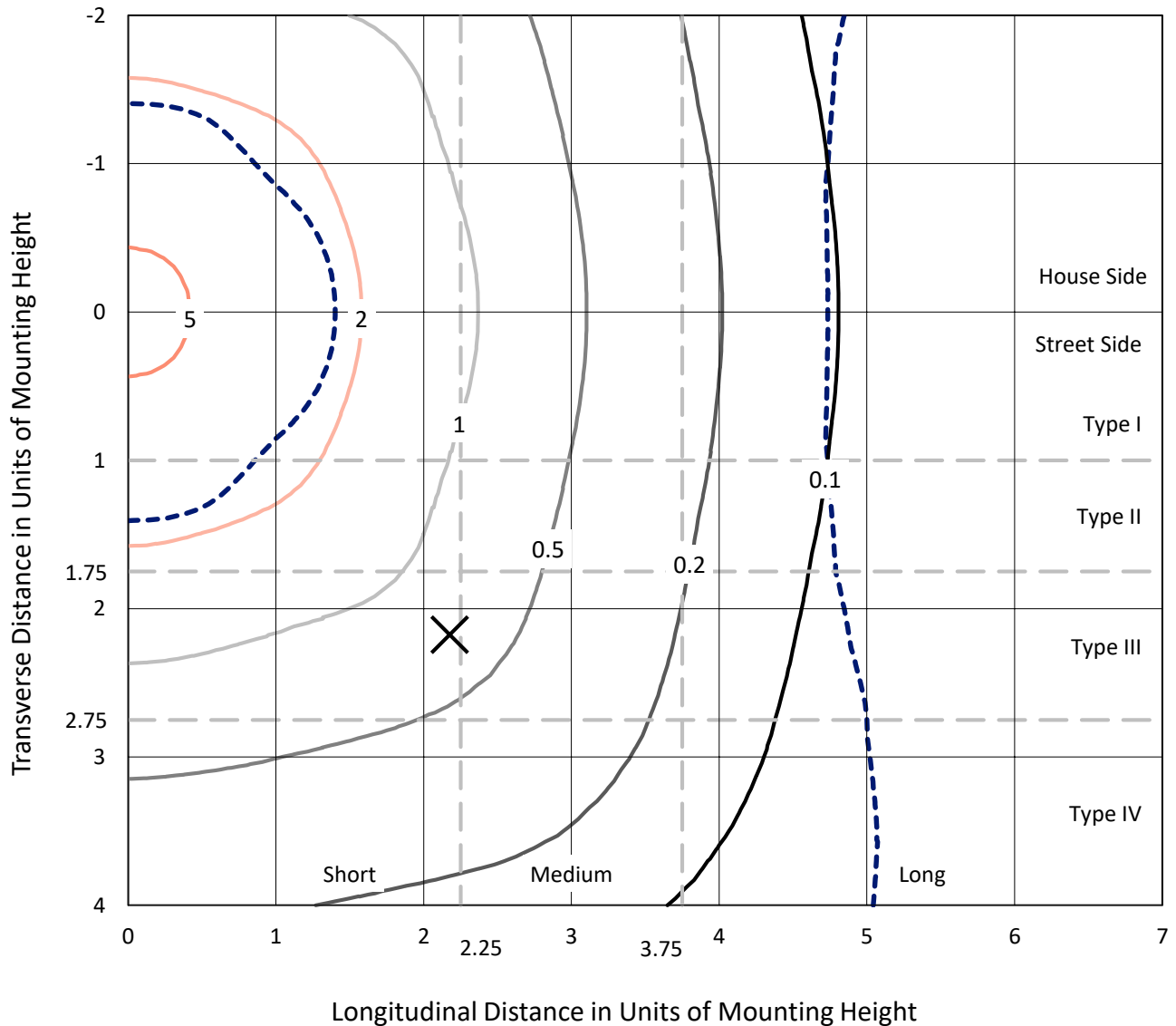
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

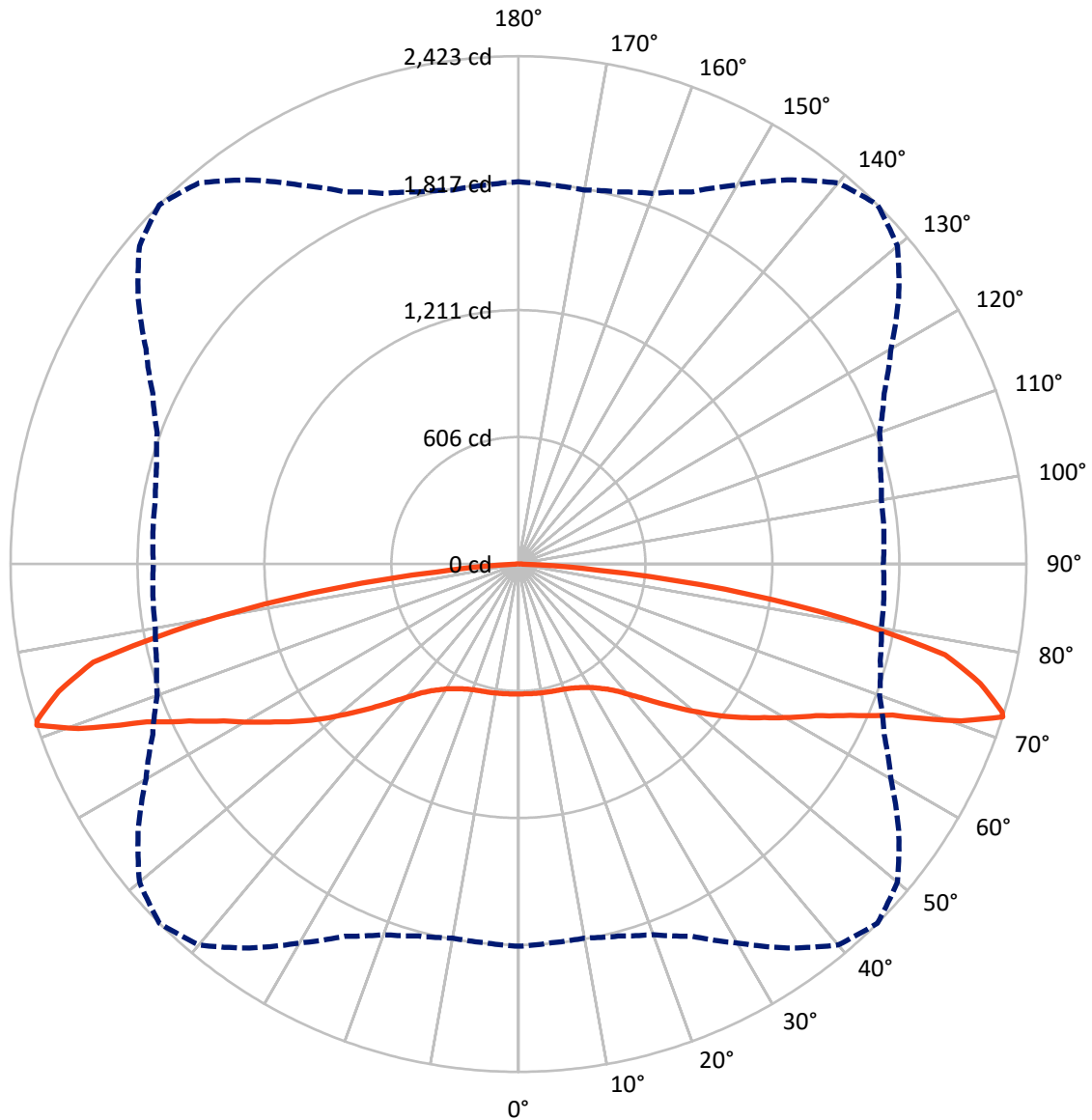
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3372.1	0.0	3372.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3372.1	0.0	3372.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	6744.2	0.0	6744.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	0.9
10°-20°	178.9	2.7
20°-30°	302.7	4.5
30°-40°	460.6	6.8
40°-50°	729.2	10.8
50°-60°	1117.5	16.6
60°-70°	1640.6	24.3
70°-80°	1861.0	27.6
80°-90°	394.2	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°	6744.2	100.0
0°-180°	6744.2	100.0



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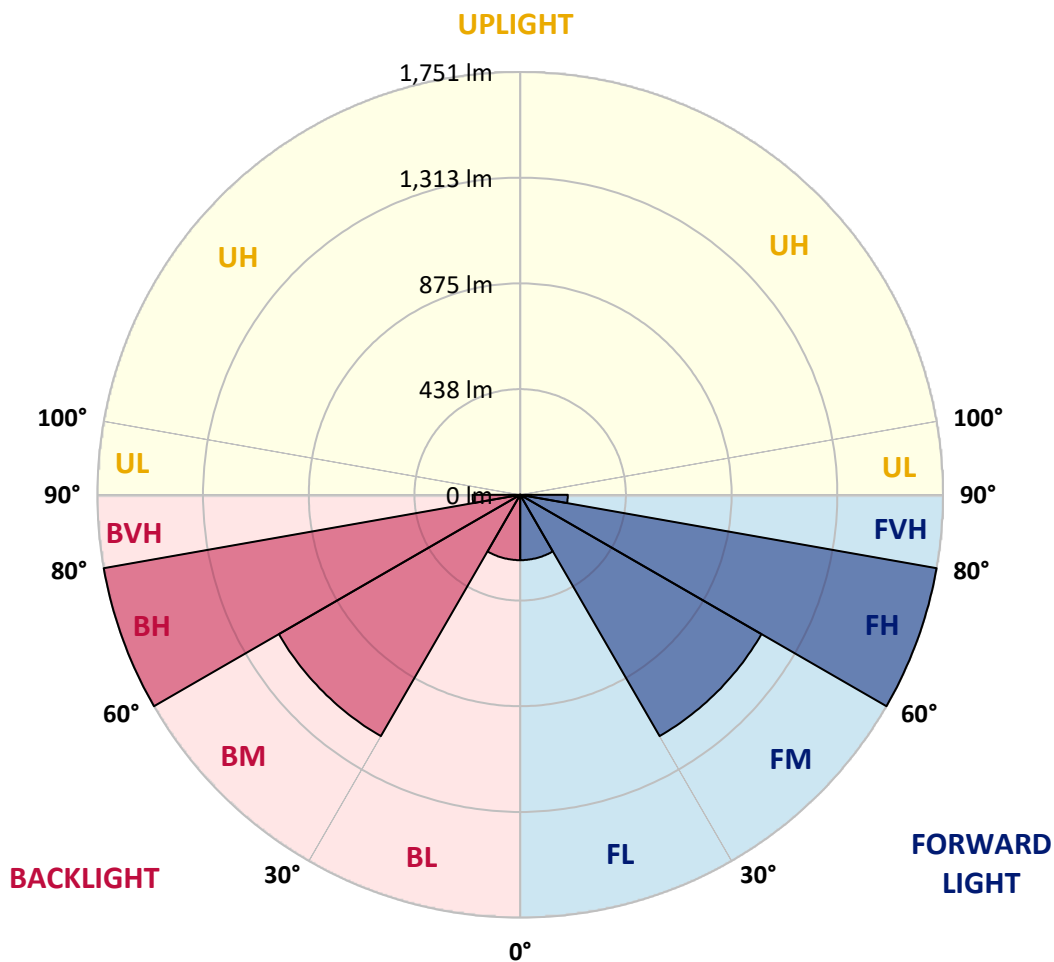
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.5	4.0			
FM (30°-60°)	1153.6	17.1			
FH (60°-80°)	1750.8	26.0			G1/1800
FVH (80°-90°)	197.1	2.9			G2/225
BL (0°-30°)	270.5	4.0	B1/500		
BM (30°-60°)	1153.6	17.1	B2/2500		
BH (60°-80°)	1750.8	26.0	B3/2500		G1/1800
BVH (80°-90°)	197.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8
2.5°	622.0	622.8	622.0	621.3	621.3	620.5	620.5	620.5	621.3	619.8	619.8
5°	623.6	624.3	623.6	622.0	622.0	622.0	621.3	621.3	622.0	621.3	621.3
7.5°	625.8	626.6	625.8	624.3	624.3	623.6	622.8	622.8	624.3	622.8	622.8
10°	628.1	629.6	628.1	626.6	626.6	625.8	625.1	625.1	625.8	624.3	624.3
12.5°	631.8	631.8	631.1	630.3	630.3	629.6	628.8	628.1	627.3	626.6	625.8
15°	634.9	635.6	634.1	633.4	632.6	631.8	631.1	631.1	629.6	628.8	628.8
17.5°	638.6	639.4	637.9	636.4	636.4	634.9	634.1	634.1	632.6	631.8	631.1
20°	642.4	643.2	641.6	640.9	640.1	639.4	637.9	638.6	637.9	636.4	636.4
22.5°	646.9	646.9	646.2	645.4	645.4	644.7	643.9	645.4	643.9	643.9	643.2
25°	651.5	652.2	651.5	651.5	652.2	652.2	653.0	654.5	654.5	653.7	653.0
27.5°	661.3	661.3	661.3	661.3	663.5	663.5	664.3	666.5	667.3	667.3	667.3
30°	674.1	674.8	674.1	674.1	676.3	677.1	679.3	681.6	683.1	683.1	683.9
32.5°	692.9	692.2	692.9	694.4	695.9	697.4	699.7	703.5	705.7	706.5	706.5
35°	717.0	717.8	717.0	717.8	720.8	723.1	725.3	729.9	731.4	732.9	733.6
37.5°	752.5	754.7	753.2	753.2	757.0	758.5	761.5	765.3	768.3	769.8	769.1
40°	803.8	803.0	801.5	802.2	803.0	804.5	807.5	815.1	818.8	818.8	818.8
42.5°	862.6	863.3	861.1	860.3	861.1	862.6	867.1	873.1	879.2	877.6	878.4
45°	929.7	924.4	925.9	924.4	925.1	930.4	938.0	941.0	947.0	947.0	948.5
47.5°	995.3	993.0	992.3	991.5	993.8	999.0	1008.1	1017.9	1023.2	1026.2	1028.4
50°	1069.2	1065.4	1064.6	1065.4	1066.1	1067.7	1085.0	1094.8	1107.6	1109.9	1109.1
52.5°	1140.8	1137.8	1136.3	1136.3	1139.3	1144.6	1162.7	1178.5	1192.8	1201.9	1198.1
55°	1218.5	1218.5	1213.9	1212.4	1216.9	1222.2	1247.1	1265.2	1285.6	1292.3	1281.8
57.5°	1298.4	1297.6	1290.8	1288.6	1292.3	1305.9	1327.0	1354.9	1376.8	1382.8	1376.8
60°	1376.8	1376.8	1373.0	1371.5	1375.3	1391.9	1417.5	1448.4	1474.8	1486.1	1476.3
62.5°	1466.5	1466.5	1456.7	1461.2	1466.5	1479.3	1511.8	1551.7	1587.2	1593.2	1584.1
65°	1568.3	1572.8	1565.3	1563.8	1570.6	1594.7	1631.6	1682.2	1723.6	1739.5	1725.9
67.5°	1723.6	1716.8	1707.8	1704.0	1714.6	1737.2	1782.4	1848.8	1909.9	1924.9	1909.1
70°	1885.0	1878.2	1875.2	1887.2	1909.9	1957.4	2026.7	2119.5	2204.7	2240.9	2207.7
72°	1823.2	1814.1	1811.8	1837.5	1881.2	1958.9	2087.1	2236.3	2372.1	2422.6	2360.0
72.5°	1791.5	1783.9	1783.2	1807.3	1854.8	1933.2	2059.2	2213.0	2358.5	2413.5	2346.4
75°	1663.3	1655.8	1663.3	1690.5	1738.0	1822.4	1950.6	2094.6	2225.8	2276.3	2210.7
77.5°	1486.1	1472.5	1479.3	1517.0	1569.8	1661.8	1797.5	1967.9	2094.6	2081.0	1983.8
80°	1186.0	1155.9	1188.3	1199.6	1259.9	1321.8	1452.9	1529.1	1572.8	1575.1	1505.7
82.5°	518.0	530.1	570.8	604.7	647.7	719.3	772.1	854.3	950.0	994.5	941.0
85°	33.9	42.2	67.1	79.9	110.8	135.0	193.8	282.0	340.1	389.1	328.0
87.5°	6.0	8.3	15.1	18.1	19.6	21.9	21.9	30.2	31.7	25.6	28.7
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°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8
2.5°	619.8	619.8	620.5	619.8	619.8	619.8	619.0	619.0
5°	620.5	620.5	621.3	621.3	620.5	620.5	620.5	620.5
7.5°	622.8	622.0	622.8	622.8	622.0	622.0	621.3	622.0
10°	623.6	623.6	624.3	624.3	623.6	623.6	623.6	623.6
12.5°	625.8	625.8	625.8	626.6	625.8	625.8	626.6	625.8
15°	628.1	627.3	627.3	627.3	627.3	628.1	628.1	628.8
17.5°	630.3	630.3	629.6	630.3	630.3	631.1	631.1	631.1
20°	634.9	634.1	632.6	634.1	634.1	634.1	634.1	634.9
22.5°	641.6	640.1	638.6	638.6	637.9	638.6	637.9	637.9
25°	651.5	649.2	646.9	646.2	645.4	644.7	643.9	644.7
27.5°	665.8	662.8	659.7	658.2	657.5	656.0	655.2	655.2
30°	681.6	679.3	674.8	673.3	671.1	668.8	668.8	668.0
32.5°	705.7	702.7	697.4	695.2	691.4	689.2	688.4	688.4
35°	730.6	726.8	724.6	721.6	717.0	714.8	714.0	714.0
37.5°	768.3	763.8	760.8	757.0	756.3	753.2	753.2	753.2
40°	817.3	813.6	809.8	806.8	804.5	802.2	799.2	799.2
42.5°	877.6	871.6	869.4	865.6	862.6	860.3	858.8	858.8
45°	944.0	938.7	935.7	930.4	929.7	928.2	925.1	925.1
47.5°	1018.6	1011.1	1005.1	1003.6	999.8	996.0	994.5	995.3
50°	1100.1	1087.3	1079.0	1079.0	1074.4	1069.2	1069.9	1069.2
52.5°	1183.8	1169.4	1158.9	1151.3	1146.1	1145.3	1146.1	1145.3
55°	1268.2	1253.1	1240.3	1232.0	1226.7	1221.5	1220.7	1220.7
57.5°	1355.7	1336.8	1316.5	1308.9	1303.7	1300.6	1300.6	1301.4
60°	1454.5	1423.5	1397.9	1388.1	1384.3	1385.8	1385.1	1385.8
62.5°	1554.7	1519.3	1489.1	1477.8	1472.5	1471.8	1477.8	1480.1
65°	1681.4	1637.7	1603.7	1582.6	1582.6	1580.4	1587.2	1584.1
67.5°	1846.5	1784.7	1743.2	1709.3	1710.1	1712.3	1722.1	1721.4
70°	2127.8	2018.4	1941.5	1883.5	1860.9	1845.8	1842.8	1842.8
72°	2214.5	2051.6	1924.9	1833.7	1787.0	1758.3	1750.0	1741.0
72.5°	2191.9	2024.5	1896.3	1801.3	1753.0	1724.4	1711.6	1700.3
75°	2049.4	1862.4	1722.9	1623.3	1569.8	1535.1	1528.3	1523.1
77.5°	1808.1	1642.2	1498.2	1394.9	1341.4	1296.9	1278.8	1277.3
80°	1394.1	1244.8	1134.0	1053.3	1005.1	971.9	973.4	962.8
82.5°	822.6	696.7	601.7	493.9	423.0	382.3	356.6	353.6
85°	242.0	164.4	104.8	75.4	54.3	40.7	30.2	27.1
87.5°	21.9	17.3	14.3	12.1	11.3	9.8	6.0	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)