

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: P140599

Luminaire Tested: **ECM-E03-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140599
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-E03-LED-E1-5XQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8169.5 lumens
Efficiency: N/A
Efficacy: 108.6 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 - G3

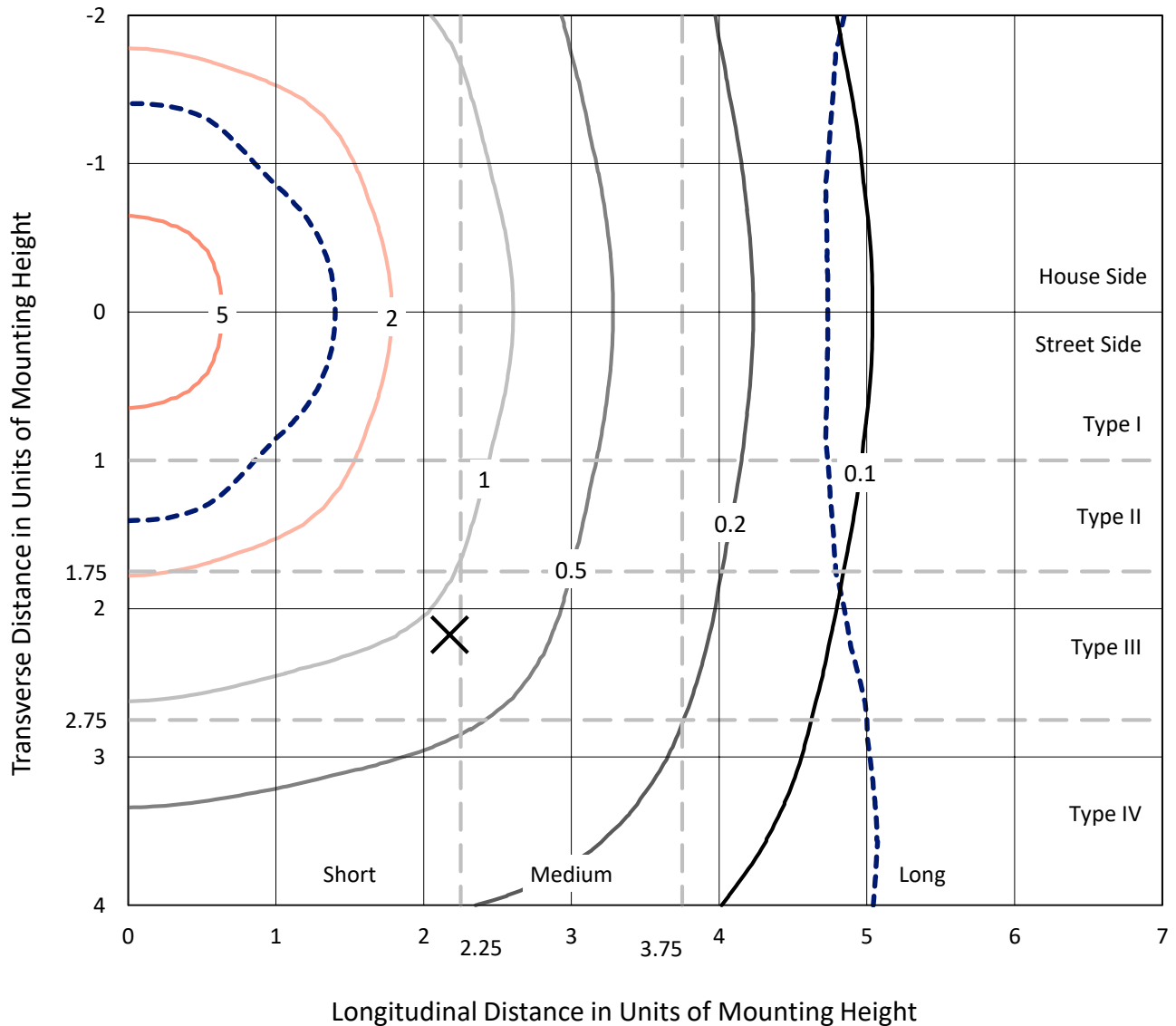
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140599
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Iso-Footcandle Lines of Horizontal Illumination

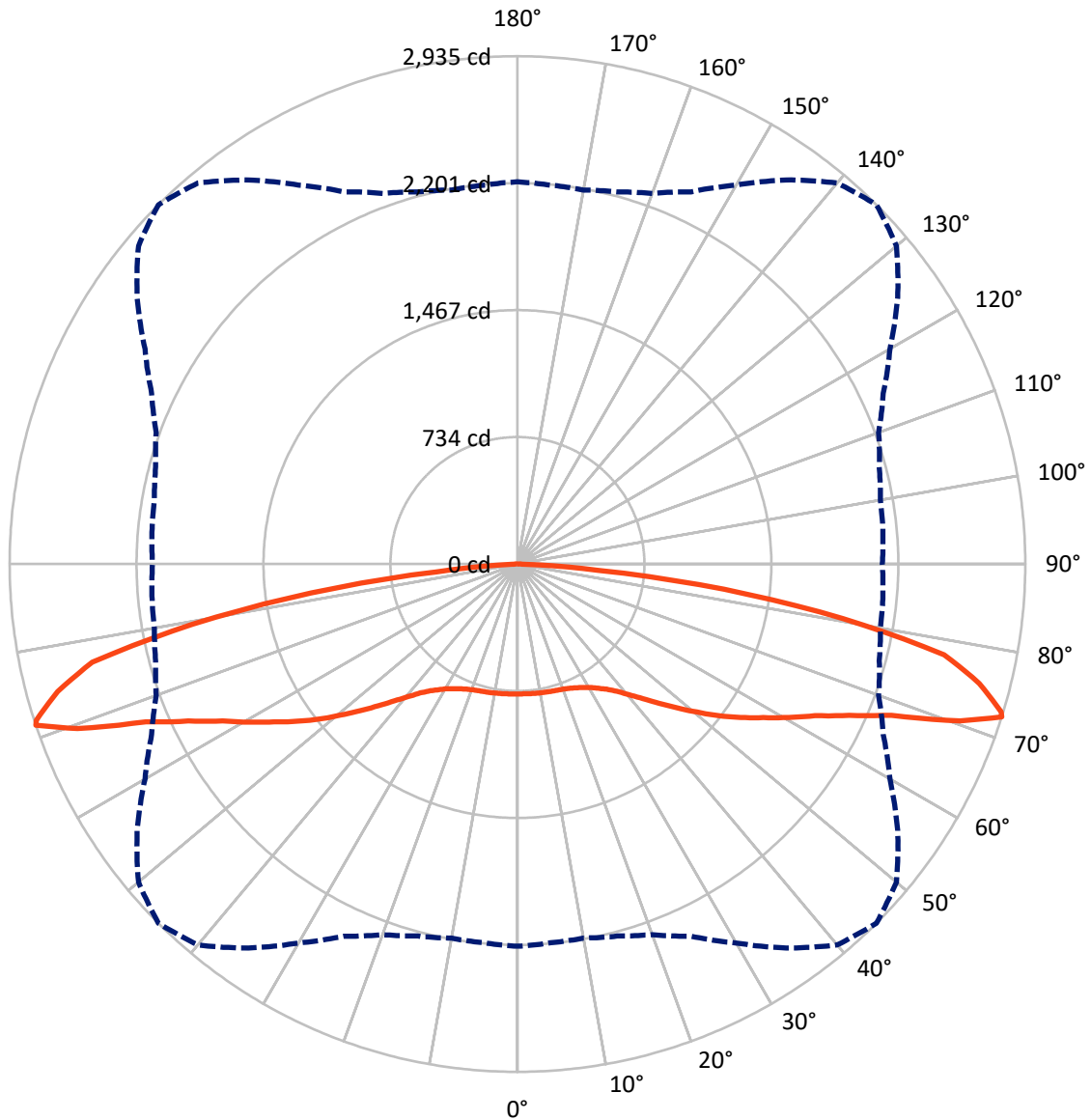
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140599
CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7030

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	4084.8	0.0	4084.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4084.8	0.0	4084.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	8169.5	0.0	8169.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	0.9
10°-20°	216.7	2.7
20°-30°	366.7	4.5
30°-40°	557.9	6.8
40°-50°	883.3	10.8
50°-60°	1353.6	16.6
60°-70°	1987.3	24.3
70°-80°	2254.3	27.6
80°-90°	477.6	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°	8169.5	100.0
0°-180°	8169.5	100.0



REPORT NUMBER: P140599

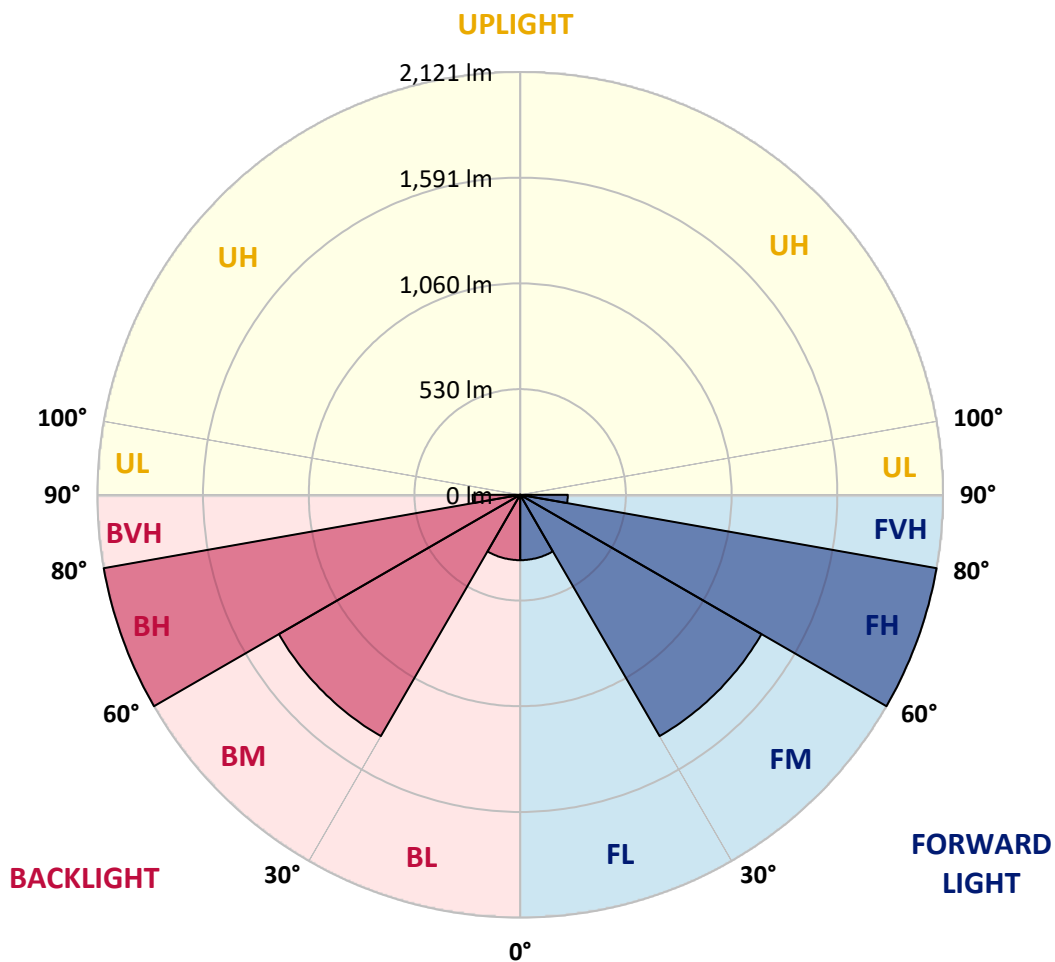
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.7	4.0			
FM	(30°-60°)	1397.5	17.1			
FH	(60°-80°)	2120.8	26.0			G2/5000
FVH	(80°-90°)	238.8	2.9			G3/500
BL	(0°-30°)	327.7	4.0	B1/500		
BM	(30°-60°)	1397.5	17.1	B2/2500		
BH	(60°-80°)	2120.8	26.0	B3/2500		G2/5000
BVH	(80°-90°)	238.8	2.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





REPORT NUMBER: P140599

CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	753.5	754.4	753.5	752.6	752.6	751.7	751.7	751.7	752.6	750.8	750.8
5°	755.3	756.3	755.3	753.5	753.5	753.5	752.6	752.6	753.5	752.6	752.6
7.5°	758.1	759.0	758.1	756.3	756.3	755.3	754.4	754.4	756.3	754.4	754.4
10°	760.8	762.6	760.8	759.0	759.0	758.1	757.2	757.2	758.1	756.3	756.3
12.5°	765.4	765.4	764.5	763.6	763.6	762.6	761.7	760.8	759.9	759.0	758.1
15°	769.0	770.0	768.1	767.2	766.3	765.4	764.5	764.5	762.6	761.7	761.7
17.5°	773.6	774.5	772.7	770.9	770.9	769.0	768.1	768.1	766.3	765.4	764.5
20°	778.2	779.1	777.3	776.3	775.4	774.5	772.7	773.6	772.7	770.9	770.9
22.5°	783.7	783.7	782.7	781.8	781.8	780.9	780.0	781.8	780.0	780.0	779.1
25°	789.1	790.0	789.1	789.1	790.0	790.0	791.0	792.8	792.8	791.9	791.0
27.5°	801.0	801.0	801.0	801.0	803.7	803.7	804.7	807.4	808.3	808.3	808.3
30°	816.5	817.4	816.5	816.5	819.3	820.2	822.9	825.7	827.5	827.5	828.4
32.5°	839.4	838.5	839.4	841.2	843.0	844.8	847.6	852.2	854.9	855.8	855.8
35°	868.6	869.5	868.6	869.5	873.2	875.9	878.6	884.1	885.9	887.8	888.7
37.5°	911.5	914.3	912.4	912.4	917.0	918.8	922.5	927.1	930.7	932.5	931.6
40°	973.6	972.7	970.9	971.8	972.7	974.5	978.2	987.3	991.9	991.9	991.9
42.5°	1044.9	1045.8	1043.0	1042.1	1043.0	1044.9	1050.4	1057.7	1065.0	1063.1	1064.1
45°	1126.2	1119.8	1121.6	1119.8	1120.7	1127.1	1136.2	1139.9	1147.2	1147.2	1149.0
47.5°	1205.6	1202.9	1202.0	1201.1	1203.8	1210.2	1221.1	1233.0	1239.4	1243.1	1245.8
50°	1295.1	1290.6	1289.7	1290.6	1291.5	1293.3	1314.3	1326.2	1341.7	1344.5	1343.5
52.5°	1381.9	1378.2	1376.4	1376.4	1380.1	1386.5	1408.4	1427.6	1444.9	1455.9	1451.3
55°	1476.0	1476.0	1470.5	1468.7	1474.1	1480.5	1510.7	1532.6	1557.3	1565.5	1552.7
57.5°	1572.8	1571.9	1563.7	1560.9	1565.5	1581.9	1607.5	1641.3	1667.8	1675.1	1667.8
60°	1667.8	1667.8	1663.2	1661.4	1666.0	1686.0	1717.1	1754.5	1786.5	1800.2	1788.3
62.5°	1776.5	1776.5	1764.6	1770.1	1776.5	1792.0	1831.3	1879.7	1922.6	1929.9	1918.9
65°	1899.8	1905.2	1896.1	1894.3	1902.5	1931.7	1976.5	2037.7	2087.9	2107.1	2090.7
67.5°	2087.9	2079.7	2068.7	2064.2	2077.0	2104.4	2159.2	2239.5	2313.5	2331.8	2312.6
70°	2283.4	2275.2	2271.5	2286.1	2313.5	2371.1	2455.1	2567.4	2670.6	2714.5	2674.3
72°	2208.5	2197.5	2194.8	2225.8	2278.8	2372.9	2528.2	2709.0	2873.4	2934.6	2858.8
72.5°	2170.1	2161.0	2160.1	2189.3	2246.8	2341.8	2494.4	2680.7	2857.0	2923.6	2842.3
75°	2014.9	2005.7	2014.9	2047.7	2105.3	2207.6	2362.8	2537.3	2696.2	2757.4	2677.9
77.5°	1800.2	1783.8	1792.0	1837.7	1901.6	2013.0	2177.4	2383.8	2537.3	2520.8	2403.0
80°	1436.7	1400.2	1439.4	1453.1	1526.2	1601.1	1760.0	1852.3	1905.2	1908.0	1824.0
82.5°	627.5	642.1	691.4	732.5	784.6	871.3	935.3	1034.8	1150.8	1204.7	1139.9
85°	41.1	51.1	81.3	96.8	134.3	163.5	234.7	341.6	411.9	471.3	397.3
87.5°	7.3	10.0	18.3	21.9	23.7	26.5	26.5	36.5	38.4	31.1	34.7
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: P140599

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	750.8	750.8	751.7	750.8	750.8	750.8	749.9	749.9
5°	751.7	751.7	752.6	752.6	751.7	751.7	751.7	751.7
7.5°	754.4	753.5	754.4	754.4	753.5	753.5	752.6	753.5
10°	755.3	755.3	756.3	756.3	755.3	755.3	755.3	755.3
12.5°	758.1	758.1	758.1	759.0	758.1	758.1	759.0	758.1
15°	760.8	759.9	759.9	759.9	759.9	760.8	760.8	761.7
17.5°	763.6	763.6	762.6	763.6	763.6	764.5	764.5	764.5
20°	769.0	768.1	766.3	768.1	768.1	768.1	768.1	769.0
22.5°	777.3	775.4	773.6	773.6	772.7	773.6	772.7	772.7
25°	789.1	786.4	783.7	782.7	781.8	780.9	780.0	780.9
27.5°	806.5	802.8	799.2	797.4	796.4	794.6	793.7	793.7
30°	825.7	822.9	817.4	815.6	812.9	810.1	810.1	809.2
32.5°	854.9	851.2	844.8	842.1	837.5	834.8	833.9	833.9
35°	885.0	880.5	877.7	874.1	868.6	865.9	864.9	864.9
37.5°	930.7	925.2	921.6	917.0	916.1	912.4	912.4	912.4
40°	990.1	985.5	980.9	977.3	974.5	971.8	968.2	968.2
42.5°	1063.1	1055.8	1053.1	1048.5	1044.9	1042.1	1040.3	1040.3
45°	1143.5	1137.1	1133.5	1127.1	1126.2	1124.3	1120.7	1120.7
47.5°	1233.9	1224.8	1217.5	1215.7	1211.1	1206.5	1204.7	1205.6
50°	1332.6	1317.1	1307.0	1307.0	1301.5	1295.1	1296.0	1295.1
52.5°	1434.0	1416.6	1403.8	1394.7	1388.3	1387.4	1388.3	1387.4
55°	1536.3	1518.0	1502.5	1492.4	1486.0	1479.6	1478.7	1478.7
57.5°	1642.2	1619.4	1594.7	1585.6	1579.2	1575.5	1575.5	1576.4
60°	1761.9	1724.4	1693.4	1681.5	1676.9	1678.7	1677.8	1678.7
62.5°	1883.3	1840.4	1803.9	1790.2	1783.8	1782.9	1790.2	1792.9
65°	2036.8	1983.8	1942.7	1917.1	1917.1	1914.4	1922.6	1918.9
67.5°	2236.8	2161.9	2111.7	2070.6	2071.5	2074.2	2086.1	2085.2
70°	2577.5	2445.0	2351.9	2281.5	2254.1	2235.9	2232.2	2232.2
72°	2682.5	2485.2	2331.8	2221.3	2164.6	2129.9	2119.9	2108.9
72.5°	2655.1	2452.3	2297.1	2182.0	2123.5	2088.8	2073.3	2059.6
75°	2482.5	2256.0	2087.0	1966.4	1901.6	1859.6	1851.4	1845.0
77.5°	2190.2	1989.3	1814.8	1689.7	1624.9	1571.0	1549.0	1547.2
80°	1688.8	1507.9	1373.7	1276.0	1217.5	1177.3	1179.1	1166.3
82.5°	996.5	843.9	728.9	598.2	512.4	463.1	432.0	428.4
85°	293.2	199.1	127.0	91.3	65.8	49.3	36.5	32.9
87.5°	26.5	21.0	17.4	14.6	13.7	11.9	7.3	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)