

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: P140598

Luminaire Tested: **ECM-E03-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140598
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-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7549.2 lumens
Efficiency: N/A
Efficacy: 100.4 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

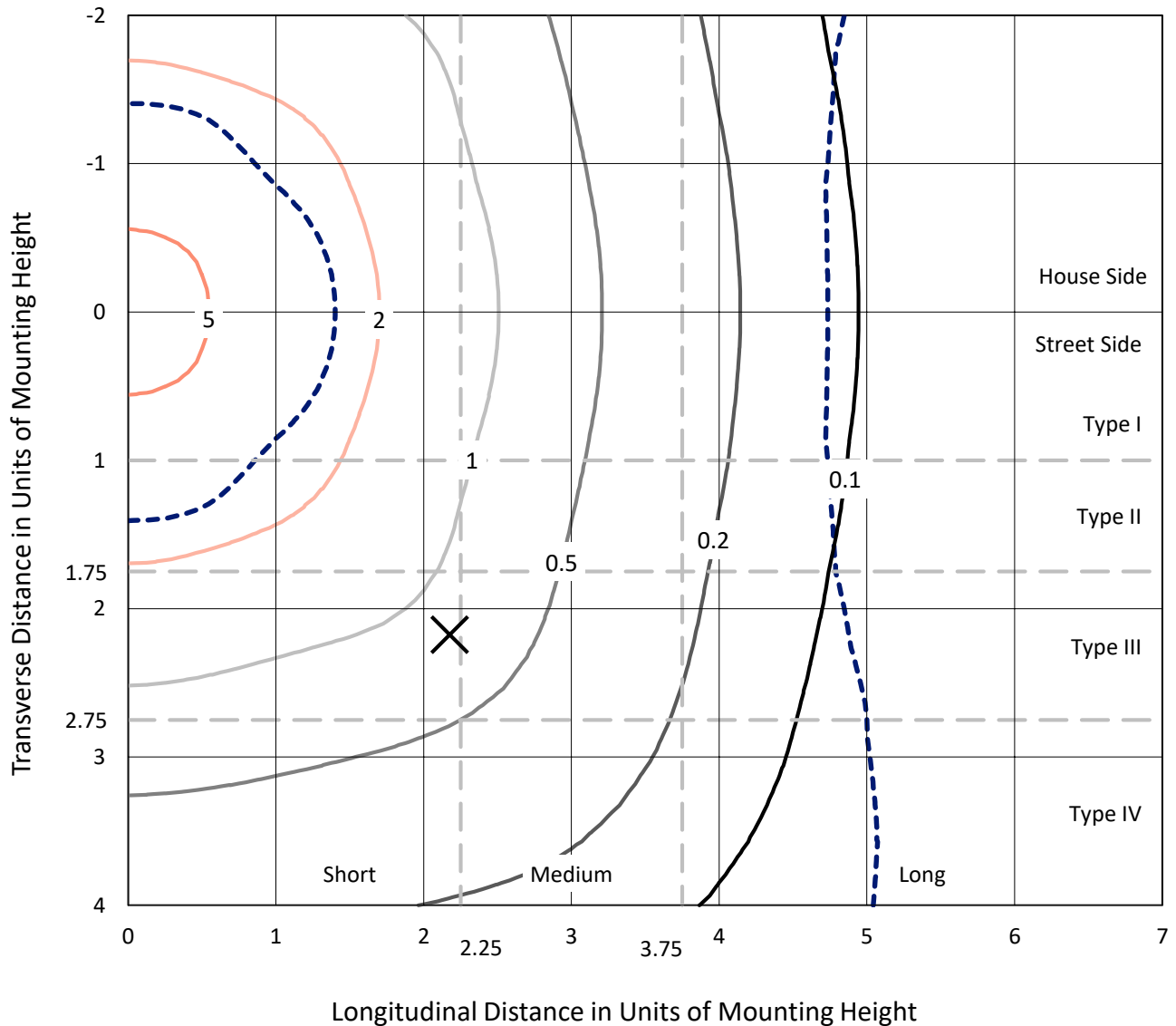
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

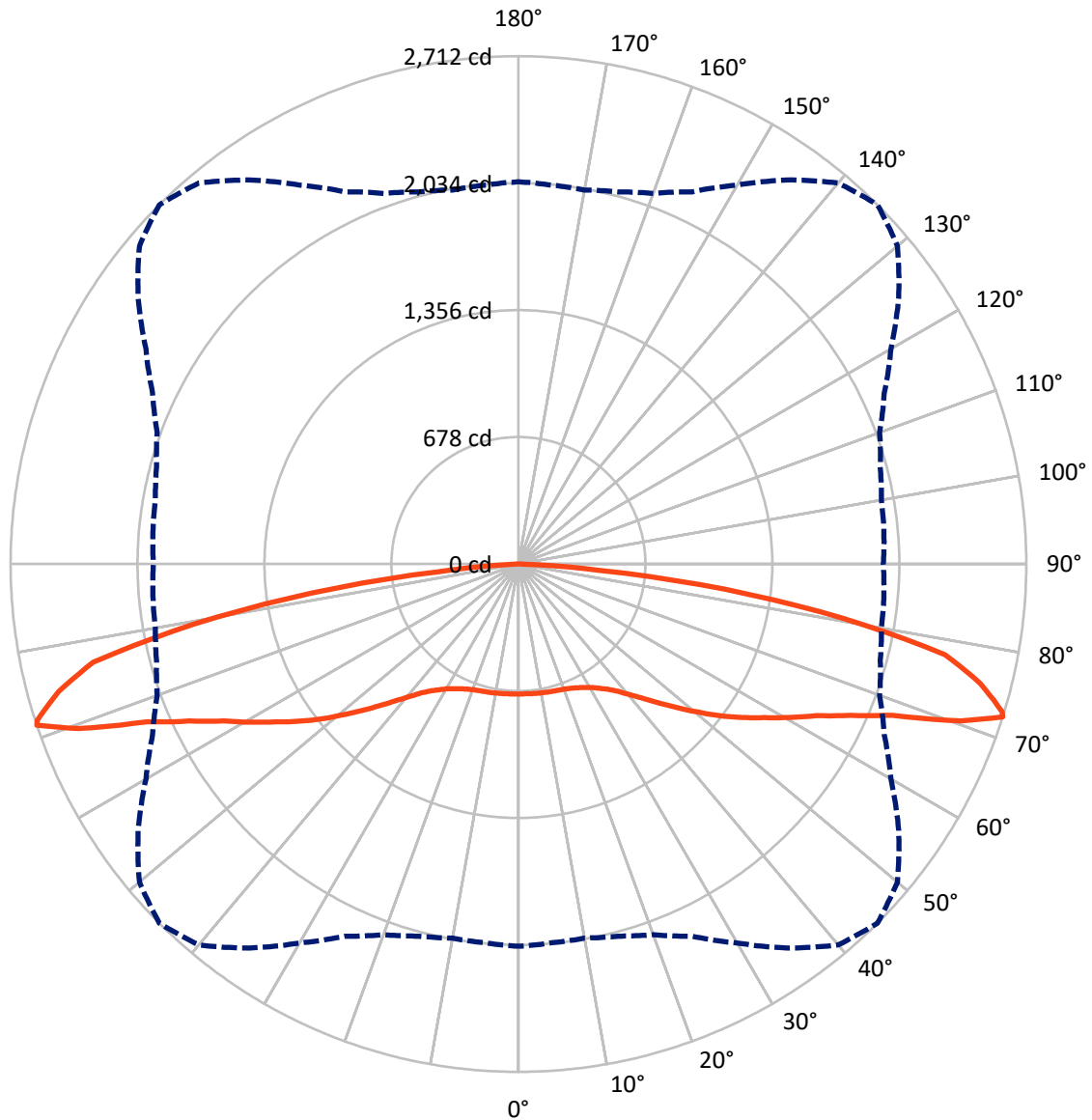
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: ECM-E03-LED-E1-5XQ-8030

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	3774.6	0.0	3774.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3774.6	0.0	3774.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7549.2	0.0	7549.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	0.9
10°-20°	200.3	2.7
20°-30°	338.9	4.5
30°-40°	515.6	6.8
40°-50°	816.2	10.8
50°-60°	1250.9	16.6
60°-70°	1836.4	24.3
70°-80°	2083.2	27.6
80°-90°	441.3	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°	7549.2	100.0
0°-180°	7549.2	100.0



REPORT NUMBER: P140598

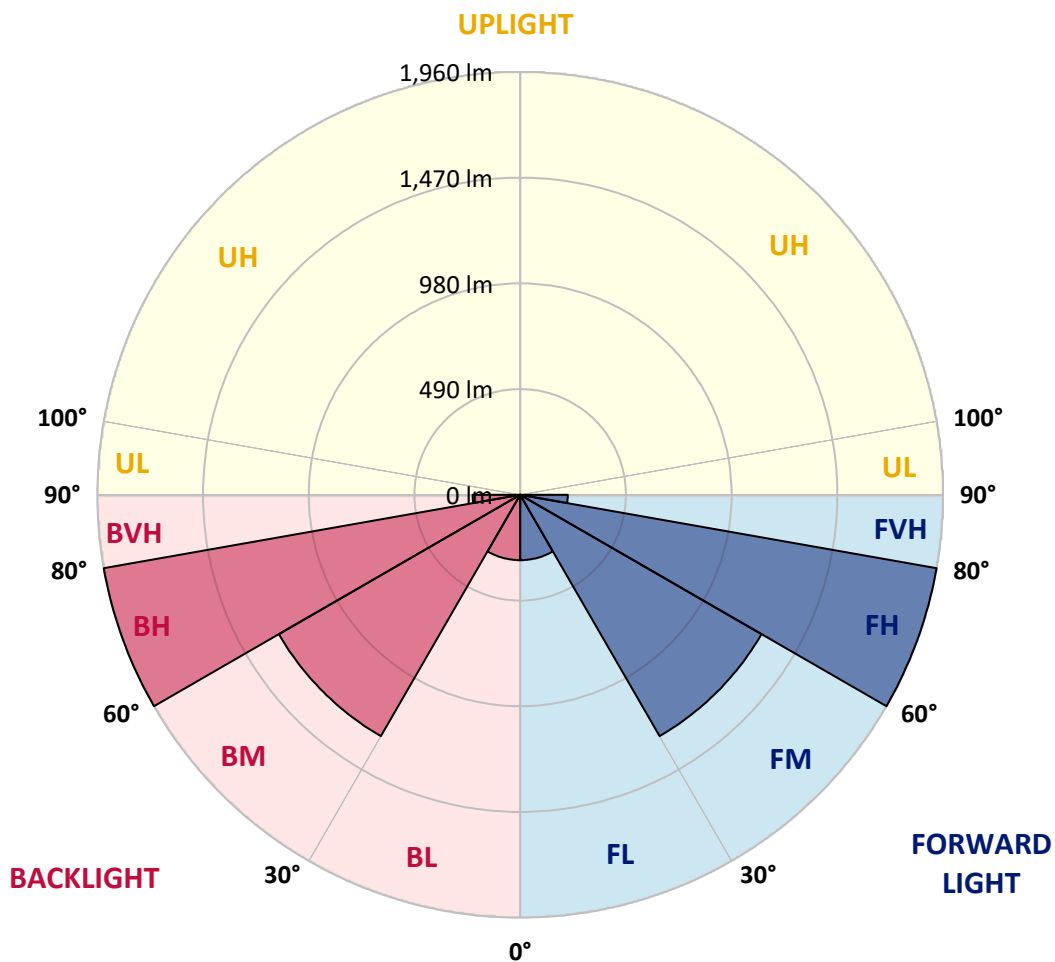
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.8	4.0			
FM (30°-60°)	1291.3	17.1			
FH (60°-80°)	1959.8	26.0			G2/5000
FVH (80°-90°)	220.6	2.9			G2/225
BL (0°-30°)	302.8	4.0	B1/500		
BM (30°-60°)	1291.3	17.1	B2/2500		
BH (60°-80°)	1959.8	26.0	B3/2500		G2/5000
BVH (80°-90°)	220.6	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: P140598

CATALOG NUMBER: ECM-E03-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	696.3	697.1	696.3	695.4	695.4	694.6	694.6	694.6	695.4	693.8	693.8
5°	698.0	698.8	698.0	696.3	696.3	696.3	695.4	695.4	696.3	695.4	695.4
7.5°	700.5	701.4	700.5	698.8	698.8	698.0	697.1	697.1	698.8	697.1	697.1
10°	703.0	704.7	703.0	701.4	701.4	700.5	699.7	699.7	700.5	698.8	698.8
12.5°	707.3	707.3	706.4	705.6	705.6	704.7	703.9	703.0	702.2	701.4	700.5
15°	710.6	711.5	709.8	709.0	708.1	707.3	706.4	706.4	704.7	703.9	703.9
17.5°	714.9	715.7	714.0	712.3	712.3	710.6	709.8	709.8	708.1	707.3	706.4
20°	719.1	719.9	718.2	717.4	716.5	715.7	714.0	714.9	714.0	712.3	712.3
22.5°	724.1	724.1	723.3	722.5	722.5	721.6	720.8	722.5	720.8	720.8	719.9
25°	729.2	730.1	729.2	729.2	730.1	730.1	730.9	732.6	732.6	731.7	730.9
27.5°	740.2	740.2	740.2	740.2	742.7	742.7	743.6	746.1	746.9	746.9	746.9
30°	754.5	755.4	754.5	754.5	757.1	757.9	760.4	763.0	764.7	764.7	765.5
32.5°	775.6	774.8	775.6	777.3	779.0	780.7	783.2	787.4	790.0	790.8	790.8
35°	802.6	803.5	802.6	803.5	806.9	809.4	811.9	817.0	818.7	820.4	821.2
37.5°	842.3	844.8	843.1	843.1	847.4	849.1	852.4	856.7	860.0	861.7	860.9
40°	899.7	898.9	897.2	898.0	898.9	900.5	903.9	912.4	916.6	916.6	916.6
42.5°	965.5	966.4	963.8	963.0	963.8	965.5	970.6	977.3	984.1	982.4	983.2
45°	1040.6	1034.7	1036.4	1034.7	1035.6	1041.5	1049.9	1053.3	1060.1	1060.1	1061.7
47.5°	1114.1	1111.5	1110.7	1109.8	1112.4	1118.3	1128.4	1139.4	1145.3	1148.7	1151.2
50°	1196.8	1192.6	1191.7	1192.6	1193.4	1195.1	1214.5	1225.5	1239.8	1242.4	1241.5
52.5°	1277.0	1273.6	1271.9	1271.9	1275.3	1281.2	1301.4	1319.2	1335.2	1345.3	1341.1
55°	1363.9	1363.9	1358.8	1357.1	1362.2	1368.1	1396.0	1416.2	1439.0	1446.6	1434.8
57.5°	1453.4	1452.5	1444.9	1442.4	1446.6	1461.8	1485.4	1516.7	1541.1	1547.9	1541.1
60°	1541.1	1541.1	1536.9	1535.2	1539.4	1558.0	1586.7	1621.3	1650.8	1663.5	1652.5
62.5°	1641.6	1641.6	1630.6	1635.7	1641.6	1655.9	1692.2	1736.9	1776.6	1783.4	1773.2
65°	1755.5	1760.6	1752.1	1750.4	1758.0	1785.0	1826.4	1882.9	1929.4	1947.1	1931.9
67.5°	1929.4	1921.8	1911.6	1907.4	1919.2	1944.6	1995.2	2069.5	2137.8	2154.7	2137.0
70°	2110.0	2102.4	2099.0	2112.5	2137.8	2191.0	2268.6	2372.5	2467.8	2508.3	2471.2
72°	2040.8	2030.6	2028.1	2056.8	2105.8	2192.7	2336.2	2503.3	2655.2	2711.7	2641.7
72.5°	2005.3	1996.9	1996.0	2023.0	2076.2	2164.0	2304.9	2477.1	2640.0	2701.6	2626.5
75°	1861.8	1853.4	1861.8	1892.2	1945.4	2039.9	2183.4	2344.6	2491.5	2548.0	2474.6
77.5°	1663.5	1648.3	1655.9	1698.1	1757.2	1860.2	2012.1	2202.8	2344.6	2329.4	2220.5
80°	1327.6	1293.8	1330.1	1342.8	1410.3	1479.5	1626.4	1711.6	1760.6	1763.1	1685.4
82.5°	579.8	593.3	638.9	676.9	725.0	805.2	864.2	956.2	1063.4	1113.2	1053.3
85°	38.0	47.3	75.1	89.5	124.1	151.1	216.9	315.7	380.6	435.5	367.1
87.5°	6.8	9.3	16.9	20.3	21.9	24.5	24.5	33.8	35.4	28.7	32.1
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: P140598

CATALOG NUMBER: ECM-E03-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	693.8	693.8	694.6	693.8	693.8	693.8	692.9	692.9
5°	694.6	694.6	695.4	695.4	694.6	694.6	694.6	694.6
7.5°	697.1	696.3	697.1	697.1	696.3	696.3	695.4	696.3
10°	698.0	698.0	698.8	698.8	698.0	698.0	698.0	698.0
12.5°	700.5	700.5	700.5	701.4	700.5	700.5	701.4	700.5
15°	703.0	702.2	702.2	702.2	702.2	703.0	703.0	703.9
17.5°	705.6	705.6	704.7	705.6	705.6	706.4	706.4	706.4
20°	710.6	709.8	708.1	709.8	709.8	709.8	709.8	710.6
22.5°	718.2	716.5	714.9	714.9	714.0	714.9	714.0	714.0
25°	729.2	726.7	724.1	723.3	722.5	721.6	720.8	721.6
27.5°	745.2	741.9	738.5	736.8	736.0	734.3	733.4	733.4
30°	763.0	760.4	755.4	753.7	751.2	748.6	748.6	747.8
32.5°	790.0	786.6	780.7	778.2	773.9	771.4	770.6	770.6
35°	817.8	813.6	811.1	807.7	802.6	800.1	799.3	799.3
37.5°	860.0	855.0	851.6	847.4	846.5	843.1	843.1	843.1
40°	914.9	910.7	906.4	903.1	900.5	898.0	894.6	894.6
42.5°	982.4	975.7	973.1	968.9	965.5	963.0	961.3	961.3
45°	1056.7	1050.8	1047.4	1041.5	1040.6	1039.0	1035.6	1035.6
47.5°	1140.2	1131.8	1125.0	1123.4	1119.1	1114.9	1113.2	1114.1
50°	1231.4	1217.0	1207.8	1207.8	1202.7	1196.8	1197.6	1196.8
52.5°	1325.1	1309.0	1297.2	1288.8	1282.9	1282.0	1282.9	1282.0
55°	1419.6	1402.7	1388.4	1379.1	1373.2	1367.3	1366.4	1366.4
57.5°	1517.5	1496.4	1473.6	1465.2	1459.3	1455.9	1455.9	1456.7
60°	1628.1	1593.5	1564.8	1553.8	1549.6	1551.3	1550.4	1551.3
62.5°	1740.3	1700.6	1666.9	1654.2	1648.3	1647.5	1654.2	1656.8
65°	1882.1	1833.1	1795.2	1771.5	1771.5	1769.0	1776.6	1773.2
67.5°	2066.9	1997.7	1951.3	1913.3	1914.2	1916.7	1927.7	1926.8
70°	2381.7	2259.4	2173.3	2108.3	2083.0	2066.1	2062.7	2062.7
72°	2478.8	2296.5	2154.7	2052.6	2000.3	1968.2	1958.9	1948.8
72.5°	2453.5	2266.1	2122.6	2016.3	1962.3	1930.2	1915.9	1903.2
75°	2294.0	2084.7	1928.5	1817.1	1757.2	1718.4	1710.8	1704.9
77.5°	2023.9	1838.2	1677.0	1561.4	1501.5	1451.7	1431.4	1429.7
80°	1560.5	1393.4	1269.4	1179.1	1125.0	1087.9	1089.6	1077.8
82.5°	920.8	779.8	673.5	552.8	473.5	427.9	399.2	395.8
85°	270.9	184.0	117.3	84.4	60.8	45.6	33.8	30.4
87.5°	24.5	19.4	16.0	13.5	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)