

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: P140601

Luminaire Tested: **ECM-E03-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140601
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-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9178.1 lumens
Efficiency: N/A
Efficacy: 122.0 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

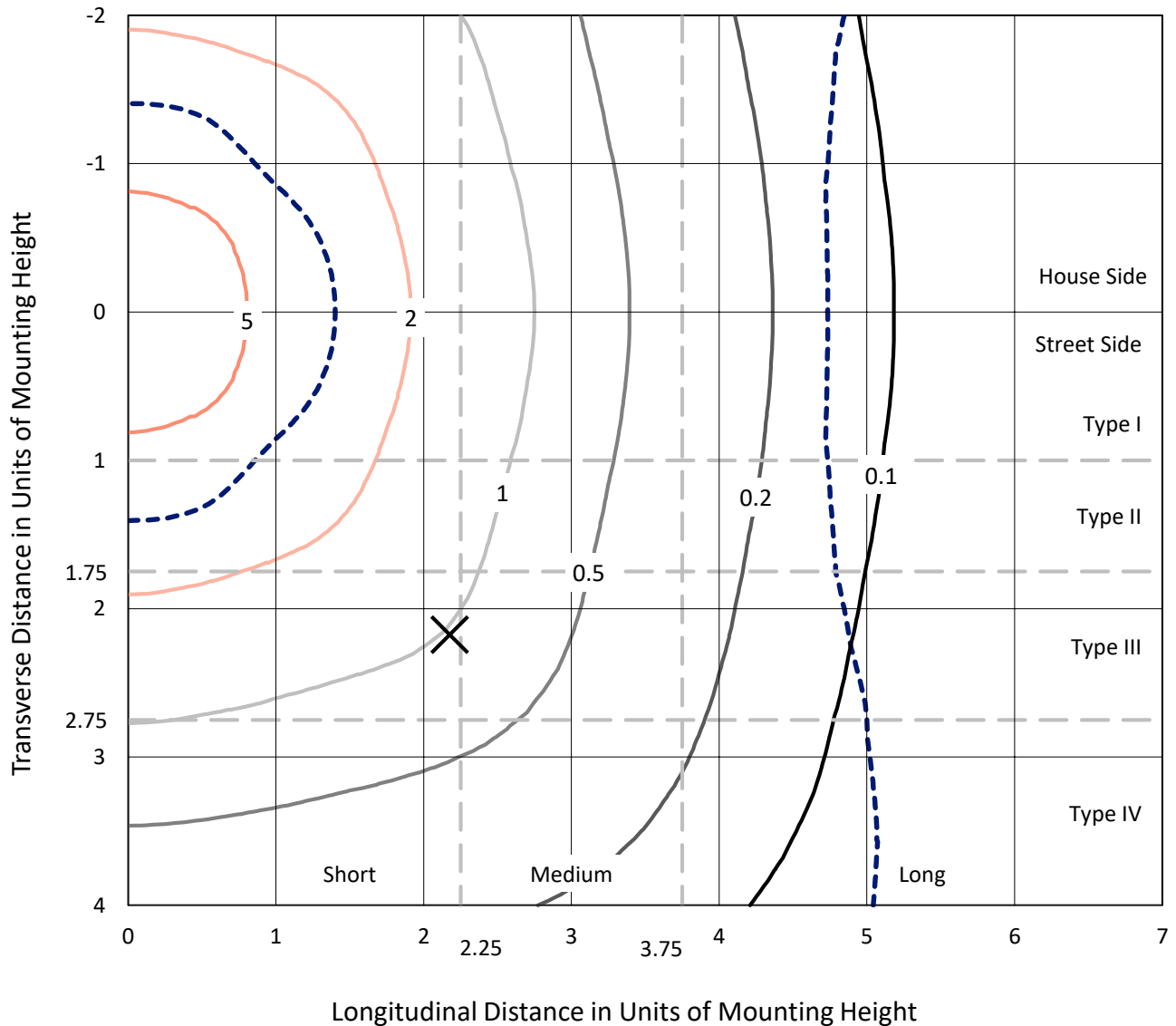
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140601
 CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7050

Iso-Footcandle Lines of Horizontal Illumination

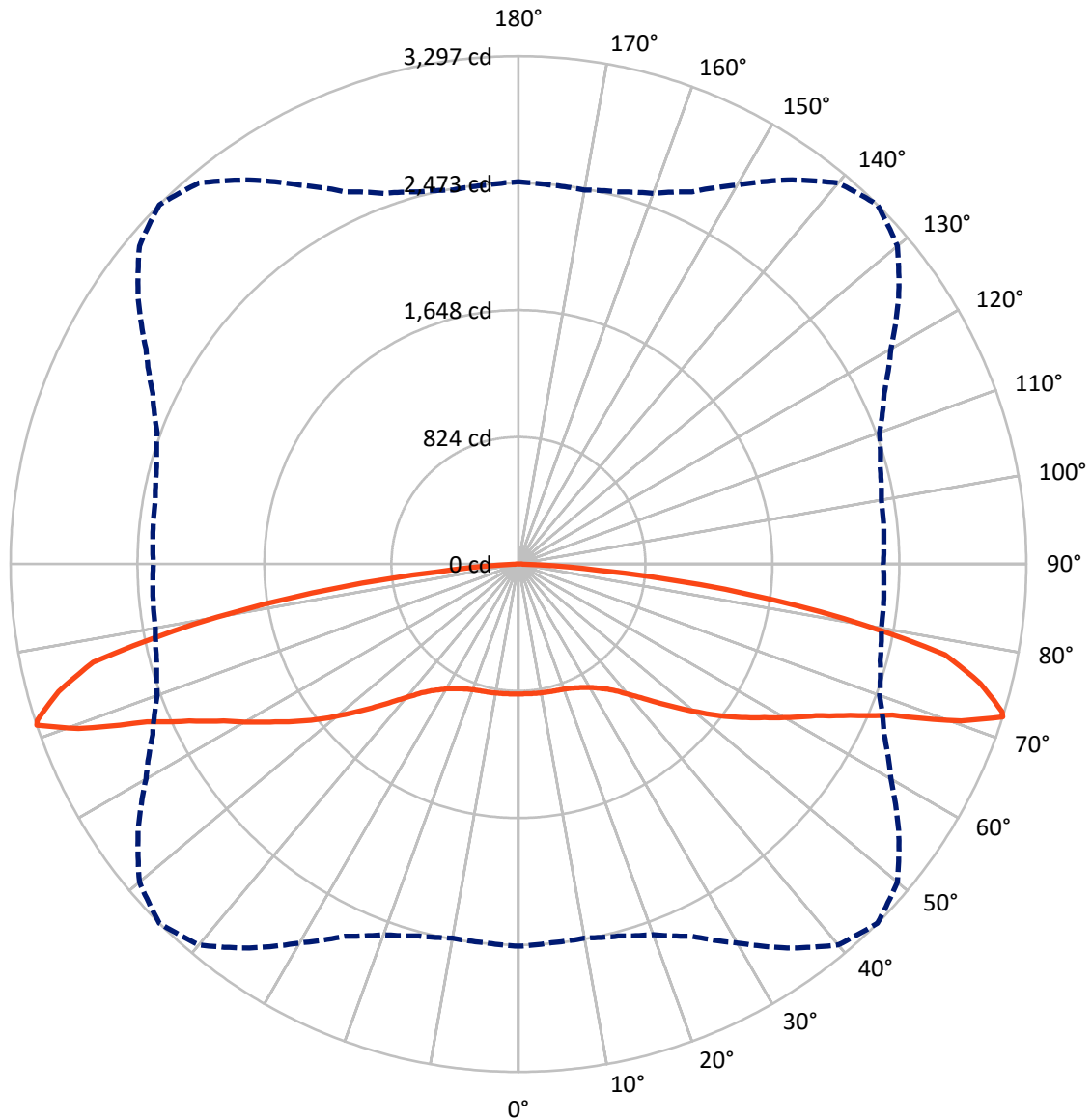
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P140601
CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7050

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	4589.0	0.0	4589.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4589.0	0.0	4589.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9178.1	0.0	9178.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	0.9
10°-20°	243.5	2.7
20°-30°	412.0	4.5
30°-40°	626.8	6.8
40°-50°	992.4	10.8
50°-60°	1520.8	16.6
60°-70°	2232.6	24.3
70°-80°	2532.7	27.6
80°-90°	536.5	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°	9178.1	100.0
0°-180°	9178.1	100.0



REPORT NUMBER: P140601

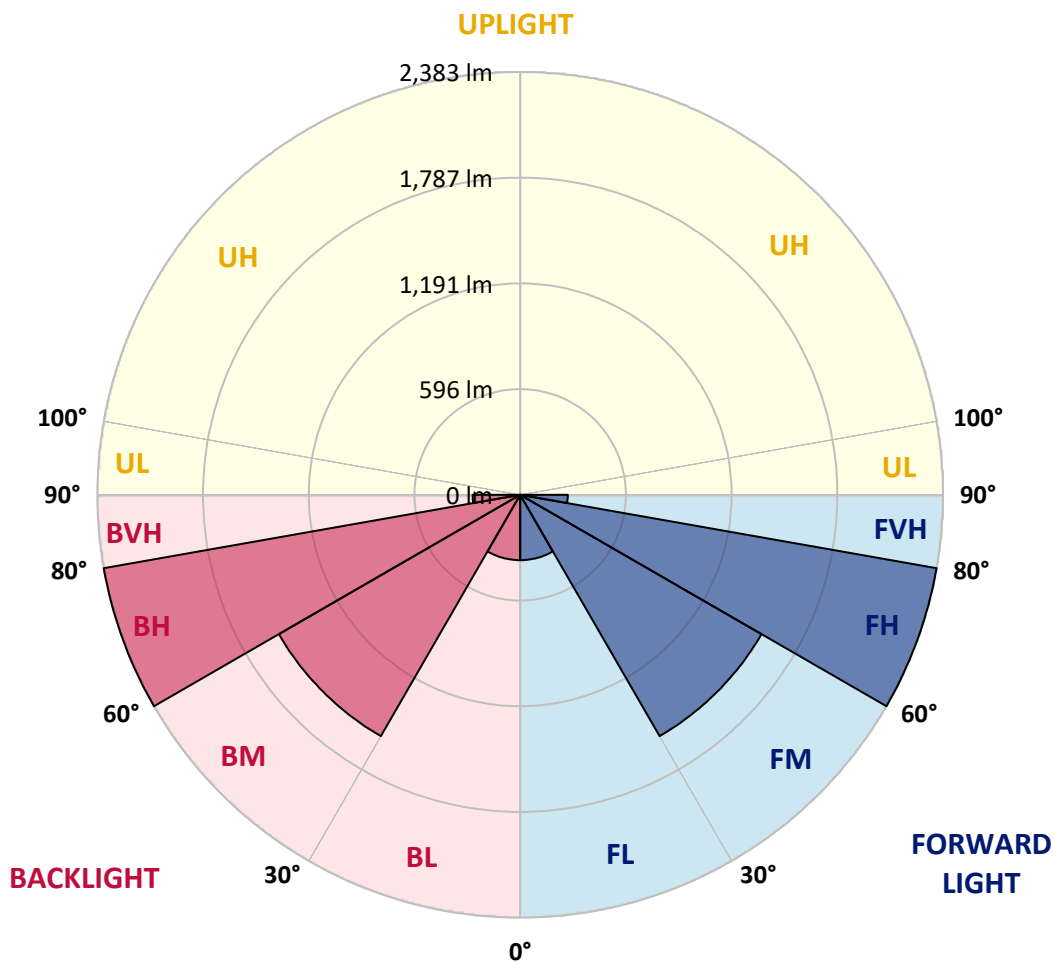
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.2	4.0			
FM	(30°-60°)	1570.0	17.1			
FH	(60°-80°)	2382.6	26.0			G2/5000
FVH	(80°-90°)	268.3	2.9			G3/500
BL	(0°-30°)	368.2	4.0	B1/500		
BM	(30°-60°)	1570.0	17.1	B2/2500		
BH	(60°-80°)	2382.6	26.0	B3/2500		G2/5000
BVH	(80°-90°)	268.3	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





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CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	846.5	847.6	846.5	845.5	845.5	844.5	844.5	844.5	845.5	843.5	843.5
5°	848.6	849.6	848.6	846.5	846.5	846.5	845.5	845.5	846.5	845.5	845.5
7.5°	851.7	852.7	851.7	849.6	849.6	848.6	847.6	847.6	849.6	847.6	847.6
10°	854.7	856.8	854.7	852.7	852.7	851.7	850.6	850.6	851.7	849.6	849.6
12.5°	859.9	859.9	858.9	857.8	857.8	856.8	855.8	854.7	853.7	852.7	851.7
15°	864.0	865.0	863.0	861.9	860.9	859.9	858.9	858.9	856.8	855.8	855.8
17.5°	869.1	870.1	868.1	866.0	866.0	864.0	863.0	863.0	860.9	859.9	858.9
20°	874.2	875.3	873.2	872.2	871.2	870.1	868.1	869.1	868.1	866.0	866.0
22.5°	880.4	880.4	879.4	878.3	878.3	877.3	876.3	878.3	876.3	876.3	875.3
25°	886.6	887.6	886.6	886.6	887.6	887.6	888.6	890.7	890.7	889.6	888.6
27.5°	899.9	899.9	899.9	899.9	903.0	903.0	904.0	907.1	908.1	908.1	908.1
30°	917.3	918.4	917.3	917.3	920.4	921.4	924.5	927.6	929.7	929.7	930.7
32.5°	943.0	942.0	943.0	945.0	947.1	949.1	952.2	957.4	960.4	961.5	961.5
35°	975.8	976.9	975.8	976.9	981.0	984.0	987.1	993.3	995.3	997.4	998.4
37.5°	1024.1	1027.1	1025.1	1025.1	1030.2	1032.3	1036.4	1041.5	1045.6	1047.7	1046.6
40°	1093.8	1092.8	1090.8	1091.8	1092.8	1094.9	1099.0	1109.2	1114.4	1114.4	1114.4
42.5°	1173.9	1174.9	1171.8	1170.8	1171.8	1173.9	1180.0	1188.2	1196.4	1194.4	1195.4
45°	1265.2	1258.0	1260.1	1258.0	1259.0	1266.2	1276.5	1280.6	1288.8	1288.8	1290.8
47.5°	1354.5	1351.4	1350.4	1349.3	1352.4	1359.6	1371.9	1385.2	1392.4	1396.5	1399.6
50°	1455.0	1449.9	1448.9	1449.9	1450.9	1453.0	1476.6	1489.9	1507.3	1510.4	1509.4
52.5°	1552.5	1548.4	1546.3	1546.3	1550.4	1557.6	1582.3	1603.8	1623.3	1635.6	1630.5
55°	1658.2	1658.2	1652.0	1650.0	1656.1	1663.3	1697.2	1721.8	1749.5	1758.7	1744.4
57.5°	1767.0	1765.9	1756.7	1753.6	1758.7	1777.2	1805.9	1843.9	1873.7	1881.9	1873.7
60°	1873.7	1873.7	1868.5	1866.5	1871.6	1894.2	1929.1	1971.1	2007.1	2022.5	2009.1
62.5°	1995.8	1995.8	1982.4	1988.6	1995.8	2013.2	2057.3	2111.7	2160.0	2168.2	2155.8
65°	2134.3	2140.5	2130.2	2128.1	2137.4	2170.2	2220.5	2289.2	2345.7	2367.2	2348.8
67.5°	2345.7	2336.4	2324.1	2319.0	2333.4	2364.1	2425.7	2516.0	2599.1	2619.6	2598.1
70°	2565.3	2556.0	2551.9	2568.3	2599.1	2663.8	2758.2	2884.4	3000.3	3049.6	3004.4
72°	2481.1	2468.8	2465.7	2500.6	2560.1	2665.8	2840.3	3043.4	3228.1	3296.9	3211.7
72.5°	2438.0	2427.8	2426.7	2459.6	2524.2	2630.9	2802.3	3011.6	3209.7	3284.6	3193.2
75°	2263.6	2253.3	2263.6	2300.5	2365.2	2480.1	2654.5	2850.5	3029.1	3097.8	3008.5
77.5°	2022.5	2004.0	2013.2	2064.5	2136.4	2261.5	2446.2	2678.1	2850.5	2832.1	2699.7
80°	1614.1	1573.0	1617.1	1632.5	1714.6	1798.8	1977.3	2080.9	2140.5	2143.5	2049.1
82.5°	704.9	721.4	776.8	822.9	881.4	978.9	1050.7	1162.6	1292.9	1353.4	1280.6
85°	46.2	57.5	91.3	108.8	150.8	183.7	263.7	383.8	462.8	529.5	446.4
87.5°	8.2	11.3	20.5	24.6	26.7	29.8	29.8	41.0	43.1	34.9	39.0
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: P140601

CATALOG NUMBER: ECM-E03-LED-E1-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	843.5	843.5	843.5	843.5	843.5	843.5	843.5	843.5
2.5°	843.5	843.5	844.5	843.5	843.5	843.5	842.4	842.4
5°	844.5	844.5	845.5	845.5	844.5	844.5	844.5	844.5
7.5°	847.6	846.5	847.6	847.6	846.5	846.5	845.5	846.5
10°	848.6	848.6	849.6	849.6	848.6	848.6	848.6	848.6
12.5°	851.7	851.7	851.7	852.7	851.7	851.7	852.7	851.7
15°	854.7	853.7	853.7	853.7	853.7	854.7	854.7	855.8
17.5°	857.8	857.8	856.8	857.8	857.8	858.9	858.9	858.9
20°	864.0	863.0	860.9	863.0	863.0	863.0	863.0	864.0
22.5°	873.2	871.2	869.1	869.1	868.1	869.1	868.1	868.1
25°	886.6	883.5	880.4	879.4	878.3	877.3	876.3	877.3
27.5°	906.1	901.9	897.8	895.8	894.8	892.7	891.7	891.7
30°	927.6	924.5	918.4	916.3	913.2	910.2	910.2	909.1
32.5°	960.4	956.3	949.1	946.1	940.9	937.9	936.8	936.8
35°	994.3	989.2	986.1	982.0	975.8	972.7	971.7	971.7
37.5°	1045.6	1039.4	1035.3	1030.2	1029.2	1025.1	1025.1	1025.1
40°	1112.3	1107.2	1102.0	1097.9	1094.9	1091.8	1087.7	1087.7
42.5°	1194.4	1186.2	1183.1	1178.0	1173.9	1170.8	1168.7	1168.7
45°	1284.7	1277.5	1273.4	1266.2	1265.2	1263.1	1259.0	1259.0
47.5°	1386.3	1376.0	1367.8	1365.7	1360.6	1355.5	1353.4	1354.5
50°	1497.1	1479.6	1468.4	1468.4	1462.2	1455.0	1456.0	1455.0
52.5°	1611.0	1591.5	1577.1	1566.9	1559.7	1558.7	1559.7	1558.7
55°	1725.9	1705.4	1687.9	1676.7	1669.5	1662.3	1661.3	1661.3
57.5°	1844.9	1819.3	1791.6	1781.3	1774.1	1770.0	1770.0	1771.1
60°	1979.4	1937.3	1902.4	1889.1	1883.9	1886.0	1885.0	1886.0
62.5°	2115.8	2067.6	2026.6	2011.2	2004.0	2003.0	2011.2	2014.2
65°	2288.2	2228.7	2182.5	2153.8	2153.8	2150.7	2160.0	2155.8
67.5°	2512.9	2428.8	2372.4	2326.2	2327.2	2330.3	2343.6	2342.6
70°	2895.7	2746.9	2642.2	2563.2	2532.4	2511.9	2507.8	2507.8
72°	3013.7	2792.0	2619.6	2495.5	2431.9	2392.9	2381.6	2369.3
72.5°	2982.9	2755.1	2580.7	2451.4	2385.7	2346.7	2329.3	2313.9
75°	2789.0	2534.5	2344.7	2209.2	2136.4	2089.2	2079.9	2072.7
77.5°	2460.6	2234.9	2038.9	1898.3	1825.4	1764.9	1740.3	1738.2
80°	1897.3	1694.1	1543.3	1433.5	1367.8	1322.6	1324.7	1310.3
82.5°	1119.5	948.1	818.8	672.1	575.6	520.2	485.3	481.2
85°	329.4	223.7	142.6	102.6	73.9	55.4	41.0	36.9
87.5°	29.8	23.6	19.5	16.4	15.4	13.3	8.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)