

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: P180193

Luminaire Tested: **ICM-F04-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180193  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F04-LED-E1-5XQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9769.3 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

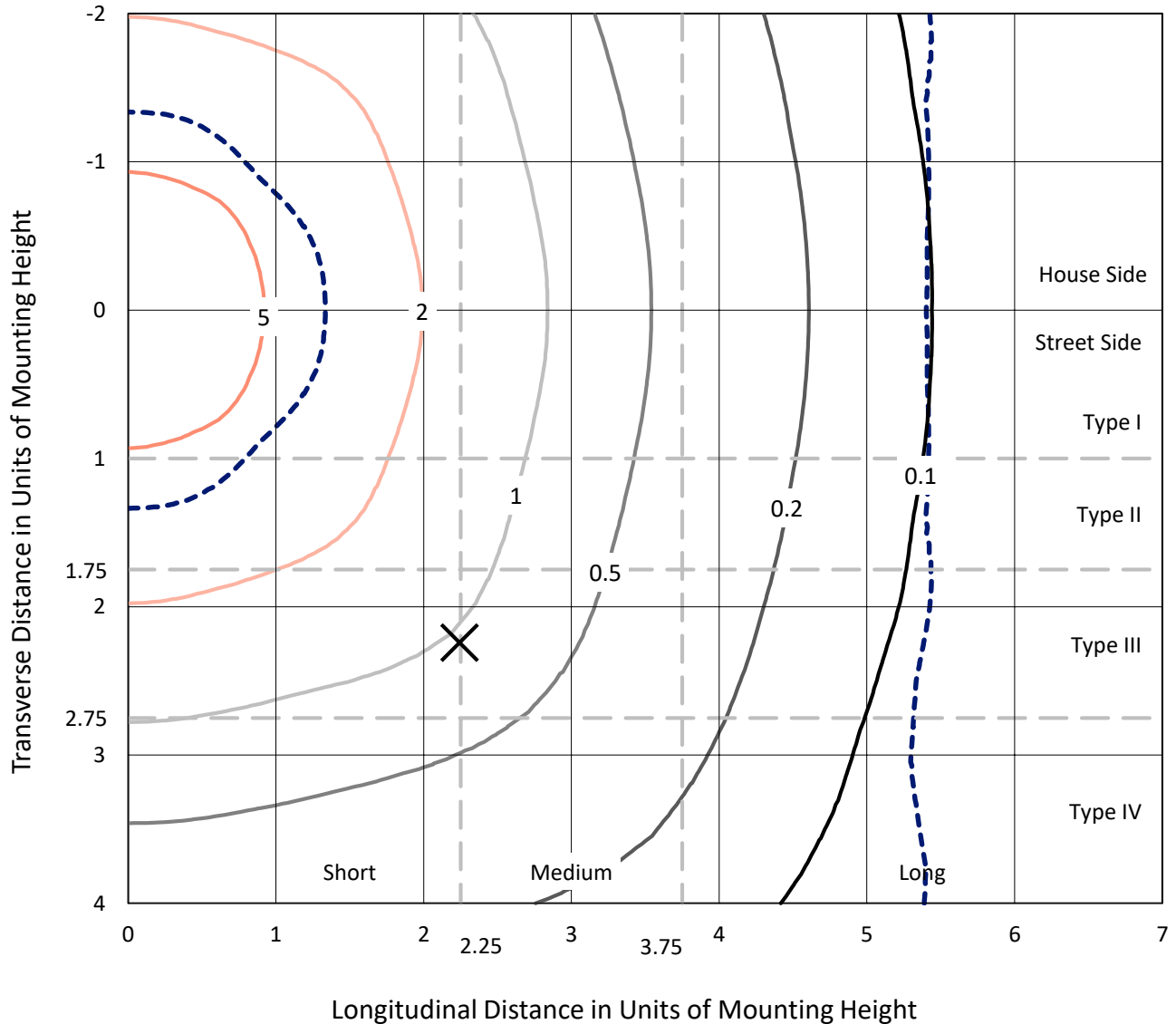
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

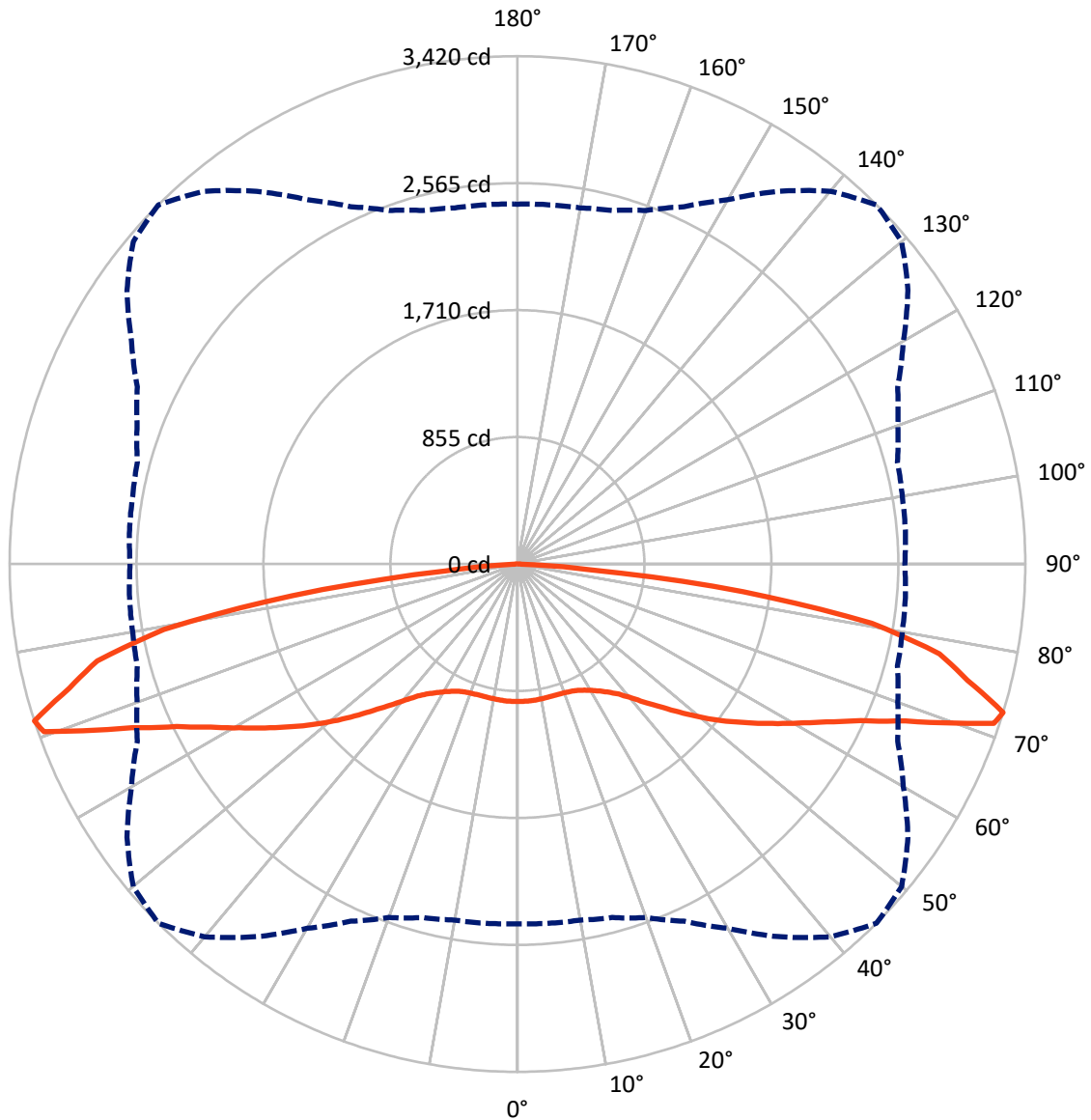
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4884.6	0.0	4884.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4884.6	0.0	4884.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9769.3	0.0	9769.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	0.9
10°-20°	260.9	2.7
20°-30°	437.0	4.5
30°-40°	666.2	6.8
40°-50°	1063.7	10.9
50°-60°	1635.5	16.7
60°-70°	2381.4	24.4
70°-80°	2682.6	27.5
80°-90°	553.8	5.7
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°	9769.3	100.0
0°-180°	9769.3	100.0



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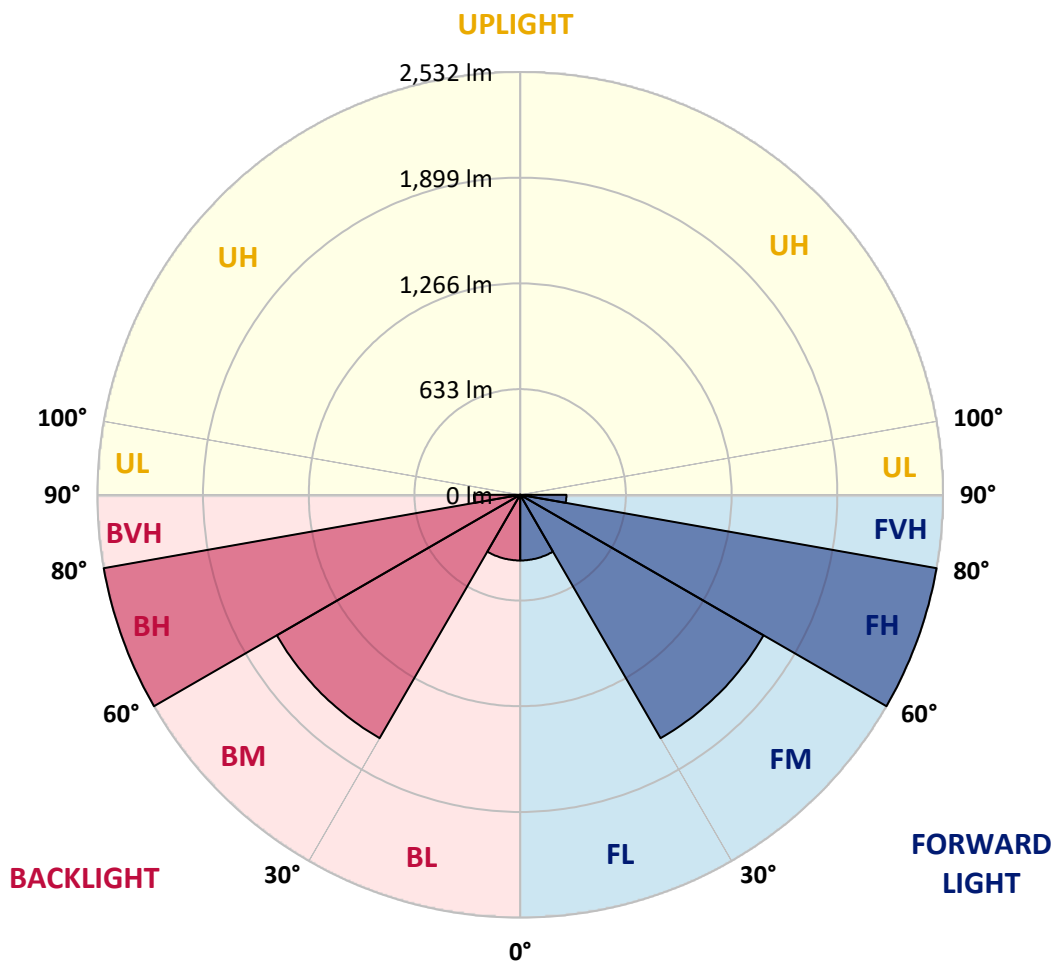
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.1	4.0			
FM	(30°-60°)	1682.7	17.2			
FH	(60°-80°)	2532.0	25.9			G2/5000
FVH	(80°-90°)	276.9	2.8			G3/500
BL	(0°-30°)	393.1	4.0	B1/500		
BM	(30°-60°)	1682.7	17.2	B2/2500		
BH	(60°-80°)	2532.0	25.9	B4/5000		G2/5000
BVH	(80°-90°)	276.9	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6
2.5°	927.1	927.6	927.4	926.9	927.1	926.9	926.3	926.1	924.3	925.3	926.9
5°	927.1	926.6	926.3	926.1	926.1	926.9	926.1	925.3	925.0	925.6	924.8
7.5°	926.6	925.6	925.0	924.8	925.0	925.3	924.6	923.5	924.3	923.5	922.5
10°	925.0	924.3	924.6	923.5	923.8	923.5	922.5	921.8	922.2	921.5	920.2
12.5°	925.6	924.3	924.1	923.5	923.3	923.0	921.8	920.5	920.7	920.2	918.9
15°	925.6	924.8	924.6	923.5	923.3	922.8	921.2	920.7	920.7	920.0	918.4
17.5°	926.1	925.6	925.6	924.3	923.8	923.5	921.8	920.9	921.8	920.2	919.2
20°	927.6	927.1	927.4	926.6	925.6	925.6	924.3	923.8	924.1	923.8	920.9
22.5°	930.7	930.7	931.2	931.0	930.7	931.0	930.0	930.0	930.2	930.2	927.9
25°	939.4	939.2	939.7	939.7	939.9	941.8	940.9	940.7	942.0	942.0	939.7
27.5°	955.8	955.4	955.8	956.4	957.6	959.9	959.4	960.2	962.2	961.7	959.6
30°	974.8	974.3	975.5	977.1	978.1	981.7	980.2	984.0	985.8	987.4	985.8
32.5°	1002.4	1002.4	1004.8	1005.8	1008.0	1011.6	1012.1	1015.3	1017.5	1020.1	1018.2
35°	1039.3	1038.7	1040.6	1042.3	1045.1	1048.5	1049.8	1053.9	1057.5	1059.3	1055.9
37.5°	1095.6	1092.8	1096.1	1097.1	1099.4	1100.2	1103.8	1108.8	1112.8	1112.2	1110.0
40°	1171.9	1171.4	1170.1	1168.6	1172.1	1173.4	1173.4	1180.3	1186.4	1185.5	1185.2
42.5°	1260.9	1258.6	1257.1	1257.1	1259.2	1259.6	1267.5	1272.8	1277.0	1278.1	1277.1
45°	1356.7	1354.4	1354.9	1353.9	1354.6	1358.0	1362.6	1372.1	1380.3	1380.5	1376.1
47.5°	1459.5	1452.5	1458.1	1450.1	1455.0	1457.5	1469.0	1482.9	1497.2	1499.7	1495.9
50°	1564.0	1563.3	1562.7	1561.2	1563.5	1569.1	1583.3	1605.0	1618.8	1628.0	1621.9
52.5°	1678.1	1674.3	1672.6	1670.0	1672.3	1683.4	1703.1	1722.0	1746.8	1757.3	1748.8
55°	1789.2	1788.0	1781.3	1781.1	1786.0	1803.1	1824.6	1847.9	1874.8	1886.5	1883.5
57.5°	1903.5	1896.0	1894.0	1890.9	1900.7	1916.8	1943.1	1985.1	2013.0	2026.3	2018.6
60°	2015.1	2009.4	2005.1	2004.1	2010.7	2033.2	2071.1	2121.5	2156.1	2173.5	2161.2
62.5°	2134.9	2131.4	2126.2	2120.3	2134.3	2163.3	2210.3	2266.2	2317.1	2338.6	2319.9
65°	2283.8	2276.4	2270.8	2263.4	2274.9	2311.3	2370.4	2448.9	2517.3	2542.3	2529.1
67.5°	2440.9	2434.1	2434.6	2430.0	2450.4	2500.9	2577.2	2683.9	2775.6	2818.3	2793.2
70°	2578.2	2582.1	2583.1	2601.8	2637.1	2713.9	2840.9	3008.0	3147.0	3212.3	3185.4
71°	2537.8	2546.2	2559.3	2578.7	2639.6	2730.5	2903.8	3106.3	3272.2	3382.7	3345.7
72.5°	2423.1	2428.2	2434.8	2464.6	2533.4	2653.7	2832.2	3063.6	3276.8	3419.8	3376.9
75°	2257.1	2262.1	2264.4	2285.1	2347.8	2452.8	2616.1	2821.4	3009.5	3131.4	3119.4
77.5°	2006.9	2007.6	2025.6	2057.5	2127.9	2248.0	2420.0	2632.9	2809.9	2904.6	2844.5
80°	1441.1	1431.5	1449.9	1491.1	1578.1	1715.8	1891.9	2135.1	2331.5	2420.0	2326.9
82.5°	548.3	578.0	624.8	692.9	722.3	875.4	1039.8	1182.6	1348.0	1532.8	1486.4
85°	58.9	66.3	83.2	103.2	130.2	180.3	249.1	339.9	419.0	492.5	437.2
87.5°	22.0	22.5	25.1	28.9	29.4	30.7	32.7	38.1	35.5	30.7	24.8
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°	925.6	925.6	925.6	925.6	925.6	925.6	925.6	925.6
2.5°	925.6	925.9	925.6	925.9	925.9	924.8	925.0	924.6
5°	925.3	924.6	924.8	925.0	924.8	925.3	924.6	925.0
7.5°	924.1	922.5	923.0	923.0	922.5	923.3	922.8	922.5
10°	921.5	919.4	920.5	920.0	919.7	920.0	920.0	920.0
12.5°	919.2	918.0	918.1	918.0	917.7	918.4	918.1	918.4
15°	918.7	916.7	916.4	915.9	916.1	916.7	916.7	917.4
17.5°	918.1	915.6	915.4	914.8	915.1	916.1	916.4	915.9
20°	919.7	917.7	917.1	916.7	916.4	917.7	917.4	917.4
22.5°	926.9	924.3	924.1	922.1	921.2	922.1	921.5	921.5
25°	938.4	935.3	934.3	931.4	929.4	929.4	928.7	928.2
27.5°	959.2	954.5	953.5	951.3	948.4	948.9	947.4	947.2
30°	983.3	979.2	975.5	972.2	968.9	967.6	965.8	965.6
32.5°	1014.7	1010.1	1005.8	1001.7	997.0	995.3	992.2	990.7
35°	1053.4	1047.3	1042.1	1039.3	1034.6	1032.4	1030.3	1032.6
37.5°	1107.4	1099.9	1097.4	1094.1	1091.0	1087.4	1088.2	1087.4
40°	1182.1	1175.4	1172.9	1167.0	1166.2	1162.1	1164.7	1162.1
42.5°	1274.5	1262.2	1260.4	1255.8	1254.3	1252.0	1253.0	1251.2
45°	1375.1	1364.1	1362.1	1354.6	1354.9	1349.6	1351.6	1351.5
47.5°	1488.3	1476.8	1467.3	1461.9	1459.8	1456.5	1458.3	1458.1
50°	1605.0	1589.4	1578.9	1568.4	1563.7	1565.0	1561.5	1567.6
52.5°	1730.4	1707.2	1692.3	1682.2	1673.6	1675.4	1675.9	1677.7
55°	1860.2	1830.5	1808.9	1795.9	1788.0	1788.6	1790.9	1792.9
57.5°	1990.8	1953.6	1924.5	1904.9	1899.9	1902.2	1902.2	1902.0
60°	2126.2	2081.6	2044.0	2022.0	2017.3	2016.0	2026.1	2022.7
62.5°	2271.5	2218.1	2179.2	2151.0	2144.3	2148.9	2157.9	2155.8
65°	2464.3	2390.3	2340.1	2312.3	2301.0	2305.6	2317.6	2317.0
67.5°	2712.9	2609.4	2543.1	2507.3	2499.1	2504.8	2511.5	2517.8
70°	3084.5	2936.9	2842.1	2764.6	2731.3	2724.9	2731.6	2731.7
71°	3215.4	3045.6	2894.9	2800.1	2745.6	2722.6	2724.4	2712.9
72.5°	3210.0	3000.9	2824.5	2725.4	2649.6	2631.2	2622.2	2608.4
75°	2993.7	2805.2	2652.2	2544.2	2471.2	2449.4	2433.6	2432.8
77.5°	2714.9	2575.9	2407.3	2292.9	2203.9	2167.9	2151.7	2151.2
80°	2182.5	1974.3	1851.0	1782.2	1674.8	1643.9	1611.2	1598.9
82.5°	1319.8	1031.4	838.5	745.1	693.4	571.1	512.5	484.8
85°	307.4	218.4	150.5	98.8	71.2	56.6	43.5	38.3
87.5°	20.7	16.4	14.6	11.7	8.9	8.7	5.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)