

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: P180092

Luminaire Tested: **ICM-F04-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180092  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F04-LED-E1-5WQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8932.4 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

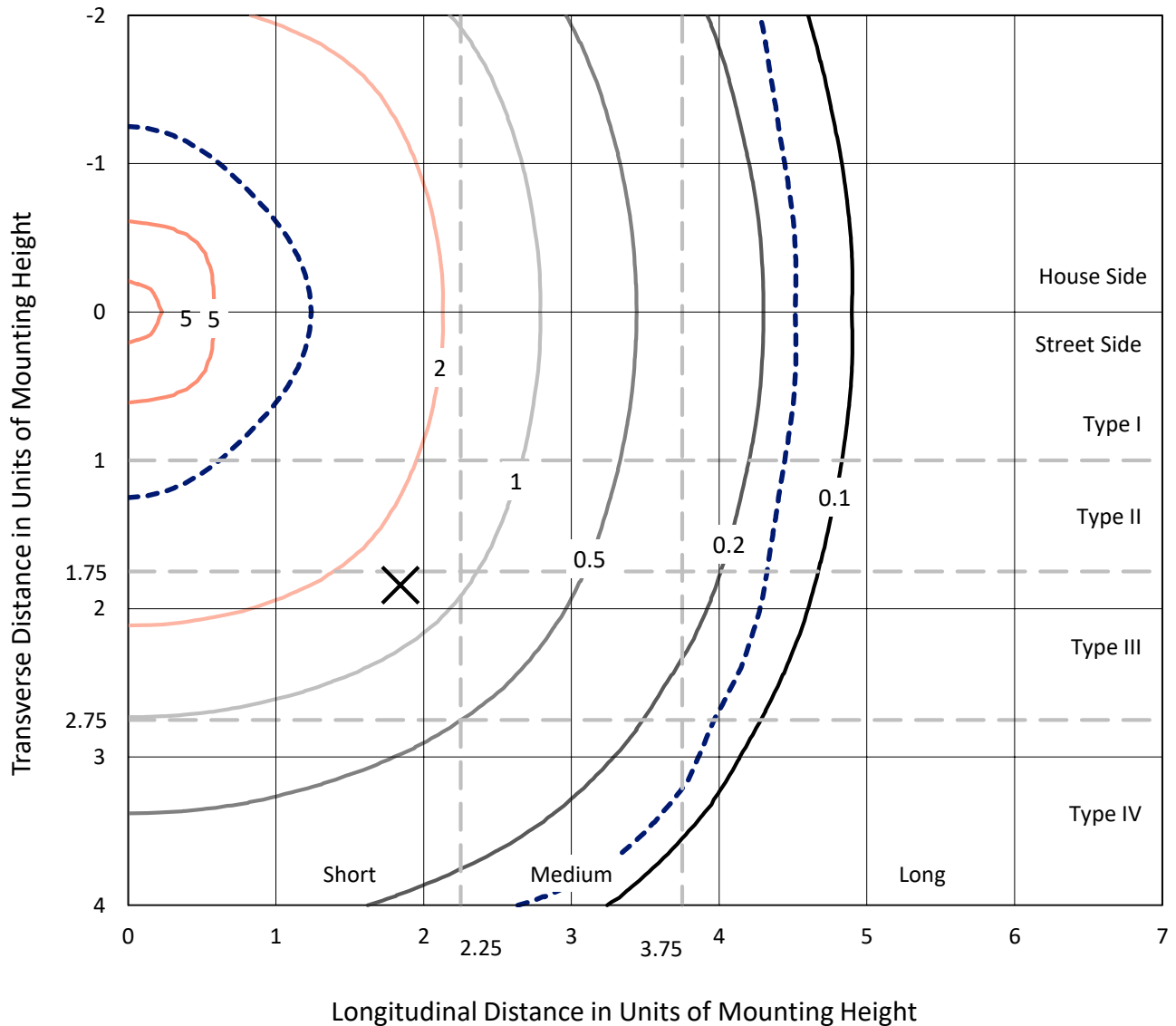
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

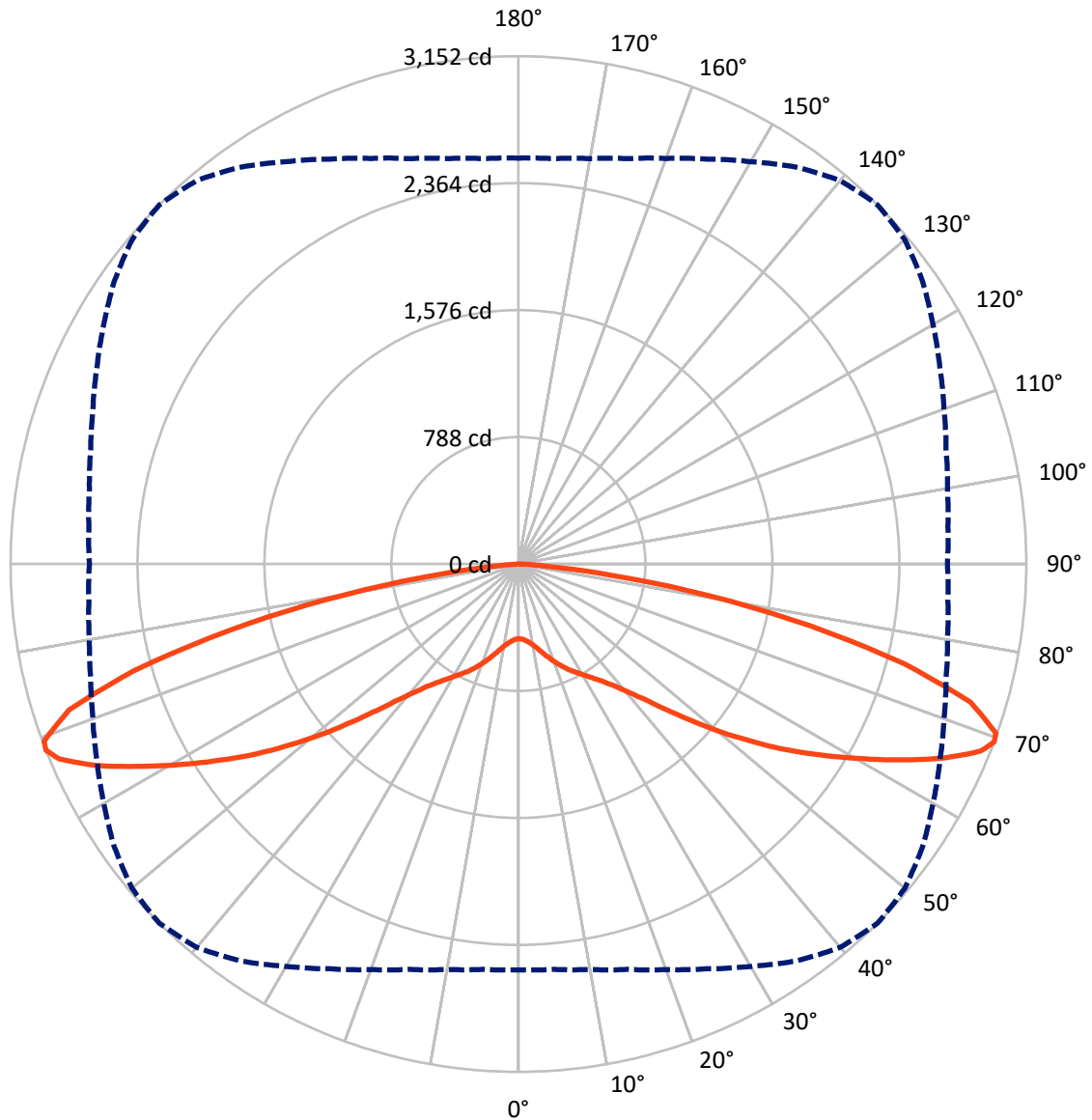


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4466.2	0.0	4466.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4466.2	0.0	4466.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8932.4	0.0	8932.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.6	0.5
10°-20°	164.5	1.8
20°-30°	333.0	3.7
30°-40°	558.4	6.3
40°-50°	984.9	11.0
50°-60°	1736.8	19.4
60°-70°	2651.7	29.7
70°-80°	2215.8	24.8
80°-90°	240.8	2.7
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°	8932.4	100.0
0°-180°	8932.4	100.0



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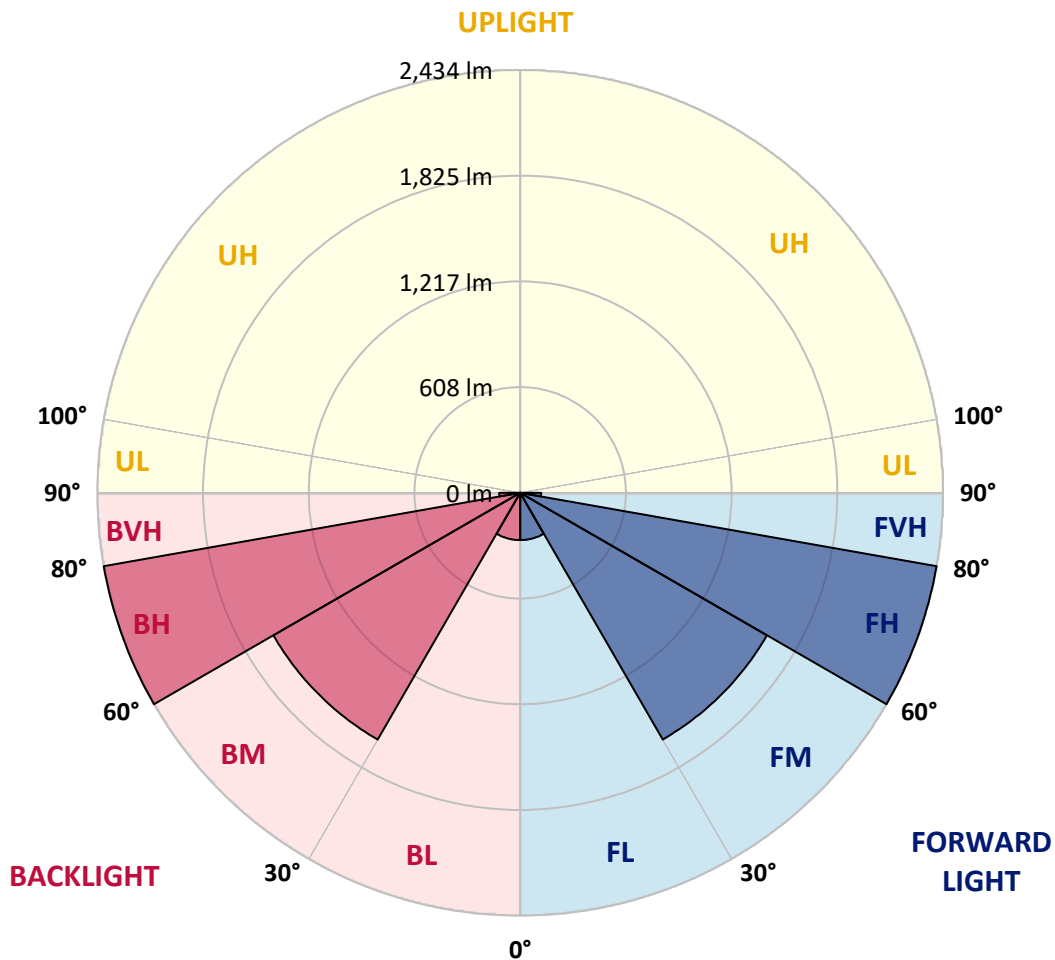
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.0	3.0			
FM (30°-60°)	1640.1	18.4			
FH (60°-80°)	2433.7	27.2			G2/5000
FVH (80°-90°)	120.4	1.3			G2/225
BL (0°-30°)	272.0	3.0	B1/500		
BM (30°-60°)	1640.1	18.4	B2/2500		
BH (60°-80°)	2433.7	27.2	B3/2500		G2/5000
BVH (80°-90°)	120.4	1.3			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°	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8
2.5°	467.6	468.6	467.6	467.6	467.6	467.6	467.6	466.7	466.7	466.7	467.6
5°	476.9	477.9	476.9	477.9	477.9	477.9	477.9	476.9	476.9	476.9	476.9
7.5°	491.9	491.9	491.9	492.8	491.9	491.9	492.8	491.9	491.9	491.9	491.9
10°	513.4	512.5	512.5	512.5	512.5	512.5	513.4	513.4	513.4	512.5	512.5
12.5°	539.6	538.7	539.6	539.6	540.6	540.6	540.6	540.6	540.6	540.6	539.6
15°	571.4	571.4	571.4	572.4	574.2	574.2	573.3	574.2	574.2	574.2	574.2
17.5°	607.0	608.8	607.0	607.9	608.8	607.9	609.8	610.7	611.6	610.7	607.9
20°	643.4	644.4	644.4	644.4	644.4	646.2	647.2	647.2	650.0	649.0	648.1
22.5°	678.1	679.9	679.9	680.8	680.8	683.6	683.6	683.6	685.5	687.4	685.5
25°	714.5	713.6	713.6	715.4	716.4	720.1	720.1	722.0	724.7	725.7	723.8
27.5°	747.3	746.2	746.2	749.1	750.1	754.7	754.7	758.4	760.3	761.2	759.4
30°	781.9	781.9	780.8	783.7	786.5	790.2	792.1	795.8	798.6	799.6	797.7
32.5°	823.0	821.1	822.1	823.9	825.8	829.5	832.3	837.0	840.7	841.7	839.8
35°	869.8	866.9	867.8	869.8	872.6	878.1	882.8	885.6	891.3	893.1	889.4
37.5°	921.1	922.1	921.1	925.9	930.5	937.0	942.7	946.4	952.0	954.8	952.0
40°	994.1	991.3	994.1	998.8	1006.2	1014.7	1025.9	1028.8	1034.3	1039.9	1033.4
42.5°	1088.6	1086.7	1093.2	1096.9	1105.4	1114.7	1128.8	1136.3	1144.7	1148.4	1142.8
45°	1212.0	1212.0	1219.4	1220.4	1233.5	1245.7	1265.3	1274.7	1290.5	1290.5	1290.5
47.5°	1348.6	1354.1	1358.8	1368.2	1377.5	1400.0	1419.6	1440.2	1455.2	1457.0	1454.2
50°	1489.8	1495.4	1509.4	1522.5	1543.1	1571.1	1592.7	1619.7	1632.8	1644.1	1640.3
52.5°	1646.0	1646.9	1663.7	1680.6	1710.4	1741.3	1775.9	1804.0	1827.4	1837.7	1829.2
55°	1817.0	1819.0	1833.9	1851.6	1885.3	1920.8	1963.9	1992.8	2022.8	2041.5	2027.5
57.5°	2002.2	2003.2	2018.2	2039.6	2079.8	2115.4	2156.6	2197.7	2225.8	2242.6	2233.2
60°	2207.1	2211.7	2223.0	2250.1	2288.4	2325.8	2367.0	2403.5	2436.2	2454.0	2444.6
62.5°	2425.9	2430.5	2446.4	2468.0	2501.6	2542.8	2582.1	2628.9	2655.9	2675.6	2661.6
65°	2572.7	2581.1	2606.3	2635.4	2684.9	2738.2	2784.1	2847.6	2880.4	2903.7	2890.7
67.5°	2582.1	2586.7	2617.6	2661.6	2727.9	2808.4	2901.9	3001.0	3065.6	3096.4	3074.0
69°	2518.4	2525.0	2554.9	2604.5	2678.3	2771.9	2883.2	3006.6	3105.8	3151.6	3130.1
70°	2446.4	2460.5	2493.2	2547.5	2619.5	2717.7	2832.7	2964.6	3080.5	3143.2	3127.3
72.5°	2295.0	2298.7	2320.2	2363.3	2418.4	2499.7	2608.3	2732.7	2843.0	2932.8	2945.9
75°	2036.8	2049.0	2064.9	2093.9	2122.0	2180.9	2253.8	2338.9	2403.5	2472.7	2475.5
77.5°	1539.4	1575.8	1587.9	1594.5	1606.6	1653.4	1717.0	1790.9	1844.2	1855.5	1853.6
80°	691.1	739.7	751.0	804.3	837.0	914.6	1011.9	1125.0	1200.8	1209.2	1188.7
82.5°	135.6	144.9	169.3	211.4	288.0	333.9	397.5	476.9	549.9	592.0	566.7
85°	44.9	47.7	55.2	60.7	70.1	79.5	96.3	119.7	148.7	164.6	146.8
87.5°	17.8	17.8	20.6	22.4	24.3	24.3	24.3	22.4	21.5	17.8	15.9
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°	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8
2.5°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7
5°	476.9	476.0	476.0	475.1	475.1	475.1	475.1	475.1
7.5°	491.0	490.0	489.1	490.0	489.1	489.1	489.1	489.1
10°	512.5	510.6	509.7	508.7	508.7	508.7	507.8	507.8
12.5°	537.8	537.8	536.8	535.9	534.0	534.9	534.0	532.1
15°	572.4	570.4	569.5	568.6	566.7	566.7	566.7	565.8
17.5°	607.0	605.0	605.0	602.2	601.3	601.3	601.3	602.2
20°	645.3	642.5	640.6	638.7	636.8	637.8	635.9	637.8
22.5°	683.6	679.9	678.1	675.2	672.4	672.4	671.4	669.6
25°	721.0	716.4	714.5	711.7	707.9	707.9	706.1	704.2
27.5°	756.6	751.9	750.1	744.4	740.7	739.7	737.9	736.9
30°	795.8	790.2	787.4	781.9	776.2	775.3	772.5	772.5
32.5°	837.0	831.4	829.5	821.1	816.4	816.4	814.5	812.7
35°	888.5	880.0	878.1	869.8	863.2	863.2	861.3	862.2
37.5°	949.2	942.7	936.1	929.6	922.1	921.1	919.3	917.4
40°	1030.6	1023.1	1015.6	1006.2	999.7	997.9	995.1	994.1
42.5°	1139.1	1131.5	1116.7	1109.1	1102.6	1096.9	1096.0	1095.1
45°	1277.5	1268.1	1257.9	1243.8	1235.4	1223.3	1221.4	1216.7
47.5°	1443.9	1426.1	1408.4	1396.2	1383.2	1369.1	1366.3	1358.8
50°	1620.7	1606.6	1576.8	1557.1	1536.5	1522.5	1513.1	1510.3
52.5°	1810.5	1784.4	1754.4	1728.2	1698.3	1679.6	1662.8	1658.1
55°	2008.8	1971.4	1934.0	1903.1	1873.2	1850.7	1834.8	1827.4
57.5°	2207.1	2165.9	2124.8	2091.1	2065.9	2036.8	2020.9	2017.2
60°	2413.7	2374.4	2332.4	2298.7	2267.8	2242.6	2233.2	2215.5
62.5°	2632.6	2591.5	2552.1	2519.4	2480.1	2462.3	2446.4	2436.2
65°	2847.6	2799.9	2750.4	2715.8	2676.5	2651.3	2631.6	2617.6
67.5°	3014.2	2942.2	2875.7	2817.7	2764.4	2725.1	2699.9	2686.8
69°	3060.9	2971.1	2886.0	2810.2	2747.6	2703.6	2675.6	2662.5
70°	3055.3	2956.1	2862.6	2779.4	2711.1	2664.4	2637.2	2612.9
72.5°	2882.3	2791.6	2687.7	2597.0	2535.3	2490.4	2463.3	2450.2
75°	2459.5	2398.8	2323.9	2253.8	2208.9	2182.7	2149.0	2150.0
77.5°	1790.9	1792.8	1742.2	1670.2	1619.7	1610.4	1595.5	1580.5
80°	1111.0	1022.1	964.2	886.5	829.5	779.9	758.4	711.7
82.5°	512.5	400.3	310.5	234.7	180.5	141.2	123.4	101.0
85°	114.0	87.0	72.0	58.0	49.6	45.9	37.4	34.6
87.5°	15.9	14.0	13.1	12.2	10.3	7.4	5.6	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)