

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: P180002

Luminaire Tested: **ICM-F05-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180002
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-5MQ-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11305.6 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

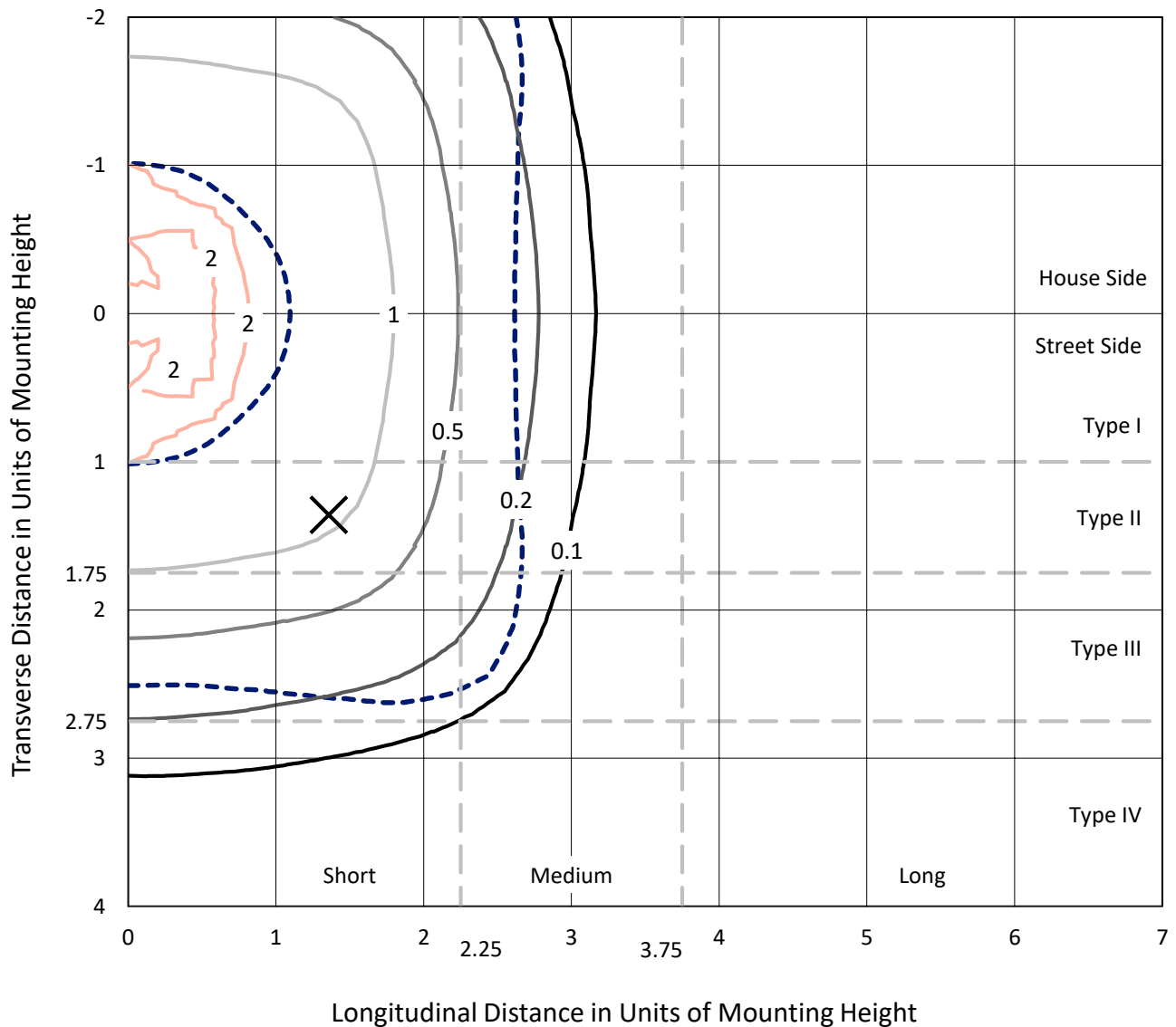
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

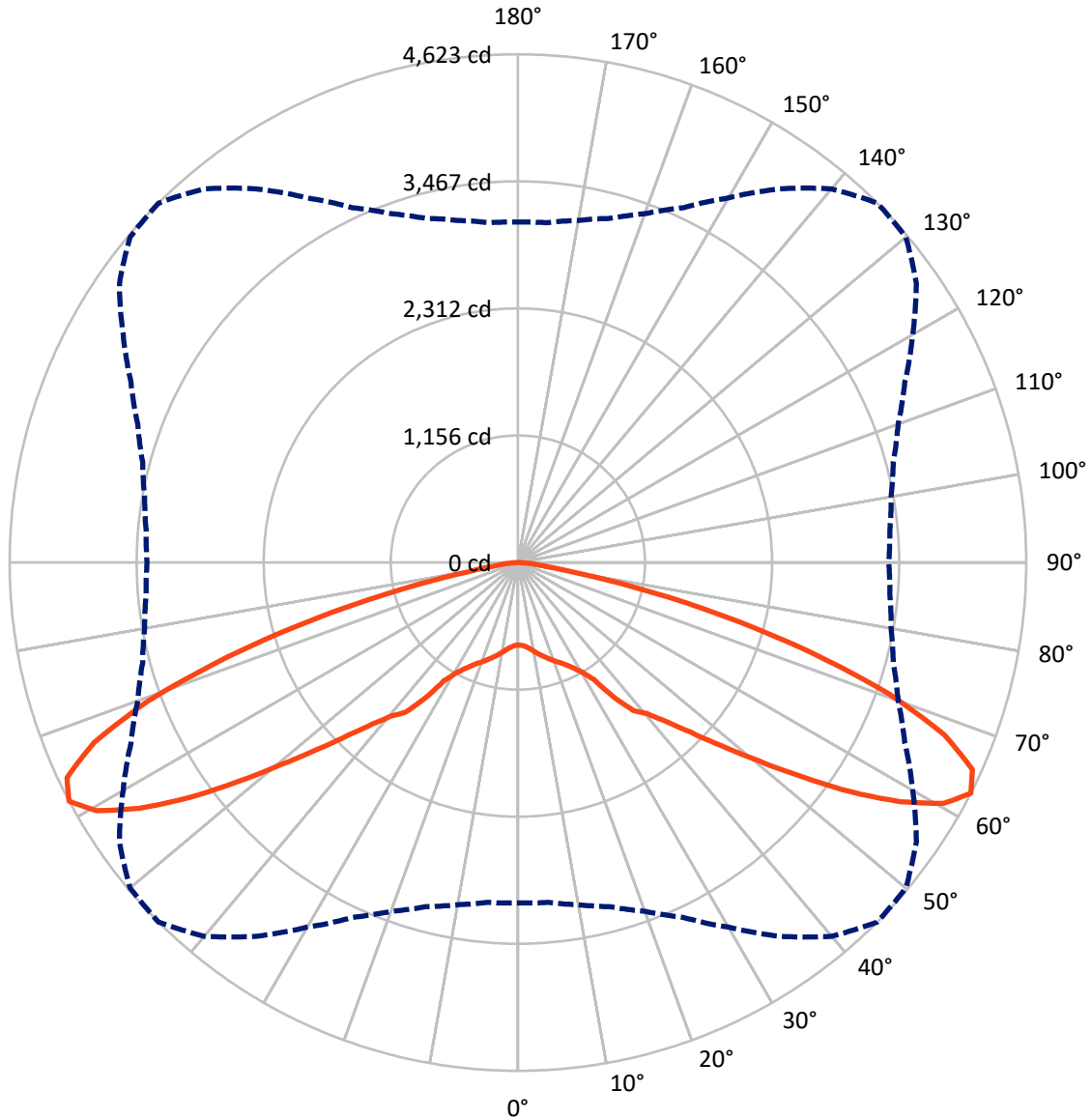
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5652.8	0.0	5652.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5652.8	0.0	5652.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11305.6	0.0	11305.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	0.7
10°-20°	254.2	2.2
20°-30°	491.6	4.3
30°-40°	951.7	8.4
40°-50°	1718.5	15.2
50°-60°	2988.2	26.4
60°-70°	3392.4	30.0
70°-80°	1315.2	11.6
80°-90°	118.7	1.0
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°	11305.6	100.0
0°-180°	11305.6	100.0



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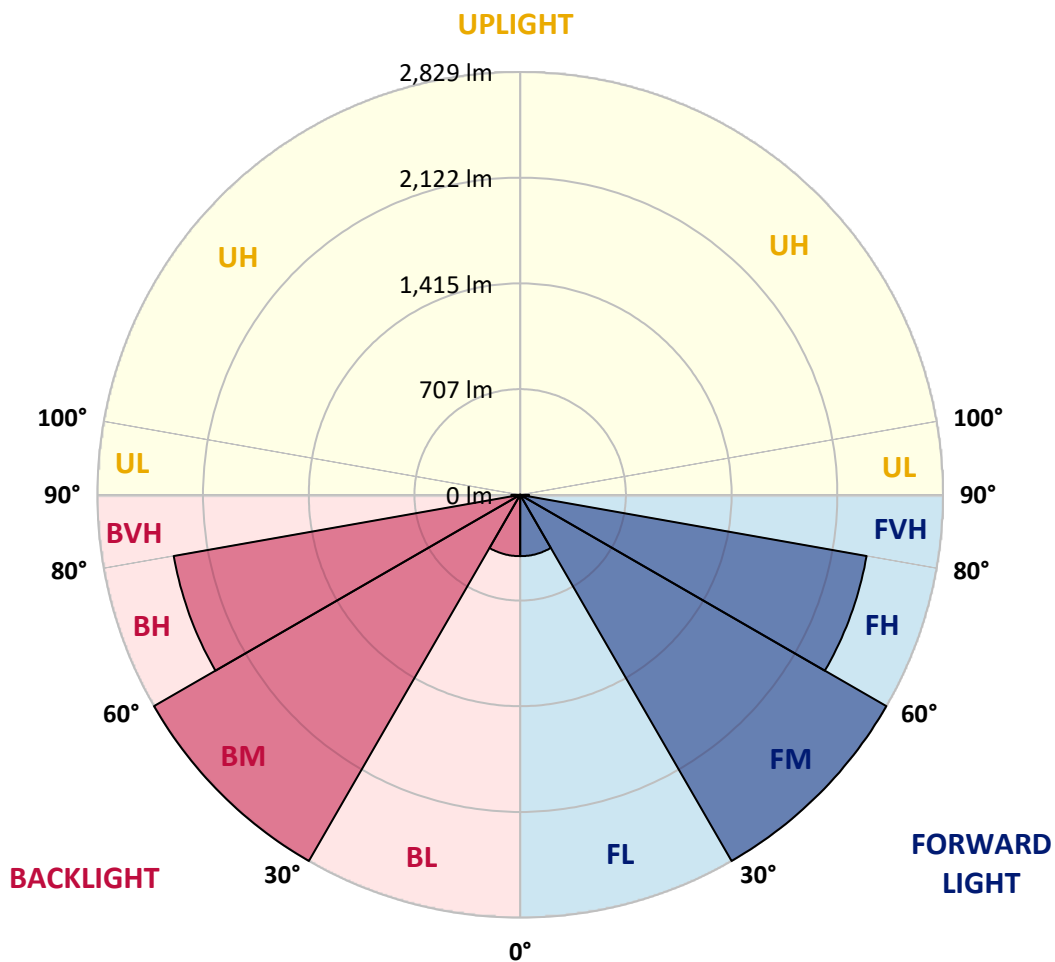
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.5	3.6			
FM	(30°-60°)	2829.2	25.0			
FH	(60°-80°)	2353.8	20.8			G2/5000
FVH	(80°-90°)	59.3	0.5			G1/100
BL	(0°-30°)	410.5	3.6	B1/500		
BM	(30°-60°)	2829.2	25.0	B3/5000		
BH	(60°-80°)	2353.8	20.8	B3/2500		G2/5000
BVH	(80°-90°)	59.3	0.5			G1/100
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°	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5
2.5°	755.2	757.5	756.9	755.7	755.7	755.7	755.2	753.4	752.7	754.1	755.2
5°	772.7	772.7	772.7	772.7	771.5	771.5	770.3	769.1	769.8	768.6	768.0
7.5°	799.6	797.9	797.8	797.2	797.2	796.1	794.2	792.0	792.6	792.0	791.4
10°	831.2	831.7	830.0	831.7	828.8	828.2	825.9	824.7	824.2	822.3	822.3
12.5°	869.2	867.4	867.4	866.2	865.1	863.8	860.4	859.7	857.5	856.3	854.5
15°	904.7	904.2	901.9	899.5	899.0	897.8	893.7	891.4	890.8	887.8	885.5
17.5°	940.5	939.4	936.4	935.3	932.8	931.1	927.6	924.1	922.3	921.1	918.2
20°	978.4	977.3	974.3	972.0	969.1	966.7	961.5	958.6	956.8	955.0	952.8
22.5°	1025.8	1023.4	1018.8	1014.7	1008.3	1006.0	998.9	994.8	991.8	989.6	988.4
25°	1077.2	1077.8	1071.4	1066.1	1058.5	1052.1	1043.4	1038.7	1035.7	1033.4	1032.8
27.5°	1141.6	1142.1	1136.3	1128.7	1117.0	1110.0	1098.2	1092.5	1090.6	1088.4	1087.7
30°	1243.2	1238.0	1228.0	1215.7	1205.2	1190.0	1173.0	1167.3	1161.4	1159.6	1159.6
32.5°	1430.2	1427.4	1419.2	1388.8	1374.7	1343.2	1313.3	1296.4	1277.1	1267.7	1262.0
35°	1561.1	1560.0	1553.6	1543.1	1534.3	1527.8	1510.3	1507.4	1503.9	1503.8	1508.6
37.5°	1657.7	1650.6	1649.5	1651.2	1648.8	1650.1	1664.0	1683.4	1699.7	1707.9	1706.7
40°	1800.2	1790.3	1796.1	1792.0	1786.8	1785.7	1790.3	1798.0	1805.5	1805.5	1803.7
42.5°	1986.7	1991.4	1993.7	1976.8	1965.6	1962.7	1973.8	1971.5	1979.2	1976.2	1968.6
45°	2263.8	2260.9	2256.8	2236.3	2218.8	2204.7	2207.6	2203.5	2204.1	2199.5	2193.6
47.5°	2543.1	2553.1	2536.1	2526.2	2506.2	2496.4	2504.6	2497.6	2511.0	2486.4	2474.7
50°	2814.3	2821.4	2815.5	2801.5	2801.5	2815.5	2825.5	2838.2	2856.9	2828.9	2786.9
52.5°	3036.5	3042.3	3051.0	3062.7	3091.4	3121.1	3163.3	3208.3	3243.9	3238.7	3190.7
55°	3172.1	3179.1	3193.7	3234.1	3285.4	3363.7	3459.0	3563.6	3645.5	3685.2	3650.2
57.5°	3217.7	3222.9	3262.7	3311.1	3391.3	3507.6	3667.2	3847.7	4005.0	4104.9	4089.1
60°	3207.1	3207.1	3247.5	3314.1	3426.3	3580.7	3806.3	4056.4	4297.2	4446.8	4424.6
62.5°	3096.7	3102.5	3160.4	3240.4	3376.0	3560.8	3829.6	4149.3	4437.4	4623.3	4605.2
65°	2854.7	2858.8	2921.3	3016.6	3168.0	3386.5	3680.6	4034.8	4365.0	4543.8	4510.0
67.5°	2463.6	2467.7	2518.5	2626.2	2786.2	3014.8	3332.2	3722.1	4045.2	4186.7	4085.0
70°	1959.8	1971.5	2004.3	2118.2	2239.8	2463.6	2755.9	3145.7	3450.8	3584.8	3472.5
72.5°	1335.5	1365.4	1405.1	1506.2	1622.5	1808.4	2041.1	2369.5	2614.4	2769.3	2669.4
75°	752.3	794.3	806.6	883.2	979.0	1125.8	1295.8	1531.4	1778.6	1904.3	1783.8
77.5°	325.0	359.4	374.7	410.3	485.1	546.5	650.0	808.9	1000.0	1088.3	944.0
80°	160.2	168.4	174.8	185.9	206.9	226.8	275.9	345.5	423.8	443.6	353.0
82.5°	123.9	129.8	140.8	149.6	154.9	160.1	164.7	174.1	181.8	185.9	175.3
85°	87.1	94.7	107.0	116.9	122.8	126.9	131.0	133.9	126.9	115.7	121.5
87.5°	22.8	29.8	41.5	44.9	50.8	53.8	52.7	54.3	49.1	35.7	39.7
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°	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5
2.5°	754.6	754.1	754.6	754.6	754.6	754.1	754.1	754.0
5°	768.0	768.0	768.6	767.4	767.4	768.0	767.4	766.9
7.5°	790.8	790.2	790.2	789.7	790.2	789.6	789.6	789.0
10°	821.2	820.1	820.7	818.9	818.9	818.2	818.2	818.3
12.5°	854.0	852.2	852.8	851.0	848.1	848.7	849.3	848.7
15°	885.5	883.7	882.1	880.7	879.1	879.6	879.6	879.1
17.5°	917.6	914.1	913.6	911.8	911.3	911.3	911.3	911.8
20°	951.0	948.7	948.1	946.3	945.7	947.4	948.1	946.9
22.5°	986.6	985.5	986.6	985.5	987.2	988.4	989.0	987.8
25°	1031.6	1030.5	1032.2	1036.3	1038.7	1039.8	1042.8	1041.6
27.5°	1089.5	1088.4	1092.5	1098.2	1101.8	1107.5	1110.5	1111.7
30°	1164.3	1169.5	1171.9	1183.6	1186.0	1195.4	1195.3	1199.4
32.5°	1273.0	1283.0	1300.5	1318.6	1343.7	1361.9	1361.9	1371.3
35°	1511.5	1515.5	1529.1	1531.9	1537.2	1543.1	1537.2	1541.9
37.5°	1694.4	1676.3	1663.5	1645.4	1634.2	1634.2	1635.4	1634.2
40°	1787.9	1781.0	1775.1	1759.9	1757.6	1757.0	1757.0	1759.4
42.5°	1955.2	1938.2	1928.8	1915.9	1911.8	1910.7	1910.2	1911.3
45°	2172.5	2145.1	2120.0	2107.2	2096.0	2085.5	2088.9	2088.9
47.5°	2425.7	2383.0	2342.1	2319.8	2300.6	2291.8	2286.0	2284.2
50°	2733.7	2674.1	2621.4	2579.9	2551.9	2551.3	2554.2	2535.6
52.5°	3111.3	3017.1	2951.6	2895.6	2869.3	2866.3	2856.9	2846.5
55°	3529.8	3418.2	3310.0	3249.8	3215.3	3196.7	3185.5	3167.9
57.5°	3961.1	3810.9	3655.5	3559.0	3498.3	3456.1	3433.9	3423.9
60°	4293.6	4088.6	3883.4	3728.5	3627.4	3564.9	3526.3	3510.4
62.5°	4424.6	4146.4	3883.4	3680.0	3533.8	3447.3	3395.4	3372.6
65°	4268.6	3938.9	3639.7	3415.3	3252.1	3155.6	3099.0	3074.4
67.5°	3832.6	3541.4	3215.8	2992.6	2824.9	2729.6	2668.2	2650.1
70°	3212.9	2915.5	2604.5	2405.2	2255.5	2177.9	2114.1	2106.5
72.5°	2414.5	2158.0	1891.4	1726.6	1606.1	1477.6	1444.8	1461.2
75°	1547.7	1307.5	1070.2	921.7	811.9	689.1	641.8	653.5
77.5°	733.0	567.5	409.7	316.8	266.0	227.4	217.5	211.6
80°	271.8	220.4	194.6	184.7	177.7	171.3	166.6	161.3
82.5°	175.9	171.9	166.6	164.7	159.5	151.4	136.2	129.8
85°	131.5	131.5	124.6	125.0	120.9	110.5	96.5	88.8
87.5°	38.5	34.4	31.6	29.2	28.7	25.7	18.7	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)