

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: P180068

Luminaire Tested: **ICM-E02-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180068
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-E02-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5923.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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

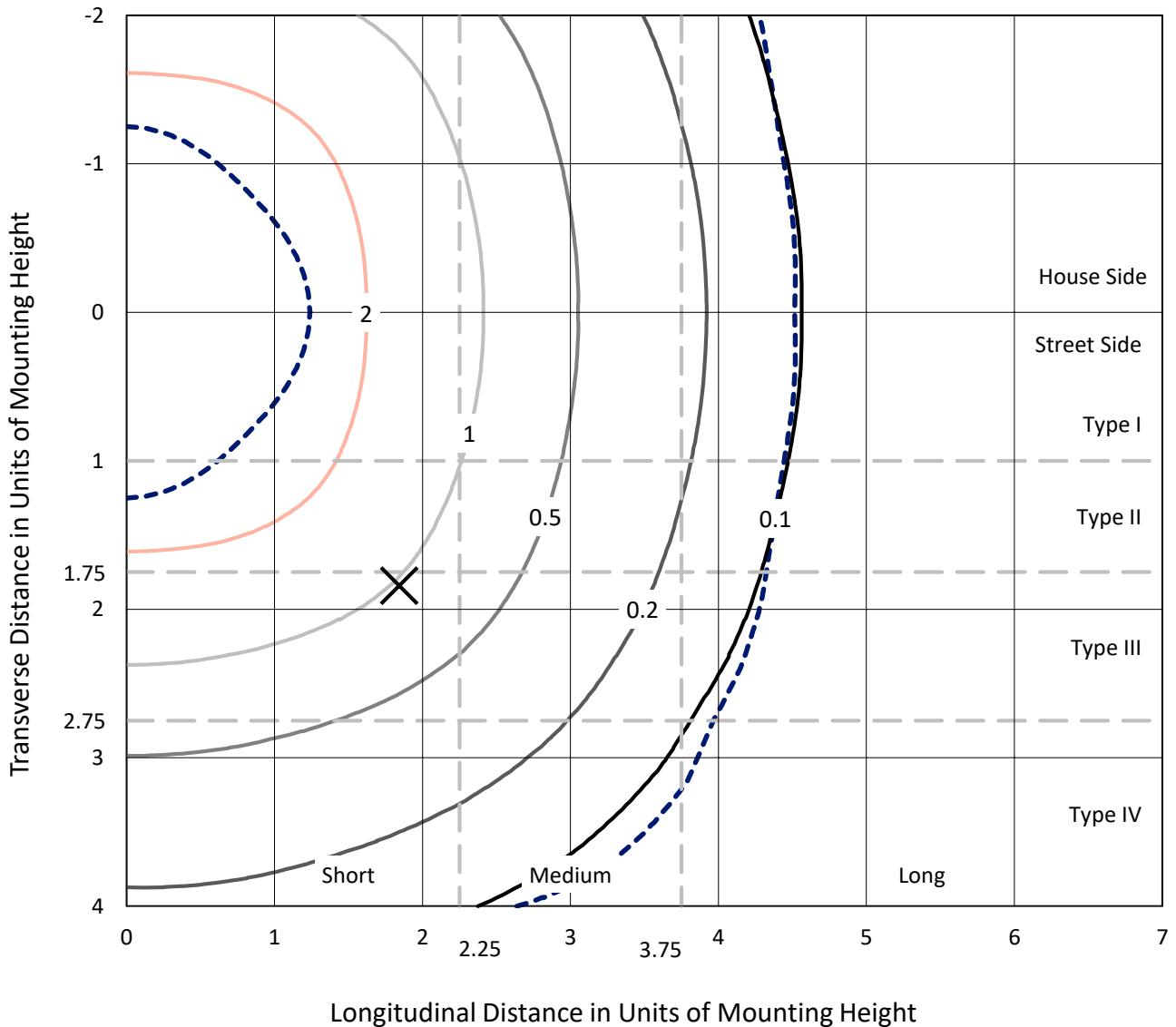


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Iso-Footcandle Lines of Horizontal Illumination

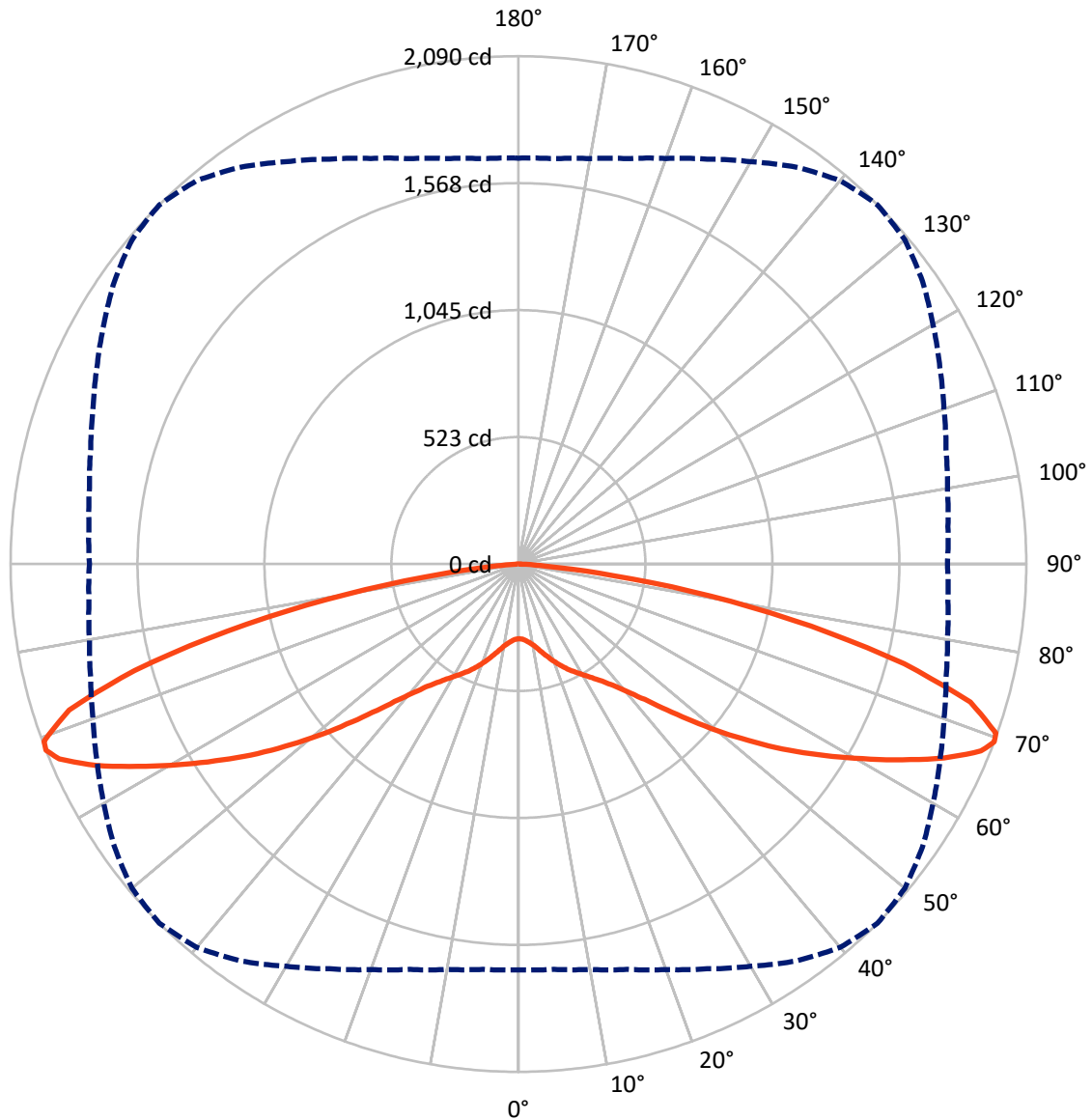
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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
House Side	Lumens	2961.7	0.0	2961.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2961.7	0.0	2961.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5923.4	0.0	5923.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.5
10°-20°	109.1	1.8
20°-30°	220.8	3.7
30°-40°	370.3	6.3
40°-50°	653.1	11.0
50°-60°	1151.8	19.4
60°-70°	1758.4	29.7
70°-80°	1469.3	24.8
80°-90°	159.7	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°	5923.4	100.0
0°-180°	5923.4	100.0



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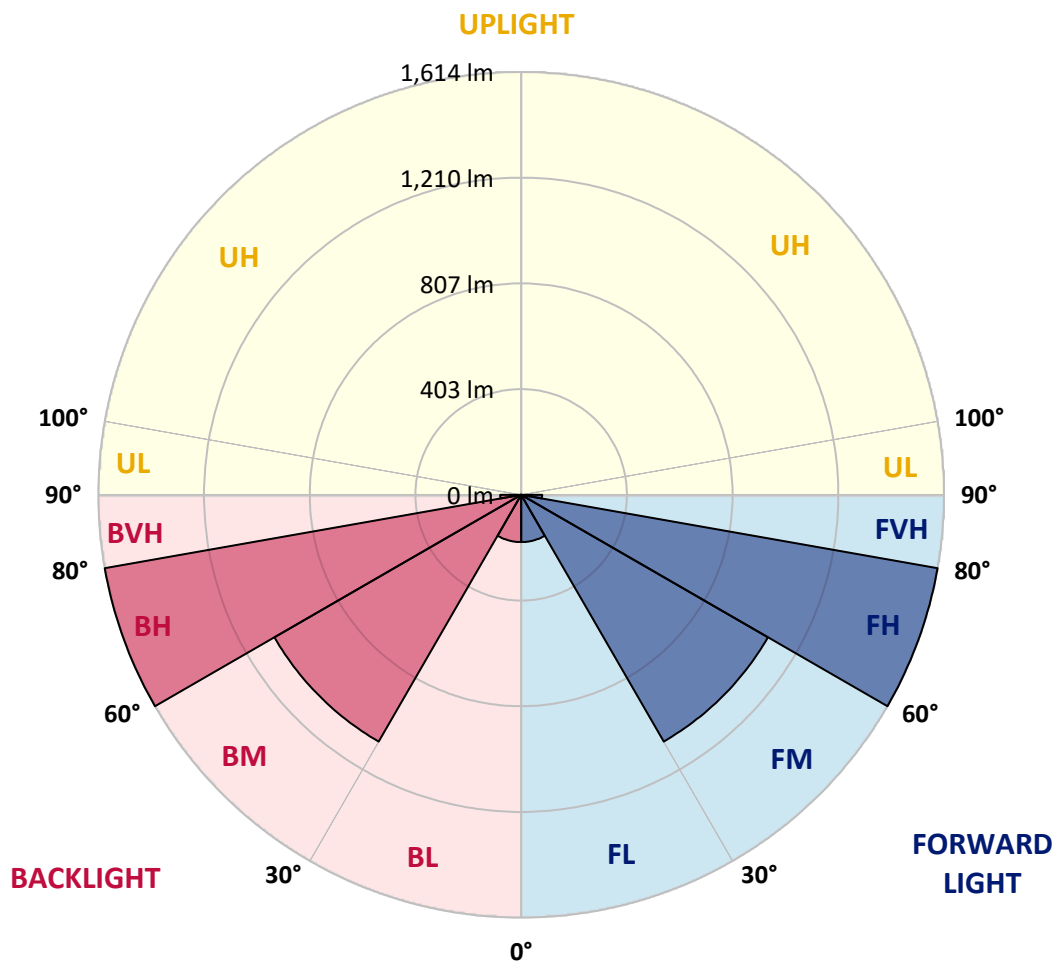
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.4	3.0			
FM (30°-60°)	1087.6	18.4			
FH (60°-80°)	1613.9	27.2			G1/1800
FVH (80°-90°)	79.8	1.3			G1/100
BL (0°-30°)	180.4	3.0	B1/500		
BM (30°-60°)	1087.6	18.4	B2/2500		
BH (60°-80°)	1613.9	27.2	B3/2500		G1/1800
BVH (80°-90°)	79.8	1.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	307.6	307.6	307.6	307.6	307.6	307.6	307.6	307.6	307.6	307.6	307.6
2.5°	310.0	310.7	310.0	310.0	310.0	310.0	310.0	309.5	309.5	309.5	310.0
5°	316.3	316.9	316.3	316.9	316.9	316.9	316.9	316.3	316.3	316.3	316.3
7.5°	326.2	326.2	326.2	326.8	326.2	326.2	326.8	326.2	326.2	326.2	326.2
10°	340.5	339.8	339.8	339.8	339.8	339.8	340.5	340.5	340.5	339.8	339.8
12.5°	357.9	357.2	357.9	357.9	358.4	358.4	358.4	358.4	358.4	358.4	357.9
15°	378.9	378.9	378.9	379.5	380.7	380.7	380.2	380.7	380.7	380.7	380.7
17.5°	402.5	403.7	402.5	403.1	403.7	403.1	404.4	404.9	405.6	404.9	403.1
20°	426.7	427.3	427.3	427.3	427.3	428.6	429.1	429.1	431.0	430.4	429.8
22.5°	449.6	450.9	450.9	451.4	451.4	453.3	453.3	453.3	454.6	455.8	454.6
25°	473.8	473.2	473.2	474.4	475.1	477.5	477.5	478.8	480.7	481.2	480.0
27.5°	495.5	494.9	494.9	496.7	497.4	500.5	500.5	503.0	504.2	504.8	503.5
30°	518.4	518.4	517.9	519.7	521.6	524.0	525.3	527.7	529.6	530.2	529.0
32.5°	545.8	544.5	545.1	546.3	547.6	550.0	551.9	555.1	557.5	558.1	556.9
35°	576.7	574.9	575.5	576.7	578.6	582.3	585.4	587.3	591.0	592.3	589.8
37.5°	610.9	611.4	610.9	614.0	617.0	621.4	625.1	627.6	631.4	633.2	631.4
40°	659.3	657.4	659.3	662.3	667.3	672.8	680.3	682.1	685.9	689.6	685.3
42.5°	721.9	720.7	724.9	727.4	733.0	739.3	748.6	753.5	759.1	761.6	757.9
45°	803.7	803.7	808.7	809.3	818.0	826.1	839.1	845.3	855.8	855.8	855.8
47.5°	894.2	898.0	901.1	907.3	913.5	928.4	941.4	955.1	964.9	966.2	964.4
50°	987.9	991.6	1000.9	1009.6	1023.3	1041.9	1056.1	1074.1	1082.8	1090.2	1087.7
52.5°	1091.4	1092.1	1103.3	1114.4	1134.2	1154.7	1177.7	1196.3	1211.8	1218.6	1213.0
55°	1204.9	1206.2	1216.1	1227.9	1250.2	1273.8	1302.3	1321.6	1341.4	1353.8	1344.5
57.5°	1327.7	1328.4	1338.3	1352.6	1379.3	1402.8	1430.1	1457.4	1476.0	1487.2	1480.9
60°	1463.5	1466.7	1474.1	1492.1	1517.5	1542.3	1569.6	1593.8	1615.5	1627.3	1621.1
62.5°	1608.7	1611.8	1622.3	1636.6	1658.9	1686.2	1712.3	1743.3	1761.2	1774.2	1764.9
65°	1706.1	1711.6	1728.4	1747.6	1780.5	1815.8	1846.2	1888.4	1910.1	1925.6	1916.9
67.5°	1712.3	1715.4	1735.8	1764.9	1809.0	1862.3	1924.4	1990.1	2032.8	2053.3	2038.4
69°	1670.1	1674.4	1694.2	1727.2	1776.1	1838.2	1911.9	1993.8	2059.5	2090.0	2075.6
70°	1622.3	1631.6	1653.3	1689.3	1737.0	1802.2	1878.4	1965.9	2042.8	2084.4	2073.8
72.5°	1521.9	1524.4	1538.6	1567.2	1603.7	1657.7	1729.6	1812.1	1885.3	1944.8	1953.5
75°	1350.7	1358.8	1369.3	1388.6	1407.2	1446.2	1494.6	1551.0	1593.8	1639.7	1641.6
77.5°	1020.8	1044.9	1053.0	1057.4	1065.4	1096.5	1138.6	1187.6	1223.0	1230.4	1229.1
80°	458.3	490.5	498.0	533.3	555.1	606.5	671.0	746.1	796.3	801.9	788.2
82.5°	90.0	96.1	112.3	140.2	191.0	221.4	263.5	316.3	364.7	392.6	375.8
85°	29.8	31.6	36.6	40.3	46.5	52.7	63.9	79.3	98.6	109.1	97.4
87.5°	11.8	11.8	13.7	14.9	16.1	16.1	16.1	14.9	14.2	11.8	10.5
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°	307.6	307.6	307.6	307.6	307.6	307.6	307.6	307.6
2.5°	309.5	309.5	309.5	309.5	309.5	309.5	309.5	309.5
5°	316.3	315.6	315.6	315.1	315.1	315.1	315.1	315.1
7.5°	325.6	324.9	324.4	324.9	324.4	324.4	324.4	324.4
10°	339.8	338.6	338.0	337.4	337.4	337.4	336.7	336.7
12.5°	356.6	356.6	356.0	355.4	354.1	354.7	354.1	352.8
15°	379.5	378.3	377.7	377.0	375.8	375.8	375.8	375.2
17.5°	402.5	401.2	401.2	399.4	398.8	398.8	398.8	399.4
20°	427.9	426.0	424.8	423.5	422.3	423.0	421.7	423.0
22.5°	453.3	450.9	449.6	447.7	445.9	445.9	445.3	444.0
25°	478.1	475.1	473.8	471.9	469.5	469.5	468.2	467.0
27.5°	501.7	498.6	497.4	493.7	491.2	490.5	489.3	488.7
30°	527.7	524.0	522.1	518.4	514.7	514.1	512.3	512.3
32.5°	555.1	551.4	550.0	544.5	541.4	541.4	540.2	538.9
35°	589.1	583.5	582.3	576.7	572.4	572.4	571.2	571.8
37.5°	629.5	625.1	620.7	616.5	611.4	610.9	609.6	608.4
40°	683.4	678.4	673.5	667.3	663.0	661.7	659.8	659.3
42.5°	755.4	750.4	740.5	735.5	731.2	727.4	726.8	726.2
45°	847.2	840.9	834.1	824.8	819.3	811.2	810.0	806.8
47.5°	957.5	945.8	934.0	925.9	917.2	907.9	906.1	901.1
50°	1074.7	1065.4	1045.6	1032.6	1018.9	1009.6	1003.4	1001.6
52.5°	1200.7	1183.3	1163.4	1146.1	1126.2	1113.8	1102.6	1099.5
55°	1332.1	1307.3	1282.5	1262.1	1242.1	1227.3	1216.8	1211.8
57.5°	1463.5	1436.3	1409.0	1386.7	1370.0	1350.7	1340.2	1337.7
60°	1600.7	1574.6	1546.7	1524.4	1503.9	1487.2	1480.9	1469.1
62.5°	1745.8	1718.4	1692.4	1670.7	1644.7	1632.8	1622.3	1615.5
65°	1888.4	1856.8	1823.9	1800.9	1774.9	1758.2	1745.1	1735.8
67.5°	1998.8	1951.0	1907.0	1868.6	1833.2	1807.2	1790.4	1781.7
69°	2029.8	1970.2	1913.8	1863.5	1822.1	1792.8	1774.2	1765.6
70°	2026.1	1960.3	1898.3	1843.1	1797.9	1766.8	1748.8	1732.8
72.5°	1911.4	1851.2	1782.3	1722.2	1681.2	1651.5	1633.5	1624.8
75°	1631.0	1590.7	1541.1	1494.6	1464.8	1447.5	1425.1	1425.8
77.5°	1187.6	1188.8	1155.4	1107.6	1074.1	1067.9	1058.0	1048.1
80°	736.7	677.9	639.4	587.9	550.0	517.2	503.0	471.9
82.5°	339.8	265.4	205.9	155.6	119.7	93.7	81.9	67.0
85°	75.6	57.7	47.7	38.4	32.8	30.4	24.8	23.0
87.5°	10.5	9.3	8.7	8.1	6.8	4.9	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)