

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: P180067

Luminaire Tested: **ICM-E02-LED-E1-5WQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180067
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-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5410.1 lumens
Efficiency: N/A
Efficacy: 103.8 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

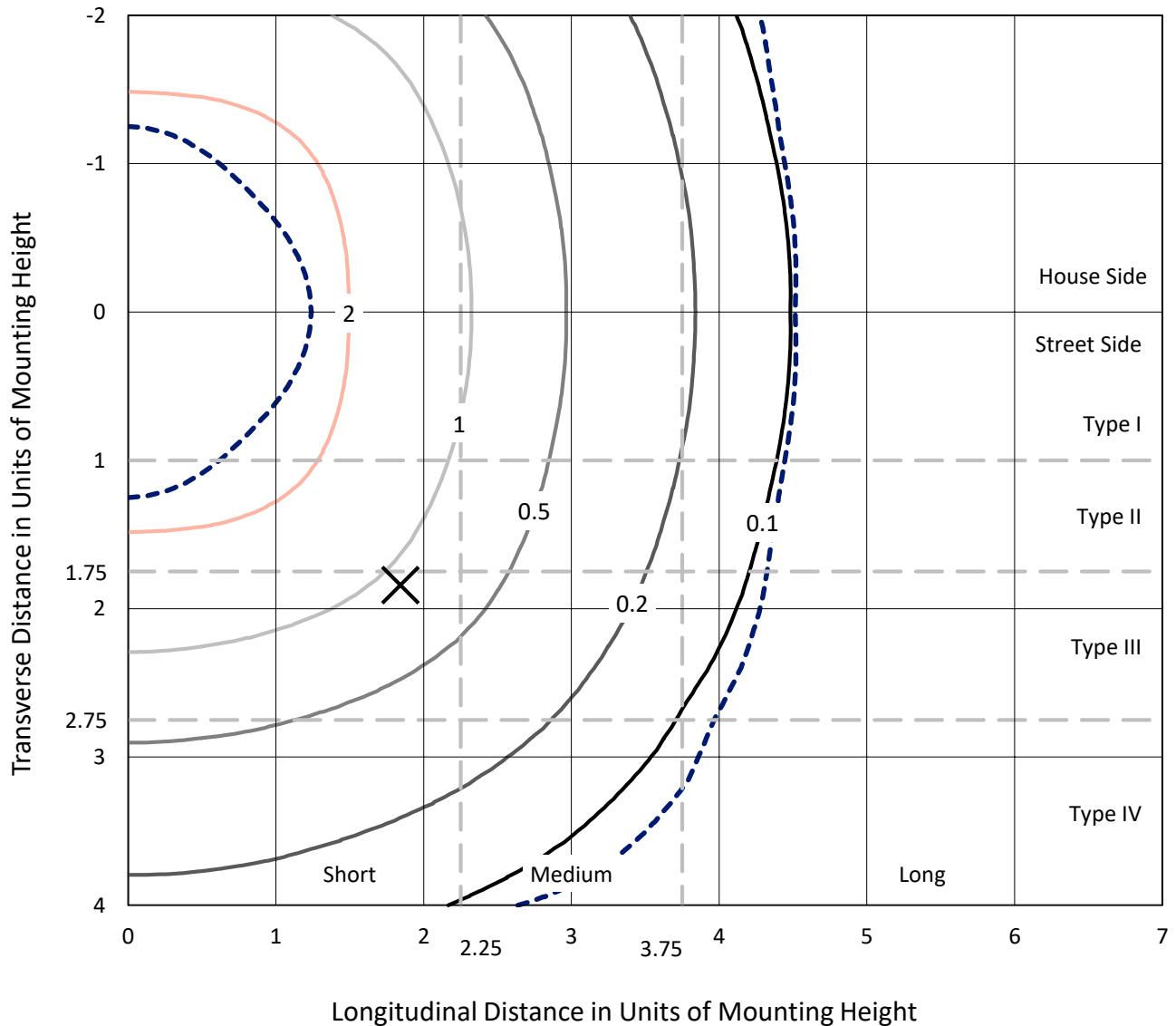
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

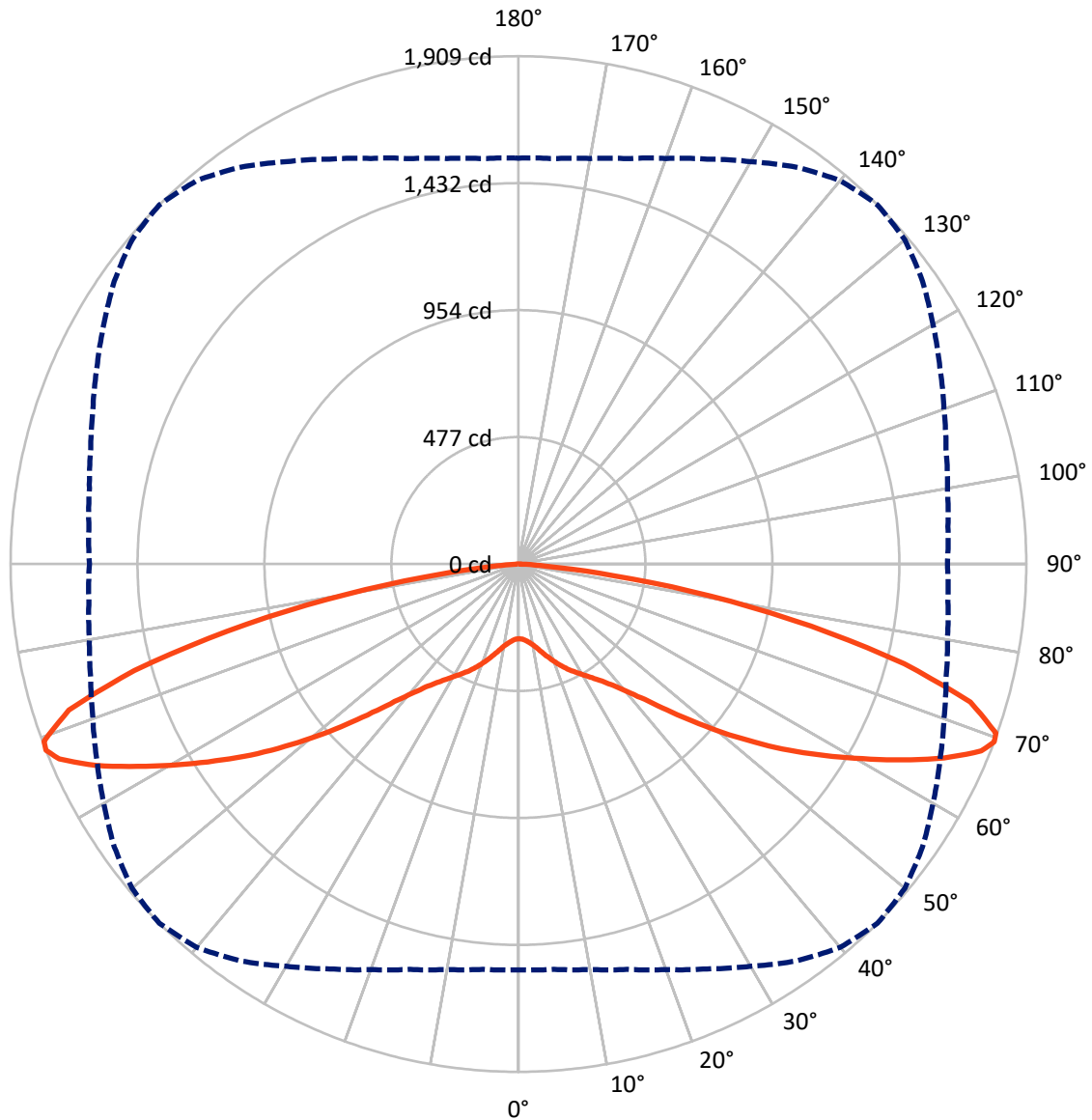
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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	2705.1	0.0	2705.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2705.1	0.0	2705.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5410.1	0.0	5410.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	0.5
10°-20°	99.6	1.8
20°-30°	201.7	3.7
30°-40°	338.2	6.3
40°-50°	596.5	11.0
50°-60°	1052.0	19.4
60°-70°	1606.1	29.7
70°-80°	1342.0	24.8
80°-90°	145.8	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°	5410.1	100.0
0°-180°	5410.1	100.0



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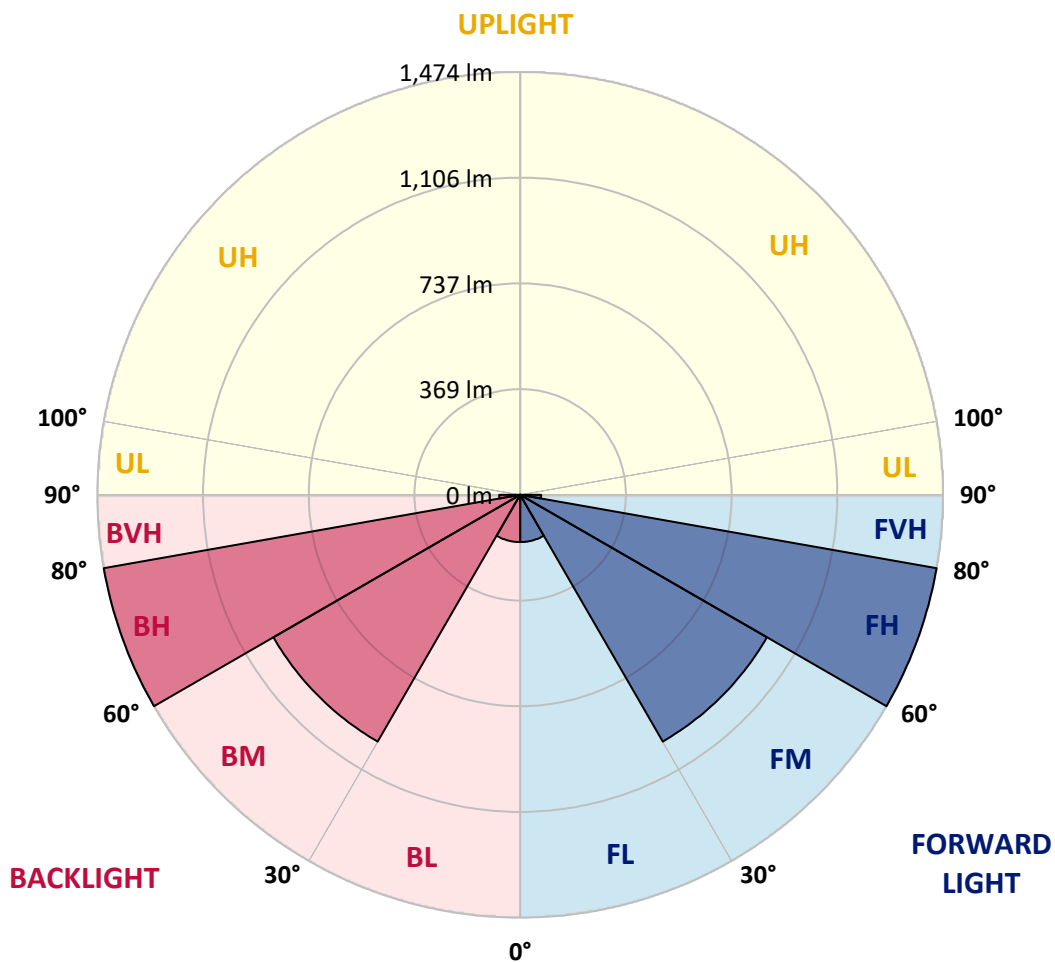
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.8	3.0			
FM (30°-60°)	993.3	18.4			
FH (60°-80°)	1474.0	27.2			G1/1800
FVH (80°-90°)	72.9	1.3			G1/100
BL (0°-30°)	164.8	3.0	B1/500		
BM (30°-60°)	993.3	18.4	B1/1000		
BH (60°-80°)	1474.0	27.2	B3/2500		G1/1800
BVH (80°-90°)	72.9	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°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	283.3	283.8	283.3	283.3	283.3	283.3	283.3	282.6	282.6	282.6	283.3
5°	288.8	289.4	288.8	289.4	289.4	289.4	289.4	288.8	288.8	288.8	288.8
7.5°	298.0	298.0	298.0	298.5	298.0	298.0	298.5	298.0	298.0	298.0	298.0
10°	311.0	310.4	310.4	310.4	310.4	310.4	311.0	311.0	311.0	310.4	310.4
12.5°	326.8	326.2	326.8	326.8	327.4	327.4	327.4	327.4	327.4	327.4	326.8
15°	346.0	346.0	346.0	346.6	347.8	347.8	347.3	347.8	347.8	347.8	347.8
17.5°	367.6	368.7	367.6	368.2	368.7	368.2	369.3	369.9	370.4	369.9	368.2
20°	389.7	390.2	390.2	390.2	390.2	391.4	392.0	392.0	393.7	393.1	392.6
22.5°	410.7	411.8	411.8	412.4	412.4	414.0	414.0	414.0	415.2	416.3	415.2
25°	432.7	432.2	432.2	433.3	433.9	436.2	436.2	437.3	439.0	439.5	438.4
27.5°	452.6	452.0	452.0	453.7	454.2	457.1	457.1	459.4	460.5	461.0	459.9
30°	473.5	473.5	472.9	474.7	476.4	478.6	479.7	482.0	483.7	484.3	483.2
32.5°	498.4	497.3	497.9	499.0	500.2	502.4	504.1	507.0	509.2	509.8	508.7
35°	526.8	525.1	525.7	526.8	528.5	531.9	534.7	536.4	539.8	540.9	538.7
37.5°	558.0	558.5	558.0	560.7	563.6	567.5	571.0	573.2	576.7	578.3	576.7
40°	602.1	600.4	602.1	604.9	609.5	614.6	621.4	623.1	626.4	629.9	625.9
42.5°	659.4	658.1	662.1	664.4	669.5	675.2	683.6	688.2	693.3	695.5	692.2
45°	734.1	734.1	738.6	739.2	747.1	754.5	766.3	772.0	781.7	781.7	781.7
47.5°	816.7	820.2	823.0	828.7	834.3	847.9	859.8	872.3	881.3	882.5	880.7
50°	902.3	905.7	914.2	922.1	934.6	951.6	964.7	981.0	988.9	995.7	993.5
52.5°	996.9	997.5	1007.6	1017.9	1036.0	1054.7	1075.6	1092.7	1106.8	1113.0	1107.9
55°	1100.6	1101.7	1110.8	1121.5	1141.9	1163.4	1189.5	1207.1	1225.2	1236.5	1228.0
57.5°	1212.8	1213.3	1222.3	1235.4	1259.7	1281.2	1306.1	1331.1	1348.1	1358.2	1352.7
60°	1336.8	1339.5	1346.4	1362.8	1386.1	1408.7	1433.6	1455.7	1475.5	1486.3	1480.7
62.5°	1469.3	1472.1	1481.8	1494.8	1515.2	1540.1	1563.9	1592.2	1608.7	1620.6	1612.0
65°	1558.2	1563.4	1578.6	1596.2	1626.2	1658.5	1686.2	1724.8	1744.6	1758.7	1750.8
67.5°	1563.9	1566.7	1585.4	1612.0	1652.3	1700.9	1757.6	1817.7	1856.8	1875.5	1861.9
69°	1525.4	1529.3	1547.5	1577.5	1622.2	1678.9	1746.2	1821.0	1881.1	1908.8	1895.8
70°	1481.8	1490.2	1510.1	1542.9	1586.5	1646.1	1715.7	1795.5	1865.8	1903.7	1894.2
72.5°	1390.0	1392.3	1405.3	1431.4	1464.8	1514.1	1579.7	1655.1	1722.0	1776.3	1784.2
75°	1233.7	1241.0	1250.7	1268.2	1285.2	1320.9	1365.0	1416.7	1455.7	1497.6	1499.4
77.5°	932.3	954.4	961.8	965.8	973.1	1001.4	1039.9	1084.7	1117.0	1123.8	1122.6
80°	418.6	448.0	454.8	487.2	507.0	554.0	612.8	681.4	727.3	732.4	719.9
82.5°	82.1	87.8	102.5	128.0	174.4	202.2	240.7	288.8	333.0	358.5	343.3
85°	27.2	28.9	33.4	36.8	42.5	48.2	58.3	72.5	90.0	99.7	88.9
87.5°	10.8	10.8	12.5	13.6	14.7	14.7	14.7	13.6	13.0	10.8	9.7
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°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
5°	288.8	288.3	288.3	287.7	287.7	287.7	287.7	287.7
7.5°	297.4	296.8	296.3	296.8	296.3	296.3	296.3	296.3
10°	310.4	309.3	308.7	308.1	308.1	308.1	307.5	307.5
12.5°	325.7	325.7	325.1	324.6	323.4	324.0	323.4	322.3
15°	346.6	345.5	344.9	344.4	343.3	343.3	343.3	342.7
17.5°	367.6	366.5	366.5	364.7	364.2	364.2	364.2	364.7
20°	390.8	389.1	388.0	386.9	385.8	386.3	385.2	386.3
22.5°	414.0	411.8	410.7	408.9	407.3	407.3	406.7	405.6
25°	436.7	433.9	432.7	431.1	428.7	428.7	427.6	426.5
27.5°	458.2	455.4	454.2	450.9	448.6	448.0	446.9	446.3
30°	482.0	478.6	476.9	473.5	470.1	469.6	467.9	467.9
32.5°	507.0	503.5	502.4	497.3	494.5	494.5	493.4	492.2
35°	538.1	533.0	531.9	526.8	522.8	522.8	521.7	522.2
37.5°	574.9	571.0	567.0	563.0	558.5	558.0	556.7	555.6
40°	624.2	619.6	615.2	609.5	605.5	604.4	602.7	602.1
42.5°	689.9	685.4	676.3	671.8	667.8	664.4	663.8	663.3
45°	773.8	768.1	761.9	753.3	748.3	740.8	739.7	736.9
47.5°	874.5	863.8	853.0	845.7	837.8	829.2	827.5	823.0
50°	981.6	973.1	955.0	943.1	930.6	922.1	916.5	914.8
52.5°	1096.6	1080.8	1062.6	1046.7	1028.7	1017.3	1007.1	1004.3
55°	1216.7	1194.1	1171.4	1152.7	1134.5	1120.9	1111.4	1106.8
57.5°	1336.8	1311.8	1286.9	1266.5	1251.3	1233.7	1224.0	1221.8
60°	1462.0	1438.1	1412.7	1392.3	1373.6	1358.2	1352.7	1341.9
62.5°	1594.5	1569.6	1545.8	1526.0	1502.1	1491.4	1481.8	1475.5
65°	1724.8	1695.8	1665.9	1644.8	1621.1	1605.8	1593.9	1585.4
67.5°	1825.6	1782.0	1741.8	1706.6	1674.3	1650.5	1635.3	1627.4
69°	1853.9	1799.5	1748.0	1702.1	1664.1	1637.5	1620.6	1612.6
70°	1850.5	1790.4	1733.8	1683.5	1642.1	1613.8	1597.3	1582.6
72.5°	1745.7	1690.8	1627.9	1572.9	1535.5	1508.4	1491.9	1484.0
75°	1489.7	1452.8	1407.5	1365.0	1337.9	1322.1	1301.7	1302.2
77.5°	1084.7	1085.9	1055.3	1011.6	981.0	975.4	966.3	957.2
80°	672.9	619.1	584.0	536.9	502.4	472.4	459.4	431.1
82.5°	310.4	242.4	188.1	142.1	109.3	85.5	74.8	61.2
85°	69.1	52.7	43.6	35.2	30.0	27.7	22.7	20.9
87.5°	9.7	8.5	7.9	7.3	6.2	4.6	3.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)