

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: P179966

Luminaire Tested: **ICM-E02-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179966
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-E02-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5062 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

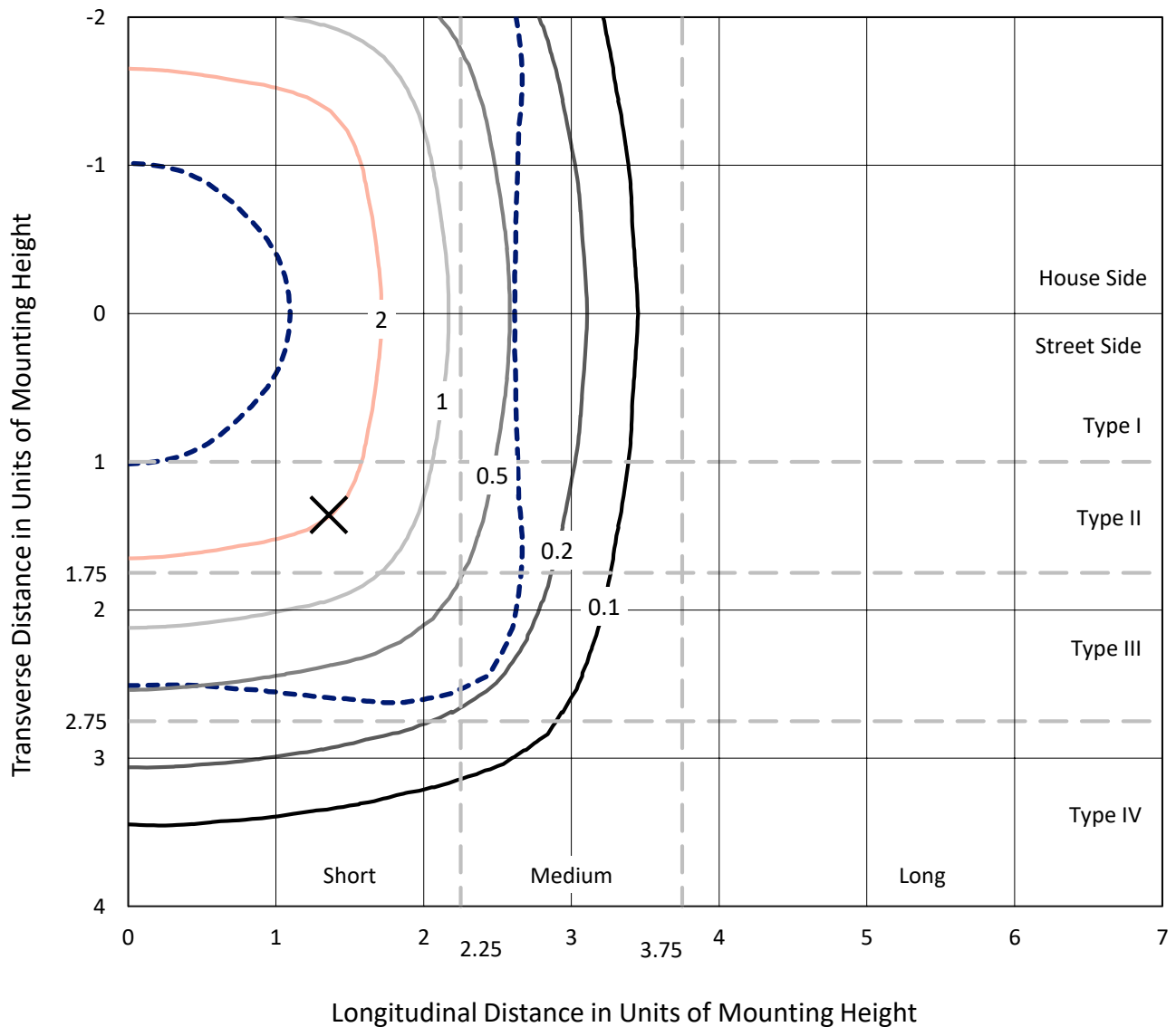
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P179966
 CATALOG NUMBER: ICM-E02-LED-E1-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

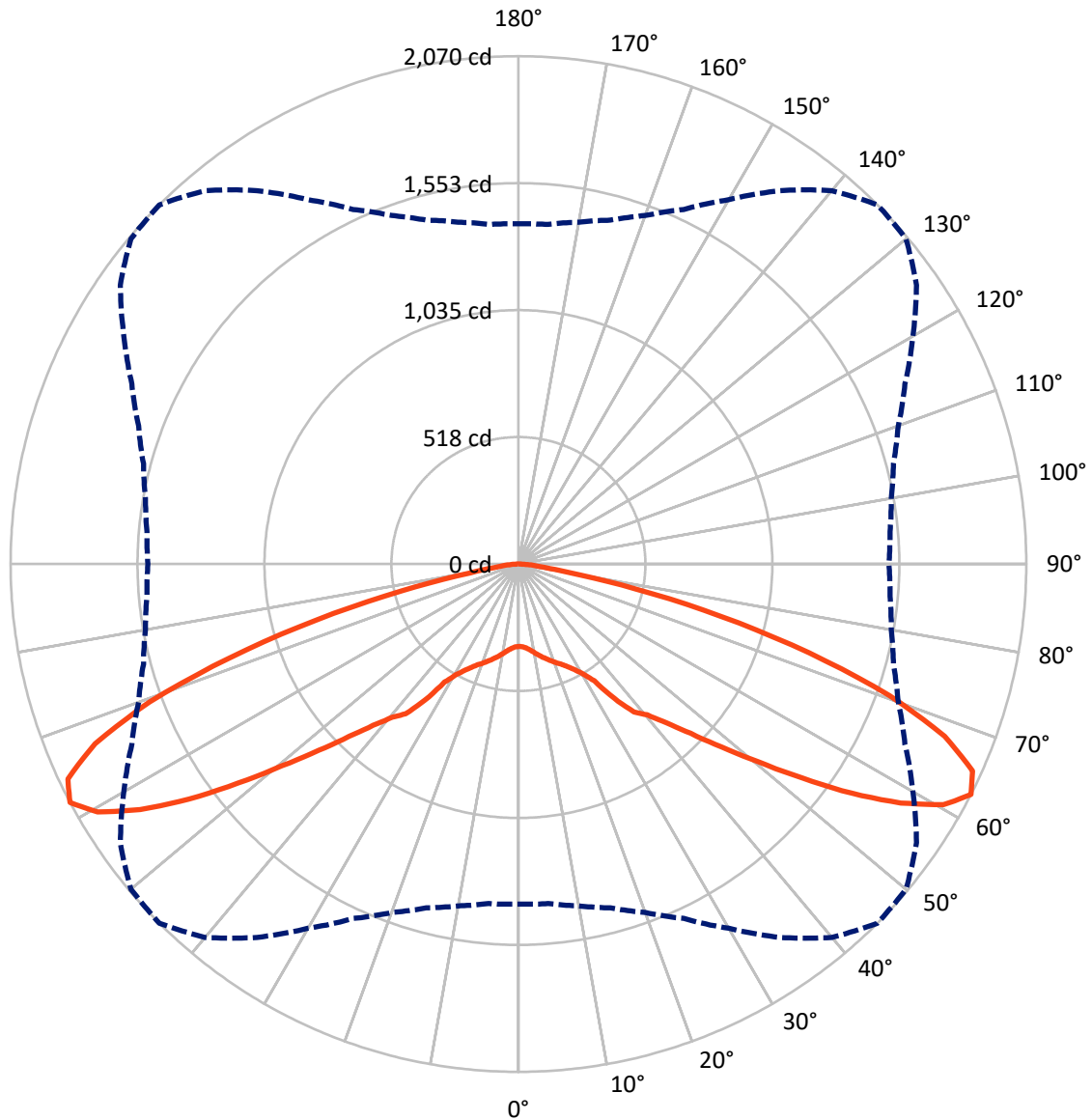
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P179966
CATALOG NUMBER: ICM-E02-LED-E1-5MQ-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P179966

CATALOG NUMBER: ICM-E02-LED-E1-5MQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.0	0.0	2531.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2531.0	0.0	2531.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5062.0	0.0	5062.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	0.7
10°-20°	113.8	2.2
20°-30°	220.1	4.3
30°-40°	426.1	8.4
40°-50°	769.4	15.2
50°-60°	1337.9	26.4
60°-70°	1518.9	30.0
70°-80°	588.9	11.6
80°-90°	53.1	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°	5062.0	100.0
0°-180°	5062.0	100.0



REPORT NUMBER: P179966

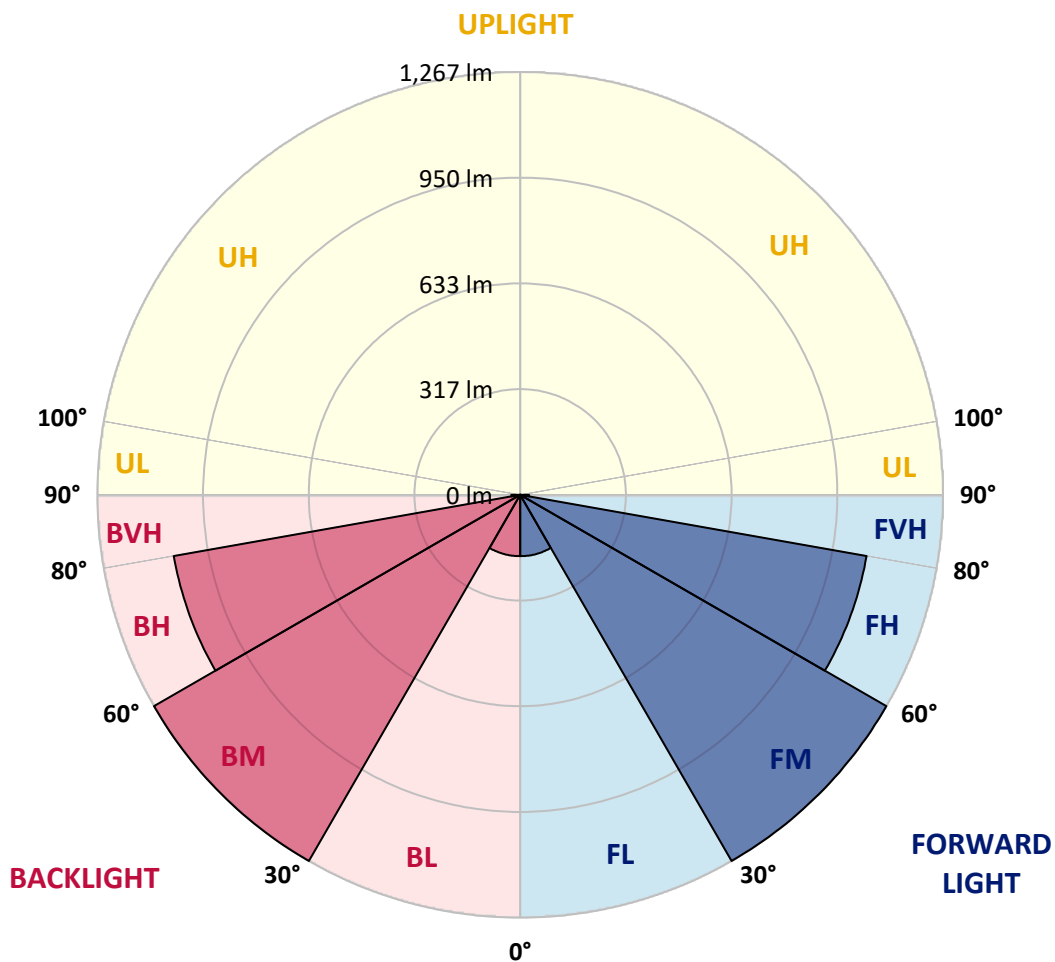
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.8	3.6			
FM (30°-60°)	1266.8	25.0			
FH (60°-80°)	1053.9	20.8			G1/1800
FVH (80°-90°)	26.6	0.5			G1/100
BL (0°-30°)	183.8	3.6	B1/500		
BM (30°-60°)	1266.8	25.0	B2/2500		
BH (60°-80°)	1053.9	20.8	B3/2500		G1/1800
BVH (80°-90°)	26.6	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-G1

Type V Short





REPORT NUMBER: P179966

CATALOG NUMBER: ICM-E02-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	338.1	339.2	339.0	338.4	338.4	338.4	338.1	337.3	337.0	337.7	338.1
5°	346.0	346.0	346.0	346.0	345.5	345.5	344.9	344.4	344.7	344.2	343.9
7.5°	358.0	357.2	357.2	356.9	357.0	356.5	355.7	354.6	354.9	354.6	354.3
10°	372.1	372.4	371.6	372.5	371.1	370.8	369.8	369.3	369.0	368.2	368.2
12.5°	389.1	388.4	388.4	387.9	387.4	386.8	385.2	384.9	383.9	383.4	382.6
15°	405.1	404.8	403.8	402.8	402.5	402.0	400.2	399.1	398.9	397.6	396.5
17.5°	421.0	420.6	419.2	418.8	417.7	416.9	415.3	413.8	413.0	412.5	411.2
20°	438.1	437.6	436.3	435.2	433.9	432.9	430.5	429.2	428.5	427.6	426.6
22.5°	459.4	458.2	456.2	454.3	451.4	450.4	447.3	445.4	444.1	443.1	442.5
25°	482.3	482.6	479.7	477.4	474.0	471.1	467.2	465.0	463.8	462.7	462.4
27.5°	511.1	511.4	508.7	505.3	500.1	496.9	491.7	489.1	488.4	487.3	487.1
30°	556.6	554.2	549.9	544.4	539.6	532.8	525.2	522.6	520.0	519.3	519.3
32.5°	640.4	639.1	635.4	621.8	615.4	601.4	588.1	580.5	571.8	567.6	565.0
35°	699.0	698.5	695.6	691.0	687.0	684.1	676.3	675.0	673.3	673.3	675.4
37.5°	742.1	739.1	738.5	739.4	738.2	738.8	745.1	753.7	761.0	764.7	764.1
40°	806.1	801.6	804.3	802.4	800.0	799.4	801.6	805.0	808.4	808.4	807.6
42.5°	889.5	891.6	892.7	885.0	880.1	878.8	883.7	882.8	886.1	884.8	881.4
45°	1013.6	1012.3	1010.4	1001.3	993.4	987.2	988.5	986.6	986.9	984.8	982.1
47.5°	1138.6	1143.1	1135.5	1131.1	1122.2	1117.8	1121.4	1118.2	1124.3	1113.3	1108.1
50°	1260.1	1263.3	1260.7	1254.3	1254.3	1260.7	1265.0	1270.8	1279.3	1266.6	1247.8
52.5°	1359.5	1362.2	1366.1	1371.4	1384.2	1397.5	1416.4	1436.5	1452.5	1450.1	1428.7
55°	1420.3	1423.5	1430.0	1448.0	1471.1	1506.1	1548.8	1595.5	1632.2	1650.1	1634.3
57.5°	1440.8	1443.0	1460.8	1482.6	1518.4	1570.4	1642.0	1722.8	1793.1	1838.0	1830.9
60°	1435.9	1435.9	1454.1	1483.9	1534.1	1603.2	1704.2	1816.2	1924.0	1991.1	1981.0
62.5°	1386.4	1389.1	1415.1	1450.9	1511.5	1594.2	1714.6	1857.9	1986.8	2070.1	2062.0
65°	1278.1	1280.0	1308.0	1350.7	1418.4	1516.3	1648.0	1806.5	1954.4	2034.4	2019.4
67.5°	1103.1	1104.9	1127.6	1175.8	1247.5	1349.9	1491.9	1666.6	1811.3	1874.6	1829.0
70°	877.5	882.8	897.4	948.4	1002.8	1103.1	1233.9	1408.5	1545.1	1605.0	1554.8
72.5°	598.0	611.4	629.1	674.4	726.5	809.7	913.9	1060.9	1170.6	1240.0	1195.2
75°	336.8	355.7	361.1	395.4	438.3	504.0	580.2	685.7	796.4	852.7	798.7
77.5°	145.5	160.9	167.8	183.7	217.2	244.7	291.0	362.2	447.8	487.3	422.7
80°	71.7	75.3	78.3	83.3	92.7	101.6	123.5	154.6	189.8	198.6	158.1
82.5°	55.4	58.0	63.1	67.0	69.4	71.7	73.9	78.0	81.4	83.2	78.5
85°	39.0	42.4	47.9	52.4	55.0	56.7	58.6	59.9	56.7	51.8	54.4
87.5°	10.2	13.3	18.6	20.1	22.7	24.0	23.5	24.4	22.0	16.0	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179966

CATALOG NUMBER: ICM-E02-LED-E1-5MQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	337.9	337.6	337.9	337.9	337.9	337.7	337.6	337.6
5°	343.8	343.8	344.2	343.6	343.6	343.9	343.6	343.4
7.5°	354.1	353.9	353.9	353.5	353.9	353.5	353.5	353.3
10°	367.7	367.2	367.4	366.7	366.7	366.3	366.3	366.4
12.5°	382.3	381.6	381.8	381.0	379.7	380.0	380.3	380.0
15°	396.5	395.7	395.0	394.4	393.6	393.9	393.9	393.6
17.5°	410.9	409.3	409.0	408.2	408.0	408.0	408.0	408.3
20°	425.9	424.7	424.5	423.6	423.4	424.2	424.6	424.0
22.5°	441.8	441.2	441.7	441.2	442.0	442.5	442.8	442.2
25°	462.0	461.4	462.1	464.0	465.0	465.5	466.8	466.3
27.5°	487.8	487.3	489.1	491.7	493.3	496.0	497.2	497.8
30°	521.3	523.7	524.7	530.0	531.0	535.2	535.2	537.0
32.5°	570.0	574.4	582.3	590.4	601.7	609.8	609.8	614.0
35°	676.7	678.6	684.7	686.0	688.3	690.9	688.3	690.3
37.5°	758.7	750.5	744.8	736.7	731.7	731.7	732.3	731.7
40°	800.6	797.4	794.8	788.0	787.0	786.7	786.7	787.7
42.5°	875.4	867.8	863.6	857.9	856.0	855.4	855.3	855.8
45°	972.8	960.4	949.2	943.4	938.4	933.8	935.3	935.4
47.5°	1086.1	1067.0	1048.6	1038.7	1030.1	1026.1	1023.4	1022.7
50°	1224.0	1197.3	1173.8	1155.2	1142.6	1142.3	1143.6	1135.3
52.5°	1393.1	1350.9	1321.6	1296.5	1284.7	1283.4	1279.2	1274.5
55°	1580.5	1530.4	1482.1	1455.1	1439.6	1431.3	1426.2	1418.4
57.5°	1773.6	1706.2	1636.7	1593.5	1566.3	1547.5	1537.5	1533.0
60°	1922.4	1830.6	1738.8	1669.4	1624.1	1596.1	1578.8	1571.8
62.5°	1981.0	1856.6	1738.8	1647.6	1582.3	1543.5	1520.2	1510.1
65°	1911.3	1763.6	1629.6	1529.1	1456.2	1413.0	1387.5	1376.6
67.5°	1715.9	1585.7	1439.8	1339.9	1264.8	1222.1	1194.6	1186.6
70°	1438.5	1305.3	1166.1	1076.8	1009.9	975.1	946.6	943.2
72.5°	1081.1	966.2	846.9	773.0	719.2	661.6	646.9	654.2
75°	693.0	585.4	479.2	412.7	363.5	308.5	287.4	292.6
77.5°	328.2	254.1	183.4	141.9	119.1	101.8	97.3	94.7
80°	121.7	98.6	87.1	82.7	79.6	76.7	74.6	72.2
82.5°	78.8	77.0	74.6	73.9	71.4	67.7	61.0	58.1
85°	58.9	58.9	55.7	56.0	54.1	49.5	43.2	39.8
87.5°	17.3	15.4	14.1	13.0	12.8	11.5	8.4	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)