

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: P140269

Luminaire Tested: **ECM-E02-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140269
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E02-LED-E1-5MQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5578.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

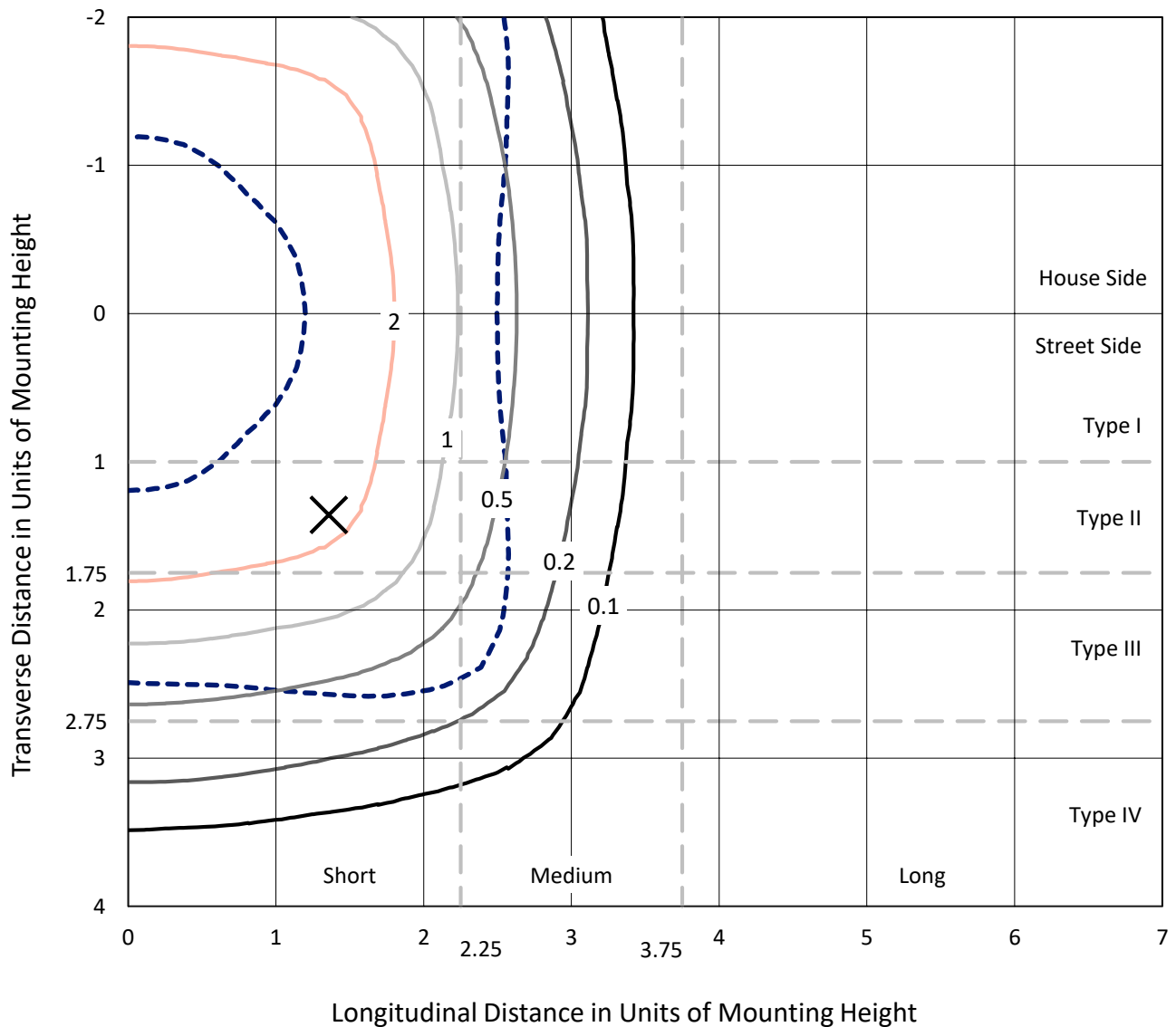
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P140269
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Iso-Footcandle Lines of Horizontal Illumination

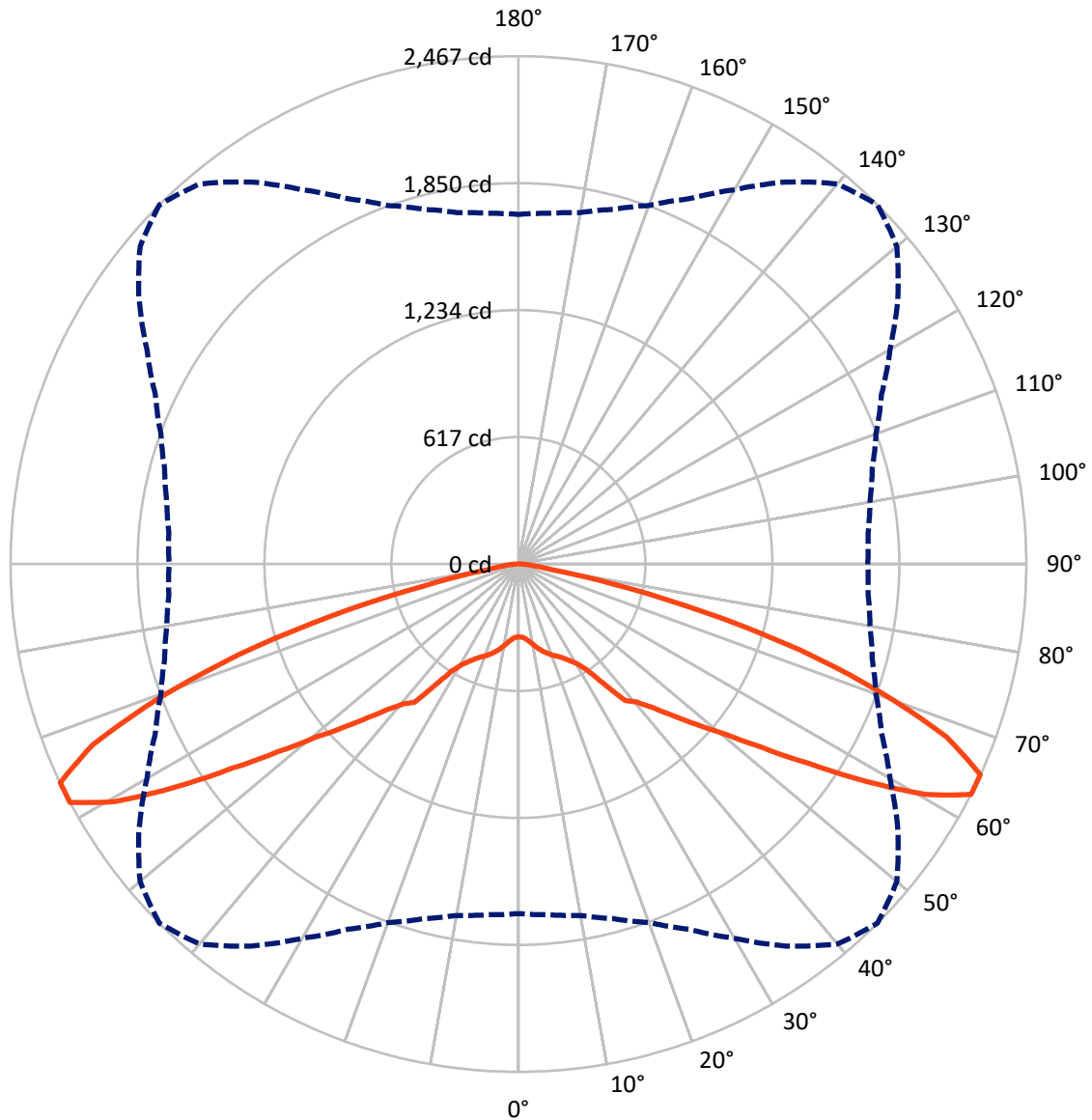
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P140269
CATALOG NUMBER: ECM-E02-LED-E1-5MQ-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P140269

CATALOG NUMBER: ECM-E02-LED-E1-5MQ-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2789.2	0.0	2789.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2789.2	0.0	2789.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5578.3	0.0	5578.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	0.6
10°-20°	125.3	2.2
20°-30°	240.8	4.3
30°-40°	463.2	8.3
40°-50°	806.2	14.5
50°-60°	1448.0	26.0
60°-70°	1775.0	31.8
70°-80°	626.0	11.2
80°-90°	57.9	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°	5578.3	100.0
0°-180°	5578.3	100.0



REPORT NUMBER: P140269

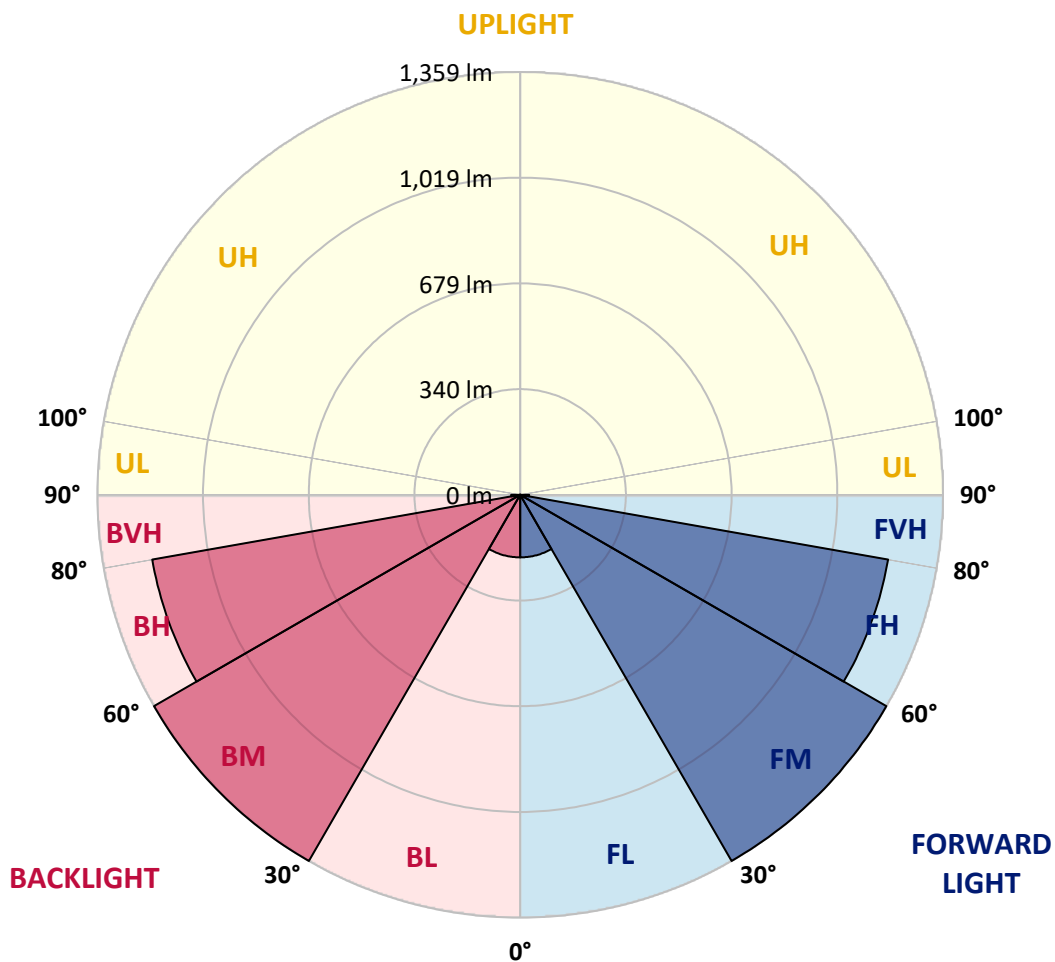
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.0	3.6			
FM	(30°-60°)	1358.7	24.4			
FH	(60°-80°)	1200.5	21.5			G1/1800
FVH	(80°-90°)	28.9	0.5			G1/100
BL	(0°-30°)	201.0	3.6	B1/500		
BM	(30°-60°)	1358.7	24.4	B2/2500		
BH	(60°-80°)	1200.5	21.5	B3/2500		G1/1800
BVH	(80°-90°)	28.9	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: P140269
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8
2.5°	358.0	358.0	357.4	356.8	356.8	356.8	356.2	356.2	356.8	355.6	355.6
5°	367.2	367.8	367.2	366.6	365.9	365.9	365.3	365.3	365.9	364.7	364.1
7.5°	384.2	384.8	383.6	383.0	382.4	381.8	381.2	380.6	381.2	379.3	379.3
10°	406.1	406.1	406.1	403.7	403.7	401.9	401.3	400.0	400.7	398.8	398.8
12.5°	428.1	428.1	427.4	426.2	425.6	424.4	423.2	423.2	422.0	419.5	418.3
15°	447.5	448.2	447.5	445.7	445.1	443.3	443.3	442.1	440.2	439.0	437.8
17.5°	465.8	466.4	464.6	464.0	462.2	460.9	459.7	459.1	457.9	456.1	455.5
20°	483.5	482.9	481.0	478.6	477.4	476.2	474.9	474.3	473.7	472.5	472.5
22.5°	500.5	500.5	498.7	495.0	492.6	491.4	489.6	488.3	487.1	486.5	487.7
25°	526.1	525.5	521.8	518.2	513.9	510.3	507.8	507.2	506.0	506.0	506.6
27.5°	559.0	557.8	552.3	547.4	542.5	537.7	534.6	532.2	531.6	531.0	531.0
30°	600.4	598.5	593.7	587.6	582.1	576.0	569.9	568.1	565.1	562.6	566.9
32.5°	679.5	680.8	671.0	658.8	646.7	635.1	624.7	616.8	611.9	612.6	612.6
35°	766.6	767.2	763.0	758.1	754.4	747.7	736.2	726.4	719.1	711.2	714.8
37.5°	804.4	805.0	801.3	800.7	803.1	807.4	819.0	827.5	840.3	842.1	838.5
40°	870.7	867.7	862.8	861.6	859.8	865.9	870.7	875.0	876.8	880.5	876.8
42.5°	940.1	938.9	935.3	931.0	931.0	932.2	940.1	946.8	951.1	951.7	951.1
45°	1018.1	1016.3	1013.2	1012.6	1014.4	1019.9	1025.4	1033.9	1047.3	1047.9	1047.3
47.5°	1103.9	1105.2	1100.3	1102.1	1105.2	1114.3	1129.5	1143.5	1158.1	1163.6	1156.9
50°	1221.5	1217.2	1217.2	1215.4	1223.3	1236.7	1254.9	1271.4	1292.1	1297.0	1286.6
52.5°	1381.0	1371.9	1373.7	1368.8	1373.1	1385.2	1415.1	1440.7	1466.8	1479.6	1459.5
55°	1572.8	1557.6	1559.4	1564.3	1567.9	1588.6	1626.4	1655.6	1704.9	1709.2	1686.0
57.5°	1729.9	1725.6	1728.1	1739.6	1762.8	1798.7	1846.2	1916.8	1977.7	1992.3	1967.4
60°	1787.1	1790.2	1807.2	1837.7	1881.5	1945.4	2038.0	2148.2	2245.0	2274.2	2236.5
62.5°	1698.2	1710.4	1733.5	1784.1	1853.5	1957.6	2099.5	2265.7	2410.6	2467.3	2399.7
65°	1524.7	1532.6	1570.4	1613.6	1703.1	1822.4	1996.6	2212.7	2391.2	2466.0	2390.5
67.5°	1297.0	1312.2	1345.1	1398.6	1476.0	1597.1	1779.8	2000.8	2179.9	2245.6	2179.3
70°	1041.2	1047.9	1068.6	1110.6	1191.0	1298.2	1454.7	1652.6	1826.7	1868.1	1815.1
72.5°	722.2	735.6	753.2	791.6	842.1	932.8	1061.9	1207.4	1347.5	1433.4	1355.4
75°	311.1	293.5	332.5	370.8	432.9	517.0	618.0	737.4	876.2	933.4	856.7
77.5°	93.2	92.6	98.6	109.6	131.5	174.1	244.2	324.5	431.7	468.9	402.5
80°	76.1	78.5	81.0	83.4	85.9	88.9	94.4	110.2	135.2	159.5	129.7
82.5°	64.5	67.6	74.3	77.9	79.8	80.4	80.4	79.8	76.7	75.5	74.9
85°	48.7	53.6	62.7	68.2	68.2	68.2	68.2	66.4	62.1	54.8	60.9
87.5°	16.4	21.9	36.5	39.0	40.2	37.1	39.0	39.6	32.9	25.0	31.7
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: P140269

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8
2.5°	355.6	355.6	355.6	356.2	355.6	355.6	355.6	355.6
5°	364.7	364.1	364.7	364.1	364.7	364.7	364.1	364.7
7.5°	378.7	378.7	379.3	379.3	378.7	378.7	378.7	378.7
10°	397.6	396.4	397.0	397.0	397.0	396.4	396.4	395.8
12.5°	417.1	415.9	415.9	415.9	415.9	415.3	415.9	415.9
15°	435.4	434.1	432.9	432.9	433.5	434.1	434.1	433.5
17.5°	453.0	451.8	450.0	450.0	449.4	450.6	451.8	451.2
20°	470.7	470.1	467.0	467.0	467.0	468.2	468.9	470.7
22.5°	488.3	487.7	485.3	484.7	485.3	487.7	489.6	489.6
25°	507.2	508.4	507.8	507.8	509.0	512.7	514.5	517.0
27.5°	534.0	536.4	537.0	539.5	540.1	544.4	547.4	551.1
30°	568.7	573.0	575.4	579.7	582.7	585.2	589.4	592.5
32.5°	616.8	627.2	639.3	653.3	659.4	670.4	675.3	676.5
35°	727.6	738.6	748.9	755.0	752.6	755.6	755.6	758.1
37.5°	827.5	816.5	807.4	805.6	800.7	798.9	799.5	801.3
40°	873.8	868.3	864.6	866.5	864.0	862.2	863.4	864.0
42.5°	948.7	940.1	937.1	936.5	935.3	936.5	939.5	938.3
45°	1036.3	1025.4	1021.1	1020.5	1018.7	1018.1	1019.3	1021.7
47.5°	1141.7	1128.3	1114.9	1110.6	1110.6	1107.0	1109.4	1105.8
50°	1270.8	1248.9	1234.8	1226.9	1222.1	1216.6	1221.5	1213.5
52.5°	1440.7	1409.6	1394.4	1384.0	1370.0	1370.6	1371.9	1368.8
55°	1655.0	1620.9	1591.1	1571.0	1562.4	1557.6	1556.3	1566.1
57.5°	1901.6	1841.3	1793.8	1758.5	1745.1	1726.8	1718.3	1718.3
60°	2136.0	2026.4	1932.0	1873.0	1829.1	1798.1	1777.4	1771.3
62.5°	2250.5	2084.3	1946.0	1848.6	1779.2	1734.8	1704.9	1697.0
65°	2201.2	1989.9	1827.3	1717.7	1637.3	1580.1	1545.4	1535.6
67.5°	2002.7	1781.6	1610.5	1500.3	1413.9	1351.8	1325.6	1314.6
70°	1662.9	1460.1	1311.6	1203.8	1113.7	1061.3	1025.4	1010.8
72.5°	1195.3	1041.2	904.8	812.3	731.3	703.9	655.2	650.3
75°	706.3	572.4	459.7	389.1	316.6	277.0	254.5	230.2
77.5°	287.4	205.2	154.1	116.3	99.9	90.7	86.5	85.2
80°	98.0	87.7	82.8	81.0	78.5	77.3	74.3	71.9
82.5°	77.3	76.7	74.3	73.7	71.2	67.6	61.5	57.8
85°	64.5	63.3	60.3	59.7	57.8	53.0	46.3	42.0
87.5°	36.5	33.5	30.4	31.1	29.2	25.6	18.9	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)