

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: McGRAW-EDISON

Report Number: P200545

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5MQ-8030-1200
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5978 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 67
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

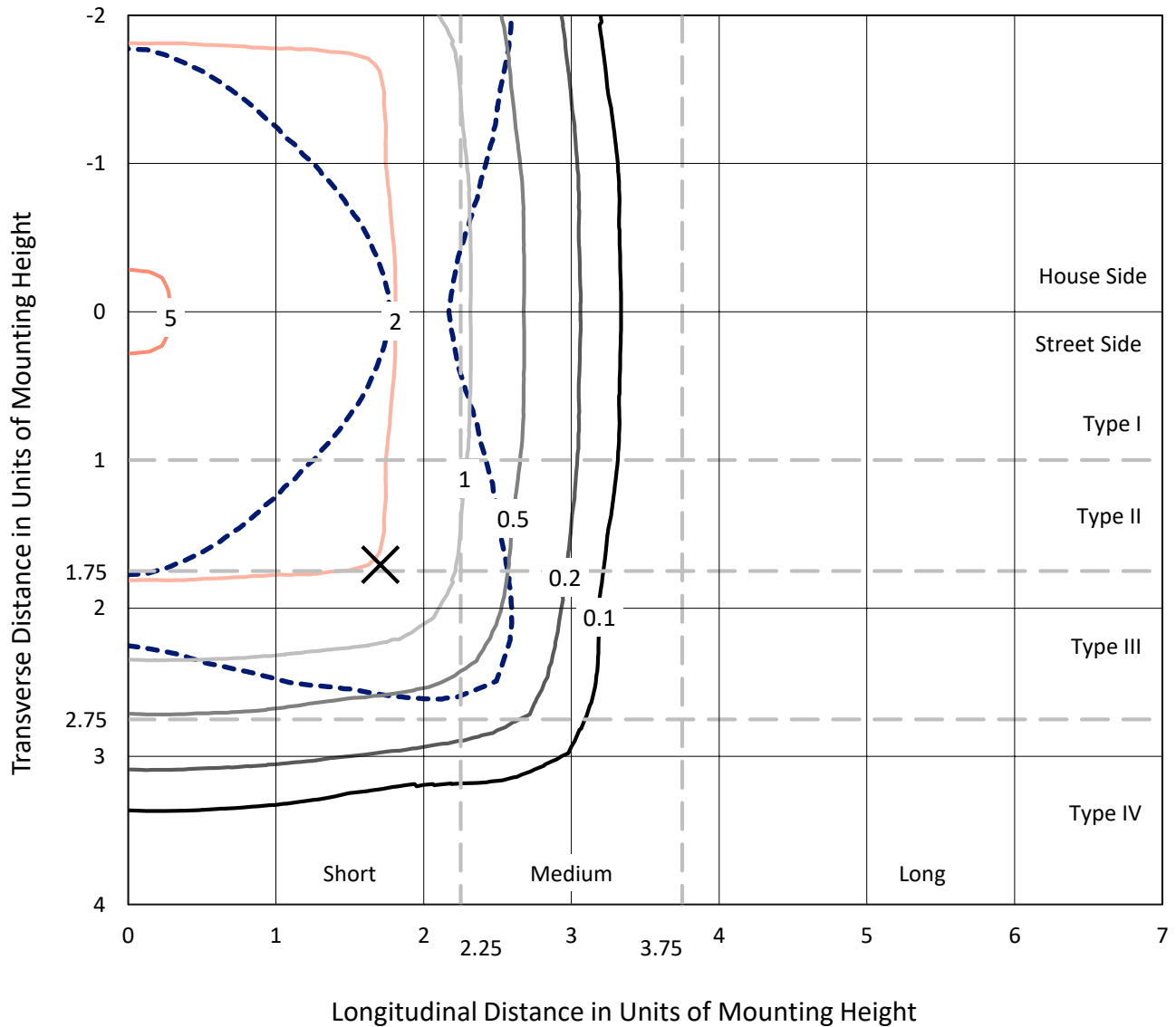


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Iso-Footcandle Lines of Horizontal Illumination

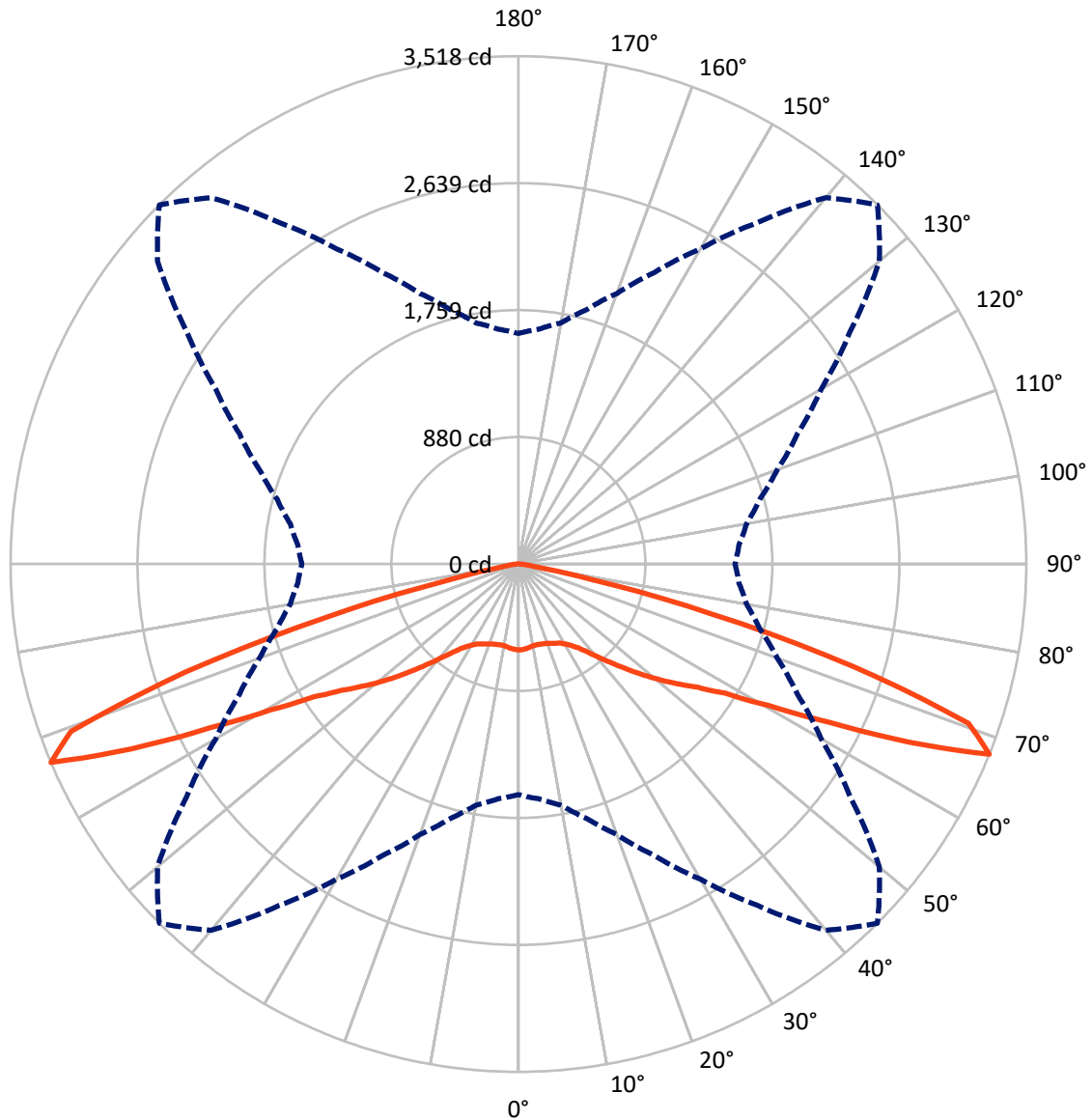
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2989.0	0.0	2989.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2989.0	0.0	2989.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5978.0	0.0	5978.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	0.9
10°-20°	161.8	2.7
20°-30°	275.1	4.6
30°-40°	449.6	7.5
40°-50°	802.7	13.4
50°-60°	1353.3	22.6
60°-70°	2100.2	35.1
70°-80°	737.9	12.3
80°-90°	41.7	0.7
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°	5978.0	100.0
0°-180°	5978.0	100.0



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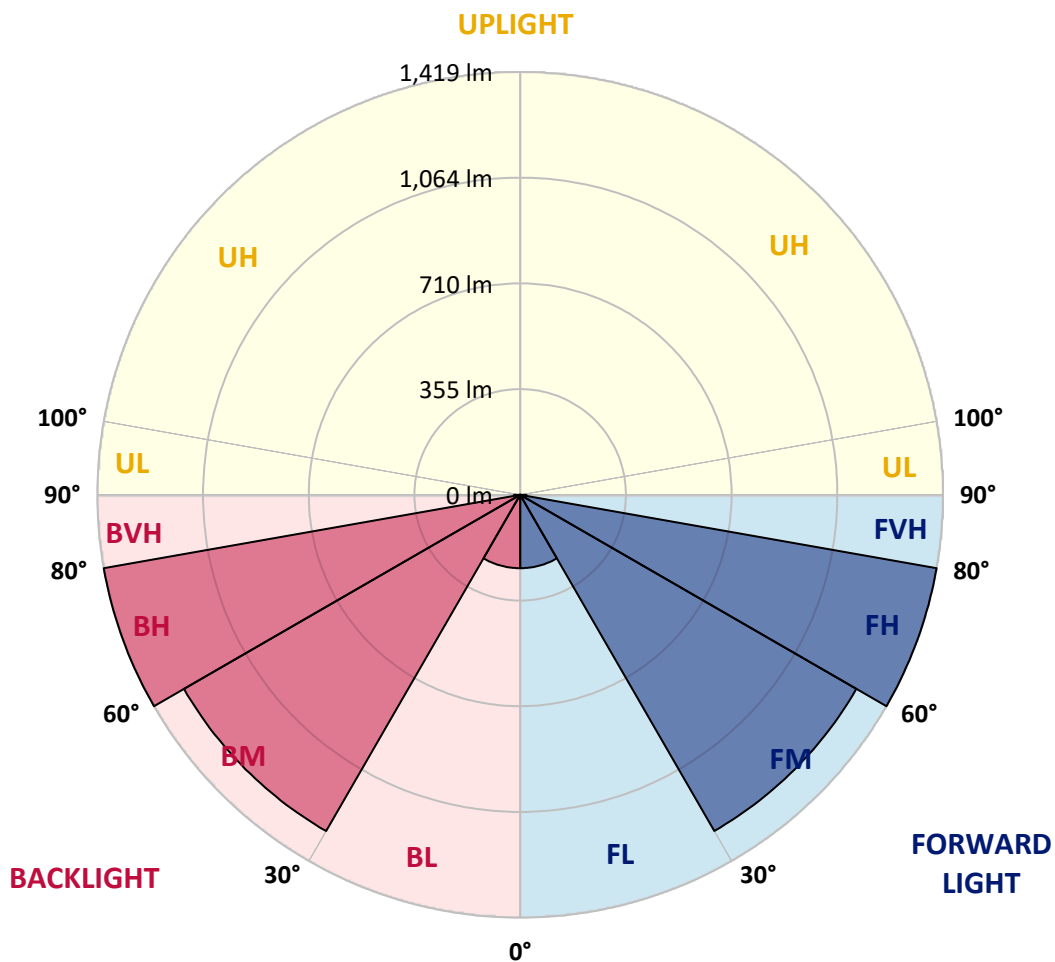
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.3	4.1			
FM	(30°-60°)	1302.8	21.8			
FH	(60°-80°)	1419.0	23.7			G1/1800
FVH	(80°-90°)	20.8	0.3			G1/100
BL	(0°-30°)	246.3	4.1	B1/500		
BM	(30°-60°)	1302.8	21.8	B2/2500		
BH	(60°-80°)	1419.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	20.8	0.3			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°	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
2.5°	593.5	594.1	594.1	594.1	593.8	593.8	593.3	593.8	593.5	592.7	593.0
5°	588.6	589.1	589.1	588.9	589.7	589.4	588.6	589.1	588.9	588.3	588.6
7.5°	581.4	582.3	582.3	582.0	582.8	582.5	582.0	582.3	582.3	581.4	581.4
10°	573.5	574.0	574.0	573.7	575.1	575.1	574.8	575.7	575.9	575.1	574.6
12.5°	566.0	566.9	566.9	568.0	569.3	569.9	571.3	572.4	573.5	573.2	572.1
15°	561.6	562.2	563.3	564.7	566.9	568.8	571.0	573.5	575.7	576.2	574.6
17.5°	558.9	559.7	561.4	563.3	566.3	569.6	572.9	576.2	579.2	580.3	578.4
20°	558.1	558.6	560.3	563.6	567.7	572.6	577.3	581.2	585.3	586.7	585.3
22.5°	559.7	560.8	562.7	566.6	572.1	578.4	583.9	589.1	594.4	596.8	594.9
25°	567.1	568.2	570.7	575.7	581.7	588.3	594.6	600.7	605.4	607.8	606.5
27.5°	580.9	582.3	585.3	590.2	596.8	604.0	610.9	615.8	619.7	620.5	618.8
30°	601.5	604.5	608.1	613.6	621.3	627.3	634.2	638.6	643.3	643.3	641.9
32.5°	633.7	636.7	640.5	645.8	651.8	658.4	664.5	668.3	673.3	673.5	670.2
35°	681.8	683.2	686.5	689.8	695.3	701.0	706.2	708.7	712.8	713.1	710.1
37.5°	745.3	745.6	747.8	748.9	753.8	760.1	765.1	766.7	770.6	770.0	767.0
40°	819.2	820.6	821.4	823.1	828.3	834.4	839.6	840.4	844.5	843.7	839.9
42.5°	904.7	905.3	910.0	912.4	917.4	920.4	927.0	927.8	932.8	930.6	926.2
45°	1000.7	1005.6	1010.0	1015.0	1020.2	1023.8	1029.0	1027.9	1031.2	1027.9	1025.4
47.5°	1101.6	1105.1	1115.0	1122.7	1131.3	1134.3	1141.7	1138.4	1141.7	1137.0	1136.2
50°	1212.6	1219.0	1227.5	1236.3	1245.3	1250.3	1259.9	1255.8	1260.2	1255.8	1253.3
52.5°	1322.0	1323.7	1342.4	1355.3	1368.0	1373.7	1379.5	1377.6	1377.9	1377.6	1375.1
55°	1426.0	1429.8	1448.5	1466.1	1488.1	1504.3	1514.2	1513.1	1510.6	1508.2	1504.0
57.5°	1543.1	1546.9	1568.4	1590.1	1615.1	1638.2	1658.3	1678.9	1686.9	1689.1	1680.0
60°	1701.4	1701.2	1729.7	1756.1	1791.9	1826.2	1870.2	1915.0	1966.4	1990.4	1958.7
62.5°	1862.5	1869.1	1910.4	1957.1	2030.8	2102.5	2183.6	2263.3	2344.7	2411.0	2340.6
65°	1843.3	1868.6	1929.9	2035.7	2171.8	2333.4	2508.3	2693.3	2860.5	2975.4	2846.4
67.5°	1597.5	1633.5	1695.9	1824.6	1994.8	2227.9	2521.5	2887.4	3312.7	3518.3	3263.5
70°	1157.9	1198.6	1264.0	1389.7	1558.2	1779.8	2098.7	2538.0	3101.0	3308.3	3027.6
72.5°	576.2	598.2	638.6	718.6	846.2	1026.0	1315.2	1737.4	2235.6	2425.8	2169.3
75°	195.7	205.9	212.8	238.9	279.3	350.0	493.7	759.6	1158.8	1389.1	1142.3
77.5°	113.0	113.3	117.9	122.6	129.5	137.2	156.4	205.4	355.2	504.5	367.6
80°	73.1	72.9	76.7	80.3	84.9	88.8	89.9	95.1	109.7	130.0	116.3
82.5°	37.9	42.6	51.1	55.8	64.6	66.3	64.1	62.1	65.7	68.2	69.8
85°	20.9	18.1	27.2	35.2	39.0	39.6	39.6	37.4	38.8	37.9	41.2
87.5°	9.6	8.8	10.7	17.3	18.4	15.7	16.5	14.6	10.4	10.2	11.5
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°	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
2.5°	593.0	593.3	593.3	594.1	594.4	594.9	595.5	595.7
5°	588.3	589.1	588.6	589.4	589.4	590.0	590.0	590.2
7.5°	581.4	582.3	582.3	582.3	582.0	582.8	582.8	582.8
10°	574.3	574.8	574.6	574.0	573.5	574.3	574.0	573.7
12.5°	572.1	570.7	569.6	569.1	568.0	568.2	567.4	567.4
15°	573.5	571.0	569.1	568.2	567.1	566.6	566.0	566.3
17.5°	577.0	574.0	571.5	570.2	568.8	568.0	566.9	567.1
20°	583.4	579.8	576.2	573.5	571.0	569.6	568.8	568.5
22.5°	592.7	587.5	582.3	578.1	574.8	572.9	572.1	571.5
25°	603.4	597.7	591.6	586.9	583.6	581.2	579.5	579.5
27.5°	616.9	612.2	606.7	601.2	598.2	595.7	594.6	594.1
30°	639.4	635.0	630.6	625.4	621.6	619.1	617.2	615.5
32.5°	668.3	664.7	661.2	657.3	653.7	650.4	647.4	646.0
35°	709.0	706.2	703.8	699.4	698.0	696.1	694.4	693.1
37.5°	765.1	764.0	764.0	759.3	758.2	757.4	755.7	756.0
40°	838.8	839.9	838.5	836.8	836.0	833.8	833.8	835.7
42.5°	925.9	926.7	929.8	927.0	930.0	927.3	925.6	927.0
45°	1027.1	1030.1	1036.1	1033.4	1035.3	1030.6	1024.9	1025.1
47.5°	1140.6	1143.4	1145.8	1143.9	1144.2	1136.5	1128.8	1126.9
50°	1258.5	1259.6	1261.0	1258.3	1258.8	1250.3	1241.5	1241.8
52.5°	1375.1	1380.3	1385.8	1378.4	1376.8	1367.1	1354.8	1349.8
55°	1508.4	1515.9	1509.5	1496.6	1483.7	1470.8	1454.6	1451.8
57.5°	1672.8	1660.2	1640.4	1615.9	1598.1	1579.9	1563.4	1556.5
60°	1901.6	1854.0	1818.3	1782.0	1759.2	1736.9	1715.2	1711.9
62.5°	2224.9	2142.7	2071.5	1996.4	1935.1	1887.3	1849.1	1838.3
65°	2630.1	2435.7	2267.2	2109.9	1973.3	1870.2	1805.3	1776.8
67.5°	2804.4	2420.6	2131.7	1908.4	1729.7	1604.9	1534.8	1499.9
70°	2464.3	2007.4	1693.2	1469.7	1306.9	1173.9	1110.4	1073.0
72.5°	1695.4	1277.0	1009.7	824.2	694.2	582.8	538.8	535.5
75°	761.2	504.2	347.5	267.8	225.4	196.0	186.9	180.1
77.5°	213.1	157.5	140.5	131.4	122.6	112.4	108.6	109.4
80°	103.6	97.9	94.0	88.2	80.3	71.8	67.9	69.6
82.5°	68.7	67.9	70.4	66.3	54.7	46.5	39.0	35.7
85°	41.8	42.3	43.2	43.4	36.8	25.8	17.6	19.8
87.5°	16.5	19.0	20.6	21.4	20.1	12.4	9.9	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)