

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: P193359

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193359
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: GLEON-AF-01-LED-E1-5MQ-8030-1200
Description: GALLEON AREA AND ROADWAY 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: 5861 lumens
Efficiency: N/A
Efficacy: 87.5 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

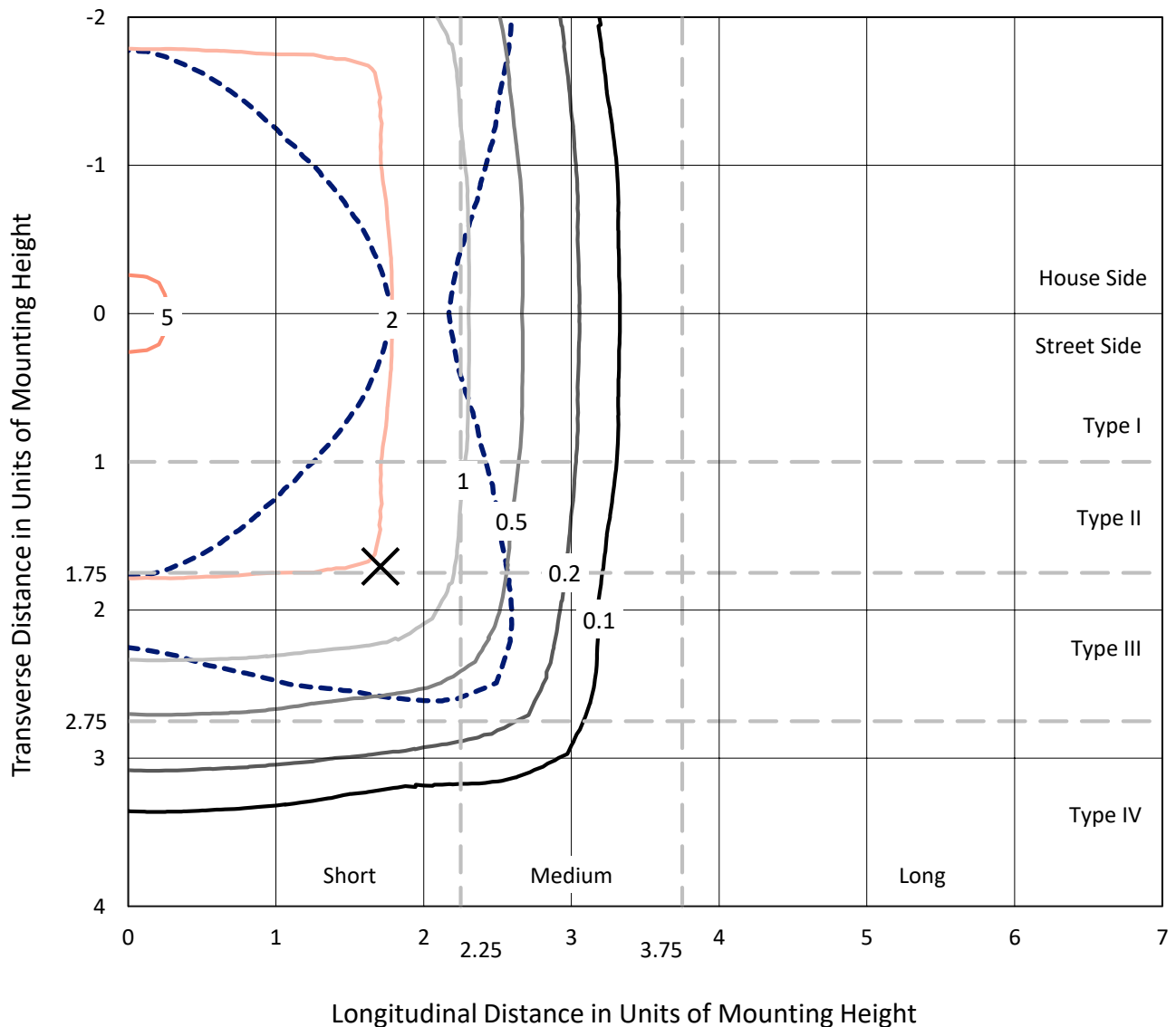


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Iso-Footcandle Lines of Horizontal Illumination

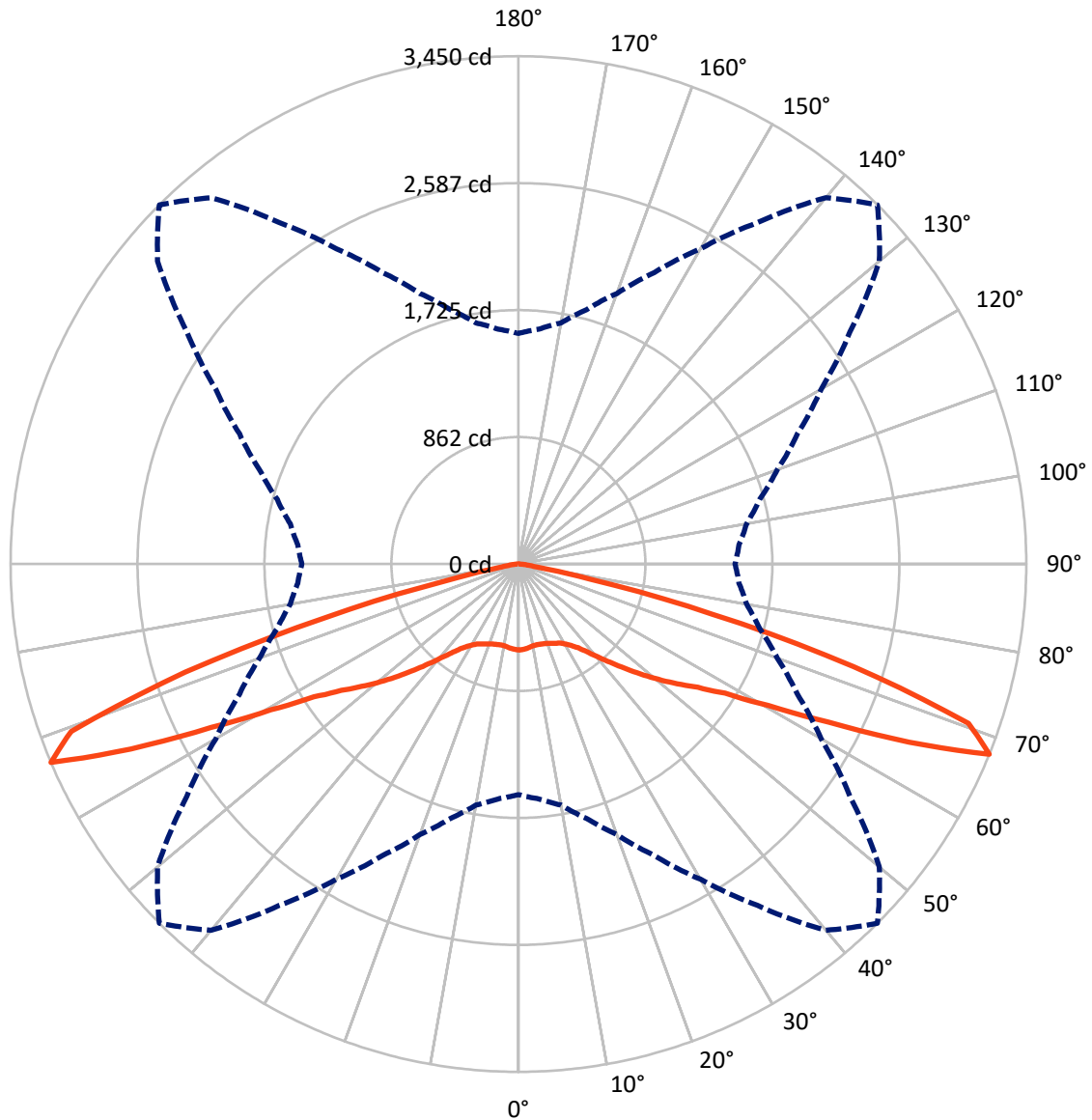
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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	2930.5	0.0	2930.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2930.5	0.0	2930.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5861.0	0.0	5861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	0.9
10°-20°	158.6	2.7
20°-30°	269.7	4.6
30°-40°	440.8	7.5
40°-50°	787.0	13.4
50°-60°	1326.8	22.6
60°-70°	2059.1	35.1
70°-80°	723.5	12.3
80°-90°	40.9	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°	5861.0	100.0
0°-180°	5861.0	100.0



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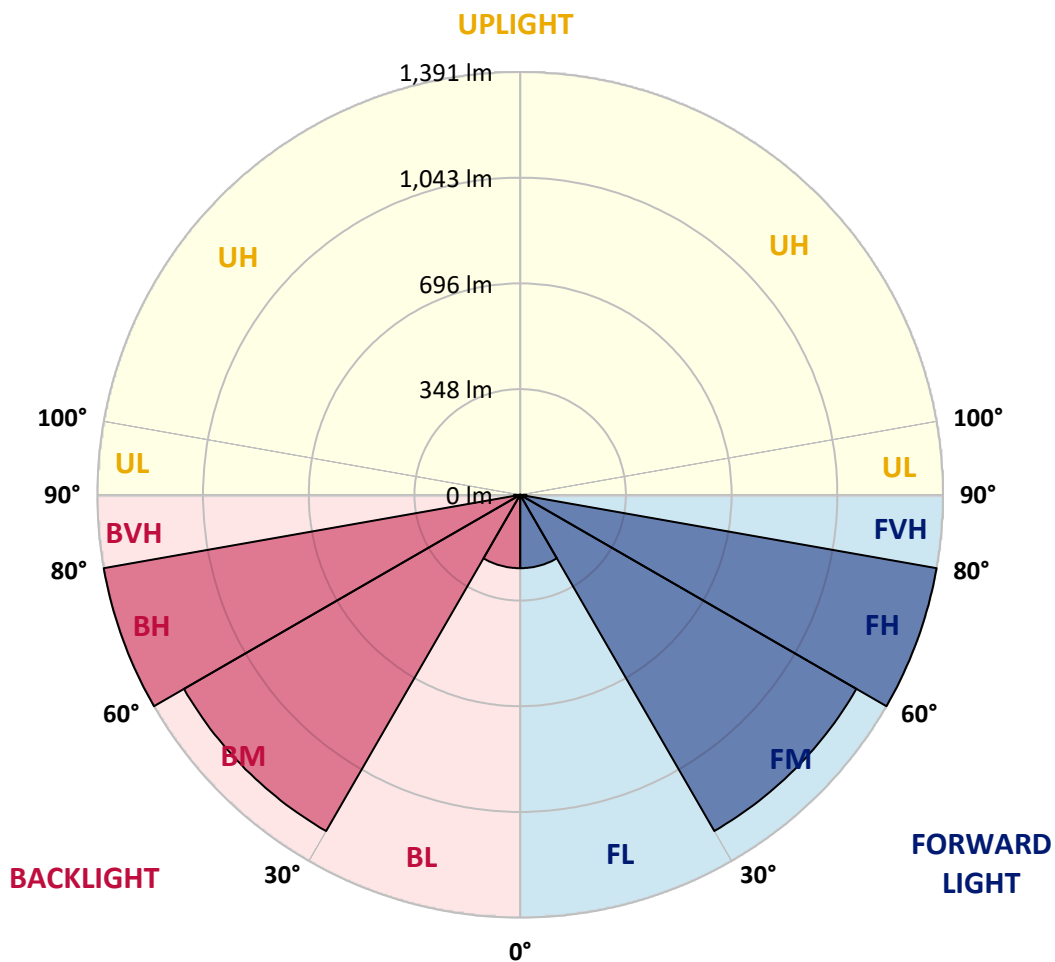
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.5	4.1			
FM	(30°-60°)	1277.3	21.8			
FH	(60°-80°)	1391.3	23.7			G1/1800
FVH	(80°-90°)	20.4	0.3			G1/100
BL	(0°-30°)	241.5	4.1	B1/500		
BM	(30°-60°)	1277.3	21.8	B2/2500		
BH	(60°-80°)	1391.3	23.7	B3/2500		G1/1800
BVH	(80°-90°)	20.4	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°	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1
2.5°	581.9	582.5	582.5	582.5	582.2	582.2	581.6	582.2	581.9	581.1	581.4
5°	577.1	577.6	577.6	577.3	578.1	577.9	577.1	577.6	577.3	576.8	577.1
7.5°	570.1	570.9	570.9	570.6	571.4	571.1	570.6	570.9	570.9	570.1	570.1
10°	562.2	562.8	562.8	562.5	563.9	563.9	563.6	564.4	564.7	563.9	563.3
12.5°	555.0	555.8	555.8	556.9	558.2	558.7	560.1	561.2	562.2	562.0	560.9
15°	550.7	551.2	552.3	553.6	555.8	557.7	559.8	562.2	564.4	564.9	563.3
17.5°	548.0	548.8	550.4	552.3	555.2	558.5	561.7	564.9	567.9	569.0	567.1
20°	547.1	547.7	549.3	552.5	556.6	561.4	566.0	569.8	573.8	575.2	573.8
22.5°	548.8	549.8	551.7	555.5	560.9	567.1	572.5	577.6	582.7	585.2	583.3
25°	556.0	557.1	559.5	564.4	570.3	576.8	583.0	588.9	593.5	595.9	594.6
27.5°	569.5	570.9	573.8	578.7	585.2	592.2	598.9	603.7	607.5	608.3	606.7
30°	589.7	592.7	596.2	601.6	609.1	615.1	621.8	626.1	630.7	630.7	629.4
32.5°	621.3	624.2	628.0	633.1	639.1	645.5	651.5	655.2	660.1	660.4	657.1
35°	668.4	669.8	673.0	676.3	681.6	687.3	692.4	694.9	698.9	699.2	696.2
37.5°	730.7	731.0	733.1	734.2	739.1	745.3	750.1	751.7	755.5	755.0	752.0
40°	803.2	804.5	805.4	807.0	812.1	818.0	823.1	824.0	828.0	827.2	823.4
42.5°	887.0	887.6	892.1	894.6	899.4	902.4	908.9	909.7	914.5	912.4	908.0
45°	981.1	985.9	990.3	995.1	1000.2	1003.7	1008.9	1007.8	1011.0	1007.8	1005.4
47.5°	1080.0	1083.5	1093.2	1100.8	1109.1	1112.1	1119.4	1116.1	1119.4	1114.8	1114.0
50°	1188.9	1195.1	1203.5	1212.1	1221.0	1225.8	1235.3	1231.2	1235.5	1231.2	1228.8
52.5°	1296.2	1297.8	1316.1	1328.8	1341.2	1346.8	1352.5	1350.6	1350.9	1350.6	1348.2
55°	1398.1	1401.8	1420.2	1437.4	1459.0	1474.9	1484.6	1483.5	1481.1	1478.6	1474.6
57.5°	1512.9	1516.7	1537.7	1559.0	1583.5	1606.1	1625.8	1646.0	1653.8	1656.0	1647.1
60°	1668.1	1667.9	1695.9	1721.8	1756.8	1790.5	1833.6	1877.6	1928.0	1951.4	1920.4
62.5°	1826.1	1832.5	1873.0	1918.8	1991.0	2061.4	2140.9	2219.0	2298.8	2363.8	2294.8
65°	1807.2	1832.0	1892.1	1995.9	2129.3	2287.8	2459.2	2640.6	2804.5	2917.1	2790.7
67.5°	1566.2	1601.6	1662.7	1788.9	1955.7	2184.3	2472.1	2830.9	3247.8	3449.5	3199.6
70°	1135.3	1175.2	1239.3	1362.5	1527.7	1744.9	2057.6	2488.3	3040.3	3243.5	2968.3
72.5°	564.9	586.5	626.1	704.6	829.6	1005.9	1289.4	1703.4	2191.8	2378.3	2126.9
75°	191.9	201.9	208.6	234.2	273.8	343.1	484.1	744.7	1136.1	1361.9	1119.9
77.5°	110.8	111.0	115.6	120.2	126.9	134.5	153.4	201.3	348.2	494.6	360.4
80°	71.7	71.4	75.2	78.7	83.3	87.1	88.1	93.3	107.5	127.5	114.0
82.5°	37.2	41.8	50.1	54.7	63.3	65.0	62.8	60.9	64.4	66.8	68.5
85°	20.5	17.8	26.7	34.5	38.3	38.8	38.8	36.7	38.0	37.2	40.4
87.5°	9.4	8.6	10.5	17.0	18.1	15.4	16.2	14.3	10.2	10.0	11.3
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°	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1
2.5°	581.4	581.6	581.6	582.5	582.7	583.3	583.8	584.1
5°	576.8	577.6	577.1	577.9	577.9	578.4	578.4	578.7
7.5°	570.1	570.9	570.9	570.9	570.6	571.4	571.4	571.4
10°	563.0	563.6	563.3	562.8	562.2	563.0	562.8	562.5
12.5°	560.9	559.5	558.5	557.9	556.9	557.1	556.3	556.3
15°	562.2	559.8	557.9	557.1	556.0	555.5	555.0	555.2
17.5°	565.7	562.8	560.4	559.0	557.7	556.9	555.8	556.0
20°	571.9	568.4	564.9	562.2	559.8	558.5	557.7	557.4
22.5°	581.1	576.0	570.9	566.8	563.6	561.7	560.9	560.4
25°	591.6	586.0	580.0	575.4	572.2	569.8	568.2	568.2
27.5°	604.8	600.2	594.9	589.5	586.5	584.1	583.0	582.5
30°	626.9	622.6	618.3	613.2	609.4	607.0	605.1	603.5
32.5°	655.2	651.7	648.2	644.4	640.9	637.7	634.7	633.4
35°	695.1	692.4	690.0	685.7	684.3	682.5	680.8	679.5
37.5°	750.1	749.0	749.0	744.4	743.4	742.6	740.9	741.2
40°	822.3	823.4	822.1	820.5	819.6	817.5	817.5	819.4
42.5°	907.8	908.6	911.6	908.9	911.8	909.1	907.5	908.9
45°	1007.0	1009.9	1015.9	1013.2	1015.1	1010.5	1004.8	1005.1
47.5°	1118.3	1121.0	1123.4	1121.5	1121.8	1114.2	1106.7	1104.8
50°	1233.9	1235.0	1236.3	1233.6	1234.2	1225.8	1217.2	1217.5
52.5°	1348.2	1353.3	1358.7	1351.4	1349.8	1340.4	1328.2	1323.4
55°	1478.9	1486.2	1480.0	1467.3	1454.7	1442.0	1426.1	1423.4
57.5°	1640.1	1627.7	1608.3	1584.3	1566.8	1549.0	1532.8	1526.1
60°	1864.3	1817.7	1782.7	1747.1	1724.7	1702.9	1681.6	1678.4
62.5°	2181.3	2100.7	2030.9	1957.3	1897.2	1850.3	1812.9	1802.4
65°	2578.6	2388.0	2222.8	2068.6	1934.7	1833.6	1770.0	1742.0
67.5°	2749.5	2373.2	2089.9	1871.1	1695.9	1573.5	1504.8	1470.6
70°	2416.1	1968.1	1660.0	1440.9	1281.3	1150.9	1088.6	1052.0
72.5°	1662.2	1252.0	990.0	808.1	680.6	571.4	528.3	525.0
75°	746.3	494.3	340.7	262.5	221.0	192.2	183.3	176.5
77.5°	208.9	154.4	137.7	128.8	120.2	110.2	106.5	107.3
80°	101.6	96.0	92.2	86.5	78.7	70.3	66.6	68.2
82.5°	67.4	66.6	69.0	65.0	53.6	45.6	38.3	35.0
85°	41.0	41.5	42.3	42.6	36.1	25.3	17.2	19.4
87.5°	16.2	18.6	20.2	21.0	19.7	12.1	9.7	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)