

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: P191599

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191599
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5290 lumens
Efficiency: N/A
Efficacy: 120.2 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): 44
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

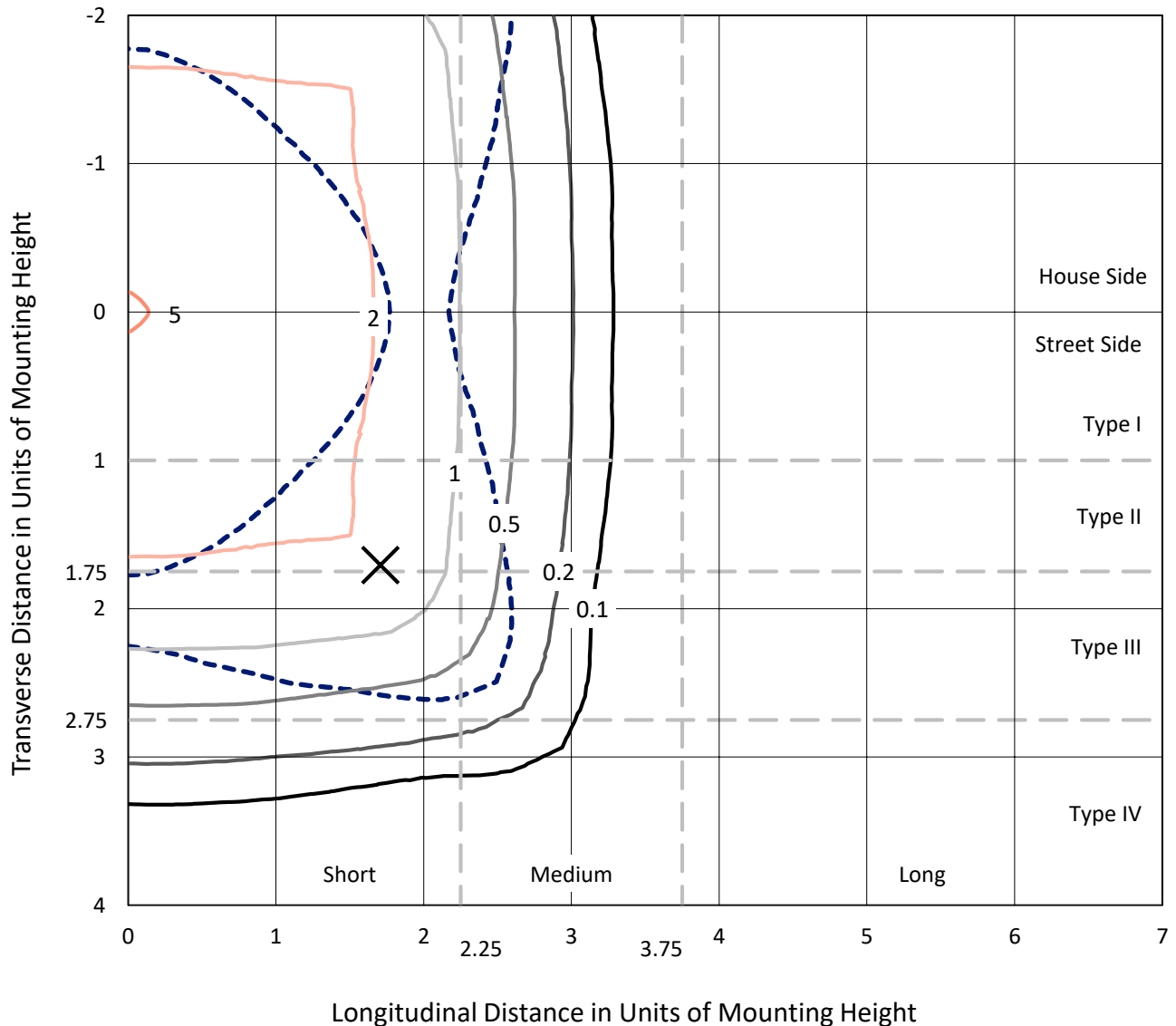


REPORT NUMBER: P191599

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

Iso-Footcandle Lines of Horizontal Illumination

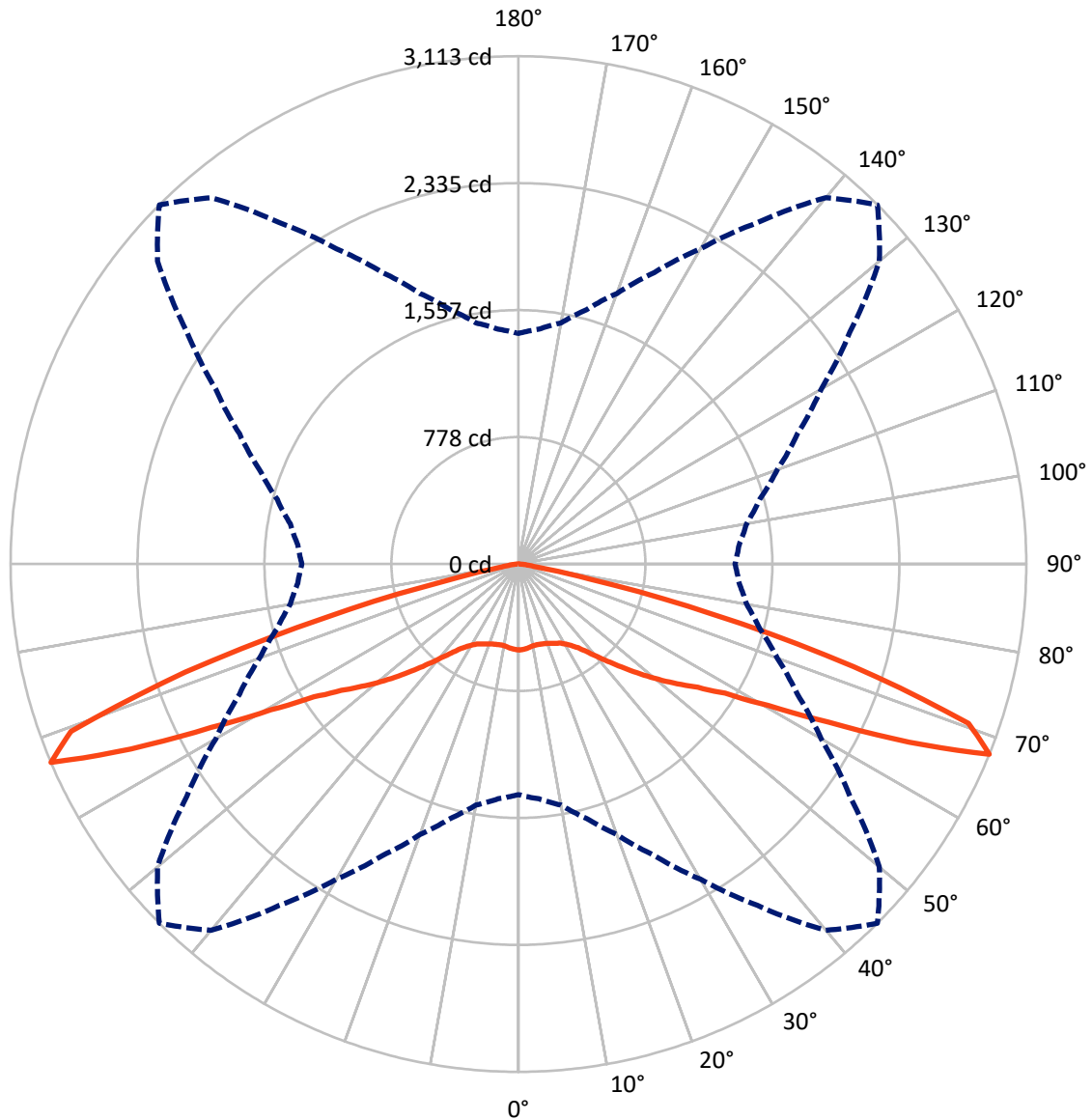
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P191599
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191599

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.0	0.0	2645.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2645.0	0.0	2645.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5290.0	0.0	5290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.9
10°-20°	143.2	2.7
20°-30°	243.4	4.6
30°-40°	397.9	7.5
40°-50°	710.3	13.4
50°-60°	1197.6	22.6
60°-70°	1858.5	35.1
70°-80°	653.0	12.3
80°-90°	36.9	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°	5290.0	100.0
0°-180°	5290.0	100.0



REPORT NUMBER: P191599

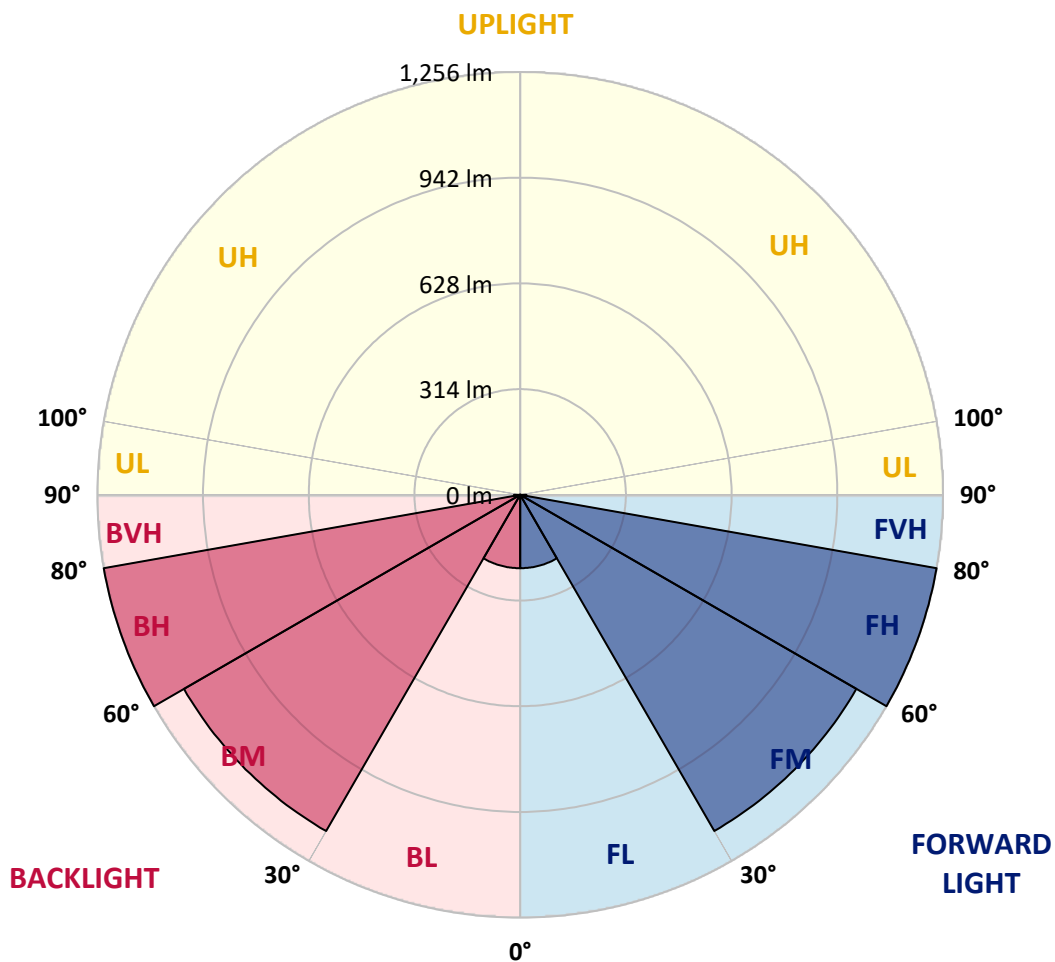
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	218.0	4.1			
FM (30°-60°)	1152.9	21.8			
FH (60°-80°)	1255.7	23.7			G1/1800
FVH (80°-90°)	18.5	0.3			G1/100
BL (0°-30°)	218.0	4.1	B1/500		
BM (30°-60°)	1152.9	21.8	B2/2500		
BH (60°-80°)	1255.7	23.7	B3/2500		G1/1800
BVH (80°-90°)	18.5	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





REPORT NUMBER: P191599

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	525.2	525.7	525.7	525.7	525.5	525.5	525.0	525.5	525.2	524.5	524.7
5°	520.8	521.3	521.3	521.1	521.8	521.6	520.8	521.3	521.1	520.6	520.8
7.5°	514.5	515.3	515.3	515.0	515.7	515.5	515.0	515.3	515.3	514.5	514.5
10°	507.5	508.0	508.0	507.7	508.9	508.9	508.7	509.4	509.7	508.9	508.4
12.5°	500.9	501.6	501.6	502.6	503.8	504.3	505.5	506.5	507.5	507.2	506.2
15°	497.0	497.5	498.5	499.7	501.6	503.3	505.3	507.5	509.4	509.9	508.4
17.5°	494.6	495.3	496.8	498.5	501.1	504.1	507.0	509.9	512.6	513.5	511.8
20°	493.8	494.3	495.8	498.7	502.4	506.7	510.9	514.3	517.9	519.1	517.9
22.5°	495.3	496.3	498.0	501.4	506.2	511.8	516.7	521.3	526.0	528.1	526.4
25°	501.9	502.8	505.0	509.4	514.8	520.6	526.2	531.5	535.7	537.9	536.7
27.5°	514.0	515.3	517.9	522.3	528.1	534.5	540.6	544.9	548.3	549.1	547.6
30°	532.3	535.0	538.1	543.0	549.8	555.1	561.2	565.1	569.3	569.3	568.0
32.5°	560.7	563.4	566.8	571.4	576.8	582.6	588.0	591.4	595.8	596.0	593.1
35°	603.3	604.5	607.5	610.4	615.2	620.3	625.0	627.2	630.8	631.0	628.4
37.5°	659.5	659.8	661.7	662.7	667.1	672.6	677.0	678.5	681.9	681.4	678.7
40°	725.0	726.2	726.9	728.4	733.0	738.3	743.0	743.7	747.3	746.6	743.2
42.5°	800.6	801.1	805.2	807.4	811.8	814.5	820.3	821.0	825.4	823.5	819.6
45°	885.5	889.9	893.8	898.2	902.8	905.9	910.6	909.6	912.5	909.6	907.4
47.5°	974.8	978.0	986.7	993.5	1001.1	1003.7	1010.3	1007.4	1010.3	1006.2	1005.4
50°	1073.1	1078.7	1086.2	1094.0	1102.0	1106.4	1114.9	1111.3	1115.2	1111.3	1109.1
52.5°	1169.9	1171.4	1187.9	1199.3	1210.5	1215.6	1220.7	1219.0	1219.3	1219.0	1216.8
55°	1261.9	1265.3	1281.8	1297.4	1316.8	1331.2	1339.9	1339.0	1336.8	1334.6	1330.9
57.5°	1365.5	1368.9	1387.9	1407.1	1429.2	1449.7	1467.4	1485.7	1492.7	1494.7	1486.6
60°	1505.6	1505.4	1530.7	1554.0	1585.6	1616.1	1655.0	1694.6	1740.1	1761.3	1733.3
62.5°	1648.2	1654.0	1690.5	1731.9	1797.1	1860.5	1932.3	2002.9	2074.9	2133.5	2071.2
65°	1631.1	1653.5	1707.8	1801.4	1921.9	2064.9	2219.6	2383.3	2531.2	2632.9	2518.8
67.5°	1413.7	1445.5	1500.7	1614.6	1765.2	1971.5	2231.3	2555.1	2931.4	3113.4	2887.9
70°	1024.7	1060.7	1118.6	1229.7	1378.9	1574.9	1857.1	2245.9	2744.1	2927.5	2679.2
72.5°	509.9	529.4	565.1	635.9	748.8	907.9	1163.8	1537.5	1978.3	2146.6	1919.7
75°	173.2	182.2	188.3	211.4	247.2	309.7	436.9	672.2	1025.4	1229.3	1010.8
77.5°	100.0	100.2	104.4	108.5	114.6	121.4	138.4	181.7	314.3	446.4	325.3
80°	64.7	64.5	67.9	71.0	75.2	78.6	79.6	84.2	97.1	115.1	102.9
82.5°	33.6	37.7	45.2	49.4	57.2	58.6	56.7	55.0	58.1	60.3	61.8
85°	18.5	16.1	24.1	31.1	34.5	35.0	35.0	33.1	34.3	33.6	36.5
87.5°	8.5	7.8	9.5	15.3	16.3	13.9	14.6	12.9	9.2	9.0	10.2
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: P191599

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	524.7	525.0	525.0	525.7	526.0	526.4	526.9	527.2
5°	520.6	521.3	520.8	521.6	521.6	522.1	522.1	522.3
7.5°	514.5	515.3	515.3	515.3	515.0	515.7	515.7	515.7
10°	508.2	508.7	508.4	508.0	507.5	508.2	508.0	507.7
12.5°	506.2	505.0	504.1	503.6	502.6	502.8	502.1	502.1
15°	507.5	505.3	503.6	502.8	501.9	501.4	500.9	501.1
17.5°	510.6	508.0	505.8	504.5	503.3	502.6	501.6	501.9
20°	516.2	513.1	509.9	507.5	505.3	504.1	503.3	503.1
22.5°	524.5	519.9	515.3	511.6	508.7	507.0	506.2	505.8
25°	534.0	528.9	523.5	519.4	516.5	514.3	512.8	512.8
27.5°	545.9	541.8	536.9	532.0	529.4	527.2	526.2	525.7
30°	565.9	562.0	558.1	553.4	550.0	547.8	546.1	544.7
32.5°	591.4	588.2	585.1	581.7	578.5	575.6	572.9	571.7
35°	627.4	625.0	622.8	618.9	617.7	616.0	614.5	613.3
37.5°	677.0	676.1	676.1	671.9	670.9	670.2	668.8	669.0
40°	742.2	743.2	742.0	740.5	739.8	737.8	737.8	739.5
42.5°	819.3	820.1	822.7	820.3	823.0	820.6	819.1	820.3
45°	908.9	911.5	916.9	914.5	916.2	912.0	906.9	907.2
47.5°	1009.3	1011.8	1014.0	1012.3	1012.5	1005.7	998.9	997.2
50°	1113.7	1114.7	1115.9	1113.5	1113.9	1106.4	1098.6	1098.9
52.5°	1216.8	1221.5	1226.3	1219.8	1218.3	1209.8	1198.8	1194.5
55°	1334.8	1341.4	1335.8	1324.4	1312.9	1301.5	1287.2	1284.7
57.5°	1480.3	1469.1	1451.6	1430.0	1414.1	1398.1	1383.5	1377.4
60°	1682.7	1640.6	1609.0	1576.9	1556.7	1537.0	1517.8	1514.9
62.5°	1968.8	1896.1	1833.1	1766.6	1712.4	1670.1	1636.2	1626.8
65°	2327.4	2155.4	2006.3	1867.1	1746.2	1655.0	1597.6	1572.3
67.5°	2481.6	2142.0	1886.3	1688.8	1530.7	1420.2	1358.2	1327.3
70°	2180.7	1776.4	1498.3	1300.5	1156.5	1038.8	982.6	949.5
72.5°	1500.3	1130.0	893.5	729.3	614.3	515.7	476.8	473.9
75°	673.6	446.2	307.5	236.9	199.5	173.5	165.4	159.3
77.5°	188.5	139.4	124.3	116.3	108.5	99.5	96.1	96.8
80°	91.7	86.6	83.2	78.1	71.0	63.5	60.1	61.5
82.5°	60.8	60.1	62.3	58.6	48.4	41.1	34.5	31.6
85°	37.0	37.5	38.2	38.4	32.6	22.9	15.6	17.5
87.5°	14.6	16.8	18.2	19.0	17.8	10.9	8.8	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)