

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: P191589

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191589  
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-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4314 lumens  
Efficiency: N/A  
Efficacy: 126.9 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): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

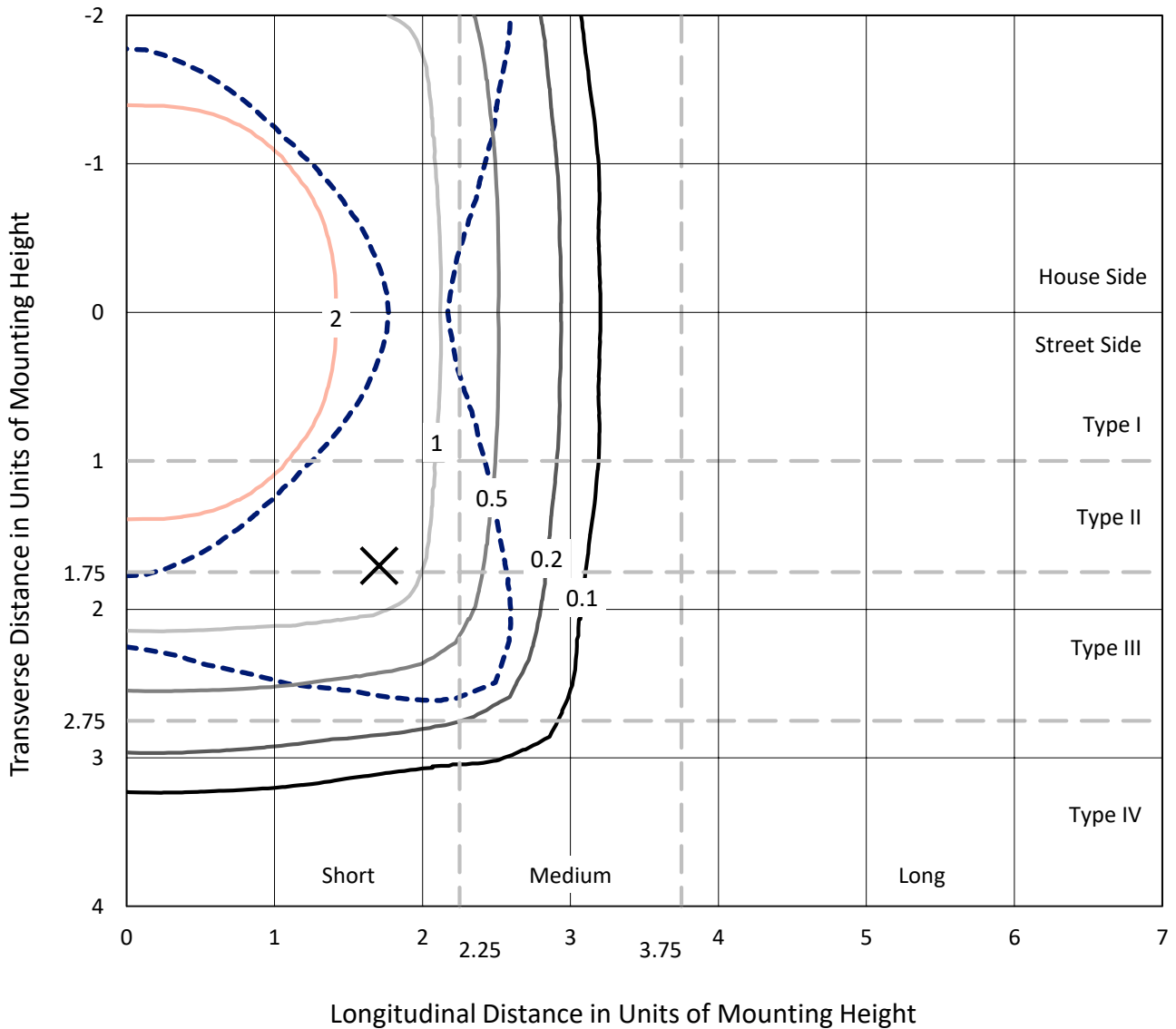


REPORT NUMBER: P191589

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

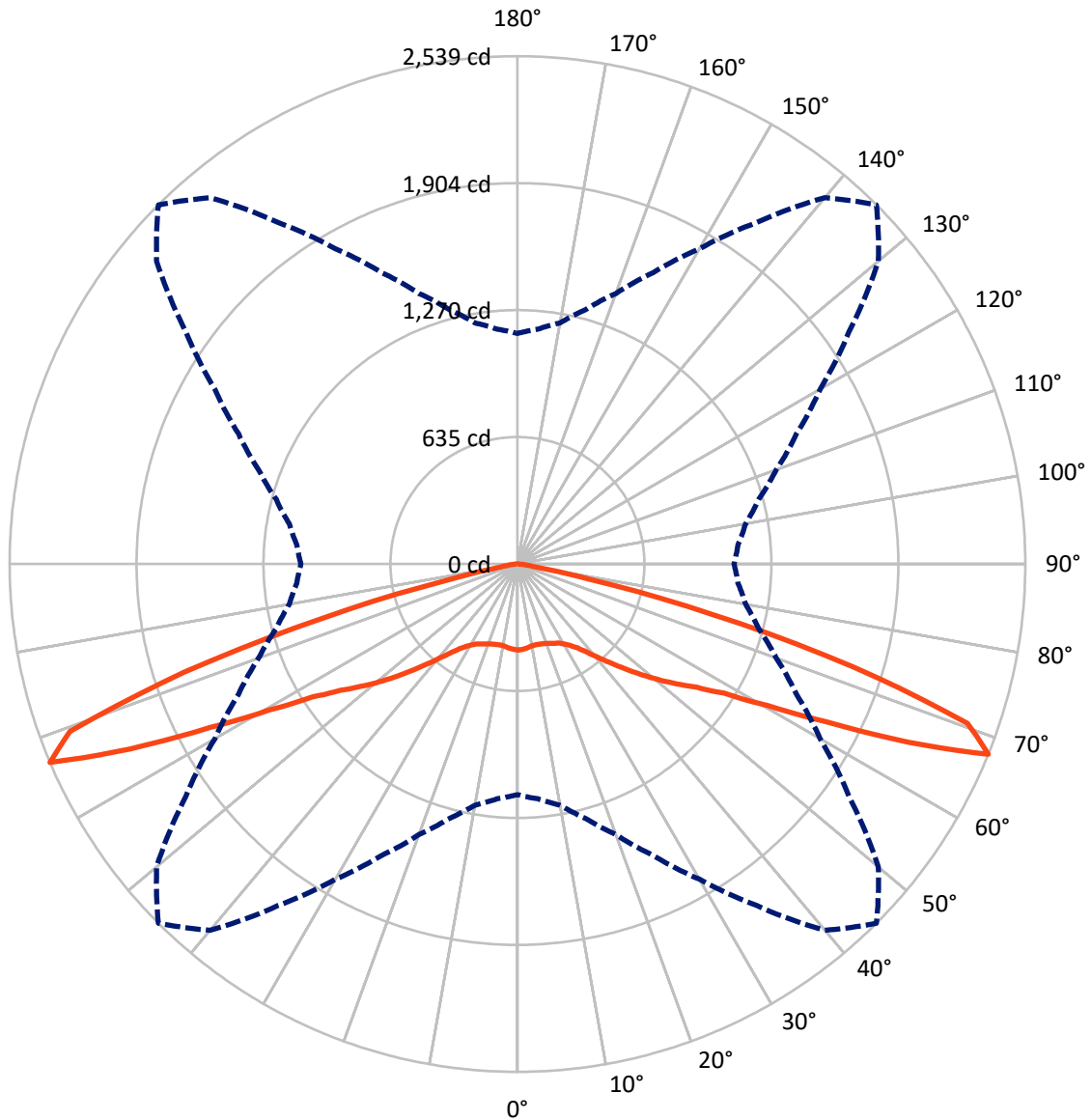
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P191589  
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191589

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2157.0	0.0	2157.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2157.0	0.0	2157.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4314.0	0.0	4314.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	0.9
10°-20°	116.8	2.7
20°-30°	198.5	4.6
30°-40°	324.5	7.5
40°-50°	579.2	13.4
50°-60°	976.6	22.6
60°-70°	1515.6	35.1
70°-80°	532.5	12.3
80°-90°	30.1	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°	4314.0	100.0
0°-180°	4314.0	100.0



REPORT NUMBER: P191589

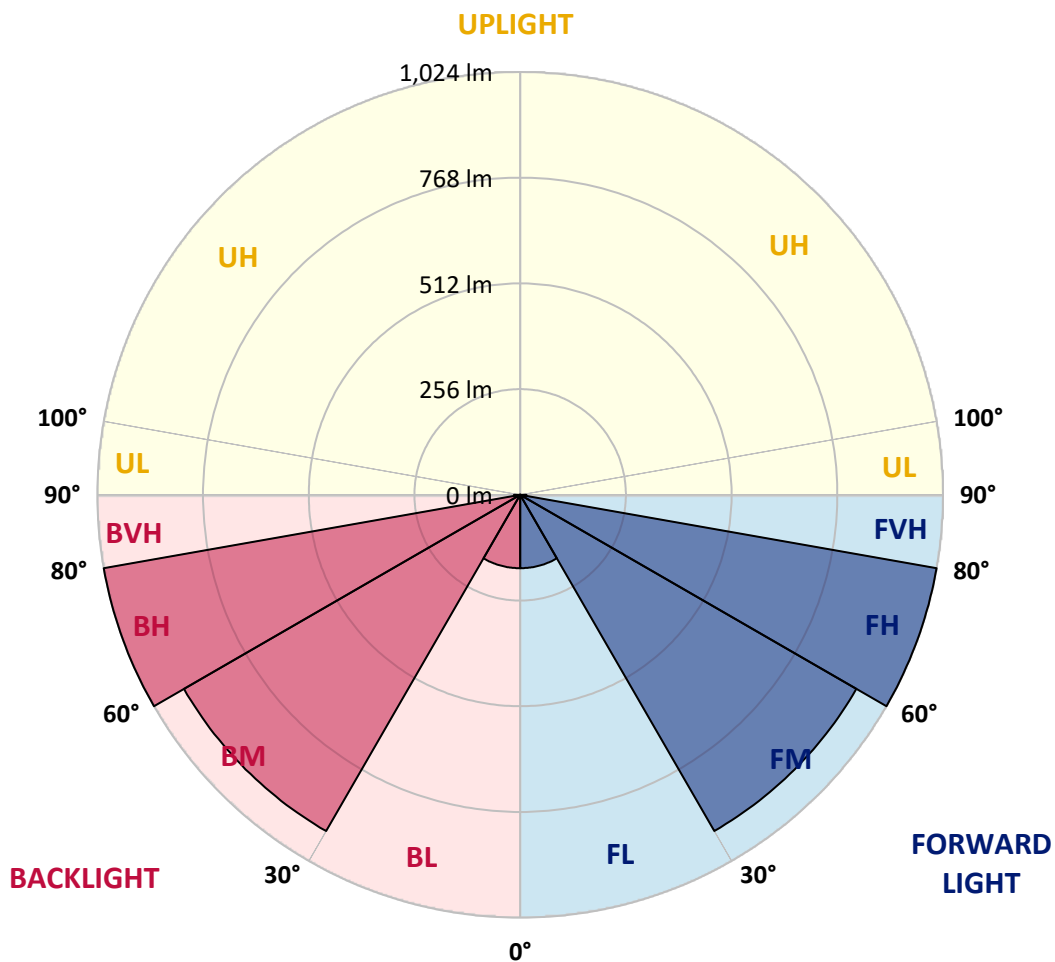
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.7	4.1			
FM (30°-60°)	940.2	21.8			
FH (60°-80°)	1024.0	23.7			G1/1800
FVH (80°-90°)	15.0	0.3			G1/100
BL (0°-30°)	177.7	4.1	B1/500		
BM (30°-60°)	940.2	21.8	B1/1000		
BH (60°-80°)	1024.0	23.7	B3/2500		G1/1800
BVH (80°-90°)	15.0	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: P191589

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	429.9	429.9	429.9	429.9	429.9	429.9	429.9	429.9	429.9	429.9	429.9
2.5°	428.3	428.7	428.7	428.7	428.5	428.5	428.1	428.5	428.3	427.7	427.9
5°	424.8	425.1	425.1	424.9	425.5	425.3	424.8	425.1	424.9	424.6	424.8
7.5°	419.6	420.2	420.2	420.0	420.6	420.4	420.0	420.2	420.2	419.6	419.6
10°	413.8	414.2	414.2	414.0	415.0	415.0	414.8	415.4	415.6	415.0	414.6
12.5°	408.5	409.1	409.1	409.9	410.9	411.3	412.3	413.0	413.8	413.6	412.8
15°	405.3	405.7	406.5	407.5	409.1	410.5	412.1	413.8	415.4	415.8	414.6
17.5°	403.3	403.9	405.1	406.5	408.7	411.1	413.4	415.8	418.0	418.8	417.4
20°	402.7	403.1	404.3	406.7	409.7	413.2	416.6	419.4	422.4	423.4	422.4
22.5°	403.9	404.7	406.1	408.9	412.8	417.4	421.4	425.1	428.9	430.7	429.3
25°	409.3	410.1	411.9	415.4	419.8	424.6	429.1	433.5	436.9	438.6	437.6
27.5°	419.2	420.2	422.4	425.9	430.7	435.9	440.8	444.4	447.2	447.8	446.6
30°	434.1	436.3	438.8	442.8	448.4	452.7	457.7	460.9	464.2	464.2	463.2
32.5°	457.3	459.5	462.2	466.0	470.4	475.1	479.5	482.3	485.9	486.1	483.7
35°	492.0	493.0	495.4	497.8	501.7	505.9	509.7	511.4	514.4	514.6	512.4
37.5°	537.8	538.0	539.6	540.4	544.0	548.5	552.1	553.3	556.1	555.7	553.5
40°	591.2	592.2	592.8	594.0	597.7	602.1	605.9	606.5	609.5	608.9	606.1
42.5°	652.9	653.3	656.7	658.5	662.0	664.2	669.0	669.6	673.1	671.5	668.4
45°	722.1	725.7	728.9	732.5	736.2	738.8	742.6	741.8	744.2	741.8	740.0
47.5°	794.9	797.5	804.7	810.2	816.4	818.6	823.9	821.5	823.9	820.5	819.9
50°	875.1	879.7	885.8	892.2	898.7	902.3	909.2	906.2	909.4	906.2	904.5
52.5°	954.1	955.2	968.7	978.1	987.2	991.3	995.5	994.1	994.3	994.1	992.3
55°	1029.0	1031.8	1045.3	1058.0	1073.9	1085.6	1092.7	1091.9	1090.1	1088.4	1085.4
57.5°	1113.6	1116.3	1131.8	1147.5	1165.5	1182.2	1196.7	1211.6	1217.3	1218.9	1212.4
60°	1227.8	1227.6	1248.3	1267.3	1293.1	1317.9	1349.6	1382.0	1419.1	1436.3	1413.5
62.5°	1344.1	1348.8	1378.6	1412.3	1465.5	1517.3	1575.8	1633.3	1692.1	1739.9	1689.1
65°	1330.2	1348.4	1392.7	1469.1	1567.3	1683.9	1810.1	1943.6	2064.2	2147.2	2054.1
67.5°	1152.8	1178.8	1223.9	1316.7	1439.5	1607.7	1819.6	2083.7	2390.6	2539.0	2355.1
70°	835.6	865.0	912.2	1002.9	1124.5	1284.4	1514.5	1831.5	2237.8	2387.4	2184.9
72.5°	415.8	431.7	460.9	518.6	610.6	740.4	949.1	1253.8	1613.3	1750.6	1565.5
75°	141.3	148.6	153.6	172.4	201.6	252.5	356.3	548.1	836.2	1002.5	824.3
77.5°	81.5	81.7	85.1	88.5	93.4	99.0	112.9	148.2	256.3	364.0	265.2
80°	52.8	52.6	55.4	57.9	61.3	64.1	64.9	68.6	79.2	93.8	83.9
82.5°	27.4	30.8	36.9	40.3	46.6	47.8	46.2	44.8	47.4	49.2	50.4
85°	15.1	13.1	19.6	25.4	28.2	28.6	28.6	27.0	28.0	27.4	29.8
87.5°	6.9	6.3	7.7	12.5	13.3	11.3	11.9	10.5	7.5	7.3	8.3
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: P191589

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-7050-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	429.9	429.9	429.9	429.9	429.9	429.9	429.9	429.9
2.5°	427.9	428.1	428.1	428.7	428.9	429.3	429.7	429.9
5°	424.6	425.1	424.8	425.3	425.3	425.7	425.7	425.9
7.5°	419.6	420.2	420.2	420.2	420.0	420.6	420.6	420.6
10°	414.4	414.8	414.6	414.2	413.8	414.4	414.2	414.0
12.5°	412.8	411.9	411.1	410.7	409.9	410.1	409.5	409.5
15°	413.8	412.1	410.7	410.1	409.3	408.9	408.5	408.7
17.5°	416.4	414.2	412.5	411.5	410.5	409.9	409.1	409.3
20°	421.0	418.4	415.8	413.8	412.1	411.1	410.5	410.3
22.5°	427.7	424.0	420.2	417.2	414.8	413.4	412.8	412.5
25°	435.5	431.3	426.9	423.6	421.2	419.4	418.2	418.2
27.5°	445.2	441.8	437.8	433.9	431.7	429.9	429.1	428.7
30°	461.5	458.3	455.1	451.3	448.6	446.8	445.4	444.2
32.5°	482.3	479.7	477.1	474.3	471.8	469.4	467.2	466.2
35°	511.6	509.7	507.9	504.7	503.7	502.3	501.1	500.1
37.5°	552.1	551.3	551.3	547.9	547.2	546.6	545.4	545.6
40°	605.3	606.1	605.1	603.9	603.3	601.7	601.7	603.1
42.5°	668.2	668.8	671.0	669.0	671.1	669.2	668.0	669.0
45°	741.2	743.4	747.7	745.7	747.1	743.8	739.6	739.8
47.5°	823.1	825.1	826.9	825.5	825.7	820.1	814.6	813.2
50°	908.2	909.0	910.0	908.0	908.4	902.3	895.9	896.1
52.5°	992.3	996.1	1000.1	994.7	993.5	986.6	977.7	974.1
55°	1088.6	1093.9	1089.4	1080.0	1070.7	1061.4	1049.7	1047.7
57.5°	1207.2	1198.1	1183.8	1166.1	1153.2	1140.1	1128.2	1123.3
60°	1372.3	1337.9	1312.1	1286.0	1269.5	1253.4	1237.7	1235.4
62.5°	1605.6	1546.2	1494.9	1440.7	1396.5	1361.9	1334.4	1326.6
65°	1898.0	1757.7	1636.1	1522.6	1424.0	1349.6	1302.8	1282.2
67.5°	2023.8	1746.8	1538.3	1377.2	1248.3	1158.2	1107.6	1082.4
70°	1778.4	1448.6	1221.9	1060.6	943.1	847.1	801.3	774.3
72.5°	1223.5	921.5	728.7	594.8	500.9	420.6	388.8	386.5
75°	549.3	363.8	250.8	193.2	162.7	141.5	134.9	129.9
77.5°	153.8	113.7	101.4	94.8	88.5	81.1	78.4	79.0
80°	74.8	70.6	67.8	63.7	57.9	51.8	49.0	50.2
82.5°	49.6	49.0	50.8	47.8	39.5	33.5	28.2	25.8
85°	30.2	30.6	31.1	31.3	26.6	18.6	12.7	14.3
87.5°	11.9	13.7	14.9	15.5	14.5	8.9	7.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)