

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: P193339

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193339  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 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: 4317 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

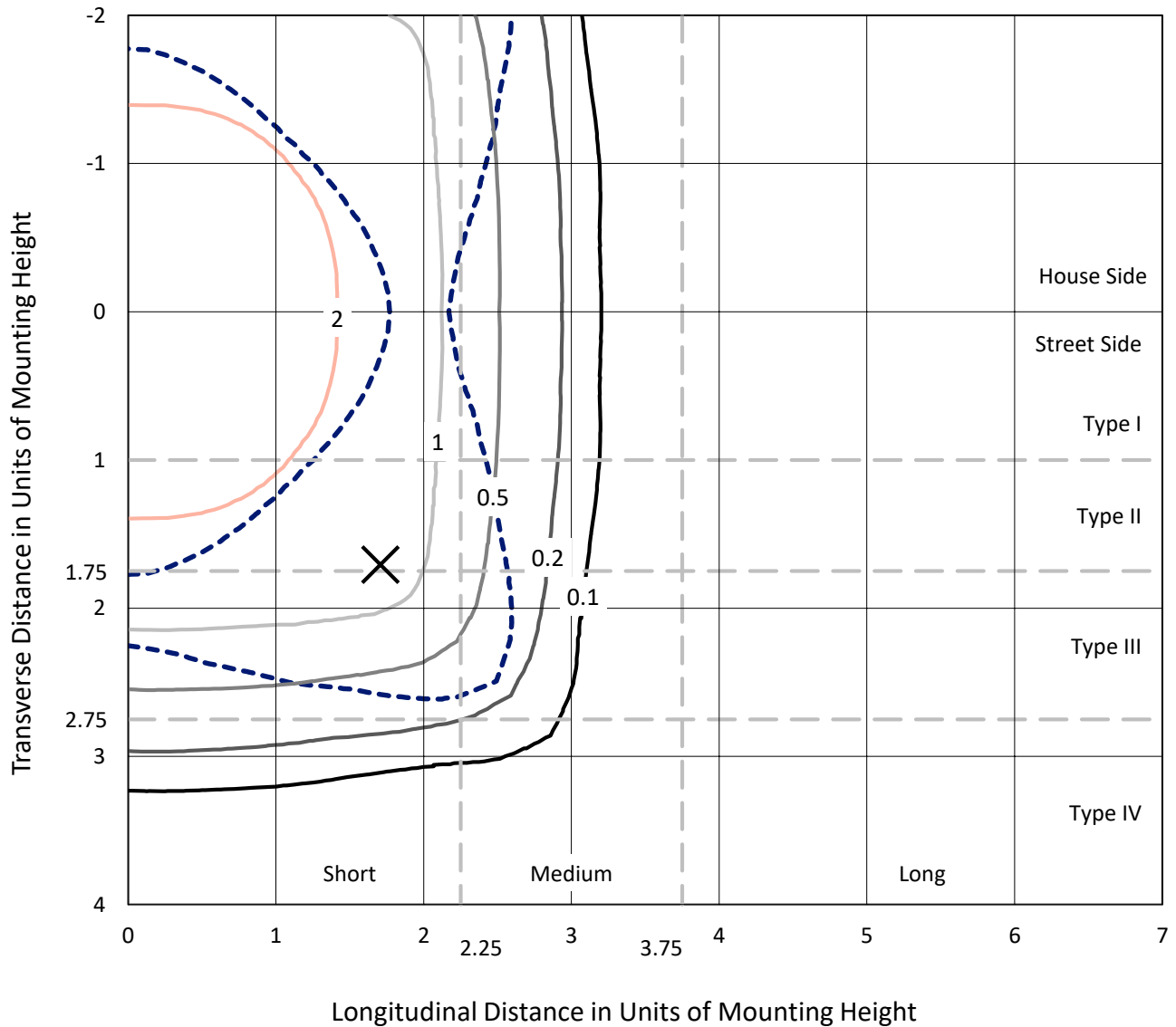


REPORT NUMBER: P193339

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

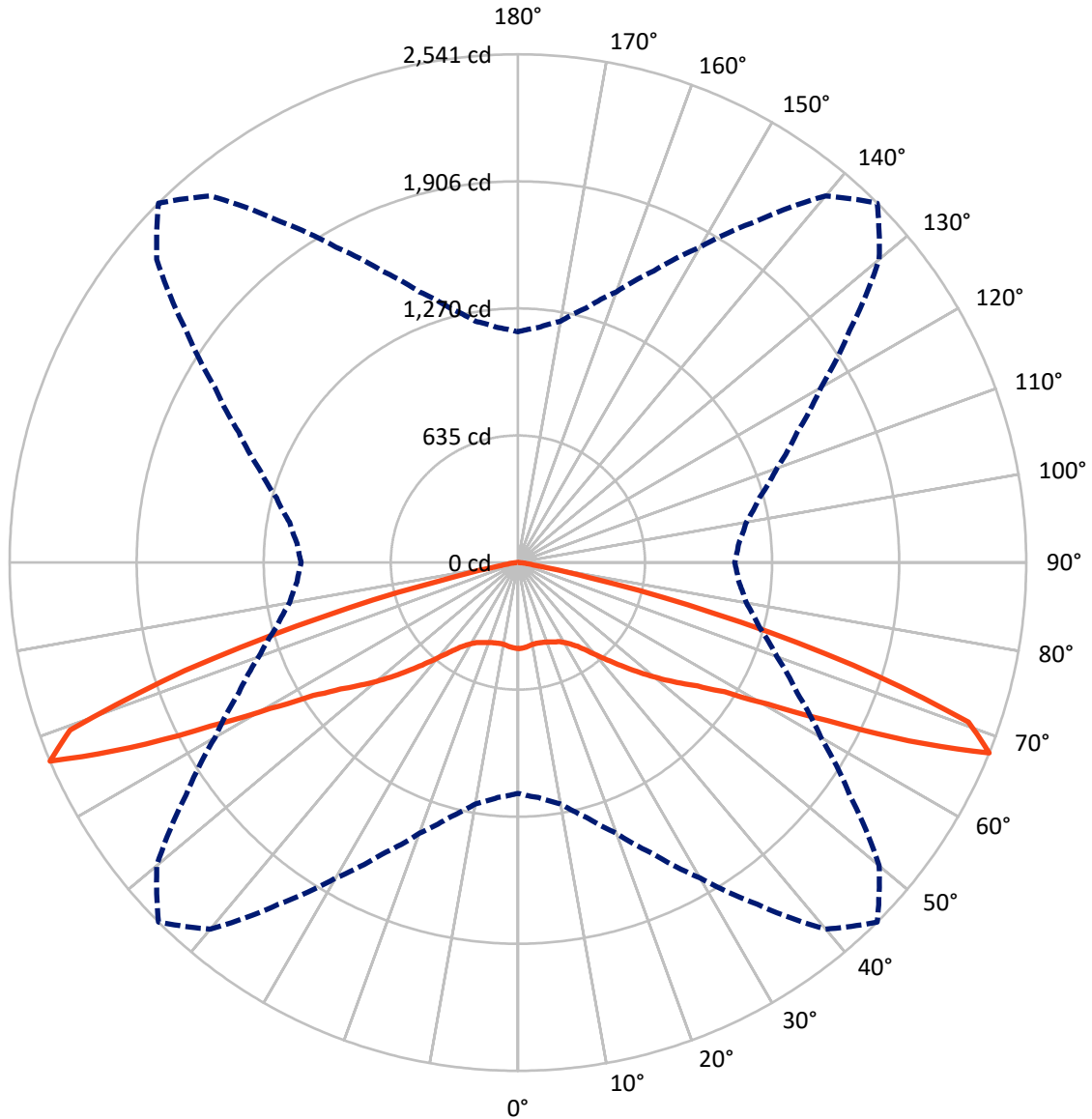


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P193339

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193339

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2158.5	0.0	2158.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2158.5	0.0	2158.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4317.0	0.0	4317.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	0.9
10°-20°	116.8	2.7
20°-30°	198.6	4.6
30°-40°	324.7	7.5
40°-50°	579.6	13.4
50°-60°	977.3	22.6
60°-70°	1516.6	35.1
70°-80°	532.9	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°	4317.0	100.0
0°-180°	4317.0	100.0



REPORT NUMBER: P193339

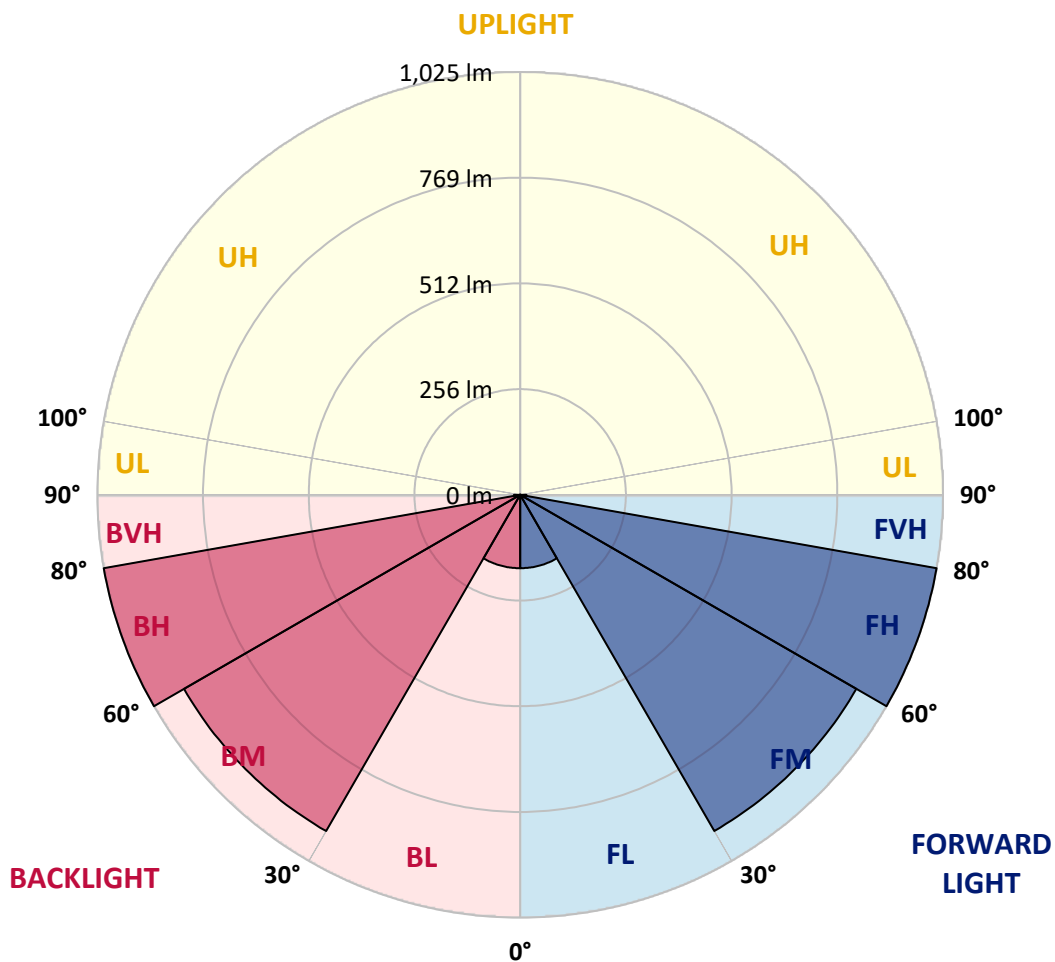
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.9	4.1			
FM (30°-60°)	940.8	21.8			
FH (60°-80°)	1024.8	23.7			G1/1800
FVH (80°-90°)	15.1	0.3			G1/100
BL (0°-30°)	177.9	4.1	B1/500		
BM (30°-60°)	940.8	21.8	B1/1000		
BH (60°-80°)	1024.8	23.7	B3/2500		G1/1800
BVH (80°-90°)	15.1	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: P193339

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	430.2	430.2	430.2	430.2	430.2	430.2	430.2	430.2	430.2	430.2	430.2
2.5°	428.6	429.0	429.0	429.0	428.8	428.8	428.4	428.8	428.6	428.0	428.2
5°	425.0	425.4	425.4	425.2	425.8	425.6	425.0	425.4	425.2	424.8	425.0
7.5°	419.9	420.5	420.5	420.3	420.9	420.7	420.3	420.5	420.5	419.9	419.9
10°	414.1	414.5	414.5	414.3	415.3	415.3	415.1	415.7	415.9	415.3	414.9
12.5°	408.8	409.4	409.4	410.2	411.1	411.5	412.5	413.3	414.1	413.9	413.1
15°	405.6	406.0	406.8	407.8	409.4	410.8	412.3	414.1	415.7	416.1	414.9
17.5°	403.6	404.2	405.4	406.8	409.0	411.3	413.7	416.1	418.3	419.1	417.7
20°	403.0	403.4	404.6	407.0	410.0	413.5	416.9	419.7	422.7	423.7	422.7
22.5°	404.2	405.0	406.4	409.2	413.1	417.7	421.7	425.4	429.2	431.0	429.6
25°	409.6	410.4	412.1	415.7	420.1	424.8	429.4	433.8	437.2	438.9	437.9
27.5°	419.5	420.5	422.7	426.2	431.0	436.2	441.1	444.7	447.5	448.1	446.9
30°	434.4	436.6	439.1	443.1	448.7	453.0	458.0	461.2	464.6	464.6	463.6
32.5°	457.6	459.8	462.6	466.3	470.7	475.5	479.8	482.6	486.2	486.4	484.0
35°	492.3	493.3	495.7	498.1	502.1	506.2	510.0	511.8	514.8	515.0	512.8
37.5°	538.2	538.4	540.0	540.8	544.4	548.9	552.5	553.7	556.5	556.1	553.9
40°	591.6	592.6	593.2	594.4	598.2	602.5	606.3	606.9	609.9	609.3	606.5
42.5°	653.4	653.7	657.1	658.9	662.5	664.7	669.4	670.0	673.6	672.0	668.8
45°	722.6	726.2	729.4	733.0	736.7	739.3	743.1	742.3	744.7	742.3	740.5
47.5°	795.5	798.1	805.2	810.8	816.9	819.1	824.5	822.1	824.5	821.1	820.5
50°	875.7	880.3	886.4	892.8	899.3	902.9	909.8	906.9	910.0	906.9	905.1
52.5°	954.7	955.9	969.4	978.7	987.9	992.0	996.2	994.8	995.0	994.8	993.0
55°	1029.8	1032.5	1046.0	1058.7	1074.6	1086.3	1093.5	1092.7	1090.9	1089.1	1086.1
57.5°	1114.3	1117.1	1132.6	1148.3	1166.3	1183.0	1197.5	1212.4	1218.2	1219.7	1213.2
60°	1228.7	1228.5	1249.1	1268.2	1294.0	1318.8	1350.6	1382.9	1420.1	1437.3	1414.5
62.5°	1345.0	1349.8	1379.6	1413.3	1466.5	1518.3	1576.9	1634.5	1693.2	1741.1	1690.3
65°	1331.1	1349.4	1393.7	1470.1	1568.4	1685.1	1811.4	1945.0	2065.7	2148.7	2055.5
67.5°	1153.6	1179.6	1224.7	1317.6	1440.5	1608.9	1820.9	2085.1	2392.2	2540.7	2356.7
70°	836.2	865.6	912.8	1003.6	1125.2	1285.3	1515.6	1832.8	2239.4	2389.1	2186.4
72.5°	416.1	432.0	461.2	518.9	611.1	740.9	949.8	1254.7	1614.4	1751.8	1566.6
75°	141.4	148.7	153.7	172.5	201.7	252.7	356.6	548.5	836.8	1003.2	824.9
77.5°	81.6	81.8	85.2	88.5	93.5	99.1	113.0	148.3	256.5	364.3	265.4
80°	52.8	52.6	55.4	58.0	61.3	64.1	64.9	68.7	79.2	93.9	84.0
82.5°	27.4	30.8	36.9	40.3	46.7	47.8	46.3	44.9	47.4	49.2	50.4
85°	15.1	13.1	19.7	25.4	28.2	28.6	28.6	27.0	28.0	27.4	29.8
87.5°	6.9	6.4	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: P193339

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-8030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	430.2	430.2	430.2	430.2	430.2	430.2	430.2	430.2
2.5°	428.2	428.4	428.4	429.0	429.2	429.6	430.0	430.2
5°	424.8	425.4	425.0	425.6	425.6	426.0	426.0	426.2
7.5°	419.9	420.5	420.5	420.5	420.3	420.9	420.9	420.9
10°	414.7	415.1	414.9	414.5	414.1	414.7	414.5	414.3
12.5°	413.1	412.1	411.3	411.0	410.2	410.4	409.8	409.8
15°	414.1	412.3	411.0	410.4	409.6	409.2	408.8	409.0
17.5°	416.7	414.5	412.7	411.7	410.8	410.2	409.4	409.6
20°	421.3	418.7	416.1	414.1	412.3	411.3	410.8	410.6
22.5°	428.0	424.3	420.5	417.5	415.1	413.7	413.1	412.7
25°	435.8	431.6	427.2	423.9	421.5	419.7	418.5	418.5
27.5°	445.5	442.1	438.1	434.2	432.0	430.2	429.4	429.0
30°	461.8	458.6	455.4	451.6	448.9	447.1	445.7	444.5
32.5°	482.6	480.0	477.5	474.7	472.1	469.7	467.5	466.5
35°	512.0	510.0	508.2	505.1	504.1	502.7	501.5	500.5
37.5°	552.5	551.7	551.7	548.3	547.5	546.9	545.7	545.9
40°	605.7	606.5	605.5	604.3	603.7	602.1	602.1	603.5
42.5°	668.6	669.2	671.4	669.4	671.6	669.6	668.4	669.4
45°	741.7	743.9	748.2	746.3	747.7	744.3	740.1	740.3
47.5°	823.7	825.7	827.5	826.1	826.3	820.7	815.2	813.8
50°	908.9	909.6	910.6	908.7	909.1	902.9	896.5	896.7
52.5°	993.0	996.8	1000.8	995.4	994.2	987.3	978.3	974.8
55°	1089.3	1094.7	1090.1	1080.8	1071.4	1062.1	1050.4	1048.4
57.5°	1208.0	1198.9	1184.6	1166.9	1154.0	1140.9	1129.0	1124.1
60°	1373.2	1338.9	1313.1	1286.8	1270.4	1254.3	1238.6	1236.2
62.5°	1606.7	1547.3	1495.9	1441.7	1397.4	1362.9	1335.3	1327.5
65°	1899.3	1758.9	1637.2	1523.7	1425.0	1350.6	1303.7	1283.1
67.5°	2025.2	1748.0	1539.4	1378.2	1249.1	1159.0	1108.4	1083.2
70°	1779.6	1449.6	1222.7	1061.3	943.8	847.7	801.8	774.8
72.5°	1224.3	922.2	729.2	595.2	501.3	420.9	389.1	386.7
75°	549.7	364.1	250.9	193.4	162.8	141.5	135.0	130.0
77.5°	153.9	113.8	101.4	94.9	88.5	81.2	78.4	79.0
80°	74.8	70.7	67.9	63.7	58.0	51.8	49.0	50.2
82.5°	49.6	49.0	50.8	47.8	39.5	33.6	28.2	25.8
85°	30.2	30.6	31.2	31.4	26.6	18.7	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)