

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: P193389

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5246 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

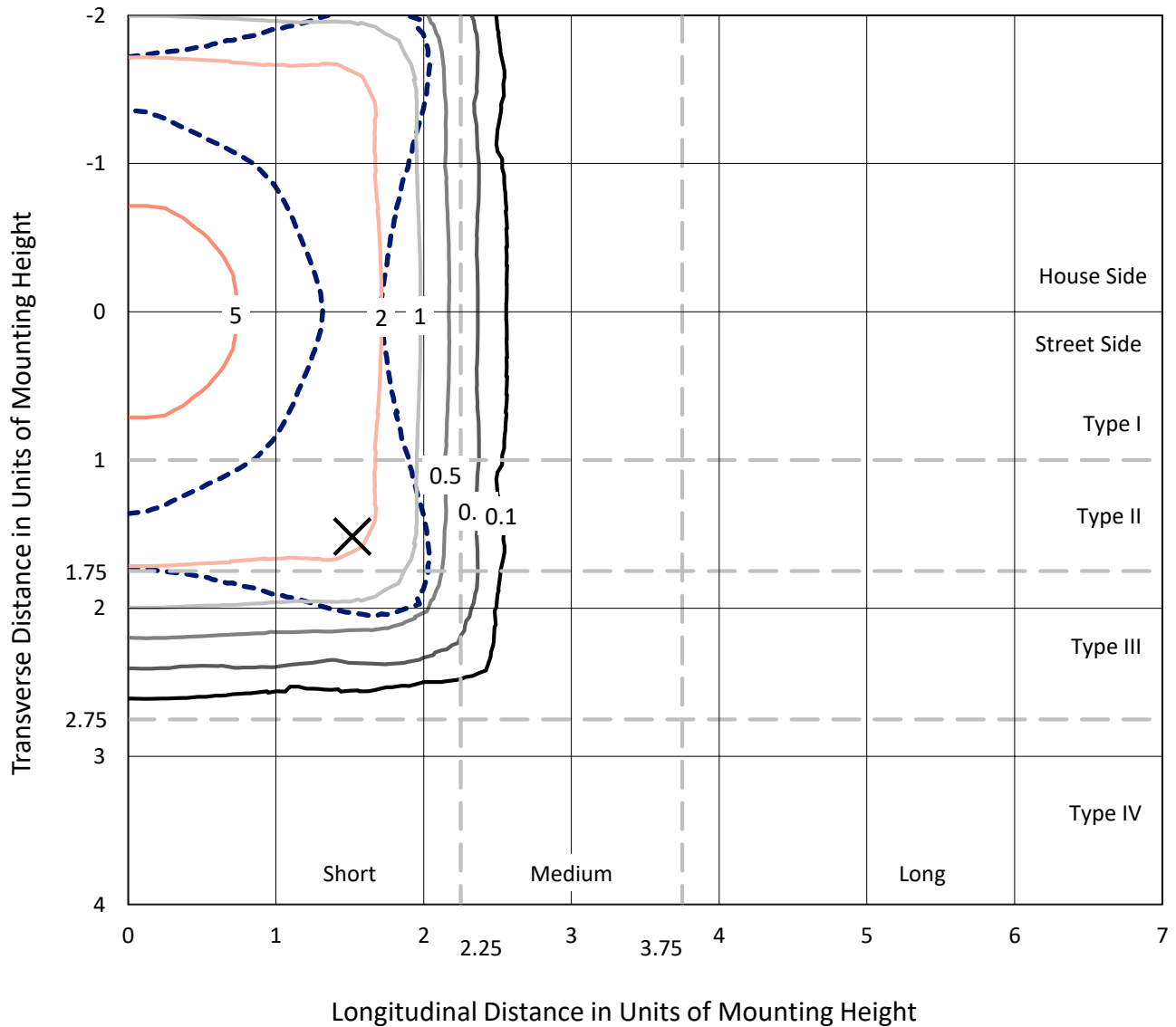
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193389
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

Iso-Footcandle Lines of Horizontal Illumination

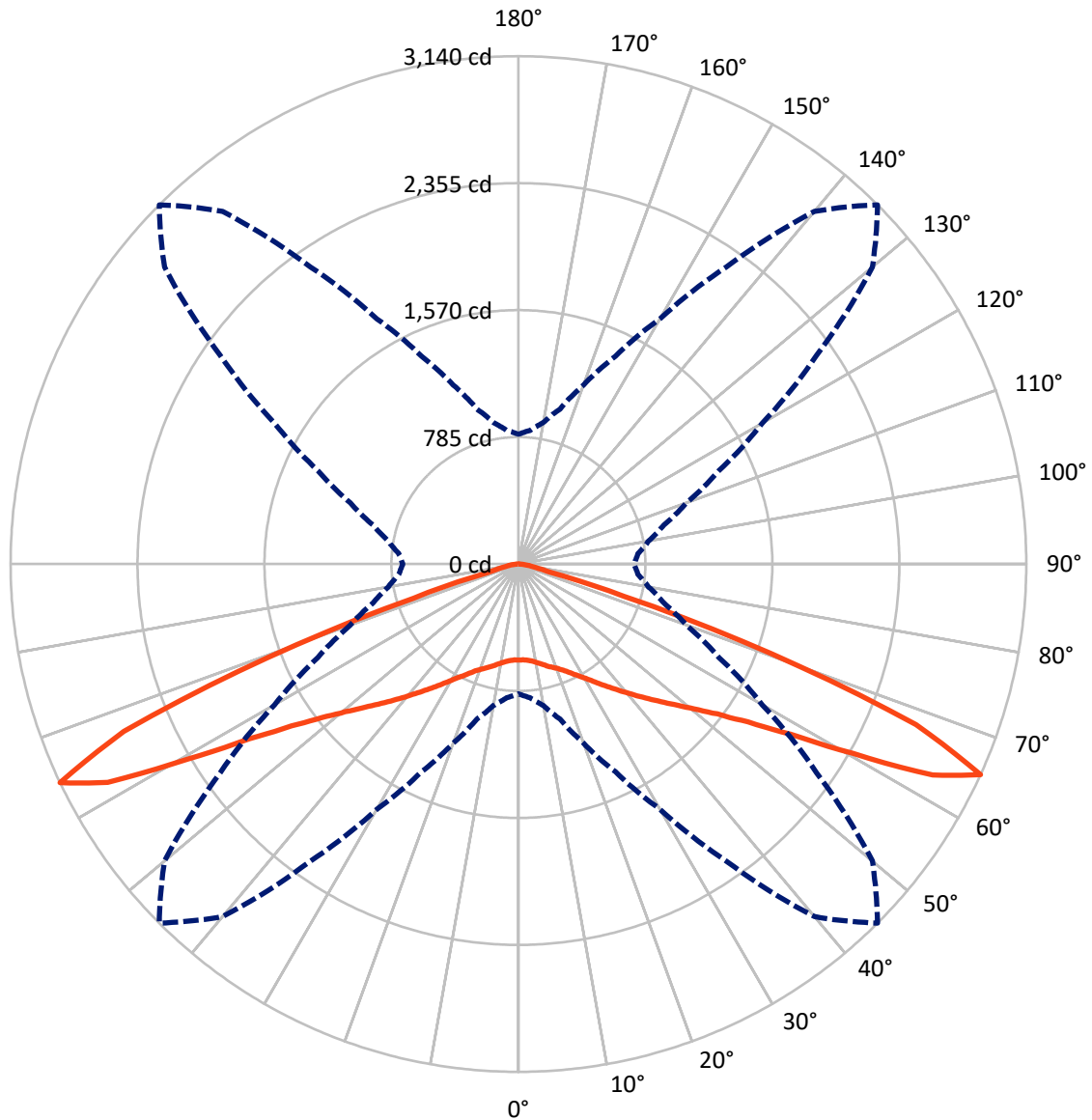
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P193389
CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P193389

CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2623.0	0.0	2623.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2623.0	0.0	2623.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5246.0	0.0	5246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	185.6	3.5
20°-30°	346.9	6.6
30°-40°	586.8	11.2
40°-50°	959.5	18.3
50°-60°	1525.7	29.1
60°-70°	1379.1	26.3
70°-80°	174.5	3.3
80°-90°	30.0	0.6
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°	5246.0	100.0
0°-180°	5246.0	100.0



REPORT NUMBER: P193389

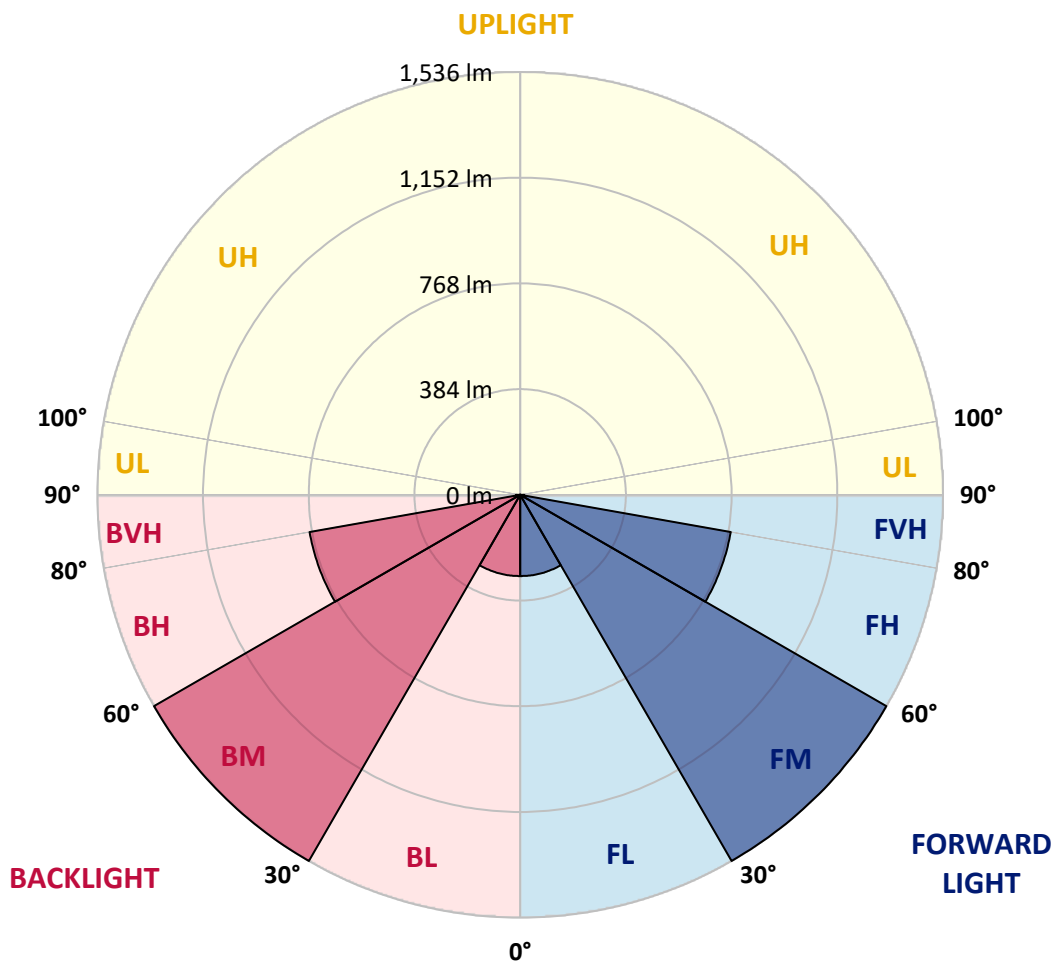
CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.2	5.6			
FM (30°-60°)	1536.0	29.3			
FH (60°-80°)	776.8	14.8			G1/1800
FVH (80°-90°)	15.0	0.3			G1/100
BL (0°-30°)	295.2	5.6	B1/500		
BM (30°-60°)	1536.0	29.3	B2/2500		
BH (60°-80°)	776.8	14.8	B2/1000		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: B2-U0-G1

Type V Short





REPORT NUMBER: P193389
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6
2.5°	594.1	594.6	595.1	594.6	595.1	594.3	593.8	594.6	593.8	593.1	593.6
5°	599.2	599.5	599.5	598.7	599.5	599.0	598.3	599.2	598.5	597.8	598.3
7.5°	607.8	608.8	608.1	607.3	607.8	607.3	606.9	607.1	606.9	606.1	606.4
10°	619.4	620.1	619.6	619.4	619.9	619.6	619.1	618.9	619.1	618.4	618.4
12.5°	633.4	633.1	632.9	633.1	633.9	633.9	633.6	633.9	634.4	634.6	634.1
15°	647.1	647.6	647.6	647.6	649.1	650.3	651.1	651.6	652.6	652.8	651.8
17.5°	664.3	664.3	664.1	664.3	665.8	667.8	668.5	669.5	670.5	671.2	670.0
20°	683.5	684.0	684.0	684.5	686.5	688.7	688.7	689.2	688.7	689.2	688.4
22.5°	706.9	708.3	708.3	708.6	710.5	713.2	712.5	713.2	712.0	713.0	712.0
25°	737.3	739.5	739.0	739.0	740.5	742.2	742.5	744.0	743.7	744.9	744.2
27.5°	771.7	775.2	776.1	775.9	776.9	778.6	779.1	780.8	779.8	780.8	780.3
30°	813.0	814.5	816.4	817.2	818.4	820.1	820.1	820.4	819.1	820.6	821.3
32.5°	855.7	858.4	860.4	864.8	867.0	868.3	868.0	868.5	867.3	869.3	870.7
35°	912.2	914.2	917.4	920.8	923.8	923.5	922.8	923.1	923.1	924.8	926.3
37.5°	980.3	980.8	985.0	989.9	991.4	989.9	985.5	984.5	982.3	984.5	986.9
40°	1052.3	1054.0	1062.4	1065.6	1066.3	1063.6	1057.2	1053.5	1048.6	1051.3	1054.7
42.5°	1127.7	1131.2	1138.8	1144.4	1146.9	1145.2	1136.3	1130.7	1124.3	1125.8	1129.2
45°	1211.3	1215.4	1226.2	1231.6	1236.3	1233.6	1225.0	1216.4	1206.3	1207.1	1212.5
47.5°	1304.6	1308.8	1322.8	1331.9	1334.3	1333.9	1324.3	1312.5	1298.7	1298.2	1302.9
50°	1409.3	1413.5	1430.9	1444.9	1452.0	1451.3	1440.0	1423.3	1406.6	1406.8	1412.7
52.5°	1511.5	1516.6	1534.8	1558.9	1572.9	1583.0	1576.1	1560.4	1540.0	1540.5	1545.9
55°	1607.3	1615.9	1636.8	1669.5	1695.5	1723.8	1731.9	1731.4	1719.1	1722.5	1727.9
57.5°	1653.7	1666.5	1698.7	1750.3	1803.4	1860.9	1909.5	1945.9	1961.3	1984.7	1979.3
60°	1565.8	1586.2	1633.6	1709.5	1814.4	1934.3	2062.8	2188.4	2295.5	2376.3	2329.9
62.5°	1282.0	1308.5	1366.0	1463.3	1622.0	1813.9	2059.9	2356.7	2680.0	2875.1	2735.8
65°	802.2	829.7	888.2	992.3	1178.1	1416.7	1750.3	2242.2	2846.3	3140.4	2856.9
67.5°	312.8	327.8	359.4	426.0	565.6	777.9	1112.7	1670.9	2393.5	2651.2	2349.0
70°	156.8	158.2	164.1	176.4	206.4	268.0	407.8	774.7	1372.7	1657.9	1323.3
72.5°	113.3	113.5	116.5	121.9	131.4	145.2	171.7	237.1	446.4	682.3	418.4
75°	86.7	87.7	89.4	92.4	97.5	104.4	114.0	136.6	169.3	196.3	165.1
77.5°	66.8	68.8	70.0	72.7	75.9	80.6	83.3	91.9	106.9	112.5	110.8
80°	50.9	52.6	55.3	57.5	59.7	61.9	60.9	64.9	72.7	77.4	74.9
82.5°	32.4	34.4	42.3	44.2	45.2	46.7	45.0	45.2	48.6	51.6	48.6
85°	20.9	22.1	26.8	29.2	29.5	30.5	29.7	28.0	28.0	25.6	28.7
87.5°	9.6	9.8	12.0	14.3	14.7	13.3	13.0	12.5	10.1	9.6	10.3
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: P193389

CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	593.6	593.6	593.6	593.6	593.6	593.6	593.6	593.6
2.5°	593.3	593.8	594.1	594.8	595.1	595.1	595.3	595.8
5°	598.0	598.7	599.0	600.0	600.2	600.0	600.5	600.7
7.5°	606.4	607.6	608.1	609.1	608.3	609.3	609.6	609.6
10°	618.6	619.9	620.1	621.1	620.6	621.1	621.1	620.6
12.5°	634.9	635.1	634.4	635.1	634.1	634.6	633.9	633.4
15°	652.8	652.1	650.3	650.3	648.9	649.1	648.9	648.6
17.5°	670.2	668.8	667.5	667.0	665.8	665.6	664.8	664.8
20°	689.4	688.7	687.9	687.0	685.7	684.5	684.2	684.7
22.5°	712.5	712.3	712.3	711.8	710.0	708.8	708.1	708.1
25°	743.5	741.2	741.2	741.0	740.3	739.5	738.1	738.8
27.5°	778.3	777.1	778.1	777.9	777.1	777.1	776.1	776.1
30°	821.3	820.9	822.3	821.1	818.6	818.4	817.4	816.2
32.5°	871.0	870.5	872.7	871.2	867.3	865.1	863.1	862.1
35°	926.3	926.5	929.2	928.2	923.8	922.3	918.9	918.4
37.5°	986.7	990.6	995.3	996.3	992.6	991.6	987.9	986.0
40°	1057.7	1062.9	1070.0	1071.7	1067.8	1067.0	1061.9	1059.2
42.5°	1133.4	1142.2	1151.1	1152.5	1148.6	1144.7	1139.8	1137.8
45°	1217.9	1228.5	1240.0	1242.9	1237.1	1232.4	1226.0	1226.0
47.5°	1312.7	1326.0	1339.0	1347.1	1341.7	1336.8	1329.2	1324.3
50°	1424.8	1442.9	1459.9	1468.2	1459.6	1450.3	1437.0	1432.6
52.5°	1565.3	1584.9	1599.7	1595.3	1582.0	1569.0	1554.5	1548.6
55°	1744.6	1751.3	1751.3	1734.6	1708.0	1686.2	1663.3	1655.7
57.5°	1969.0	1943.4	1904.1	1854.2	1791.6	1737.0	1700.2	1682.7
60°	2232.6	2109.7	1970.9	1834.6	1722.5	1630.2	1575.4	1550.3
62.5°	2408.3	2086.9	1808.8	1589.9	1428.7	1317.4	1241.7	1212.2
65°	2250.8	1740.5	1368.0	1106.1	930.4	817.2	742.2	714.7
67.5°	1648.6	1090.6	728.5	522.1	382.5	305.1	274.4	261.7
70°	740.0	384.0	235.4	183.8	158.5	145.4	139.8	137.8
72.5°	223.1	161.4	136.1	122.8	112.8	106.4	101.7	101.2
75°	134.6	112.0	99.5	91.6	85.3	80.1	77.6	76.9
77.5°	94.1	82.3	76.4	70.8	65.8	61.9	59.7	58.0
80°	66.1	60.4	57.7	54.5	51.3	47.7	44.5	43.0
82.5°	44.2	43.0	43.0	41.0	38.3	34.9	28.5	27.0
85°	28.5	28.3	28.7	28.0	26.0	22.4	18.4	17.4
87.5°	13.3	13.5	15.0	14.7	14.3	11.8	9.3	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)