

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: P300598

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-RW-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5129.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

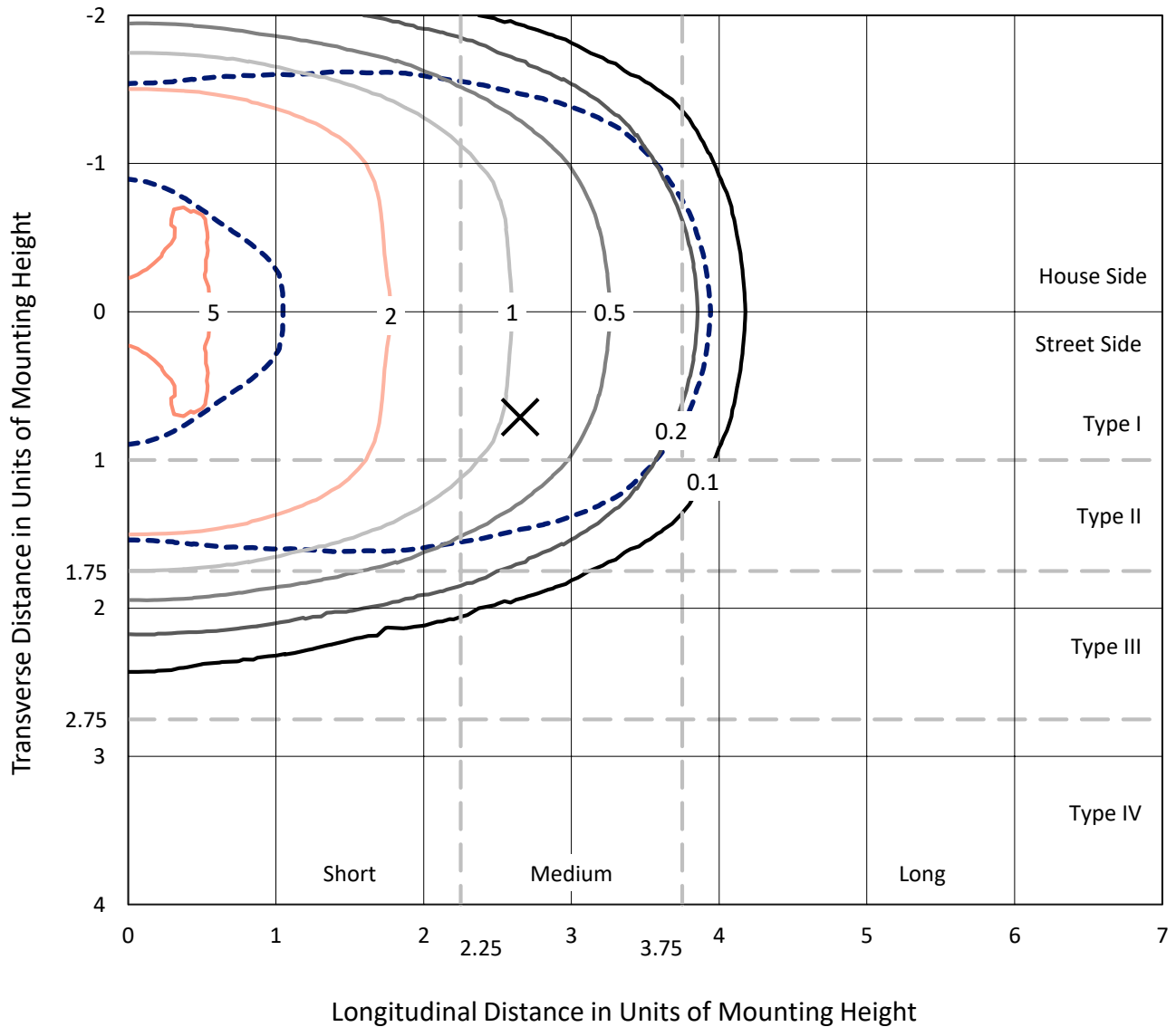
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

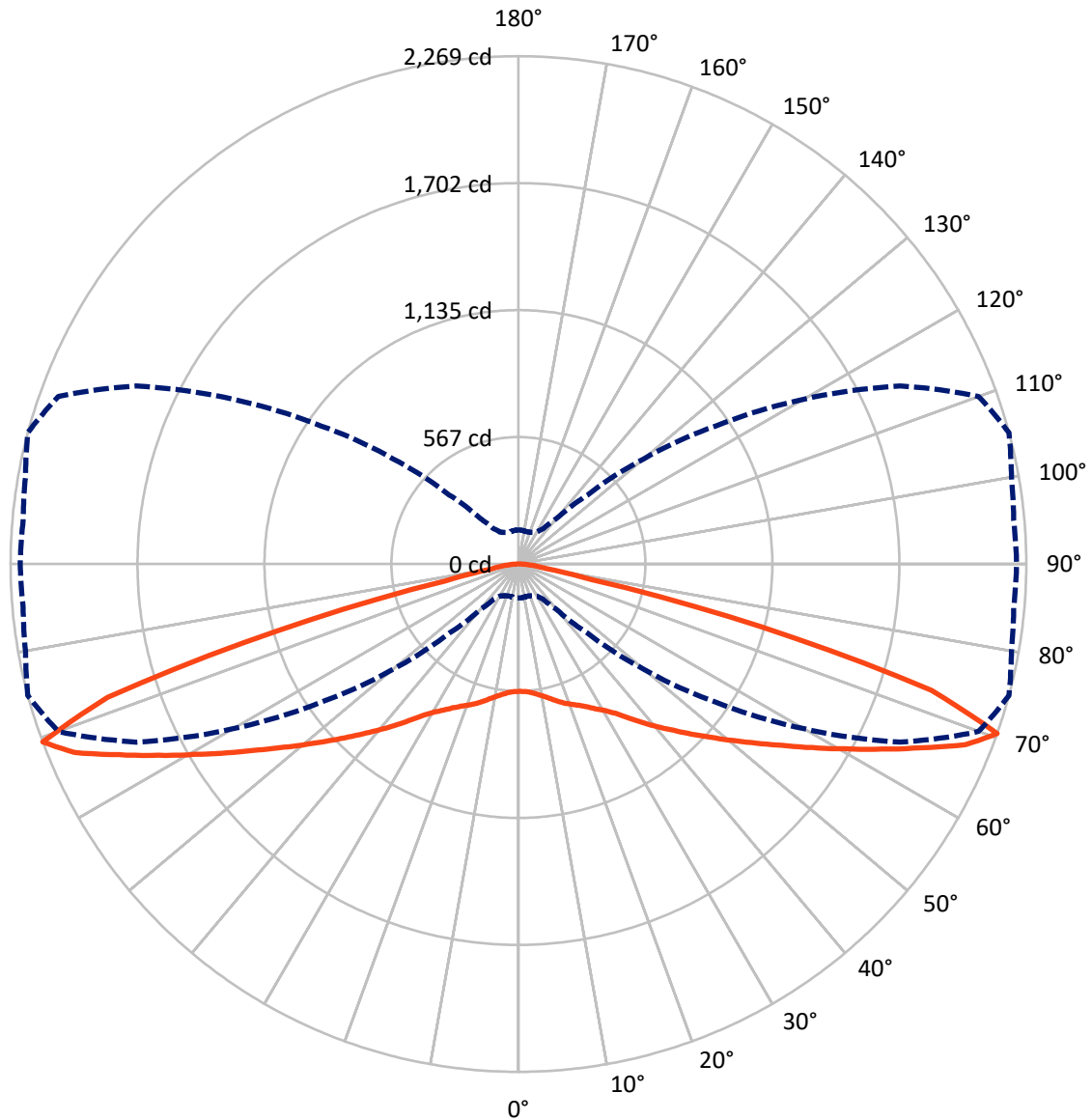
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2564.6	0.0	2564.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2564.6	0.0	2564.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5129.2	0.0	5129.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.1
10°-20°	169.5	3.3
20°-30°	319.1	6.2
30°-40°	565.1	11.0
40°-50°	945.0	18.4
50°-60°	1316.9	25.7
60°-70°	1221.2	23.8
70°-80°	486.7	9.5
80°-90°	51.2	1.0
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°	5129.2	100.0
0°-180°	5129.2	100.0



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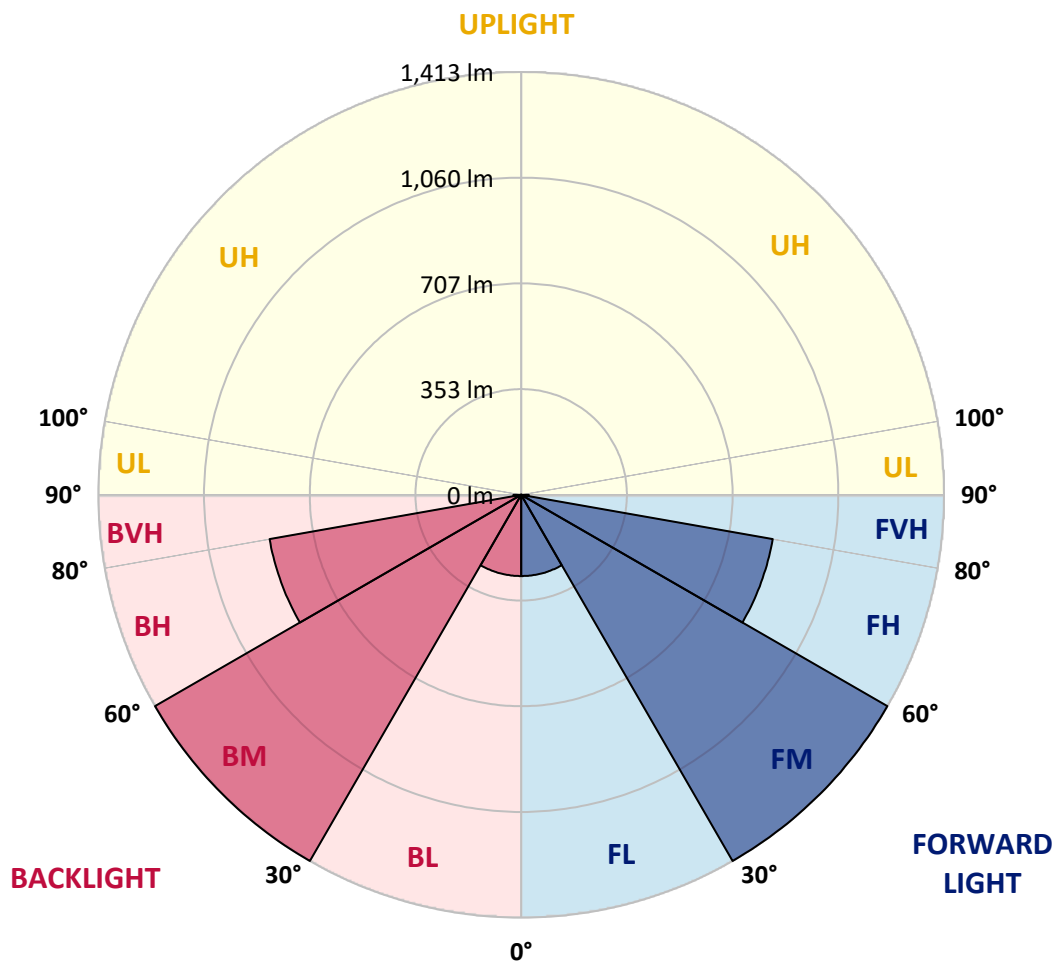
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.6	5.3			
FM	(30°-60°)	1413.5	27.6			
FH	(60°-80°)	853.9	16.6			G1/1800
FVH	(80°-90°)	25.6	0.5			G1/100
BL	(0°-30°)	271.6	5.3	B1/500		
BM	(30°-60°)	1413.5	27.6	B2/2500		
BH	(60°-80°)	853.9	16.6	B2/1000		G2/1000
BVH	(80°-90°)	25.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9
2.5°	568.0	567.5	568.0	567.7	568.2	568.2	568.7	569.7	569.7	570.4	570.2
5°	562.4	562.2	562.9	563.6	564.3	565.8	567.3	569.4	571.1	572.3	573.6
7.5°	551.5	551.5	552.5	554.2	555.9	559.0	562.4	566.8	571.1	574.8	577.9
10°	542.5	543.0	544.2	547.1	550.0	554.9	559.5	565.8	571.9	577.9	582.8
12.5°	537.2	537.9	540.1	544.5	549.3	555.9	562.9	570.9	577.7	584.9	589.8
15°	538.9	539.4	542.5	547.9	554.2	562.4	571.9	581.3	589.3	597.1	603.6
17.5°	548.3	549.1	552.7	558.8	565.3	575.0	585.2	595.9	605.8	614.5	622.5
20°	565.3	566.0	570.6	577.2	584.9	594.9	605.1	616.2	627.4	636.6	645.6
22.5°	589.3	590.5	594.9	601.4	610.2	620.8	632.9	644.8	655.5	664.0	672.0
25°	620.8	623.5	627.6	634.9	644.1	653.8	666.9	679.0	689.2	697.2	703.0
27.5°	665.4	669.1	672.2	679.2	688.2	697.4	710.5	721.2	730.9	738.6	743.0
30°	724.6	728.2	731.4	738.2	746.4	755.1	767.5	776.9	783.0	789.1	788.8
32.5°	796.3	800.2	801.4	808.7	817.2	826.6	837.8	843.1	848.0	848.7	844.3
35°	876.6	878.5	883.4	893.1	902.8	910.5	921.2	923.8	923.8	920.2	910.5
37.5°	964.6	965.8	972.6	983.5	993.4	1001.4	1008.7	1014.0	1011.4	1003.6	987.4
40°	1061.1	1063.2	1072.9	1082.6	1093.8	1101.3	1109.1	1110.0	1107.4	1096.0	1073.9
42.5°	1153.2	1155.1	1164.8	1180.1	1194.6	1205.0	1212.3	1213.8	1205.3	1194.9	1167.5
45°	1232.4	1237.5	1250.1	1268.1	1289.2	1304.0	1313.9	1318.0	1310.5	1296.9	1265.2
47.5°	1295.2	1300.3	1318.3	1339.6	1365.8	1389.8	1406.3	1415.0	1413.0	1402.9	1368.2
50°	1341.3	1346.1	1365.5	1391.7	1422.3	1452.1	1480.2	1501.0	1508.3	1503.7	1471.9
52.5°	1346.6	1354.6	1377.4	1412.6	1452.3	1493.0	1533.0	1568.4	1592.4	1596.1	1572.5
55°	1272.2	1280.2	1311.7	1363.8	1423.0	1489.4	1553.4	1613.0	1660.3	1684.5	1672.2
57.5°	1096.7	1111.0	1144.2	1205.3	1292.3	1391.7	1493.8	1599.7	1695.9	1760.2	1772.5
60°	840.5	857.4	890.9	955.8	1052.8	1171.4	1307.6	1464.2	1634.1	1778.6	1864.9
62.5°	539.1	555.1	590.3	646.8	725.8	854.3	1000.4	1186.4	1414.7	1642.8	1848.4
65°	277.1	285.8	304.2	338.4	400.0	496.0	627.1	812.6	1073.7	1355.1	1652.3
67.5°	175.5	177.2	181.3	186.2	201.9	235.1	296.2	411.9	626.6	920.2	1268.1
70°	151.8	151.8	149.8	149.1	151.0	155.6	165.1	192.0	264.5	436.8	731.4
72.5°	138.9	137.4	134.1	131.4	130.9	130.9	132.8	137.0	148.6	177.9	286.3
75°	128.0	123.9	119.3	116.1	114.9	113.7	113.5	114.2	116.6	121.2	136.7
77.5°	114.7	109.3	104.0	100.8	99.4	97.7	96.2	94.5	93.3	94.8	101.6
80°	98.7	92.6	88.5	86.5	85.1	82.7	79.5	76.6	73.9	73.5	77.6
82.5°	79.5	72.5	72.7	73.5	70.8	67.4	64.0	60.8	56.2	53.8	56.2
85°	64.2	60.6	58.9	63.5	59.6	54.5	49.2	43.6	36.4	30.5	33.2
87.5°	25.0	25.0	37.3	57.5	51.6	42.2	36.1	30.8	19.2	14.8	15.0
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°	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9
2.5°	569.9	570.4	570.2	569.9	569.9	569.7	569.9	569.9
5°	574.3	575.5	575.5	576.0	576.0	576.2	576.5	576.2
7.5°	580.8	583.0	584.5	586.2	586.4	586.6	587.1	586.6
10°	587.4	591.7	594.9	598.0	599.5	600.0	600.5	600.5
12.5°	595.6	601.7	607.3	612.8	615.5	616.9	616.9	617.9
15°	609.2	615.3	621.8	629.3	633.9	636.3	637.1	637.1
17.5°	628.3	633.7	639.2	646.5	652.3	655.5	656.2	656.0
20°	650.6	655.7	658.9	663.5	668.6	672.2	673.2	673.2
22.5°	676.1	679.0	679.5	680.9	685.1	689.9	692.1	692.6
25°	704.2	704.9	703.0	703.0	705.7	710.3	712.5	712.7
27.5°	740.6	736.9	732.1	730.4	732.1	737.4	740.1	741.1
30°	785.9	777.2	766.0	760.0	759.0	766.0	770.9	771.6
32.5°	837.8	825.2	810.4	798.0	794.9	799.2	805.1	804.8
35°	899.4	884.3	866.4	850.6	843.4	847.7	856.0	856.9
37.5°	970.4	950.8	930.1	910.3	898.9	900.1	908.8	911.7
40°	1049.7	1024.2	998.3	971.6	955.4	952.2	962.9	964.6
42.5°	1134.5	1101.8	1069.1	1036.1	1015.2	1010.4	1022.8	1022.0
45°	1224.9	1183.2	1144.9	1108.6	1083.8	1076.6	1086.7	1086.7
47.5°	1322.1	1270.7	1225.2	1184.0	1157.0	1146.6	1156.3	1157.0
50°	1425.2	1370.6	1317.0	1271.2	1239.0	1225.7	1238.3	1240.2
52.5°	1527.7	1474.6	1420.6	1368.2	1329.2	1312.9	1327.5	1333.8
55°	1631.7	1579.6	1527.9	1476.8	1430.5	1411.3	1426.9	1434.9
57.5°	1741.5	1693.3	1644.1	1592.4	1547.8	1518.0	1534.5	1545.2
60°	1870.2	1829.0	1777.9	1720.9	1675.8	1645.5	1655.0	1664.4
62.5°	1972.0	1988.0	1944.7	1878.7	1820.8	1782.0	1791.2	1801.1
65°	1922.8	2087.0	2125.5	2058.8	1978.6	1918.2	1914.4	1919.4
67.5°	1607.2	1926.0	2158.5	2222.0	2154.8	2071.0	2055.4	2063.0
70°	1075.1	1472.2	1882.4	2187.8	2269.0	2236.5	2221.3	2225.9
72.5°	516.3	857.4	1277.0	1683.1	1930.4	2043.8	2080.2	2097.9
75°	188.8	340.4	615.5	927.5	1119.7	1296.2	1411.3	1458.4
77.5°	113.9	137.4	196.6	296.0	335.3	375.3	359.7	367.5
80°	84.4	95.3	107.9	121.2	125.6	125.6	120.7	116.8
82.5°	59.1	66.2	72.2	79.5	81.5	77.8	64.0	50.9
85°	38.1	41.2	43.9	48.5	47.3	45.1	30.3	26.9
87.5°	17.5	19.9	20.8	23.0	22.1	21.1	15.0	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)