

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: P193549

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193549
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: GLEON-AF-01-LED-E1-RW-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5199 lumens
Efficiency: N/A
Efficacy: 88.1 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

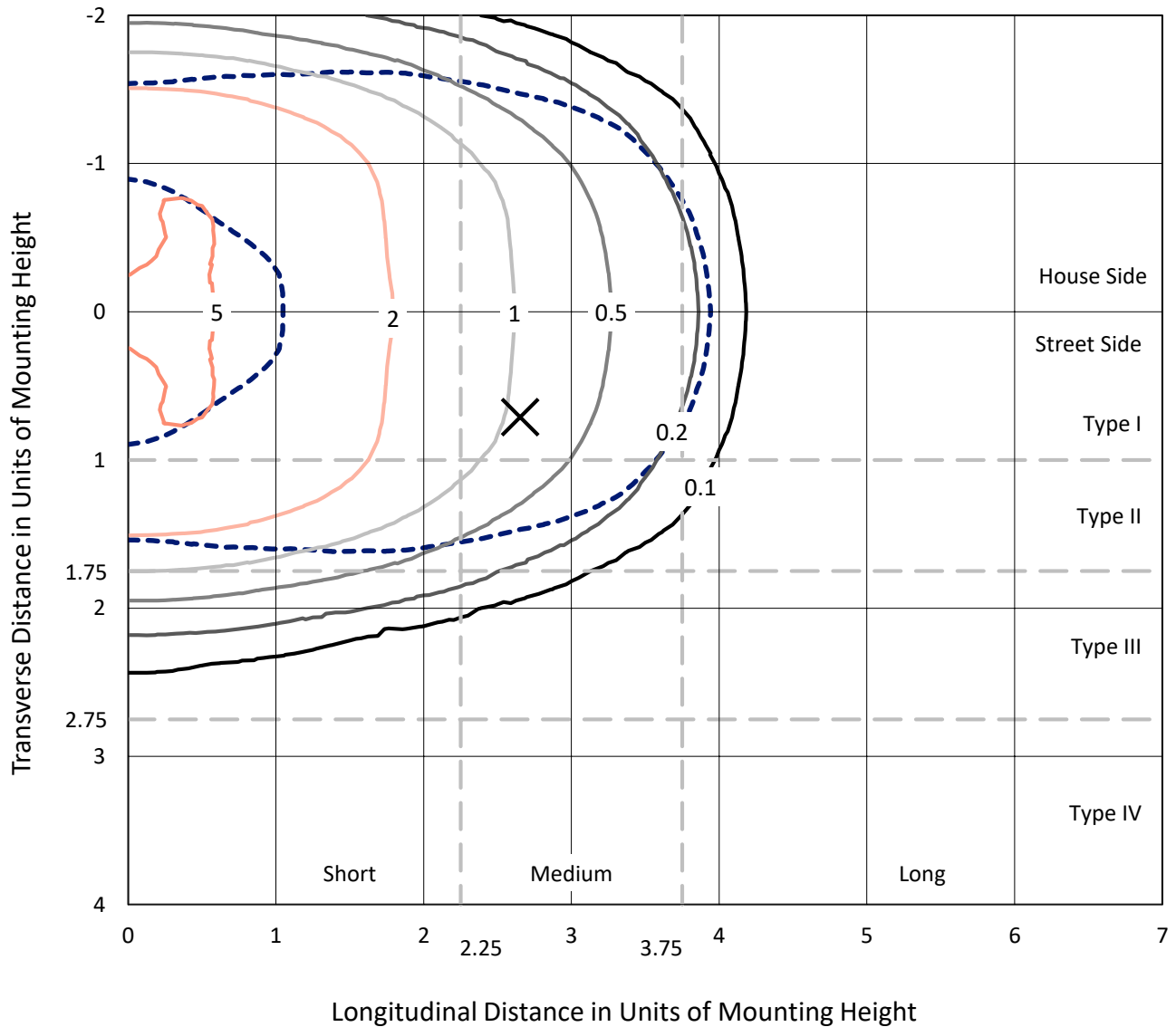
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

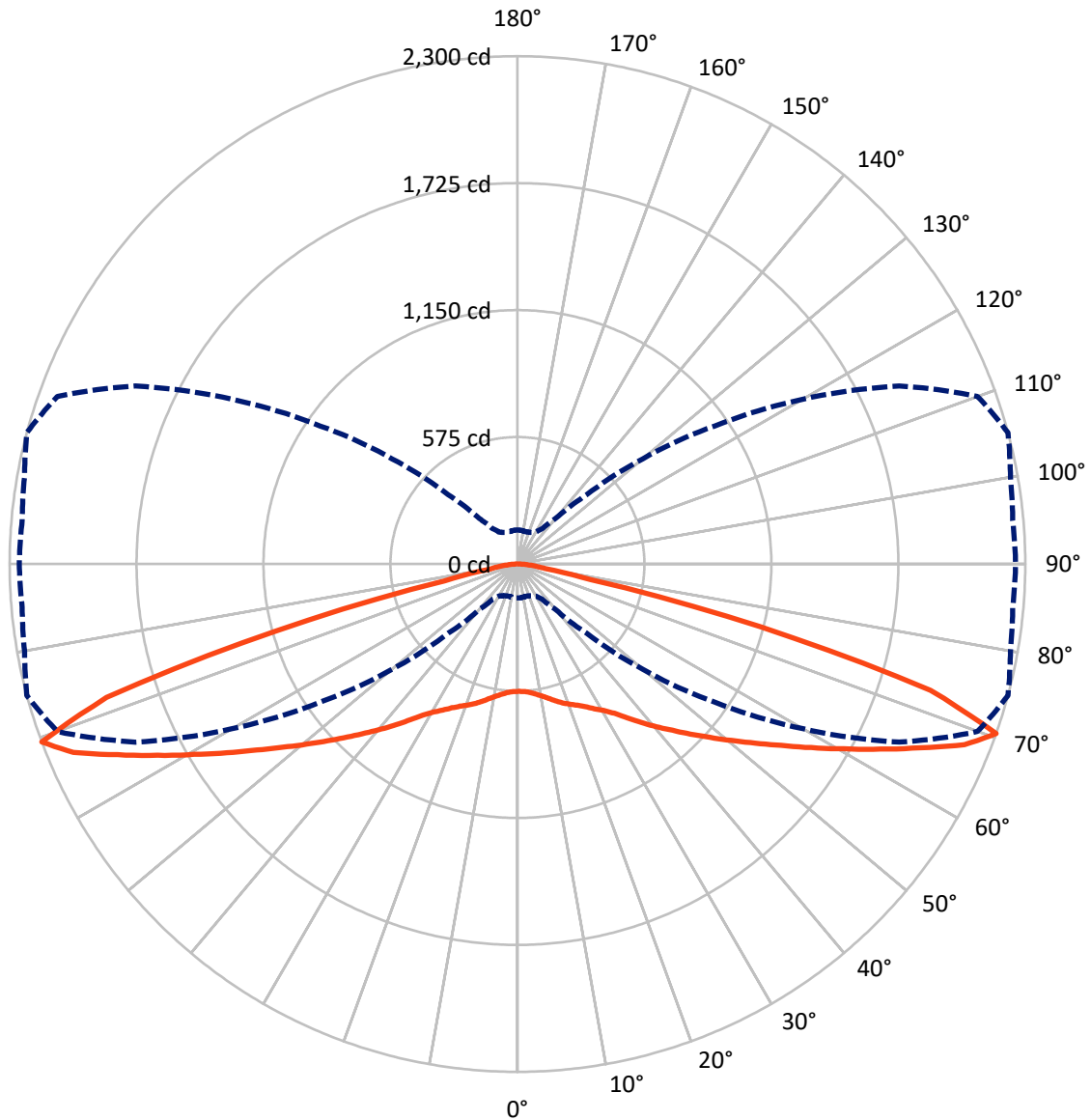
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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	2599.5	0.0	2599.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2599.5	0.0	2599.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5199.0	0.0	5199.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.1
10°-20°	171.9	3.3
20°-30°	323.5	6.2
30°-40°	572.8	11.0
40°-50°	957.9	18.4
50°-60°	1334.8	25.7
60°-70°	1237.8	23.8
70°-80°	493.3	9.5
80°-90°	51.9	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°	5199.0	100.0
0°-180°	5199.0	100.0



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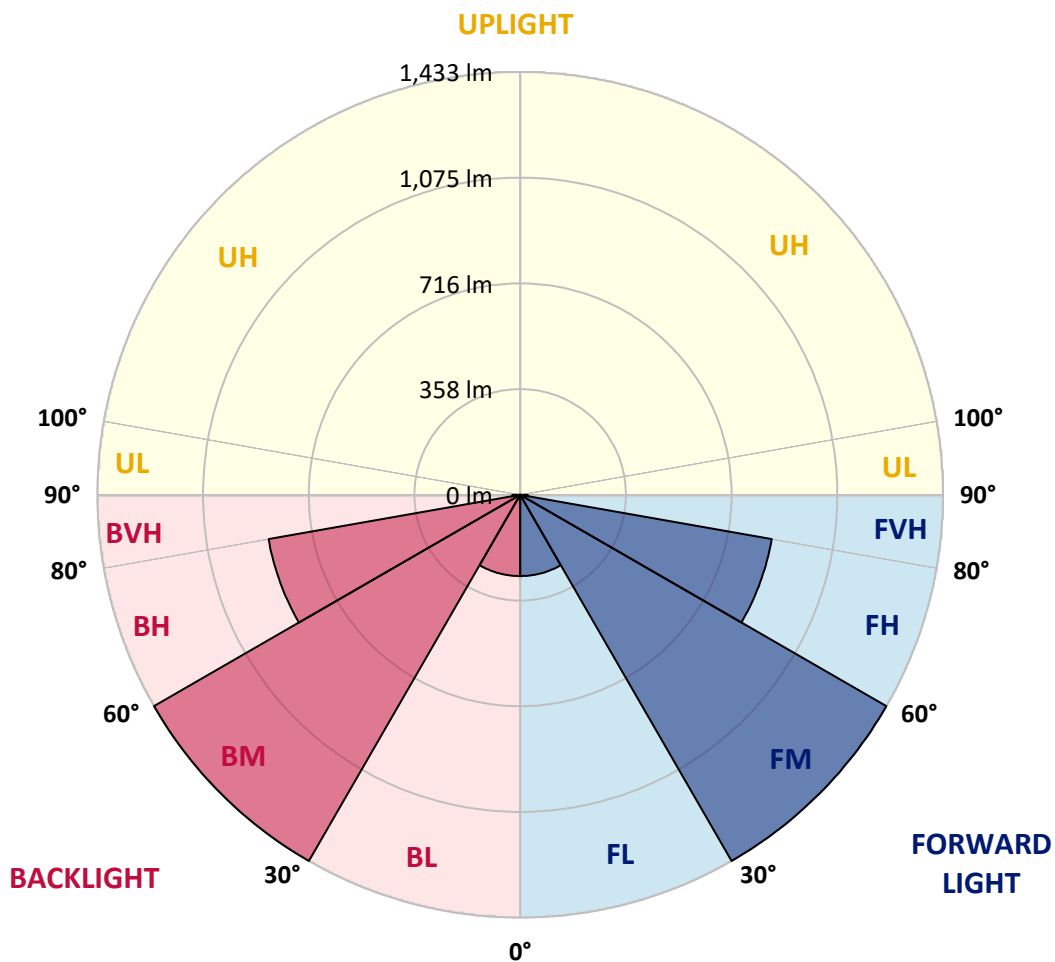
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.3	5.3			
FM	(30°-60°)	1432.7	27.6			
FH	(60°-80°)	865.6	16.6			G1/1800
FVH	(80°-90°)	25.9	0.5			G1/100
BL	(0°-30°)	275.3	5.3	B1/500		
BM	(30°-60°)	1432.7	27.6	B2/2500		
BH	(60°-80°)	865.6	16.6	B2/1000		G2/1000
BVH	(80°-90°)	25.9	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°	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7
2.5°	575.7	575.2	575.7	575.5	576.0	576.0	576.4	577.4	577.4	578.2	577.9
5°	570.1	569.8	570.5	571.3	572.0	573.5	575.0	577.2	578.9	580.1	581.4
7.5°	559.0	559.0	560.0	561.7	563.4	566.6	570.1	574.5	578.9	582.6	585.8
10°	549.9	550.4	551.6	554.6	557.5	562.4	567.1	573.5	579.6	585.8	590.7
12.5°	544.5	545.2	547.5	551.9	556.8	563.4	570.5	578.7	585.5	592.9	597.8
15°	546.2	546.7	549.9	555.3	561.7	570.1	579.6	589.2	597.3	605.2	611.8
17.5°	555.8	556.5	560.2	566.4	573.0	582.8	593.2	604.0	614.0	622.9	631.0
20°	573.0	573.7	578.4	585.0	592.9	603.0	613.3	624.6	635.9	645.2	654.3
22.5°	597.3	598.6	603.0	609.6	618.5	629.3	641.6	653.6	664.4	673.0	681.1
25°	629.3	632.0	636.2	643.5	652.9	662.7	676.0	688.2	698.6	706.7	712.6
27.5°	674.5	678.2	681.4	688.5	697.6	706.9	720.2	731.0	740.8	748.7	753.1
30°	734.4	738.1	741.3	748.2	756.6	765.4	777.9	787.5	793.7	799.8	799.6
32.5°	807.2	811.1	812.3	819.7	828.3	837.9	849.2	854.6	859.5	860.2	855.8
35°	888.5	890.5	895.4	905.2	915.0	922.9	933.7	936.4	936.4	932.7	922.9
37.5°	977.7	978.9	985.8	996.9	1006.9	1015.0	1022.4	1027.8	1025.1	1017.3	1000.8
40°	1075.5	1077.7	1087.5	1097.4	1108.7	1116.3	1124.1	1125.1	1122.4	1110.9	1088.5
42.5°	1168.9	1170.8	1180.7	1196.1	1210.9	1221.4	1228.8	1230.3	1221.7	1211.1	1183.4
45°	1249.2	1254.4	1267.1	1285.3	1306.7	1321.7	1331.8	1335.9	1328.3	1314.6	1282.4
47.5°	1312.8	1318.0	1336.2	1357.8	1384.4	1408.7	1425.4	1434.2	1432.3	1421.9	1386.8
50°	1359.5	1364.4	1384.1	1410.6	1441.6	1471.8	1500.3	1521.5	1528.8	1524.2	1492.0
52.5°	1364.9	1373.0	1396.1	1431.8	1472.1	1513.4	1553.9	1589.8	1614.1	1617.8	1593.9
55°	1289.5	1297.6	1329.6	1382.4	1442.3	1509.7	1574.5	1635.0	1682.9	1707.5	1694.9
57.5°	1111.6	1126.1	1159.8	1221.7	1309.9	1410.6	1514.1	1621.5	1719.0	1784.1	1796.7
60°	851.9	869.1	903.0	968.8	1067.1	1187.3	1325.4	1484.1	1656.4	1802.8	1890.3
62.5°	546.5	562.7	598.3	655.6	735.7	865.9	1014.1	1202.5	1434.0	1665.2	1873.6
65°	280.9	289.7	308.4	343.0	405.4	502.7	635.7	823.6	1088.3	1373.5	1674.8
67.5°	177.9	179.6	183.8	188.7	204.7	238.3	300.3	417.5	635.2	932.7	1285.3
70°	153.8	153.8	151.9	151.1	153.1	157.7	167.3	194.6	268.1	442.8	741.3
72.5°	140.8	139.3	135.9	133.2	132.7	132.7	134.7	138.8	150.6	180.4	290.2
75°	129.7	125.6	120.9	117.7	116.5	115.2	115.0	115.7	118.2	122.9	138.6
77.5°	116.2	110.8	105.4	102.2	100.7	99.0	97.5	95.8	94.6	96.1	103.0
80°	100.0	93.9	89.7	87.7	86.2	83.8	80.6	77.6	74.9	74.5	78.6
82.5°	80.6	73.5	73.7	74.5	71.7	68.3	64.9	61.7	57.0	54.5	57.0
85°	65.1	61.4	59.7	64.4	60.4	55.3	49.9	44.2	36.9	31.0	33.7
87.5°	25.3	25.3	37.8	58.2	52.3	42.8	36.6	31.2	19.4	15.0	15.2
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°	576.7	576.7	576.7	576.7	576.7	576.7	576.7	576.7
2.5°	577.7	578.2	577.9	577.7	577.7	577.4	577.7	577.7
5°	582.1	583.3	583.3	583.8	583.8	584.1	584.3	584.1
7.5°	588.7	590.9	592.4	594.1	594.4	594.6	595.1	594.6
10°	595.4	599.8	603.0	606.2	607.7	608.1	608.6	608.6
12.5°	603.7	609.9	615.5	621.2	623.9	625.3	625.3	626.3
15°	617.5	623.6	630.3	637.9	642.5	645.0	645.7	645.7
17.5°	636.9	642.3	647.9	655.3	661.2	664.4	665.1	664.9
20°	659.5	664.7	667.9	672.5	677.7	681.4	682.3	682.3
22.5°	685.3	688.2	688.7	690.2	694.4	699.3	701.5	702.0
25°	713.8	714.5	712.6	712.6	715.3	719.9	722.2	722.4
27.5°	750.7	747.0	742.1	740.3	742.1	747.5	750.2	751.1
30°	796.6	787.8	776.5	770.3	769.3	776.5	781.4	782.1
32.5°	849.2	836.4	821.4	808.9	805.7	810.1	816.0	815.8
35°	911.6	896.4	878.2	862.2	854.8	859.3	867.6	868.6
37.5°	983.6	963.7	942.8	922.7	911.1	912.3	921.2	924.1
40°	1063.9	1038.1	1011.8	984.8	968.4	965.2	976.0	977.7
42.5°	1149.9	1116.8	1083.6	1050.2	1029.0	1024.1	1036.7	1035.9
45°	1241.6	1199.3	1160.5	1123.6	1098.6	1091.2	1101.5	1101.5
47.5°	1340.1	1288.0	1241.8	1200.1	1172.8	1162.2	1172.1	1172.8
50°	1444.6	1389.3	1335.0	1288.5	1255.8	1242.3	1255.1	1257.1
52.5°	1548.5	1494.7	1439.9	1386.8	1347.2	1330.8	1345.5	1351.9
55°	1653.9	1601.1	1548.7	1496.9	1450.0	1430.5	1446.3	1454.4
57.5°	1765.2	1716.3	1666.4	1614.1	1568.9	1538.7	1555.4	1566.2
60°	1895.7	1853.9	1802.1	1744.3	1698.6	1667.9	1677.5	1687.1
62.5°	1998.9	2015.1	1971.1	1904.3	1845.6	1806.2	1815.6	1825.7
65°	1949.0	2115.3	2154.4	2086.8	2005.5	1944.3	1940.4	1945.6
67.5°	1629.1	1952.2	2187.8	2252.2	2184.1	2099.1	2083.4	2091.0
70°	1089.7	1492.2	1908.0	2217.6	2299.9	2267.0	2251.5	2256.1
72.5°	523.4	869.1	1294.4	1706.0	1956.6	2071.6	2108.5	2126.4
75°	191.4	345.0	623.9	940.1	1135.0	1313.8	1430.5	1478.2
77.5°	115.5	139.3	199.3	300.0	339.8	380.4	364.6	372.5
80°	85.5	96.6	109.3	122.9	127.3	127.3	122.4	118.4
82.5°	60.0	67.1	73.2	80.6	82.6	78.9	64.9	51.6
85°	38.6	41.8	44.5	49.1	47.9	45.7	30.7	27.3
87.5°	17.7	20.1	21.1	23.3	22.4	21.4	15.2	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)