

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: P300535

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300535
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-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5516.2 lumens
Efficiency: N/A
Efficacy: 93.5 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

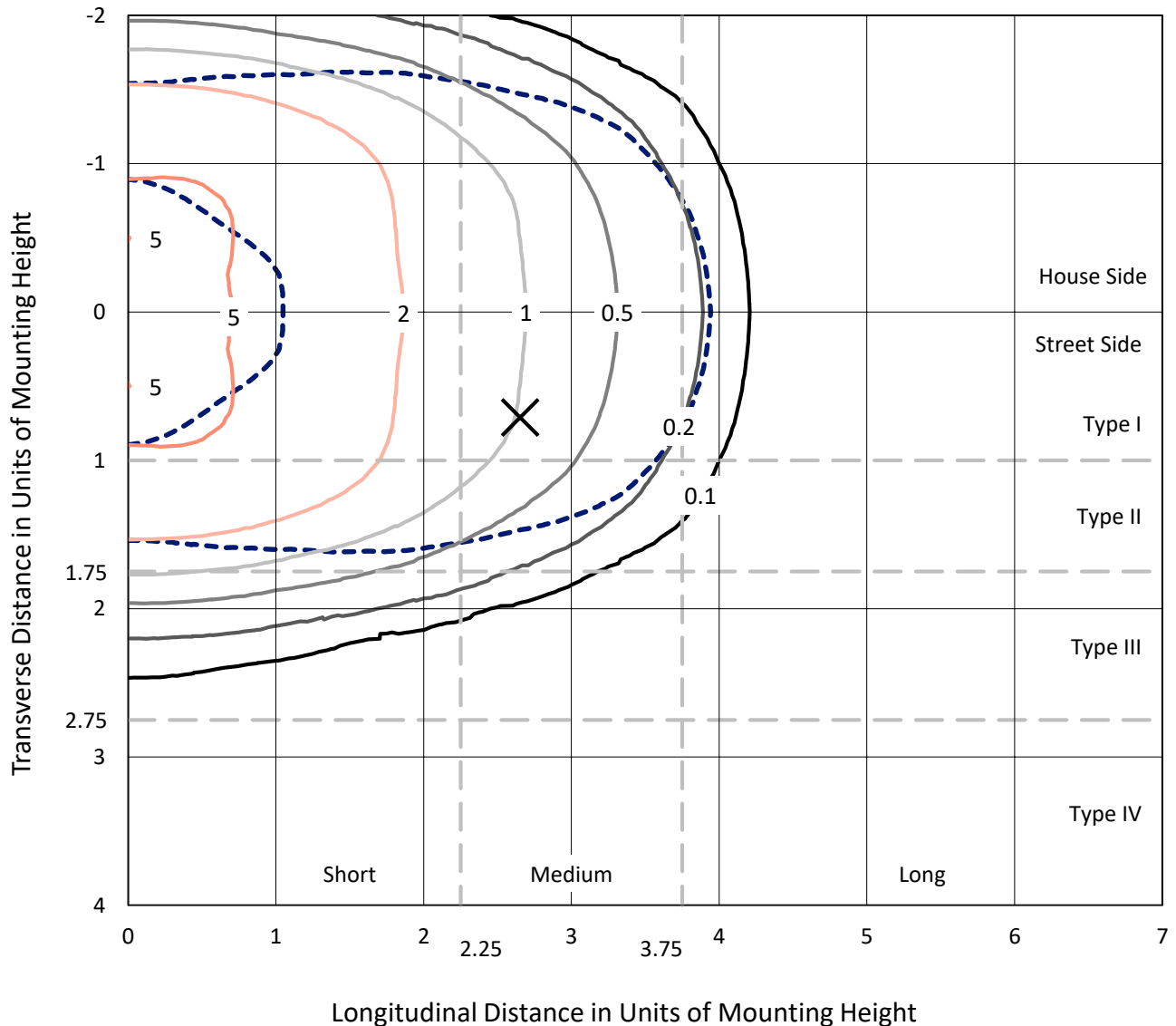
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

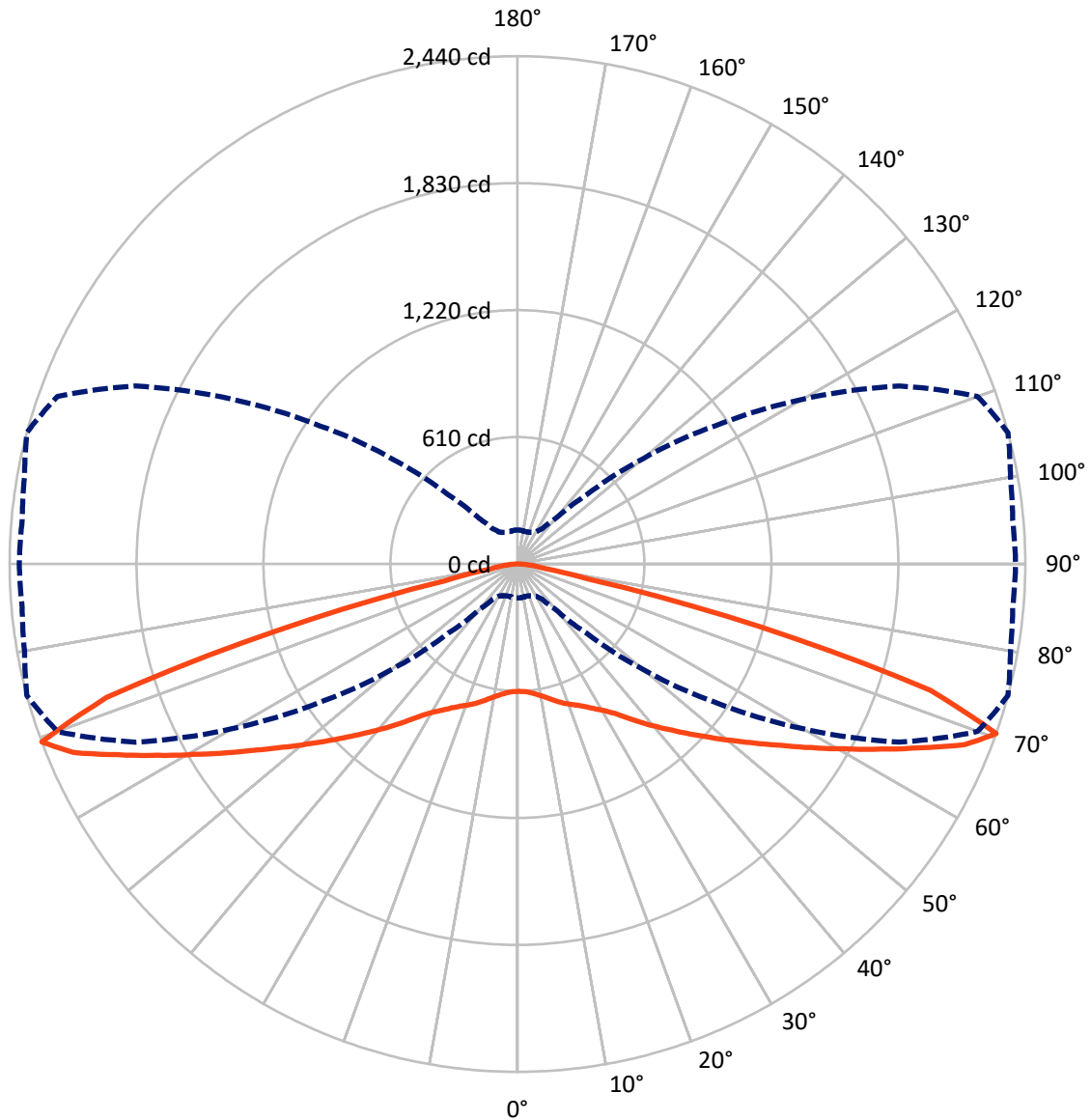
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	2758.1	0.0	2758.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2758.1	0.0	2758.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5516.2	0.0	5516.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	182.3	3.3
20°-30°	343.2	6.2
30°-40°	607.7	11.0
40°-50°	1016.3	18.4
50°-60°	1416.2	25.7
60°-70°	1313.3	23.8
70°-80°	523.4	9.5
80°-90°	55.0	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°	5516.2	100.0
0°-180°	5516.2	100.0



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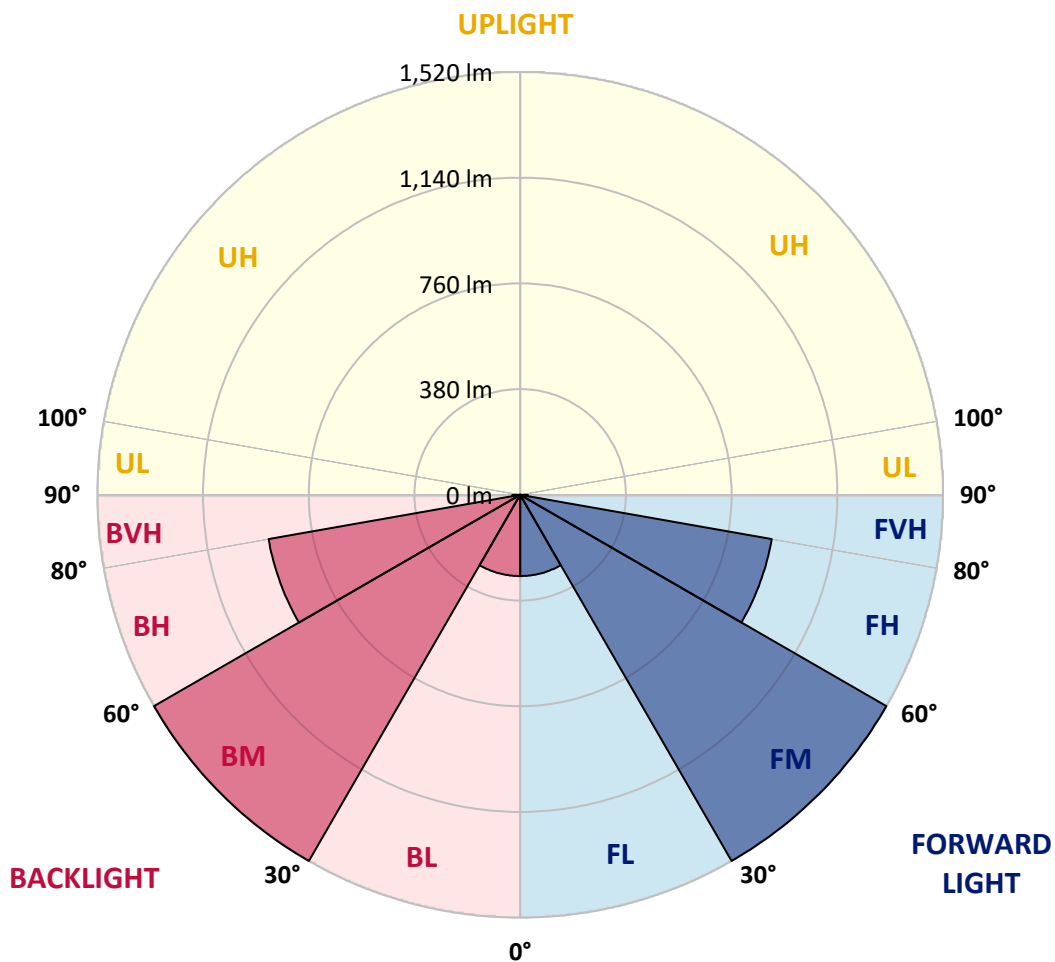
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.1	5.3			
FM	(30°-60°)	1520.1	27.6			
FH	(60°-80°)	918.4	16.6			G1/1800
FVH	(80°-90°)	27.5	0.5			G1/100
BL	(0°-30°)	292.1	5.3	B1/500		
BM	(30°-60°)	1520.1	27.6	B2/2500		
BH	(60°-80°)	918.4	16.6	B2/1000		G2/1000
BVH	(80°-90°)	27.5	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°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
2.5°	610.8	610.3	610.8	610.6	611.1	611.1	611.6	612.7	612.7	613.4	613.2
5°	604.8	604.6	605.4	606.1	606.9	608.5	610.1	612.4	614.2	615.5	616.8
7.5°	593.1	593.1	594.2	596.0	597.8	601.2	604.8	609.5	614.2	618.1	621.5
10°	583.5	584.0	585.3	588.4	591.5	596.8	601.7	608.5	615.0	621.5	626.7
12.5°	577.7	578.5	580.9	585.5	590.8	597.8	605.4	614.0	621.3	629.1	634.3
15°	579.6	580.1	583.5	589.2	596.0	604.8	615.0	625.2	633.8	642.1	649.2
17.5°	589.7	590.5	594.4	600.9	608.0	618.4	629.3	640.8	651.5	660.9	669.5
20°	608.0	608.7	613.7	620.7	629.1	639.8	650.7	662.7	674.7	684.6	694.3
22.5°	633.8	635.1	639.8	646.8	656.2	667.7	680.7	693.5	705.0	714.1	722.7
25°	667.7	670.5	675.0	682.8	692.7	703.1	717.2	730.2	741.2	749.8	756.0
27.5°	715.6	719.6	722.9	730.5	740.1	750.1	764.1	775.6	786.0	794.4	799.1
30°	779.3	783.2	786.6	793.9	802.7	812.1	825.4	835.6	842.1	848.6	848.3
32.5°	856.4	860.6	861.9	869.7	878.8	889.0	901.0	906.7	912.0	912.7	908.0
35°	942.7	944.8	950.0	960.4	970.9	979.2	990.7	993.6	993.6	989.6	979.2
37.5°	1037.4	1038.7	1046.0	1057.7	1068.4	1077.0	1084.8	1090.5	1087.7	1079.3	1061.9
40°	1141.1	1143.5	1153.9	1164.3	1176.3	1184.4	1192.7	1193.8	1190.9	1178.7	1154.9
42.5°	1240.2	1242.3	1252.7	1269.1	1284.8	1296.0	1303.8	1305.4	1296.2	1285.0	1255.6
45°	1325.4	1330.9	1344.5	1363.8	1386.4	1402.3	1413.0	1417.5	1409.4	1394.8	1360.6
47.5°	1393.0	1398.4	1417.7	1440.7	1468.8	1494.6	1512.4	1521.7	1519.7	1508.7	1471.4
50°	1442.5	1447.7	1468.6	1496.7	1529.6	1561.6	1591.9	1614.3	1622.1	1617.2	1583.0
52.5°	1448.2	1456.8	1481.3	1519.1	1561.9	1605.7	1648.7	1686.8	1712.6	1716.5	1691.2
55°	1368.2	1376.8	1410.7	1466.7	1530.3	1601.8	1670.6	1734.7	1785.6	1811.7	1798.4
57.5°	1179.4	1194.8	1230.5	1296.2	1389.8	1496.7	1606.5	1720.4	1823.9	1893.0	1906.3
60°	903.9	922.1	958.1	1028.0	1132.2	1259.7	1406.3	1574.7	1757.4	1912.8	2005.6
62.5°	579.8	597.0	634.8	695.6	780.6	918.7	1075.9	1275.9	1521.5	1766.8	1987.9
65°	298.0	307.4	327.2	363.9	430.2	533.4	674.4	873.9	1154.7	1457.3	1777.0
67.5°	188.8	190.6	195.0	200.2	217.2	252.9	318.6	442.9	673.9	989.6	1363.8
70°	163.2	163.2	161.1	160.3	162.4	167.4	177.5	206.5	284.4	469.8	786.6
72.5°	149.4	147.8	144.2	141.3	140.8	140.8	142.9	147.3	159.8	191.4	307.9
75°	137.7	133.2	128.3	124.9	123.6	122.3	122.0	122.8	125.4	130.4	147.0
77.5°	123.3	117.6	111.8	108.5	106.9	105.1	103.5	101.7	100.4	101.9	109.2
80°	106.1	99.6	95.2	93.1	91.5	88.9	85.5	82.4	79.5	79.0	83.4
82.5°	85.5	78.0	78.2	79.0	76.1	72.5	68.8	65.4	60.5	57.9	60.5
85°	69.1	65.2	63.4	68.3	64.1	58.7	52.9	46.9	39.1	32.8	35.7
87.5°	26.9	26.9	40.1	61.8	55.5	45.4	38.8	33.1	20.6	15.9	16.2
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°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
2.5°	612.9	613.4	613.2	612.9	612.9	612.7	612.9	612.9
5°	617.6	618.9	618.9	619.4	619.4	619.7	620.0	619.7
7.5°	624.7	627.0	628.6	630.4	630.6	630.9	631.4	630.9
10°	631.7	636.4	639.8	643.2	644.7	645.2	645.8	645.8
12.5°	640.6	647.1	653.1	659.1	661.9	663.5	663.5	664.5
15°	655.2	661.7	668.7	676.8	681.7	684.4	685.1	685.1
17.5°	675.8	681.5	687.5	695.3	701.6	705.0	705.7	705.5
20°	699.7	705.2	708.6	713.6	719.0	722.9	724.0	724.0
22.5°	727.1	730.2	730.8	732.3	736.8	742.0	744.3	744.8
25°	757.4	758.1	756.0	756.0	758.9	763.9	766.2	766.5
27.5°	796.5	792.5	787.3	785.5	787.3	793.1	795.9	797.0
30°	845.2	835.8	823.8	817.3	816.3	823.8	829.0	829.8
32.5°	901.0	887.4	871.5	858.2	854.9	859.5	865.8	865.5
35°	967.2	951.1	931.8	914.8	907.0	911.7	920.6	921.6
37.5°	1043.6	1022.5	1000.3	979.0	966.7	968.0	977.4	980.5
40°	1128.9	1101.5	1073.6	1044.9	1027.4	1024.1	1035.5	1037.4
42.5°	1220.1	1184.9	1149.7	1114.3	1091.8	1086.6	1099.9	1099.1
45°	1317.4	1272.5	1231.3	1192.2	1165.6	1157.8	1168.7	1168.7
47.5°	1421.9	1366.6	1317.6	1273.3	1244.4	1233.1	1243.6	1244.4
50°	1532.7	1474.0	1416.4	1367.1	1332.5	1318.1	1331.7	1333.8
52.5°	1643.0	1585.9	1527.7	1471.4	1429.5	1412.0	1427.6	1434.4
55°	1754.8	1698.8	1643.2	1588.2	1538.4	1517.8	1534.5	1543.1
57.5°	1872.9	1821.0	1768.1	1712.6	1664.6	1632.5	1650.3	1661.7
60°	2011.4	1967.0	1912.0	1850.8	1802.3	1769.7	1779.8	1790.0
62.5°	2120.8	2138.1	2091.4	2020.5	1958.2	1916.5	1926.4	1937.0
65°	2067.9	2244.4	2285.9	2214.2	2127.9	2063.0	2058.8	2064.3
67.5°	1728.5	2071.3	2321.3	2389.6	2317.4	2227.2	2210.5	2218.6
70°	1156.2	1583.3	2024.4	2352.9	2440.2	2405.3	2388.9	2393.8
72.5°	555.3	922.1	1373.4	1810.1	2076.0	2198.0	2237.1	2256.2
75°	203.1	366.0	661.9	997.5	1204.2	1394.0	1517.8	1568.4
77.5°	122.5	147.8	211.4	318.3	360.6	403.6	386.9	395.2
80°	90.7	102.5	116.0	130.4	135.0	135.0	129.8	125.7
82.5°	63.6	71.2	77.7	85.5	87.6	83.7	68.8	54.7
85°	40.9	44.3	47.2	52.1	50.8	48.5	32.6	28.9
87.5°	18.8	21.4	22.4	24.8	23.7	22.7	16.2	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)