

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: P270145

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-5WQ-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5816.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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

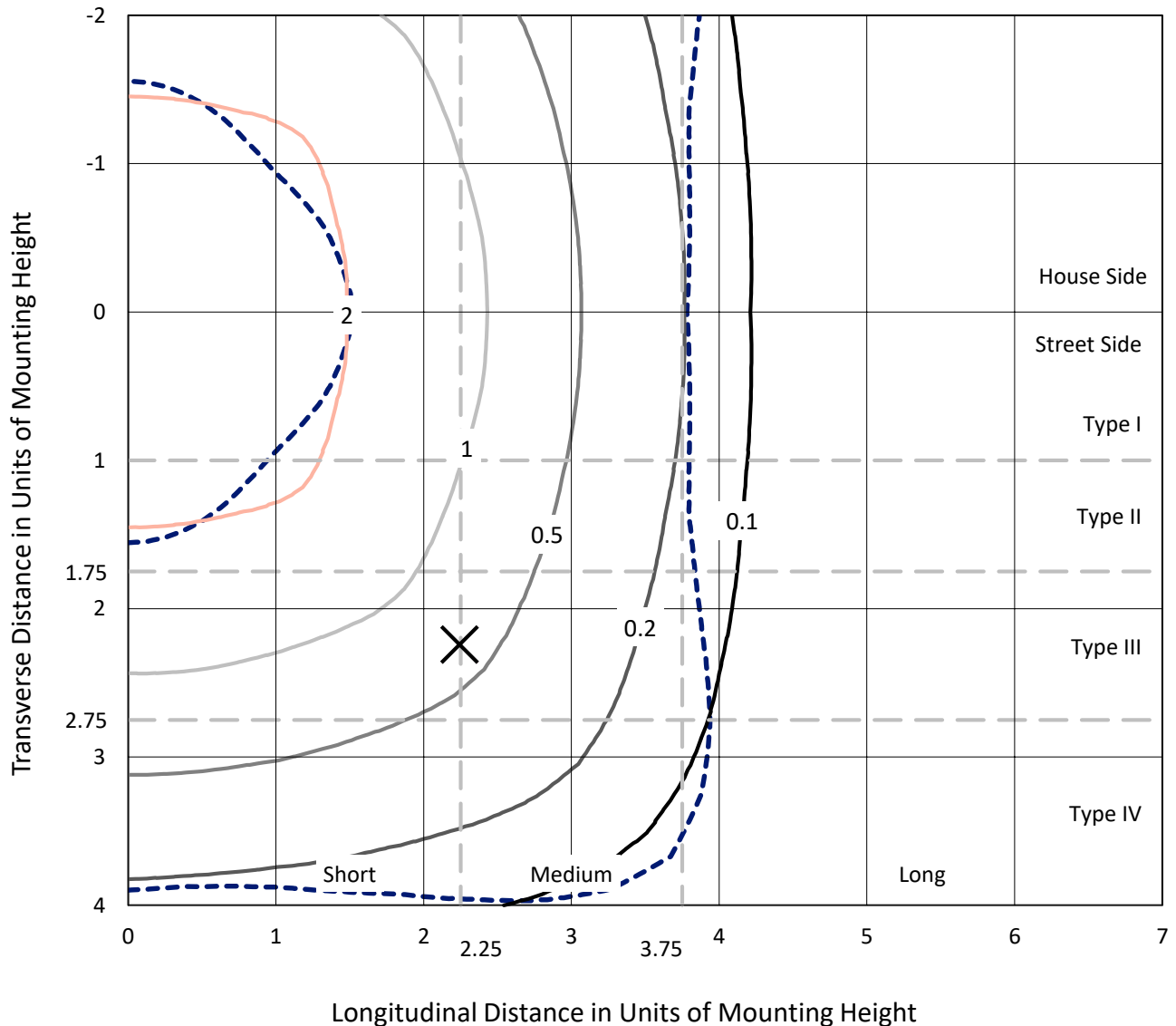


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Iso-Footcandle Lines of Horizontal Illumination

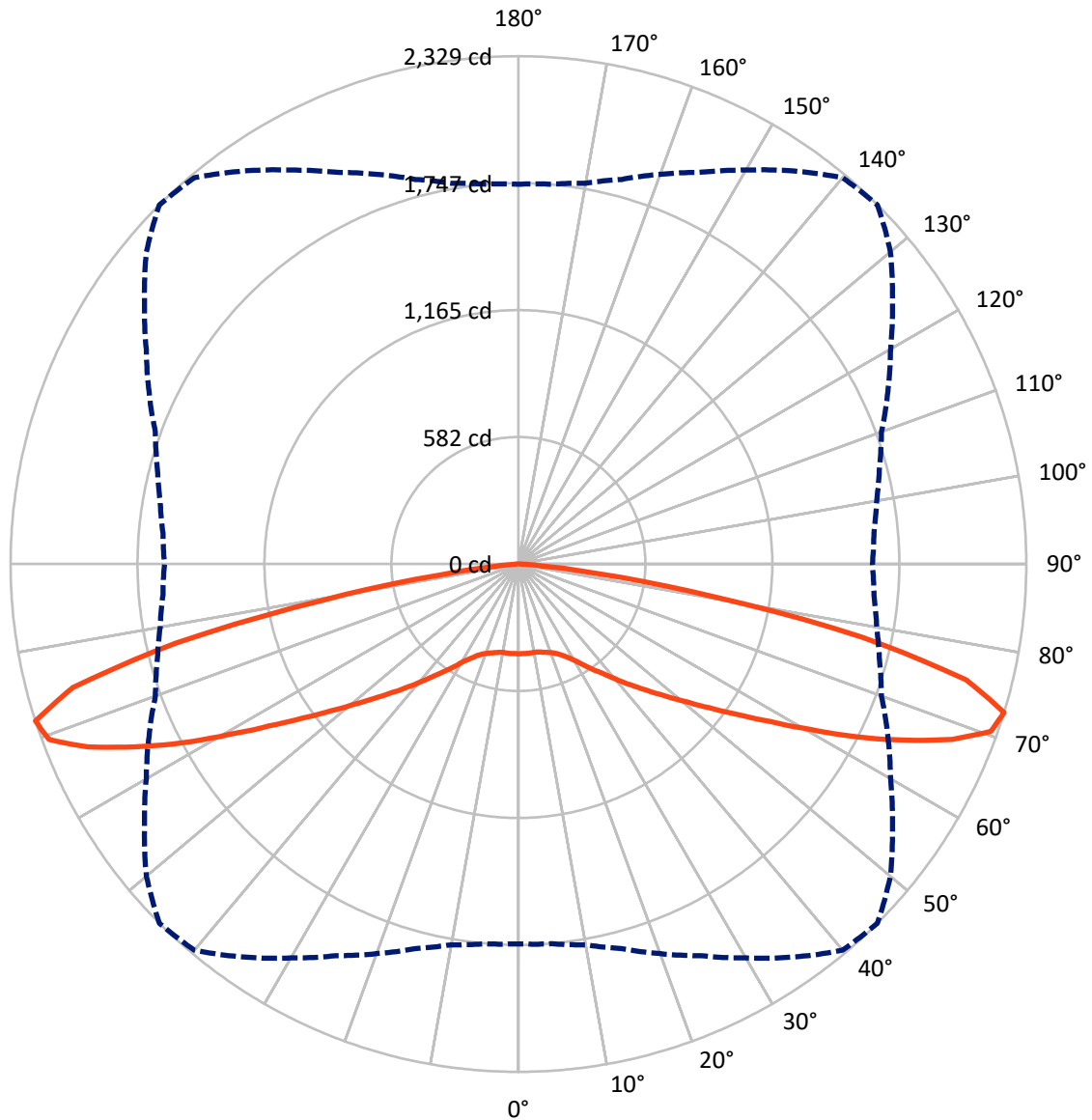
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2908.1	0.0	2908.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2908.1	0.0	2908.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5816.2	0.0	5816.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.7
10°-20°	119.4	2.1
20°-30°	218.3	3.8
30°-40°	376.4	6.5
40°-50°	643.4	11.1
50°-60°	1042.8	17.9
60°-70°	1730.0	29.7
70°-80°	1523.7	26.2
80°-90°	122.9	2.1
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°	5816.2	100.0
0°-180°	5816.2	100.0



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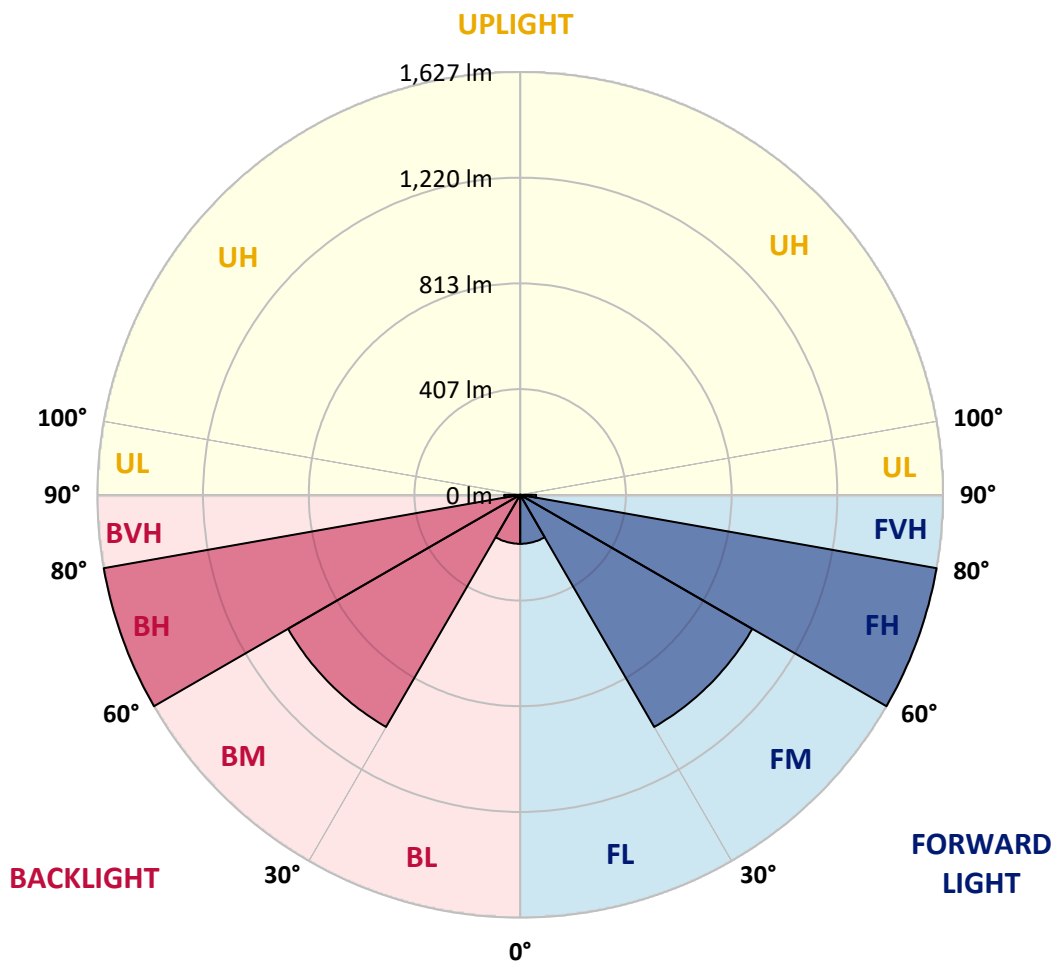
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.5	3.2			
FM	(30°-60°)	1031.3	17.7			
FH	(60°-80°)	1626.9	28.0			G1/1800
FVH	(80°-90°)	61.4	1.1			G1/100
BL	(0°-30°)	188.5	3.2	B1/500		
BM	(30°-60°)	1031.3	17.7	B2/2500		
BH	(60°-80°)	1626.9	28.0	B3/2500		G1/1800
BVH	(80°-90°)	61.4	1.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0
2.5°	412.0	412.1	412.4	412.1	412.1	412.0	411.7	412.0	411.7	411.1	411.3
5°	413.2	413.8	413.8	413.2	413.5	413.2	412.7	413.0	412.4	411.7	411.7
7.5°	414.7	415.0	415.0	414.6	414.7	414.3	413.8	413.5	413.0	412.0	411.1
10°	417.3	417.5	417.3	416.6	416.6	415.8	414.6	413.9	413.0	411.3	410.5
12.5°	419.9	420.1	419.9	419.4	419.1	417.7	416.6	415.8	415.0	413.8	412.4
15°	423.6	424.2	423.6	422.6	421.8	420.6	420.1	420.4	420.6	419.6	418.3
17.5°	430.6	430.8	430.0	427.7	426.5	425.4	425.4	426.1	426.9	426.2	425.0
20°	443.4	442.5	440.7	437.7	436.4	434.6	434.3	434.6	434.6	434.3	433.3
22.5°	459.4	458.9	456.3	452.7	450.8	449.7	448.2	446.8	446.5	445.7	444.8
25°	478.5	478.3	475.4	472.1	470.8	469.5	468.1	466.3	464.8	462.8	461.8
27.5°	503.1	502.1	497.8	496.1	494.2	493.4	491.6	489.4	488.1	485.8	484.5
30°	530.1	530.1	526.5	526.0	526.0	524.3	522.0	518.3	515.9	513.6	512.8
32.5°	556.9	557.3	553.7	554.9	555.7	556.9	557.6	556.2	554.7	554.3	552.7
35°	595.9	594.9	591.4	592.3	592.0	591.7	591.7	594.6	595.1	595.7	592.5
37.5°	644.3	644.3	640.9	640.9	639.1	637.5	635.5	637.3	640.2	641.0	639.0
40°	699.4	701.3	697.1	696.7	697.4	692.2	689.9	692.9	694.7	697.9	695.5
42.5°	764.5	763.2	759.0	758.3	755.5	753.9	751.7	754.1	757.1	759.2	760.0
45°	827.0	825.9	821.1	821.1	818.1	816.7	817.8	821.9	823.2	826.3	829.0
47.5°	888.7	887.3	884.0	885.4	885.6	888.1	891.5	895.3	899.1	902.9	904.4
50°	951.6	951.8	948.3	951.6	955.5	962.3	971.5	977.6	985.4	990.6	992.1
52.5°	1008.8	1010.0	1013.6	1021.2	1029.2	1042.3	1058.3	1073.1	1086.1	1094.6	1094.0
55°	1077.7	1079.4	1088.3	1101.2	1114.3	1134.0	1157.7	1184.1	1205.4	1217.7	1210.0
57.5°	1165.7	1169.2	1179.4	1196.7	1216.1	1241.7	1274.3	1314.1	1347.2	1363.6	1351.1
60°	1286.6	1288.7	1300.9	1320.1	1343.7	1375.5	1419.0	1472.2	1518.9	1540.9	1526.4
62.5°	1445.8	1449.9	1459.7	1479.1	1503.3	1539.2	1592.2	1659.0	1717.2	1747.6	1715.0
65°	1636.1	1648.8	1657.2	1676.9	1699.2	1737.4	1792.8	1864.4	1926.9	1946.8	1909.2
67.5°	1824.4	1835.5	1850.0	1872.6	1895.3	1938.4	1989.7	2059.2	2127.6	2145.8	2087.4
70°	1906.8	1913.2	1935.7	1966.6	2010.0	2060.7	2120.2	2198.2	2283.0	2297.9	2223.8
72.5°	1741.8	1748.1	1773.2	1825.7	1901.5	1982.0	2085.9	2200.3	2312.2	2329.0	2227.0
75°	1317.3	1306.9	1344.0	1413.6	1515.7	1628.1	1773.2	1937.3	2099.2	2120.2	1998.3
77.5°	680.7	679.5	707.4	793.9	915.8	1043.7	1203.4	1388.8	1547.2	1611.2	1511.9
80°	191.8	193.9	207.2	250.2	321.5	413.8	538.7	712.3	841.9	908.0	852.6
82.5°	75.2	81.0	86.1	94.1	103.6	117.0	156.3	232.7	312.2	372.9	305.5
85°	26.9	28.8	40.9	48.2	49.0	51.7	59.0	68.8	83.0	99.0	81.3
87.5°	10.2	11.1	13.0	21.6	21.3	19.5	23.7	24.9	18.7	17.1	21.1
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°	412.0	412.0	412.0	412.0	412.0	412.0	412.0	412.0
2.5°	410.9	411.1	411.1	411.3	411.7	411.7	412.1	412.1
5°	411.1	411.1	410.5	410.9	410.5	410.5	410.9	410.9
7.5°	410.5	410.3	409.7	409.4	409.0	409.0	409.0	409.0
10°	409.7	409.4	409.0	408.6	408.4	408.4	408.4	408.4
12.5°	412.0	411.1	410.5	410.3	410.3	410.3	410.3	410.3
15°	417.5	415.6	414.3	414.3	414.6	415.0	415.0	415.6
17.5°	424.4	422.4	420.9	419.9	420.4	421.2	421.8	422.4
20°	432.8	431.6	429.7	428.8	428.8	429.7	430.3	430.6
22.5°	444.1	443.4	442.5	441.2	441.2	441.7	442.9	442.9
25°	461.2	460.7	460.1	459.2	458.9	458.9	459.4	459.9
27.5°	482.6	482.8	482.3	482.0	481.2	481.0	481.9	481.5
30°	511.1	512.5	513.8	512.8	511.3	510.5	509.8	508.7
32.5°	549.9	548.1	547.2	545.4	542.8	540.7	539.2	537.2
35°	586.4	583.7	582.6	584.2	584.0	582.6	580.8	579.1
37.5°	631.1	630.6	631.1	634.2	633.6	634.9	631.1	630.9
40°	687.7	688.2	692.0	695.5	697.4	699.2	697.1	694.8
42.5°	753.4	753.0	754.3	759.2	762.4	764.5	760.0	759.4
45°	822.7	820.8	821.9	825.9	829.0	831.6	826.4	826.4
47.5°	899.1	895.8	892.3	896.9	898.8	900.3	896.2	895.0
50°	984.2	977.4	969.9	971.8	971.8	971.2	966.1	965.9
52.5°	1081.6	1069.4	1055.9	1050.7	1047.9	1044.6	1035.8	1031.6
55°	1194.0	1175.6	1154.3	1141.1	1134.3	1125.4	1110.8	1106.8
57.5°	1325.3	1296.4	1259.7	1243.7	1228.2	1213.8	1197.5	1192.9
60°	1480.8	1438.4	1389.6	1359.9	1343.1	1329.3	1312.5	1311.6
62.5°	1654.1	1587.2	1532.0	1505.3	1493.1	1480.8	1464.7	1466.9
65°	1830.6	1760.7	1708.8	1687.2	1675.8	1665.6	1649.6	1652.1
67.5°	2004.5	1940.2	1883.3	1861.2	1848.4	1835.5	1821.3	1823.6
70°	2129.3	2049.6	1985.6	1936.4	1905.8	1871.1	1848.6	1843.1
72.5°	2093.6	1970.6	1869.0	1771.5	1714.4	1668.1	1636.6	1623.0
75°	1811.8	1643.8	1513.0	1393.6	1326.3	1271.7	1231.9	1207.1
77.5°	1345.5	1156.7	1002.1	864.6	755.7	682.6	631.1	597.8
80°	736.5	560.3	409.4	287.8	211.6	175.8	155.2	145.3
82.5°	229.3	148.0	109.1	94.1	87.5	83.7	77.7	67.7
85°	73.1	64.0	59.5	56.9	54.2	47.3	32.6	29.6
87.5°	28.2	29.0	28.8	27.2	27.8	20.0	16.0	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)