

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: P199919

Luminaire Tested: **GPC-AF-01-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199919
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: GPC-AF-01-LED-E1-5WQ-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 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: 6474.7 lumens
Efficiency: N/A
Efficacy: 109.7 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 - G2

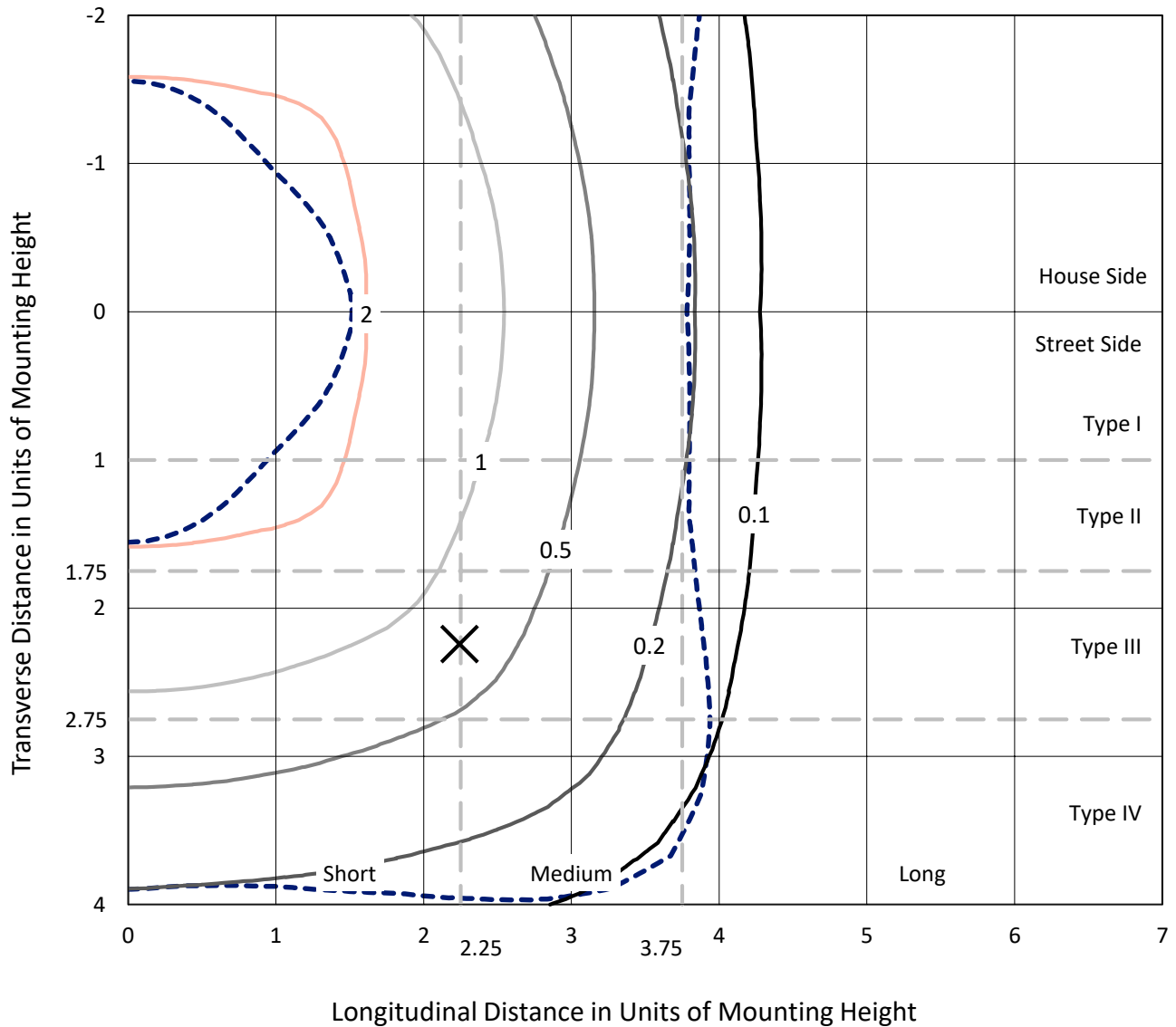
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

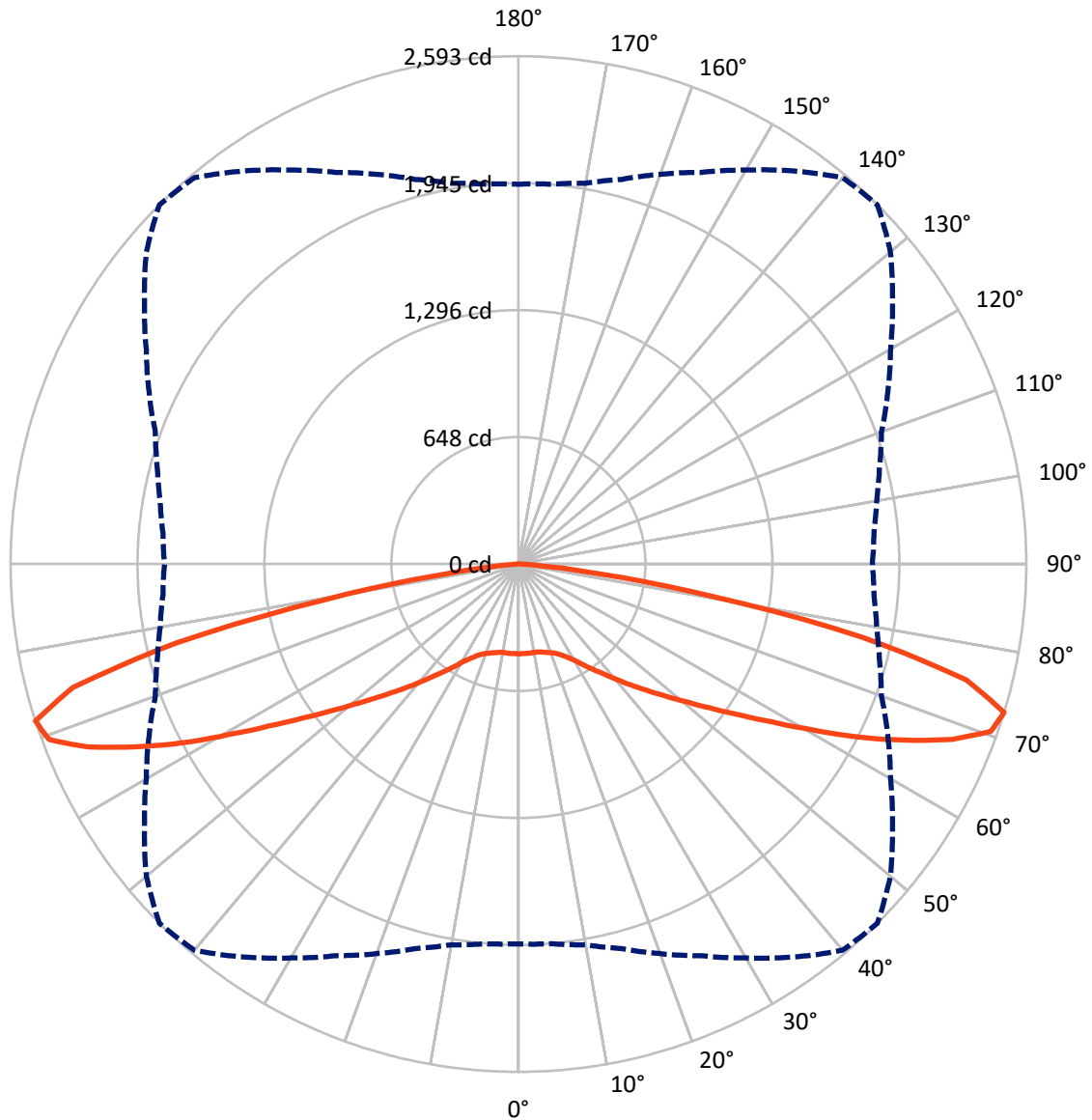
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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	3237.3	0.0	3237.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3237.3	0.0	3237.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6474.7	0.0	6474.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	0.7
10°-20°	133.0	2.1
20°-30°	243.0	3.8
30°-40°	419.0	6.5
40°-50°	716.2	11.1
50°-60°	1160.9	17.9
60°-70°	1925.9	29.7
70°-80°	1696.2	26.2
80°-90°	136.8	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°	6474.7	100.0
0°-180°	6474.7	100.0



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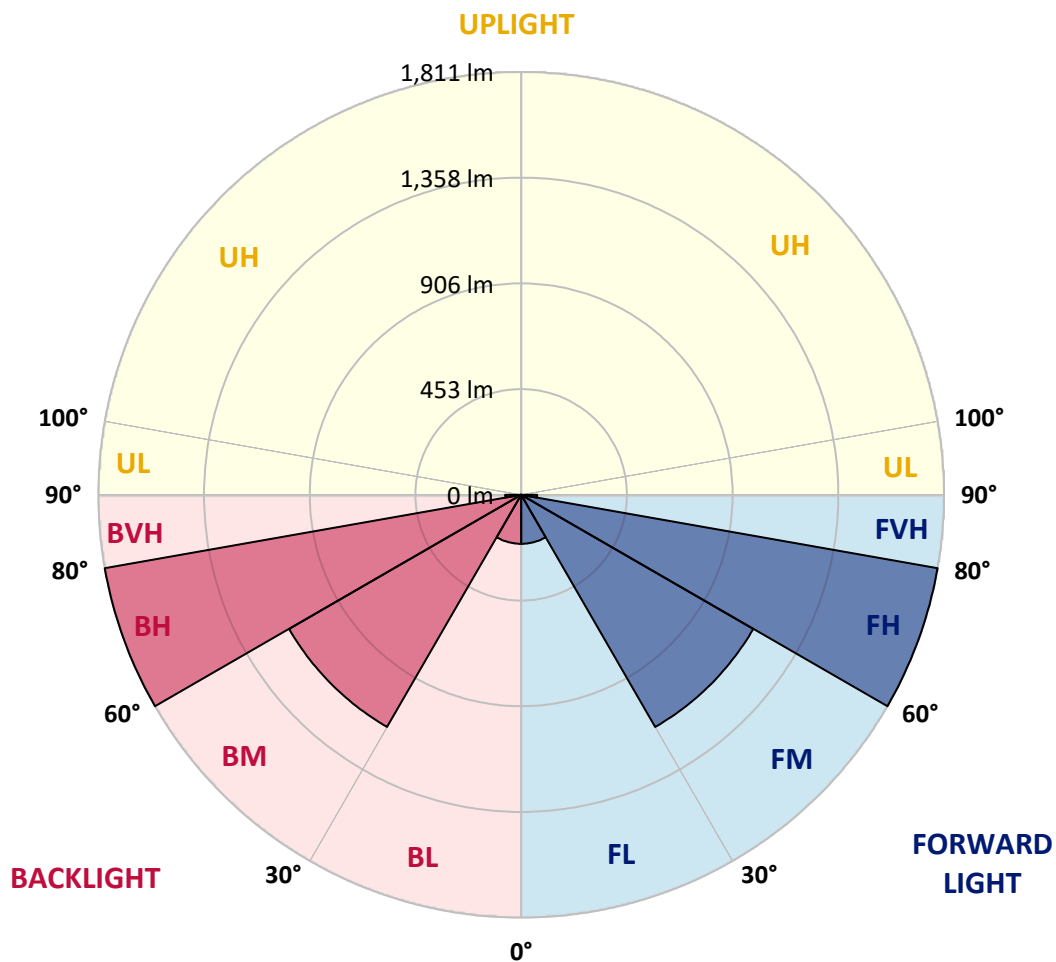
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.9	3.2			
FM	(30°-60°)	1148.0	17.7			
FH	(60°-80°)	1811.1	28.0			G2/5000
FVH	(80°-90°)	68.4	1.1			G1/100
BL	(0°-30°)	209.9	3.2	B1/500		
BM	(30°-60°)	1148.0	17.7	B2/2500		
BH	(60°-80°)	1811.1	28.0	B3/2500		G2/5000
BVH	(80°-90°)	68.4	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	458.6	458.6	458.6	458.6	458.6	458.6	458.6	458.6	458.6	458.6	458.6
2.5°	458.6	458.8	459.1	458.8	458.8	458.6	458.3	458.6	458.3	457.6	457.9
5°	460.0	460.6	460.6	460.0	460.3	460.0	459.4	459.7	459.1	458.3	458.3
7.5°	461.7	462.0	462.0	461.5	461.7	461.2	460.6	460.3	459.7	458.6	457.6
10°	464.5	464.8	464.5	463.8	463.8	462.9	461.5	460.8	459.7	457.9	457.0
12.5°	467.4	467.7	467.4	466.9	466.5	465.0	463.8	462.9	462.0	460.6	459.1
15°	471.6	472.2	471.6	470.4	469.5	468.2	467.7	468.0	468.2	467.1	465.7
17.5°	479.3	479.6	478.7	476.1	474.8	473.6	473.6	474.3	475.2	474.5	473.1
20°	493.6	492.6	490.6	487.3	485.8	483.8	483.5	483.8	483.8	483.5	482.3
22.5°	511.4	510.8	508.0	503.9	501.8	500.6	498.9	497.4	497.1	496.2	495.1
25°	532.7	532.4	529.2	525.6	524.1	522.7	521.1	519.1	517.4	515.2	514.1
27.5°	560.1	558.9	554.2	552.3	550.2	549.3	547.3	544.8	543.4	540.8	539.3
30°	590.1	590.1	586.1	585.6	585.6	583.6	581.1	577.0	574.3	571.7	570.8
32.5°	620.0	620.4	616.4	617.7	618.6	620.0	620.7	619.2	617.5	617.1	615.3
35°	663.4	662.2	658.4	659.3	659.0	658.7	658.7	661.9	662.5	663.1	659.6
37.5°	717.2	717.2	713.4	713.4	711.5	709.7	707.4	709.4	712.7	713.6	711.3
40°	778.6	780.7	776.0	775.6	776.3	770.6	768.0	771.3	773.3	776.9	774.2
42.5°	851.1	849.6	844.9	844.2	841.0	839.2	836.8	839.5	842.8	845.1	846.0
45°	920.6	919.4	914.1	914.1	910.7	909.2	910.4	914.9	916.4	919.8	922.9
47.5°	989.3	987.7	984.1	985.6	985.9	988.6	992.4	996.6	1000.9	1005.1	1006.8
50°	1059.3	1059.6	1055.7	1059.3	1063.7	1071.2	1081.5	1088.3	1097.0	1102.7	1104.4
52.5°	1123.0	1124.3	1128.4	1136.8	1145.7	1160.3	1178.1	1194.6	1209.0	1218.5	1217.8
55°	1199.7	1201.6	1211.5	1225.9	1240.4	1262.4	1288.8	1318.2	1341.9	1355.6	1347.0
57.5°	1297.7	1301.6	1312.9	1332.2	1353.8	1382.3	1418.6	1462.9	1499.7	1518.0	1504.1
60°	1432.3	1434.6	1448.2	1469.6	1495.8	1531.2	1579.6	1638.9	1690.9	1715.3	1699.2
62.5°	1609.5	1614.0	1625.0	1646.6	1673.5	1713.5	1772.5	1846.8	1911.6	1945.4	1909.2
65°	1821.3	1835.5	1844.8	1866.7	1891.6	1934.1	1995.8	2075.5	2145.0	2167.2	2125.3
67.5°	2030.9	2043.3	2059.4	2084.6	2109.9	2157.8	2215.0	2292.3	2368.5	2388.7	2323.7
70°	2122.7	2129.8	2154.8	2189.2	2237.6	2294.0	2360.2	2447.0	2541.4	2558.0	2475.5
72.5°	1939.0	1946.0	1973.9	2032.4	2116.8	2206.4	2322.0	2449.4	2574.0	2592.7	2479.1
75°	1466.4	1454.8	1496.1	1573.6	1687.3	1812.4	1973.9	2156.6	2336.8	2360.2	2224.5
77.5°	757.8	756.4	787.5	883.8	1019.5	1161.8	1339.6	1546.0	1722.4	1793.6	1683.1
80°	213.5	215.9	230.7	278.5	357.9	460.6	599.7	792.9	937.2	1010.8	949.1
82.5°	83.7	90.2	95.9	104.8	115.3	130.3	174.0	259.0	347.5	415.1	340.1
85°	30.0	32.1	45.5	53.7	54.6	57.6	65.7	76.6	92.4	110.2	90.5
87.5°	11.3	12.4	14.5	24.0	23.7	21.7	26.4	27.7	20.8	19.0	23.5
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°	458.6	458.6	458.6	458.6	458.6	458.6	458.6	458.6
2.5°	457.4	457.6	457.6	457.9	458.3	458.3	458.8	458.8
5°	457.6	457.6	457.0	457.4	457.0	457.0	457.4	457.4
7.5°	457.0	456.7	456.1	455.8	455.3	455.3	455.3	455.3
10°	456.1	455.8	455.3	454.9	454.6	454.6	454.6	454.6
12.5°	458.6	457.6	457.0	456.7	456.7	456.7	456.7	456.7
15°	464.8	462.7	461.2	461.2	461.5	462.0	462.0	462.7
17.5°	472.4	470.2	468.6	467.4	468.0	468.9	469.5	470.2
20°	481.8	480.5	478.4	477.3	477.3	478.4	479.0	479.3
22.5°	494.4	493.6	492.6	491.2	491.2	491.7	493.0	493.0
25°	513.4	512.9	512.2	511.2	510.8	510.8	511.4	512.0
27.5°	537.2	537.5	536.9	536.6	535.7	535.4	536.4	536.0
30°	569.0	570.5	572.0	570.8	569.2	568.3	567.5	566.3
32.5°	612.1	610.2	609.1	607.1	604.3	601.9	600.2	598.0
35°	652.8	649.8	648.6	650.3	650.1	648.6	646.5	644.7
37.5°	702.6	702.0	702.6	706.0	705.3	706.8	702.6	702.3
40°	765.6	766.1	770.3	774.2	776.3	778.4	776.0	773.5
42.5°	838.7	838.3	839.7	845.1	848.7	851.1	846.0	845.4
45°	915.8	913.7	914.9	919.4	922.9	925.7	920.0	920.0
47.5°	1000.9	997.2	993.3	998.4	1000.5	1002.2	997.7	996.3
50°	1095.6	1088.1	1079.7	1081.8	1081.8	1081.2	1075.5	1075.3
52.5°	1204.1	1190.5	1175.4	1169.7	1166.5	1162.9	1153.1	1148.4
55°	1329.2	1308.7	1285.0	1270.3	1262.7	1252.8	1236.6	1232.1
57.5°	1475.3	1443.2	1402.3	1384.5	1367.2	1351.2	1333.1	1328.0
60°	1648.4	1601.2	1546.9	1513.9	1495.2	1479.8	1461.1	1460.1
62.5°	1841.4	1766.9	1705.4	1675.7	1662.1	1648.4	1630.5	1633.0
65°	2037.8	1960.0	1902.3	1878.2	1865.5	1854.2	1836.4	1839.1
67.5°	2231.4	2159.8	2096.5	2071.9	2057.7	2043.3	2027.5	2030.0
70°	2370.4	2281.6	2210.4	2155.6	2121.5	2082.9	2057.9	2051.7
72.5°	2330.6	2193.7	2080.6	1972.1	1908.5	1856.9	1821.9	1806.7
75°	2016.9	1829.9	1684.3	1551.4	1476.5	1415.7	1371.4	1343.8
77.5°	1497.8	1287.6	1115.6	962.5	841.3	759.9	702.6	665.5
80°	819.9	623.7	455.8	320.4	235.5	195.7	172.8	161.8
82.5°	255.3	164.8	121.5	104.8	97.4	93.2	86.5	75.4
85°	81.4	71.2	66.2	63.3	60.3	52.6	36.3	33.0
87.5°	31.4	32.3	32.1	30.3	30.9	22.3	17.8	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)