

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: P270148

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270148
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6381.6 lumens
Efficiency: N/A
Efficacy: 95.2 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): 67
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

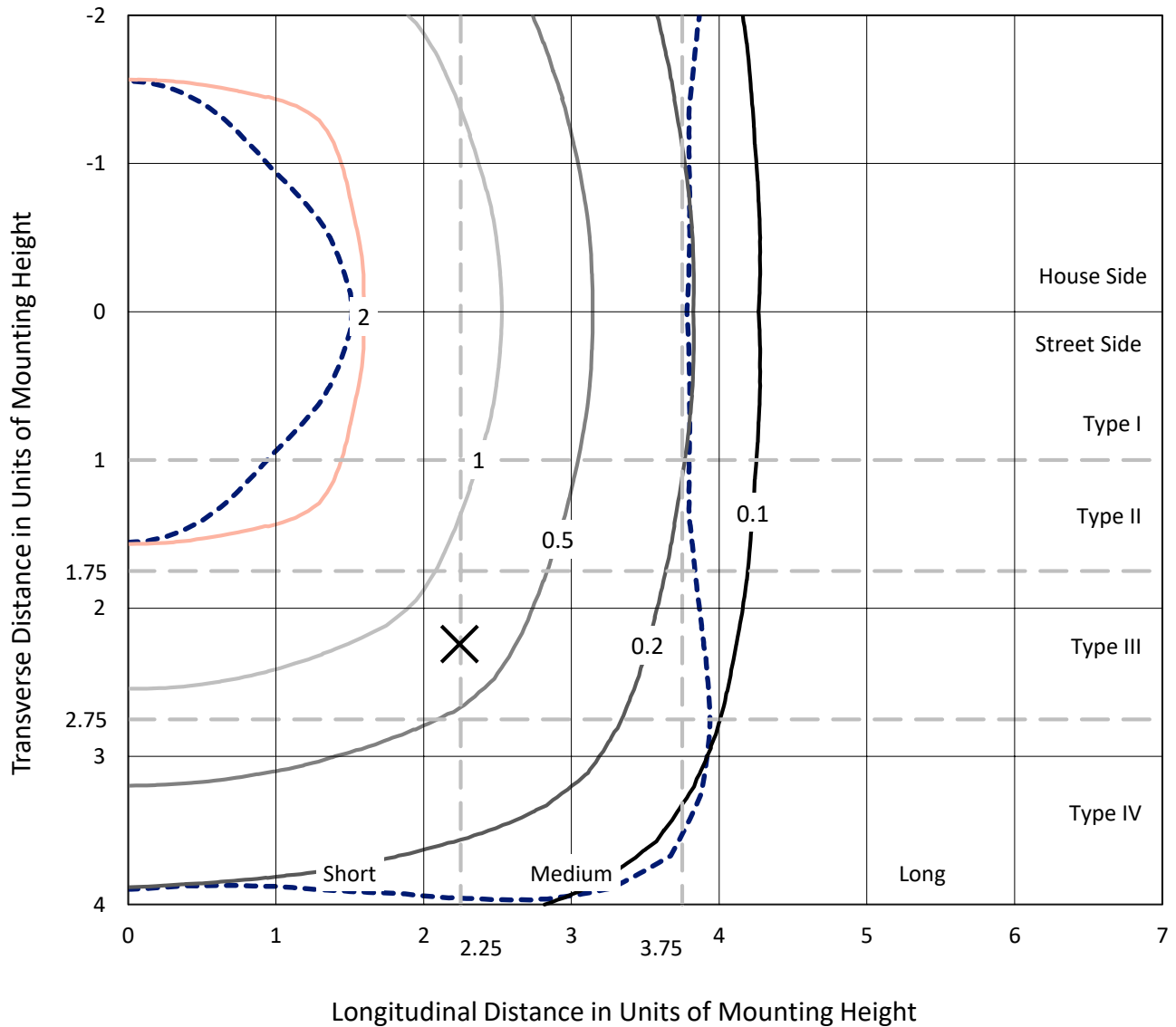


REPORT NUMBER: P270148

CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

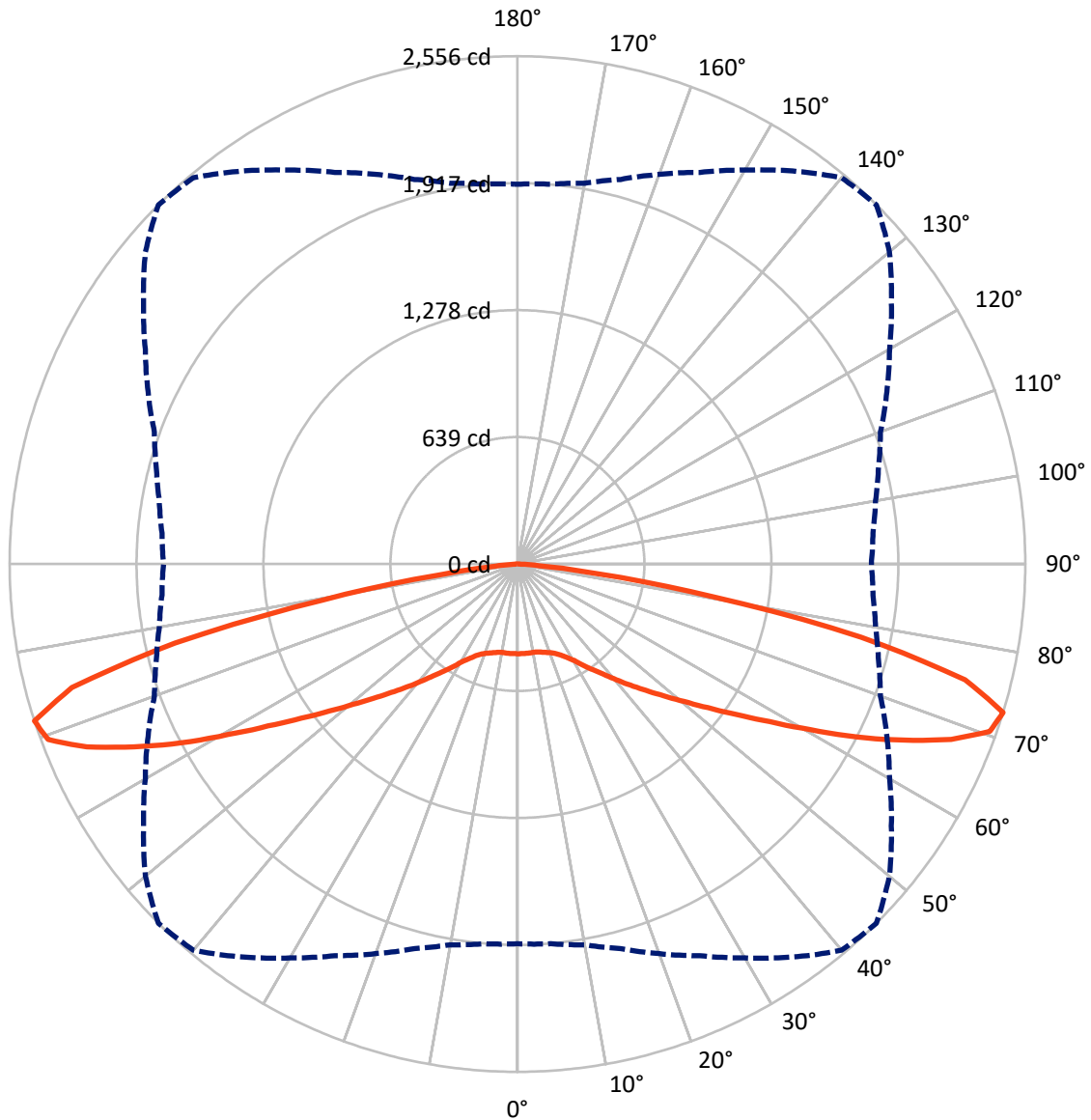


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P270148

CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270148

CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3190.8	0.0	3190.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3190.8	0.0	3190.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6381.6	0.0	6381.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	0.7
10°-20°	131.1	2.1
20°-30°	239.5	3.8
30°-40°	412.9	6.5
40°-50°	705.9	11.1
50°-60°	1144.2	17.9
60°-70°	1898.2	29.7
70°-80°	1671.8	26.2
80°-90°	134.8	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°	6381.6	100.0
0°-180°	6381.6	100.0



REPORT NUMBER: P270148

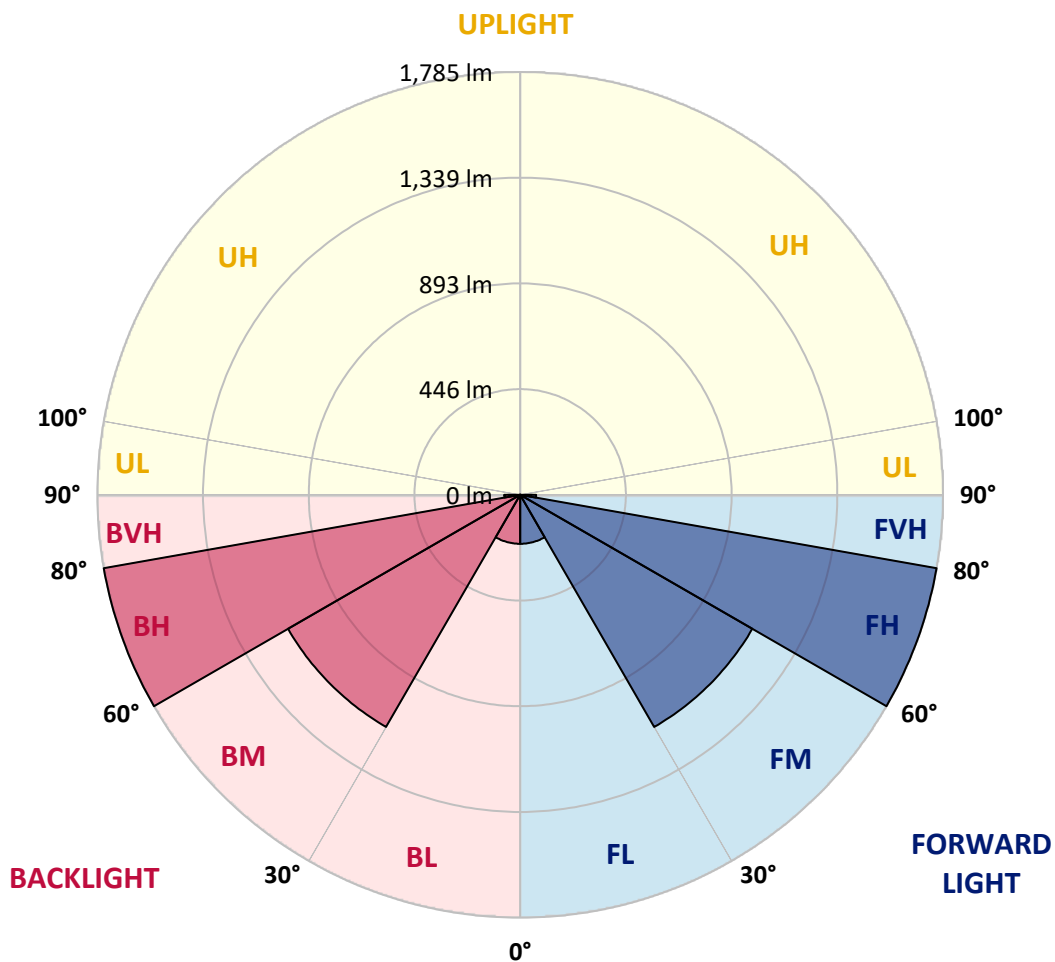
CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.9	3.2			
FM	(30°-60°)	1131.5	17.7			
FH	(60°-80°)	1785.0	28.0			G1/1800
FVH	(80°-90°)	67.4	1.1			G1/100
BL	(0°-30°)	206.9	3.2	B1/500		
BM	(30°-60°)	1131.5	17.7	B2/2500		
BH	(60°-80°)	1785.0	28.0	B3/2500		G1/1800
BVH	(80°-90°)	67.4	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





REPORT NUMBER: P270148

CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8
2.5°	451.8	452.1	452.4	452.1	452.1	451.8	451.6	451.8	451.6	450.9	451.3
5°	453.4	454.0	454.0	453.4	453.6	453.4	452.7	453.0	452.4	451.6	451.6
7.5°	455.1	455.4	455.4	454.8	455.1	454.5	454.0	453.6	453.0	451.8	450.9
10°	457.7	458.0	457.7	457.1	457.1	456.2	454.8	454.3	453.0	451.3	450.5
12.5°	460.7	461.0	460.7	460.1	459.8	458.3	457.1	456.2	455.4	454.0	452.4
15°	464.9	465.4	464.9	463.6	462.7	461.5	461.0	461.3	461.5	460.4	458.9
17.5°	472.4	472.7	471.8	469.2	467.9	466.8	466.8	467.4	468.2	467.7	466.3
20°	486.4	485.5	483.5	480.4	478.8	476.8	476.6	476.8	476.8	476.6	475.4
22.5°	503.9	503.4	500.7	496.8	494.6	493.4	491.7	490.3	489.9	489.0	487.9
25°	525.1	524.8	521.6	518.1	516.5	515.2	513.7	511.7	509.9	507.8	506.6
27.5°	552.0	550.8	546.2	544.5	542.3	541.5	539.4	537.0	535.6	533.0	531.5
30°	581.7	581.7	577.8	577.3	577.3	575.2	572.8	568.6	566.0	563.4	562.6
32.5°	611.1	611.4	607.7	608.8	609.7	611.1	611.7	610.3	608.5	608.2	606.4
35°	653.8	652.7	648.8	649.7	649.5	649.1	649.1	652.3	653.0	653.5	650.1
37.5°	706.8	706.8	703.1	703.1	701.2	699.5	697.2	699.2	702.5	703.4	700.9
40°	767.4	769.5	764.7	764.5	765.0	759.5	756.9	760.1	762.1	765.6	763.0
42.5°	838.8	837.4	832.6	832.1	828.9	827.2	824.9	827.5	830.7	833.0	833.8
45°	907.4	906.2	900.9	900.9	897.6	896.1	897.3	901.8	903.2	906.5	909.7
47.5°	975.0	973.6	970.0	971.4	971.7	974.4	978.2	982.2	986.3	990.8	992.2
50°	1044.0	1044.3	1040.5	1044.0	1048.4	1055.8	1066.0	1072.8	1081.2	1086.8	1088.6
52.5°	1106.9	1108.1	1112.2	1120.5	1129.2	1143.5	1161.1	1177.5	1191.5	1200.9	1200.3
55°	1182.4	1184.2	1194.1	1208.2	1222.6	1244.2	1270.3	1299.3	1322.7	1336.0	1327.7
57.5°	1279.0	1282.9	1294.0	1313.1	1334.4	1362.5	1398.2	1441.8	1478.2	1496.2	1482.6
60°	1411.6	1414.0	1427.4	1448.5	1474.3	1509.2	1556.9	1615.3	1666.5	1690.6	1674.8
62.5°	1586.3	1590.8	1601.6	1623.0	1649.3	1688.9	1747.1	1820.2	1884.0	1917.4	1881.7
65°	1795.1	1809.1	1818.2	1839.9	1864.4	1906.4	1967.2	2045.6	2114.2	2136.1	2094.8
67.5°	2001.8	2014.0	2029.8	2054.8	2079.5	2126.6	2183.2	2259.2	2334.5	2354.4	2290.3
70°	2092.2	2099.2	2123.8	2157.6	2205.3	2261.0	2326.3	2411.8	2504.8	2521.3	2439.8
72.5°	1911.0	1918.1	1945.5	2003.2	2086.4	2174.6	2288.5	2414.1	2537.1	2555.5	2443.4
75°	1445.4	1434.0	1474.6	1551.0	1663.1	1786.3	1945.5	2125.5	2303.2	2326.3	2192.6
77.5°	746.9	745.6	776.2	871.0	1004.8	1145.0	1320.2	1523.7	1697.5	1767.9	1659.0
80°	210.5	212.8	227.5	274.5	352.7	454.0	590.9	781.4	923.7	996.3	935.5
82.5°	82.6	89.0	94.5	103.3	113.5	128.5	171.5	255.2	342.4	409.2	335.2
85°	29.6	31.6	44.7	53.0	53.9	56.9	64.7	75.5	91.0	108.5	89.3
87.5°	11.0	12.2	14.4	23.7	23.4	21.4	26.1	27.2	20.5	18.8	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270148

CATALOG NUMBER: GWC-AF-01-LED-E1-5WQ-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	451.8	451.8	451.8	451.8	451.8	451.8	451.8	451.8
2.5°	450.7	450.9	450.9	451.3	451.6	451.6	452.1	452.1
5°	450.9	450.9	450.5	450.7	450.5	450.5	450.7	450.7
7.5°	450.5	450.2	449.6	449.3	448.8	448.8	448.8	448.8
10°	449.6	449.3	448.8	448.4	448.2	448.2	448.2	448.2
12.5°	451.8	450.9	450.5	450.2	450.2	450.2	450.2	450.2
15°	458.0	456.0	454.5	454.5	454.8	455.4	455.4	456.0
17.5°	465.7	463.3	461.9	460.7	461.3	462.2	462.7	463.3
20°	474.8	473.5	471.5	470.4	470.4	471.5	472.1	472.4
22.5°	487.3	486.4	485.5	484.0	484.0	484.6	485.9	485.9
25°	506.0	505.4	504.8	503.7	503.4	503.4	503.9	504.6
27.5°	529.6	529.8	529.2	528.9	528.1	527.8	528.7	528.4
30°	560.8	562.2	563.7	562.6	561.1	560.3	559.4	558.1
32.5°	603.2	601.4	600.2	598.2	595.7	593.3	591.5	589.5
35°	643.4	640.4	639.2	641.0	640.8	639.2	637.2	635.5
37.5°	692.6	692.0	692.6	695.7	695.2	696.5	692.6	692.2
40°	754.5	755.1	759.2	763.0	765.0	767.2	764.7	762.4
42.5°	826.6	826.4	827.7	833.0	836.5	838.8	833.8	833.3
45°	902.6	900.6	901.8	906.2	909.7	912.3	906.7	906.7
47.5°	986.3	982.8	979.1	984.1	986.1	987.9	983.5	981.9
50°	1079.8	1072.4	1064.2	1066.3	1066.3	1065.7	1060.1	1059.8
52.5°	1186.9	1173.4	1158.5	1153.0	1149.7	1146.1	1136.5	1131.9
55°	1310.1	1289.8	1266.5	1252.1	1244.5	1234.9	1218.8	1214.4
57.5°	1454.0	1422.5	1382.1	1364.5	1347.5	1331.7	1314.0	1308.9
60°	1624.8	1578.2	1524.7	1492.2	1473.7	1458.5	1440.1	1439.2
62.5°	1814.9	1741.5	1680.9	1651.7	1638.1	1624.8	1607.2	1609.6
65°	2008.4	1931.7	1875.0	1851.2	1838.7	1827.5	1810.1	1812.6
67.5°	2199.3	2128.8	2066.5	2042.0	2028.1	2014.0	1998.2	2000.9
70°	2336.2	2248.7	2178.5	2124.6	2091.0	2052.9	2028.4	2022.3
72.5°	2297.1	2162.1	2050.7	1943.8	1881.1	1830.1	1795.6	1780.7
75°	1987.9	1803.5	1660.2	1529.1	1455.3	1395.2	1351.7	1324.5
77.5°	1476.4	1269.1	1099.6	948.6	829.1	748.9	692.6	655.9
80°	808.1	614.6	449.3	315.8	232.1	192.9	170.4	159.4
82.5°	251.7	162.5	119.7	103.3	95.9	91.8	85.2	74.3
85°	80.2	70.2	65.2	62.3	59.4	51.8	35.8	32.5
87.5°	31.0	31.9	31.6	29.9	30.5	22.0	17.5	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)