

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: P193410

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193410
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: GLEON-AF-02-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6897 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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

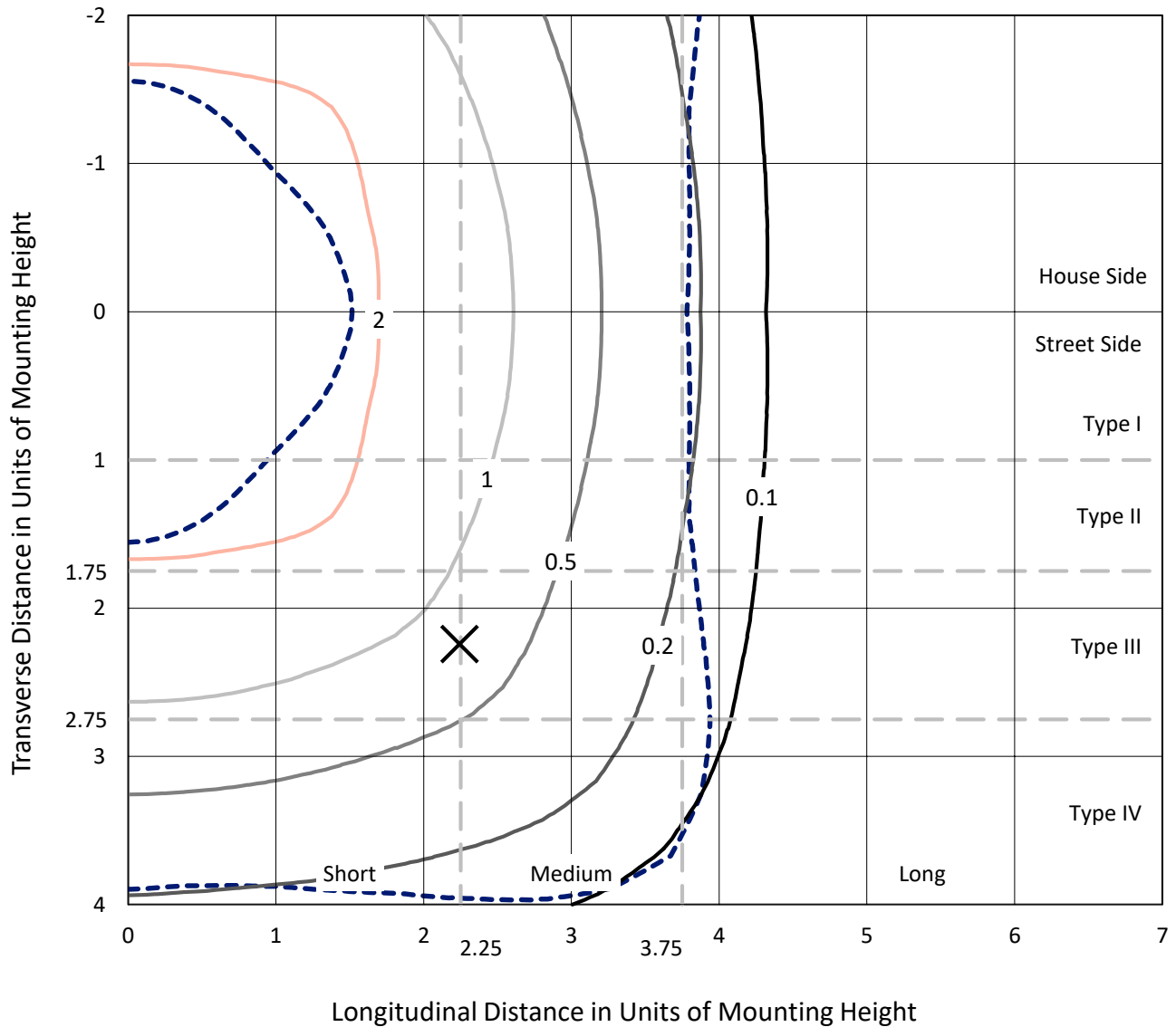


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

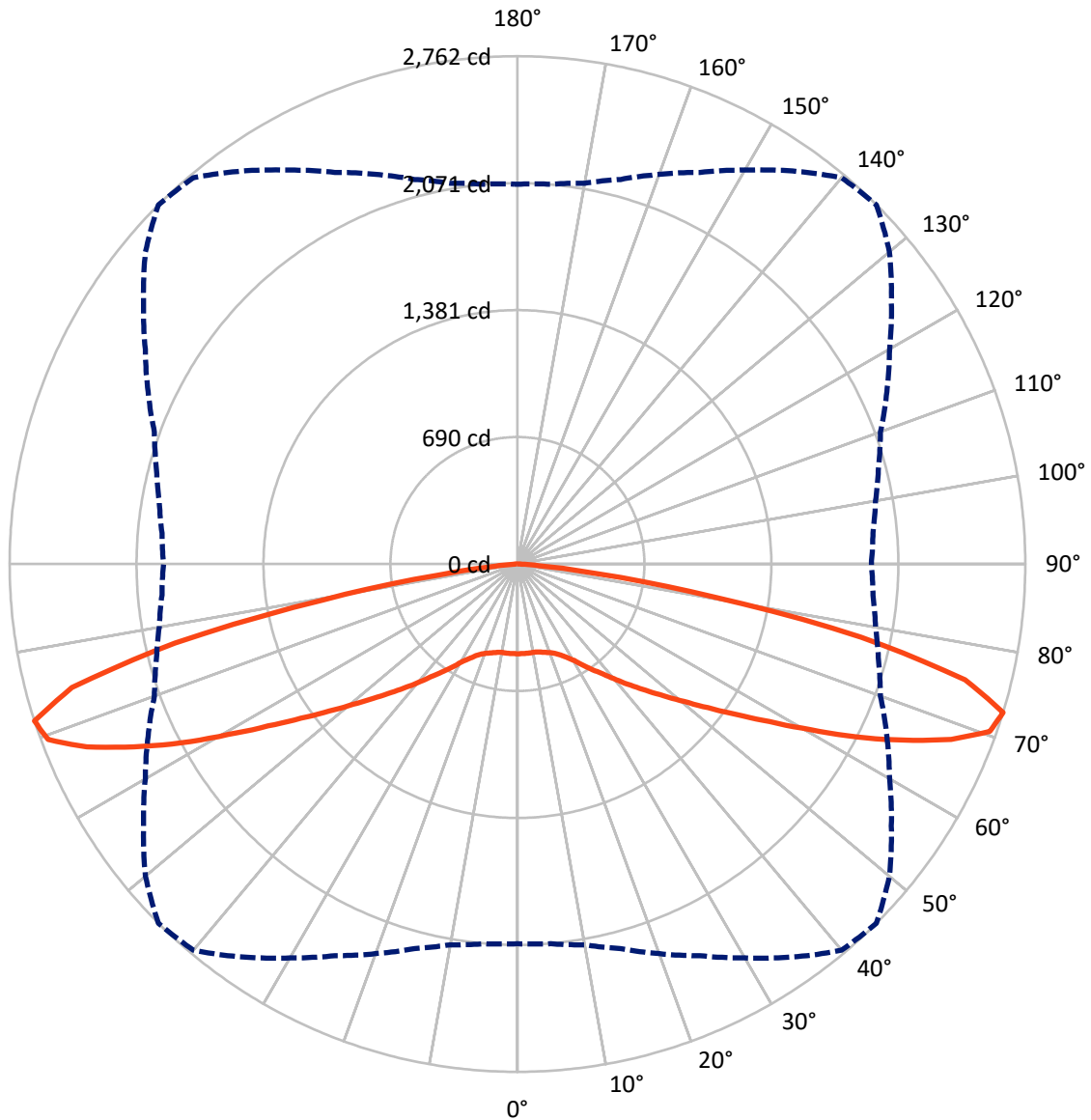


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Semi-Cutoff

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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	3448.5	0.0	3448.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3448.5	0.0	3448.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6897.0	0.0	6897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.7
10°-20°	141.6	2.1
20°-30°	258.8	3.8
30°-40°	446.3	6.5
40°-50°	762.9	11.1
50°-60°	1236.6	17.9
60°-70°	2051.5	29.7
70°-80°	1806.9	26.2
80°-90°	145.7	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°	6897.0	100.0
0°-180°	6897.0	100.0



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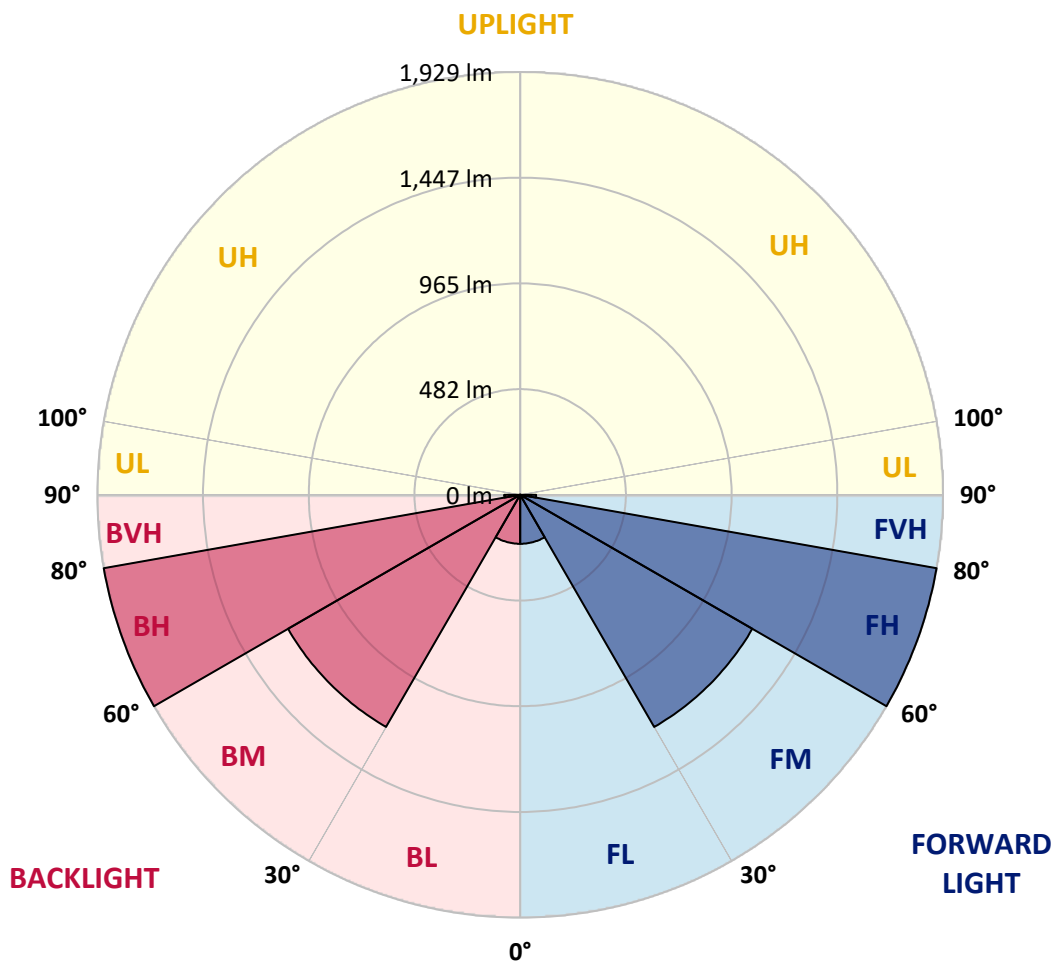
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.6	3.2			
FM	(30°-60°)	1222.9	17.7			
FH	(60°-80°)	1929.2	28.0			G2/5000
FVH	(80°-90°)	72.8	1.1			G1/100
BL	(0°-30°)	223.6	3.2	B1/500		
BM	(30°-60°)	1222.9	17.7	B2/2500		
BH	(60°-80°)	1929.2	28.0	B3/2500		G2/5000
BVH	(80°-90°)	72.8	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°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	488.4	488.7	489.0	488.7	488.7	488.4	488.1	488.4	488.1	487.5	487.8
5°	490.0	490.6	490.6	490.0	490.3	490.0	489.4	489.7	489.0	488.1	488.1
7.5°	491.9	492.2	492.2	491.6	491.9	491.3	490.6	490.3	489.7	488.4	487.5
10°	494.7	495.1	494.7	494.1	494.1	493.2	491.6	490.9	489.7	487.8	486.8
12.5°	497.9	498.2	497.9	497.3	497.0	495.4	494.1	493.2	492.2	490.6	489.0
15°	502.3	503.0	502.3	501.1	500.1	498.9	498.2	498.5	498.9	497.6	496.0
17.5°	510.6	510.9	509.9	507.1	505.8	504.5	504.5	505.2	506.1	505.5	503.9
20°	525.7	524.8	522.6	519.1	517.5	515.3	515.0	515.3	515.3	515.0	513.7
22.5°	544.7	544.1	541.2	536.8	534.6	533.3	531.4	529.9	529.5	528.6	527.3
25°	567.5	567.2	563.7	559.9	558.3	556.7	555.2	552.9	551.0	548.8	547.6
27.5°	596.6	595.3	590.3	588.4	586.2	585.2	583.0	580.5	578.9	576.0	574.5
30°	628.5	628.5	624.4	623.8	623.8	621.6	619.1	614.6	611.8	608.9	608.0
32.5°	660.5	660.8	656.7	658.0	658.9	660.5	661.1	659.5	657.7	657.3	655.4
35°	706.7	705.4	701.3	702.3	701.9	701.6	701.6	705.1	705.7	706.4	702.6
37.5°	763.9	763.9	759.8	759.8	757.9	756.0	753.5	755.7	759.2	760.1	757.6
40°	829.4	831.6	826.6	826.3	826.9	820.9	818.0	821.5	823.7	827.5	824.7
42.5°	906.6	905.0	900.0	899.3	895.8	894.0	891.4	894.3	897.7	900.3	901.2
45°	980.6	979.4	973.7	973.7	970.2	968.6	969.9	974.6	976.2	979.7	983.2
47.5°	1053.7	1052.1	1048.3	1049.9	1050.2	1053.1	1057.2	1061.6	1066.0	1070.8	1072.4
50°	1128.4	1128.7	1124.6	1128.4	1133.1	1141.0	1152.1	1159.4	1168.5	1174.5	1176.4
52.5°	1196.4	1197.6	1202.1	1210.9	1220.4	1235.9	1254.9	1272.6	1287.8	1297.9	1297.3
55°	1278.0	1279.9	1290.6	1305.8	1321.3	1344.7	1372.9	1404.2	1429.5	1444.1	1434.9
57.5°	1382.4	1386.5	1398.5	1419.1	1442.2	1472.5	1511.1	1558.2	1597.5	1617.1	1602.2
60°	1525.7	1528.2	1542.7	1565.5	1593.4	1631.0	1682.6	1745.8	1801.2	1827.1	1810.0
62.5°	1714.5	1719.3	1731.0	1754.1	1782.5	1825.2	1888.2	1967.3	2036.2	2072.3	2033.7
65°	1940.1	1955.2	1965.0	1988.5	2015.0	2060.3	2126.1	2210.8	2284.9	2308.6	2264.0
67.5°	2163.4	2176.7	2193.8	2220.6	2247.5	2298.5	2359.5	2441.8	2523.1	2544.6	2475.3
70°	2261.1	2268.7	2295.3	2332.0	2383.6	2443.7	2514.2	2606.6	2707.2	2724.9	2636.9
72.5°	2065.3	2072.9	2102.7	2165.0	2254.8	2350.3	2473.4	2609.1	2742.0	2761.9	2640.7
75°	1562.0	1549.7	1593.7	1676.2	1797.4	1930.6	2102.7	2297.2	2489.2	2514.2	2369.6
77.5°	807.3	805.7	838.9	941.4	1086.0	1237.5	1427.0	1646.8	1834.7	1910.6	1793.0
80°	227.4	230.0	245.8	296.7	381.2	490.6	638.7	844.6	998.3	1076.8	1011.0
82.5°	89.2	96.2	102.2	111.7	122.7	138.9	185.4	275.8	370.1	442.2	362.2
85°	31.9	34.2	48.4	57.3	58.2	61.4	69.9	81.6	98.4	117.4	96.5
87.5°	12.0	13.3	15.5	25.6	25.3	23.1	28.2	29.4	22.1	20.2	25.0
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°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	487.1	487.5	487.5	487.8	488.1	488.1	488.7	488.7
5°	487.5	487.5	486.8	487.1	486.8	486.8	487.1	487.1
7.5°	486.8	486.5	485.9	485.6	484.9	484.9	484.9	484.9
10°	485.9	485.6	484.9	484.6	484.3	484.3	484.3	484.3
12.5°	488.4	487.5	486.8	486.5	486.5	486.5	486.5	486.5
15°	495.1	492.8	491.3	491.3	491.6	492.2	492.2	492.8
17.5°	503.3	500.8	499.2	497.9	498.5	499.5	500.1	500.8
20°	513.1	511.8	509.6	508.3	508.3	509.6	510.2	510.6
22.5°	526.7	525.7	524.8	523.2	523.2	523.8	525.1	525.1
25°	546.9	546.3	545.7	544.4	544.1	544.1	544.7	545.4
27.5°	572.2	572.6	571.9	571.6	570.7	570.3	571.3	571.0
30°	606.1	607.7	609.3	608.0	606.4	605.5	604.5	603.2
32.5°	652.0	650.1	648.8	646.6	643.7	641.2	639.3	637.1
35°	695.3	692.1	690.9	692.8	692.4	690.9	688.7	686.8
37.5°	748.4	747.8	748.4	751.9	751.3	752.9	748.4	748.1
40°	815.5	816.1	820.6	824.7	826.9	829.1	826.6	824.0
42.5°	893.3	893.0	894.6	900.3	904.1	906.6	901.2	900.6
45°	975.6	973.3	974.6	979.4	983.2	986.0	980.0	980.0
47.5°	1066.0	1062.2	1058.1	1063.5	1065.7	1067.6	1062.9	1061.3
50°	1166.9	1159.0	1150.2	1152.4	1152.4	1151.8	1145.8	1145.4
52.5°	1282.7	1268.2	1252.0	1246.0	1242.5	1238.8	1228.3	1223.3
55°	1415.9	1394.1	1368.8	1353.3	1345.0	1334.6	1317.2	1312.5
57.5°	1571.5	1537.4	1493.7	1474.7	1456.4	1439.3	1420.0	1414.6
60°	1756.0	1705.7	1647.8	1612.7	1592.7	1576.3	1556.3	1555.4
62.5°	1961.6	1882.2	1816.7	1785.1	1770.5	1756.0	1737.0	1739.5
65°	2170.7	2087.8	2026.4	2000.8	1987.2	1975.2	1956.2	1959.0
67.5°	2376.9	2300.7	2233.3	2207.0	2191.9	2176.7	2159.6	2162.4
70°	2525.0	2430.4	2354.5	2296.2	2259.9	2218.7	2192.2	2185.5
72.5°	2482.6	2336.7	2216.2	2100.8	2033.1	1978.0	1940.7	1924.6
75°	2148.5	1949.2	1794.2	1652.5	1572.8	1507.9	1460.8	1431.4
77.5°	1595.6	1371.6	1188.5	1025.2	896.2	809.5	748.4	708.9
80°	873.4	664.3	485.6	341.3	250.9	208.5	184.1	172.4
82.5°	272.0	175.6	129.4	111.7	103.8	99.3	92.1	80.3
85°	86.7	75.9	70.5	67.4	64.2	56.0	38.6	35.1
87.5°	33.5	34.5	34.2	32.3	32.9	23.7	19.0	16.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)