

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: STREETWORKS

Report Number: P268250

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268250
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: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 7343.4 lumens
Efficiency: N/A
Efficacy: 111.3 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: 28.75 FT

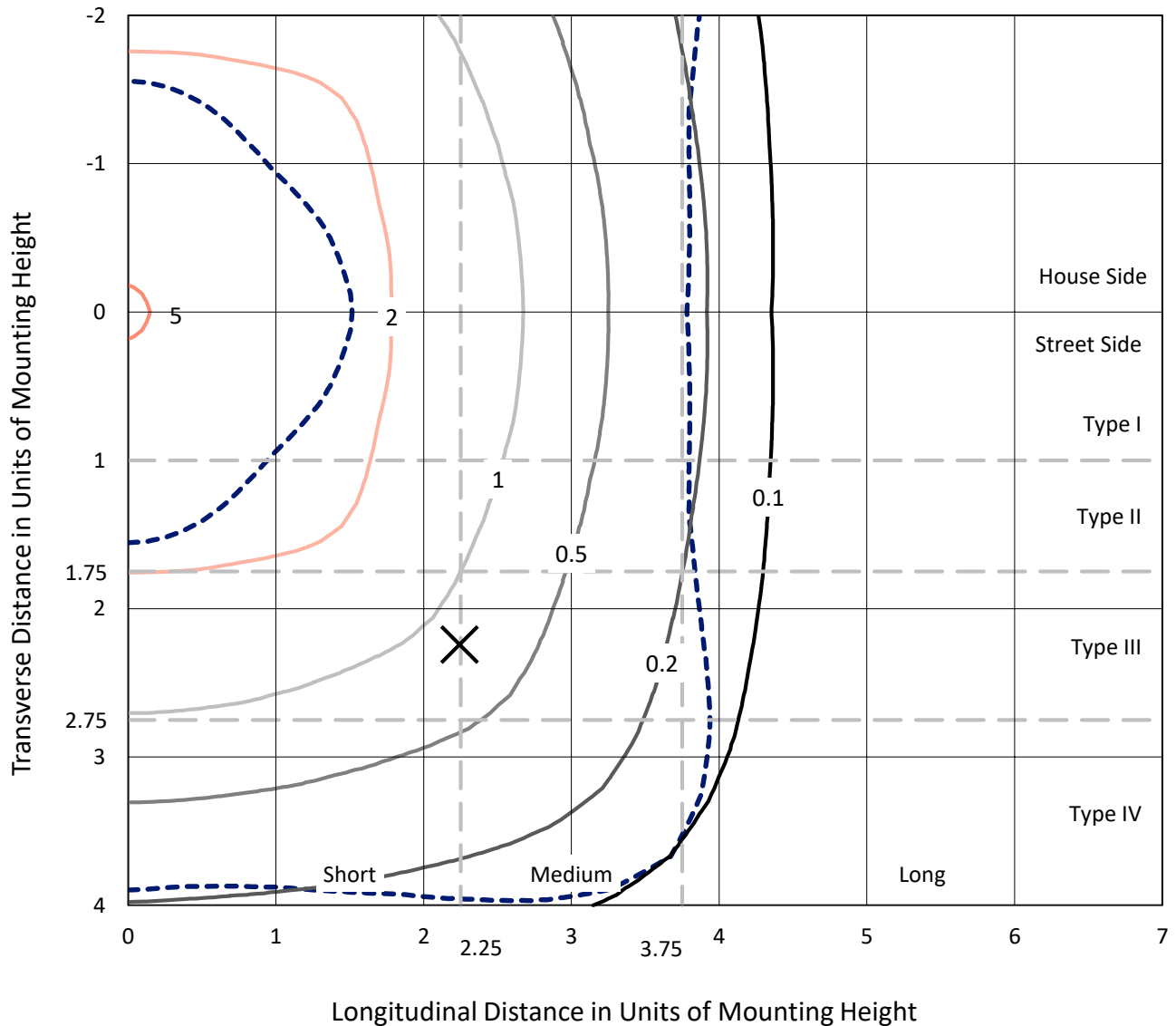


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

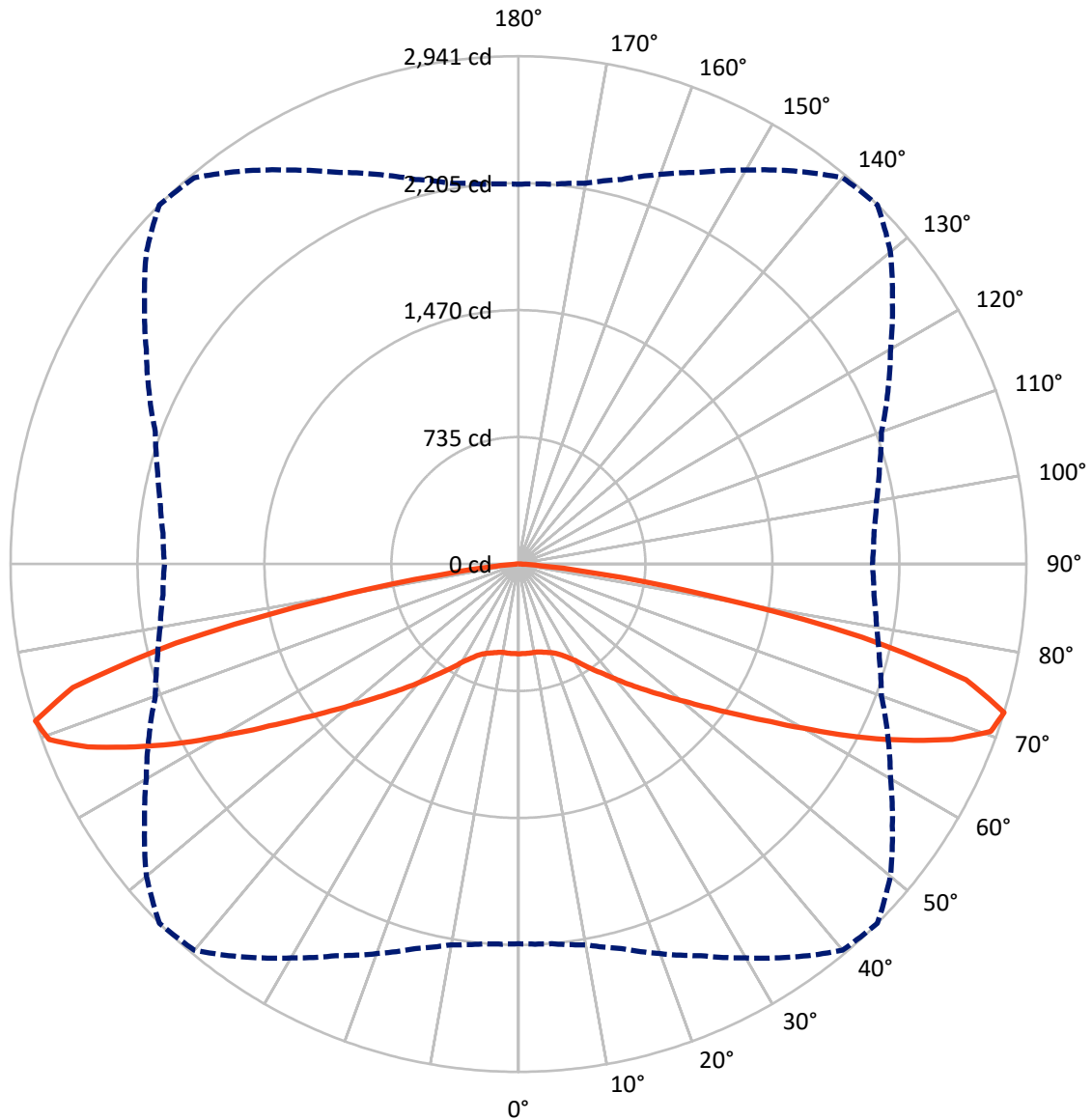


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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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	3671.7	0.0	3671.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3671.7	0.0	3671.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7343.4	0.0	7343.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.7
10°-20°	150.8	2.1
20°-30°	275.6	3.8
30°-40°	475.2	6.5
40°-50°	812.3	11.1
50°-60°	1316.6	17.9
60°-70°	2184.3	29.7
70°-80°	1923.8	26.2
80°-90°	155.1	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°	7343.4	100.0
0°-180°	7343.4	100.0



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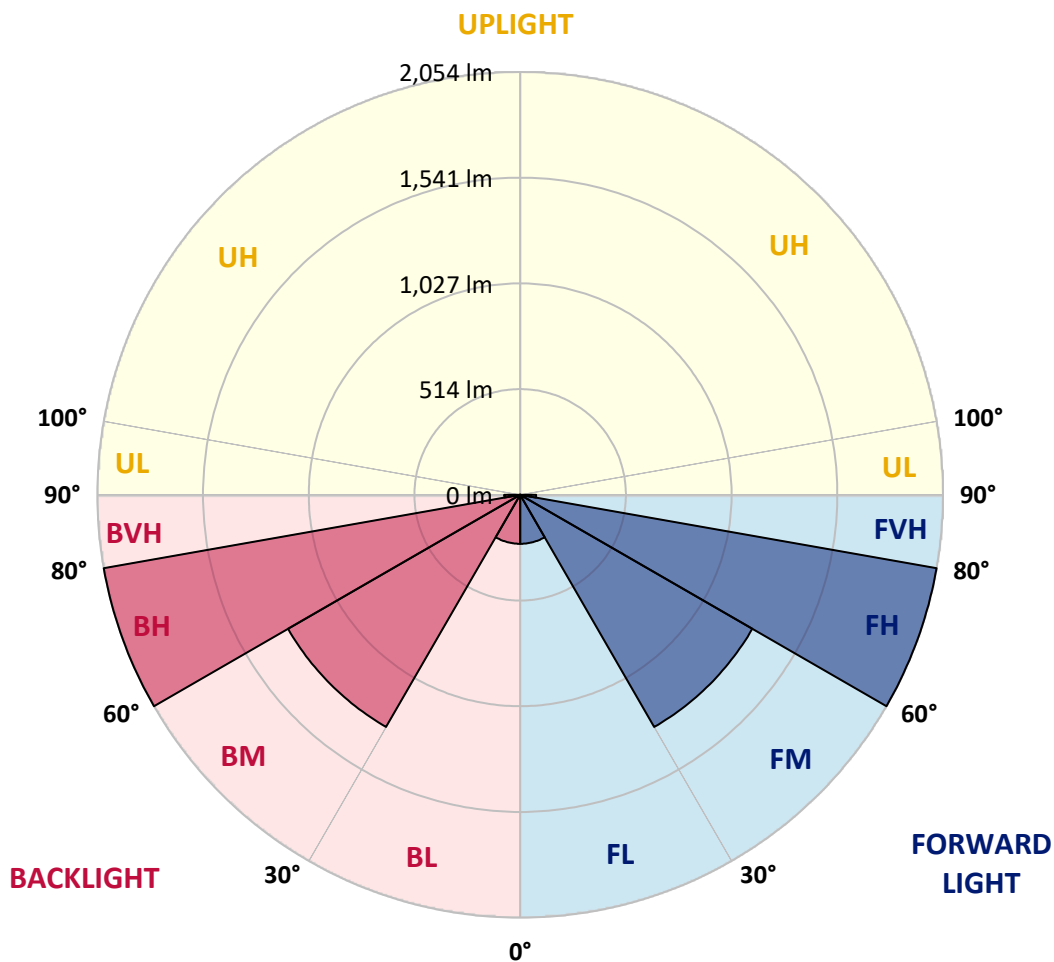
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.0	3.2			
FM (30°-60°)	1302.1	17.7			
FH (60°-80°)	2054.1	28.0			G2/5000
FVH (80°-90°)	77.6	1.1			G1/100
BL (0°-30°)	238.0	3.2	B1/500		
BM (30°-60°)	1302.1	17.7	B2/2500		
BH (60°-80°)	2054.1	28.0	B3/2500		G2/5000
BVH (80°-90°)	77.6	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°	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9
2.5°	519.9	520.4	520.7	520.4	520.4	519.9	519.7	519.9	519.7	519.0	519.4
5°	521.7	522.4	522.4	521.7	522.0	521.7	521.0	521.3	520.7	519.7	519.7
7.5°	523.7	524.2	524.2	523.4	523.7	523.1	522.4	522.0	521.3	519.9	519.0
10°	526.8	527.0	526.8	526.0	526.0	525.1	523.4	522.8	521.3	519.4	518.3
12.5°	530.1	530.4	530.1	529.6	529.1	527.5	526.0	525.1	524.2	522.4	520.7
15°	534.9	535.5	534.9	533.6	532.4	531.2	530.4	530.8	531.2	529.8	528.2
17.5°	543.7	544.0	542.9	539.9	538.5	537.1	537.1	537.8	539.0	538.3	536.6
20°	559.7	558.7	556.4	552.6	551.0	548.7	548.3	548.7	548.7	548.3	547.0
22.5°	579.9	579.2	576.3	571.5	569.2	567.9	565.8	564.1	563.9	562.8	561.5
25°	604.2	603.9	600.2	596.1	594.5	592.8	591.1	588.7	586.8	584.3	583.0
27.5°	635.2	633.8	628.5	626.5	624.1	623.1	620.6	618.0	616.3	613.4	611.7
30°	669.2	669.2	664.8	664.1	664.1	661.8	659.1	654.4	651.5	648.3	647.4
32.5°	703.3	703.6	699.2	700.6	701.5	703.3	703.9	702.2	700.1	699.9	697.9
35°	752.4	751.2	746.8	747.7	747.4	747.0	747.0	750.8	751.4	752.2	748.1
37.5°	813.3	813.3	809.1	809.1	806.9	805.1	802.2	804.6	808.4	809.4	806.7
40°	883.2	885.5	880.1	879.7	880.3	874.1	870.9	874.7	877.0	881.1	878.1
42.5°	965.3	963.6	958.2	957.6	953.8	951.8	949.1	952.2	955.8	958.5	959.6
45°	1044.1	1042.8	1036.7	1036.7	1033.1	1031.3	1032.6	1037.7	1039.3	1043.1	1046.7
47.5°	1122.0	1120.2	1116.1	1117.9	1118.2	1121.3	1125.5	1130.3	1135.1	1140.0	1141.7
50°	1201.5	1201.8	1197.4	1201.5	1206.5	1214.9	1226.6	1234.5	1244.2	1250.6	1252.5
52.5°	1273.7	1275.1	1279.8	1289.2	1299.4	1315.8	1336.0	1355.0	1371.2	1382.0	1381.2
55°	1360.8	1362.6	1374.1	1390.3	1406.8	1431.8	1461.7	1495.0	1522.0	1537.4	1527.7
57.5°	1471.9	1476.3	1489.0	1510.9	1535.6	1567.8	1609.0	1659.1	1700.9	1721.7	1705.9
60°	1624.5	1627.1	1642.6	1666.8	1696.4	1736.6	1791.5	1858.9	1917.8	1945.4	1927.3
62.5°	1825.4	1830.6	1843.1	1867.5	1897.8	1943.4	2010.3	2094.6	2168.0	2206.4	2165.4
65°	2065.7	2081.8	2092.2	2117.1	2145.4	2193.7	2263.6	2354.0	2432.8	2458.0	2410.5
67.5°	2303.4	2317.5	2335.8	2364.3	2393.1	2447.3	2512.2	2599.9	2686.4	2709.3	2635.4
70°	2407.5	2415.6	2443.8	2482.9	2537.8	2601.9	2676.9	2775.4	2882.4	2901.3	2807.7
72.5°	2199.1	2207.0	2238.8	2305.1	2400.8	2502.5	2633.6	2778.0	2919.4	2940.6	2811.7
75°	1663.1	1649.9	1696.8	1784.8	1913.7	2055.5	2238.8	2445.8	2650.3	2676.9	2523.0
77.5°	859.5	857.8	893.3	1002.2	1156.3	1317.5	1519.4	1753.4	1953.5	2034.3	1909.0
80°	242.2	244.9	261.6	315.9	405.9	522.4	679.9	899.3	1063.0	1146.4	1076.3
82.5°	95.0	102.3	108.8	118.8	130.7	147.9	197.4	293.7	394.0	470.8	385.6
85°	34.0	36.4	51.6	60.9	62.0	65.3	74.4	86.9	104.7	125.0	102.8
87.5°	12.8	14.2	16.4	27.3	26.9	24.7	30.0	31.4	23.5	21.6	26.6
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°	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9
2.5°	518.7	519.0	519.0	519.4	519.7	519.7	520.4	520.4
5°	519.0	519.0	518.3	518.7	518.3	518.3	518.7	518.7
7.5°	518.3	518.1	517.3	517.1	516.3	516.3	516.3	516.3
10°	517.3	517.1	516.3	515.9	515.6	515.6	515.6	515.6
12.5°	519.9	519.0	518.3	518.1	518.1	518.1	518.1	518.1
15°	527.0	524.7	523.1	523.1	523.4	524.2	524.2	524.7
17.5°	535.8	533.1	531.4	530.1	530.8	531.8	532.4	533.1
20°	546.3	544.9	542.5	541.3	541.3	542.5	543.3	543.7
22.5°	560.8	559.7	558.7	557.0	557.0	557.8	559.0	559.0
25°	582.3	581.7	581.1	579.6	579.2	579.2	579.9	580.7
27.5°	609.3	609.6	609.0	608.6	607.7	607.3	608.3	608.0
30°	645.3	647.0	648.7	647.4	645.6	644.7	643.6	642.3
32.5°	694.2	692.1	690.7	688.5	685.3	682.7	680.6	678.3
35°	740.4	736.9	735.6	737.6	737.2	735.6	733.2	731.2
37.5°	796.8	796.2	796.8	800.6	799.9	801.6	796.8	796.5
40°	868.3	869.0	873.7	878.1	880.3	882.8	880.1	877.4
42.5°	951.1	950.8	952.6	958.5	962.7	965.3	959.6	958.9
45°	1038.7	1036.4	1037.7	1042.8	1046.7	1049.8	1043.4	1043.4
47.5°	1135.1	1131.0	1126.7	1132.4	1134.6	1136.7	1131.7	1130.0
50°	1242.4	1234.0	1224.6	1226.9	1226.9	1226.4	1219.9	1219.5
52.5°	1365.8	1350.2	1333.1	1326.6	1322.9	1318.9	1307.8	1302.5
55°	1507.5	1484.3	1457.4	1440.8	1432.1	1420.9	1402.4	1397.5
57.5°	1673.3	1636.9	1590.4	1570.1	1550.7	1532.5	1511.9	1506.2
60°	1869.6	1816.1	1754.4	1717.0	1695.8	1678.4	1657.2	1656.0
62.5°	2088.5	2003.9	1934.3	1900.6	1885.2	1869.6	1849.4	1852.0
65°	2311.2	2222.9	2157.5	2130.3	2115.8	2103.0	2082.8	2085.9
67.5°	2530.7	2449.6	2377.9	2349.8	2333.7	2317.5	2299.4	2302.4
70°	2688.4	2587.7	2506.9	2444.8	2406.1	2362.4	2334.1	2327.0
72.5°	2643.3	2487.9	2359.7	2236.7	2164.6	2106.0	2066.3	2049.2
75°	2287.7	2075.4	1910.3	1759.5	1674.6	1605.6	1555.3	1524.1
77.5°	1698.9	1460.4	1265.4	1091.6	954.2	862.0	796.8	754.8
80°	929.9	707.2	517.1	363.5	267.1	221.9	196.0	183.6
82.5°	289.7	186.9	137.8	118.8	110.5	105.8	98.1	85.6
85°	92.3	80.8	75.1	71.8	68.5	59.6	41.1	37.4
87.5°	35.8	36.7	36.4	34.3	35.0	25.2	20.2	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)