

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: P191699

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191699
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-01-LED-U-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 7201 lumens
Efficiency: N/A
Efficacy: 107.5 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): 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: 28.75 FT

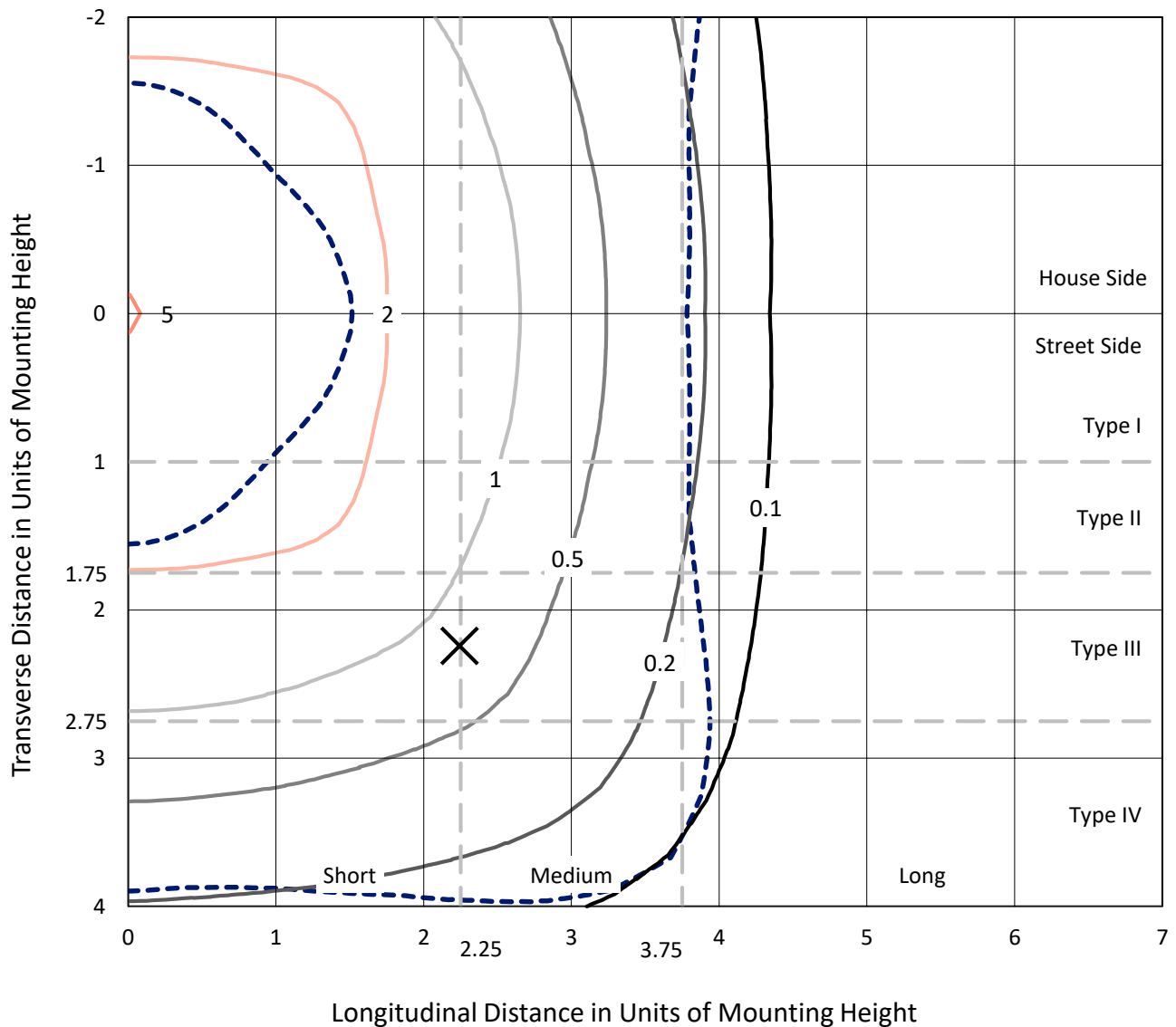


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

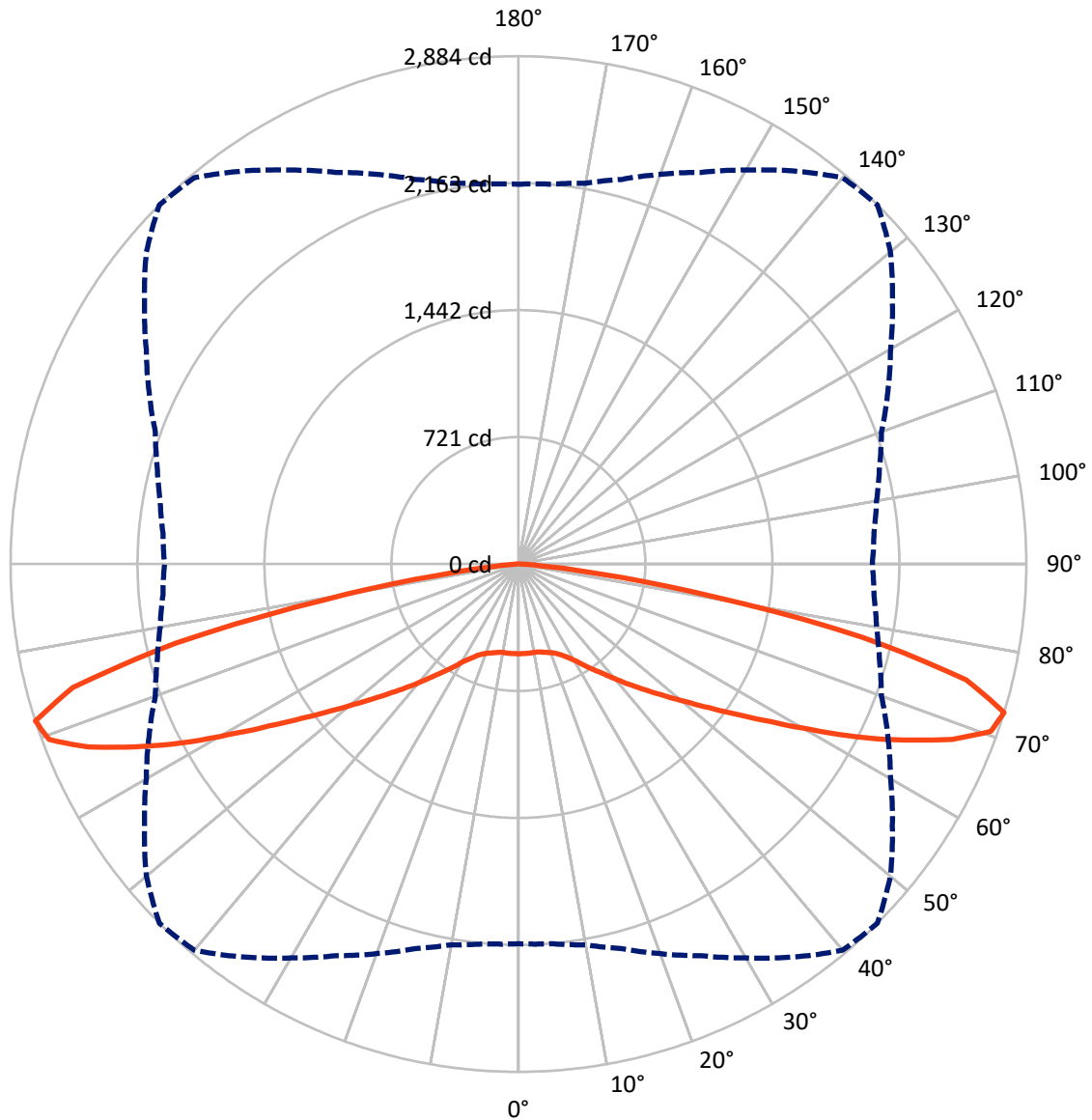


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Semi-Cutoff

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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	3600.5	0.0	3600.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3600.5	0.0	3600.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7201.0	0.0	7201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	0.7
10°-20°	147.9	2.1
20°-30°	270.3	3.8
30°-40°	466.0	6.5
40°-50°	796.6	11.1
50°-60°	1291.1	17.9
60°-70°	2141.9	29.7
70°-80°	1886.5	26.2
80°-90°	152.1	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°	7201.0	100.0
0°-180°	7201.0	100.0



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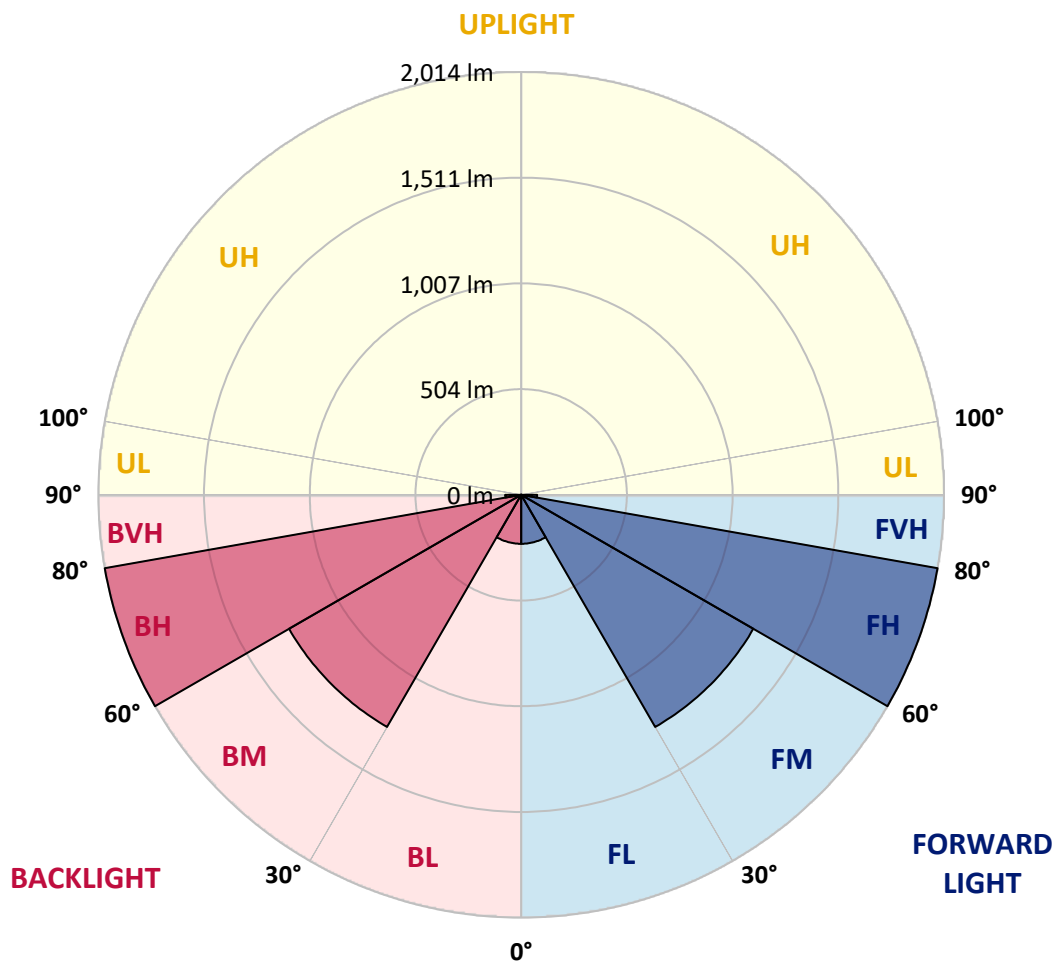
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.4	3.2			
FM (30°-60°)	1276.8	17.7			
FH (60°-80°)	2014.2	28.0			G2/5000
FVH (80°-90°)	76.1	1.1			G1/100
BL (0°-30°)	233.4	3.2	B1/500		
BM (30°-60°)	1276.8	17.7	B2/2500		
BH (60°-80°)	2014.2	28.0	B3/2500		G2/5000
BVH (80°-90°)	76.1	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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	509.9	510.3	510.6	510.3	510.3	509.9	509.6	509.9	509.6	509.0	509.3
5°	511.6	512.3	512.3	511.6	511.9	511.6	510.9	511.3	510.6	509.6	509.6
7.5°	513.6	513.9	513.9	513.2	513.6	512.9	512.3	511.9	511.3	509.9	509.0
10°	516.5	516.9	516.5	515.9	515.9	514.9	513.2	512.6	511.3	509.3	508.3
12.5°	519.9	520.2	519.9	519.2	518.9	517.2	515.9	514.9	513.9	512.3	510.6
15°	524.5	525.1	524.5	523.2	522.2	520.8	520.2	520.5	520.8	519.5	517.9
17.5°	533.1	533.4	532.4	529.4	528.1	526.8	526.8	527.4	528.4	527.8	526.1
20°	548.9	547.9	545.6	542.0	540.3	538.0	537.7	538.0	538.0	537.7	536.4
22.5°	568.7	568.1	565.1	560.5	558.2	556.8	554.9	553.2	552.9	551.9	550.6
25°	592.5	592.2	588.5	584.6	582.9	581.3	579.6	577.3	575.3	573.0	571.7
27.5°	622.9	621.6	616.3	614.3	612.0	611.0	608.7	606.1	604.4	601.4	599.8
30°	656.3	656.3	652.0	651.3	651.3	649.0	646.3	641.7	638.7	635.8	634.8
32.5°	689.6	689.9	685.6	687.0	688.0	689.6	690.3	688.6	686.6	686.3	684.3
35°	737.8	736.5	732.2	733.2	732.9	732.5	732.5	736.2	736.8	737.5	733.5
37.5°	797.6	797.6	793.3	793.3	791.3	789.4	786.7	789.0	792.7	793.6	791.0
40°	866.0	868.3	863.0	862.7	863.3	857.1	854.1	857.7	860.0	864.0	861.0
42.5°	946.6	944.9	939.6	939.0	935.3	933.4	930.7	933.7	937.3	940.0	940.9
45°	1023.8	1022.5	1016.6	1016.6	1012.9	1011.3	1012.6	1017.6	1019.2	1022.9	1026.5
47.5°	1100.1	1098.5	1094.5	1096.2	1096.5	1099.5	1103.8	1108.4	1113.0	1118.0	1119.6
50°	1178.1	1178.4	1174.1	1178.1	1183.0	1191.3	1202.9	1210.5	1220.0	1226.3	1228.3
52.5°	1249.1	1250.4	1255.0	1264.3	1274.2	1290.4	1310.2	1328.7	1344.5	1355.1	1354.5
55°	1334.3	1336.3	1347.5	1363.4	1379.6	1404.0	1433.4	1466.1	1492.5	1507.7	1498.1
57.5°	1443.3	1447.6	1460.1	1481.6	1505.7	1537.4	1577.7	1626.9	1667.9	1688.4	1672.8
60°	1592.9	1595.6	1610.7	1634.5	1663.6	1702.9	1756.7	1822.8	1880.6	1907.7	1889.8
62.5°	1790.1	1795.0	1807.3	1831.4	1861.1	1905.7	1971.4	2054.0	2126.0	2163.6	2123.3
65°	2025.6	2041.4	2051.7	2076.1	2103.8	2151.1	2219.8	2308.3	2385.6	2410.3	2363.8
67.5°	2258.7	2272.6	2290.4	2318.5	2346.6	2399.8	2463.5	2549.4	2634.3	2656.7	2584.4
70°	2360.8	2368.7	2396.5	2434.8	2488.6	2551.4	2625.0	2721.5	2826.5	2845.0	2753.2
72.5°	2156.4	2164.3	2195.3	2260.4	2354.2	2453.9	2582.4	2724.1	2862.8	2883.6	2757.1
75°	1630.9	1618.0	1663.9	1750.1	1876.6	2015.7	2195.3	2398.4	2598.9	2625.0	2474.1
77.5°	842.9	841.2	875.9	982.9	1133.8	1292.0	1489.9	1719.4	1915.6	1994.9	1872.0
80°	237.5	240.1	256.6	309.8	398.0	512.3	666.8	881.8	1042.3	1124.3	1055.6
82.5°	93.1	100.4	106.7	116.6	128.1	145.0	193.5	288.0	386.4	461.7	378.2
85°	33.4	35.7	50.5	59.8	60.8	64.1	73.0	85.2	102.7	122.5	100.7
87.5°	12.6	13.9	16.2	26.8	26.4	24.1	29.4	30.7	23.1	21.1	26.1
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°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	508.6	509.0	509.0	509.3	509.6	509.6	510.3	510.3
5°	509.0	509.0	508.3	508.6	508.3	508.3	508.6	508.6
7.5°	508.3	508.0	507.3	507.0	506.3	506.3	506.3	506.3
10°	507.3	507.0	506.3	506.0	505.6	505.6	505.6	505.6
12.5°	509.9	509.0	508.3	508.0	508.0	508.0	508.0	508.0
15°	516.9	514.6	512.9	512.9	513.2	513.9	513.9	514.6
17.5°	525.5	522.8	521.2	519.9	520.5	521.5	522.2	522.8
20°	535.7	534.4	532.1	530.7	530.7	532.1	532.7	533.1
22.5°	549.9	548.9	547.9	546.3	546.3	546.9	548.3	548.3
25°	571.0	570.4	569.7	568.4	568.1	568.1	568.7	569.4
27.5°	597.5	597.8	597.1	596.8	595.8	595.5	596.5	596.1
30°	632.8	634.5	636.1	634.8	633.1	632.1	631.2	629.8
32.5°	680.7	678.7	677.4	675.1	672.1	669.5	667.5	665.2
35°	725.9	722.6	721.3	723.3	723.0	721.3	719.0	717.0
37.5°	781.4	780.8	781.4	785.1	784.4	786.1	781.4	781.1
40°	851.4	852.1	856.7	861.0	863.3	865.6	863.0	860.4
42.5°	932.7	932.4	934.0	940.0	943.9	946.6	940.9	940.3
45°	1018.6	1016.3	1017.6	1022.5	1026.5	1029.5	1023.2	1023.2
47.5°	1113.0	1109.1	1104.8	1110.4	1112.7	1114.7	1109.7	1108.1
50°	1218.4	1210.1	1200.9	1203.2	1203.2	1202.5	1196.3	1195.9
52.5°	1339.3	1324.1	1307.2	1300.9	1297.3	1293.4	1282.5	1277.2
55°	1478.3	1455.5	1429.1	1412.9	1404.3	1393.4	1375.3	1370.3
57.5°	1640.8	1605.1	1559.6	1539.7	1520.6	1502.7	1482.6	1477.0
60°	1833.3	1780.8	1720.4	1683.7	1662.9	1645.8	1624.9	1624.0
62.5°	2048.0	1965.1	1896.8	1863.7	1848.5	1833.3	1813.5	1816.2
65°	2266.3	2179.8	2115.7	2089.0	2074.8	2062.2	2042.4	2045.4
67.5°	2481.7	2402.1	2331.7	2304.3	2288.5	2272.6	2254.8	2257.8
70°	2636.2	2537.5	2458.2	2397.5	2359.5	2316.5	2288.8	2281.9
72.5°	2592.0	2439.7	2313.9	2193.3	2122.7	2065.2	2026.2	2009.4
75°	2243.2	2035.1	1873.3	1725.4	1642.1	1574.4	1525.2	1494.5
77.5°	1665.9	1432.1	1240.8	1070.4	935.7	845.2	781.4	740.1
80°	911.9	693.6	507.0	356.4	261.9	217.7	192.2	180.0
82.5°	284.0	183.3	135.1	116.6	108.3	103.7	96.1	83.9
85°	90.5	79.3	73.7	70.3	67.0	58.5	40.3	36.7
87.5°	35.0	36.0	35.7	33.7	34.3	24.8	19.8	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)