

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: P268251

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268251
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9005.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 85
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

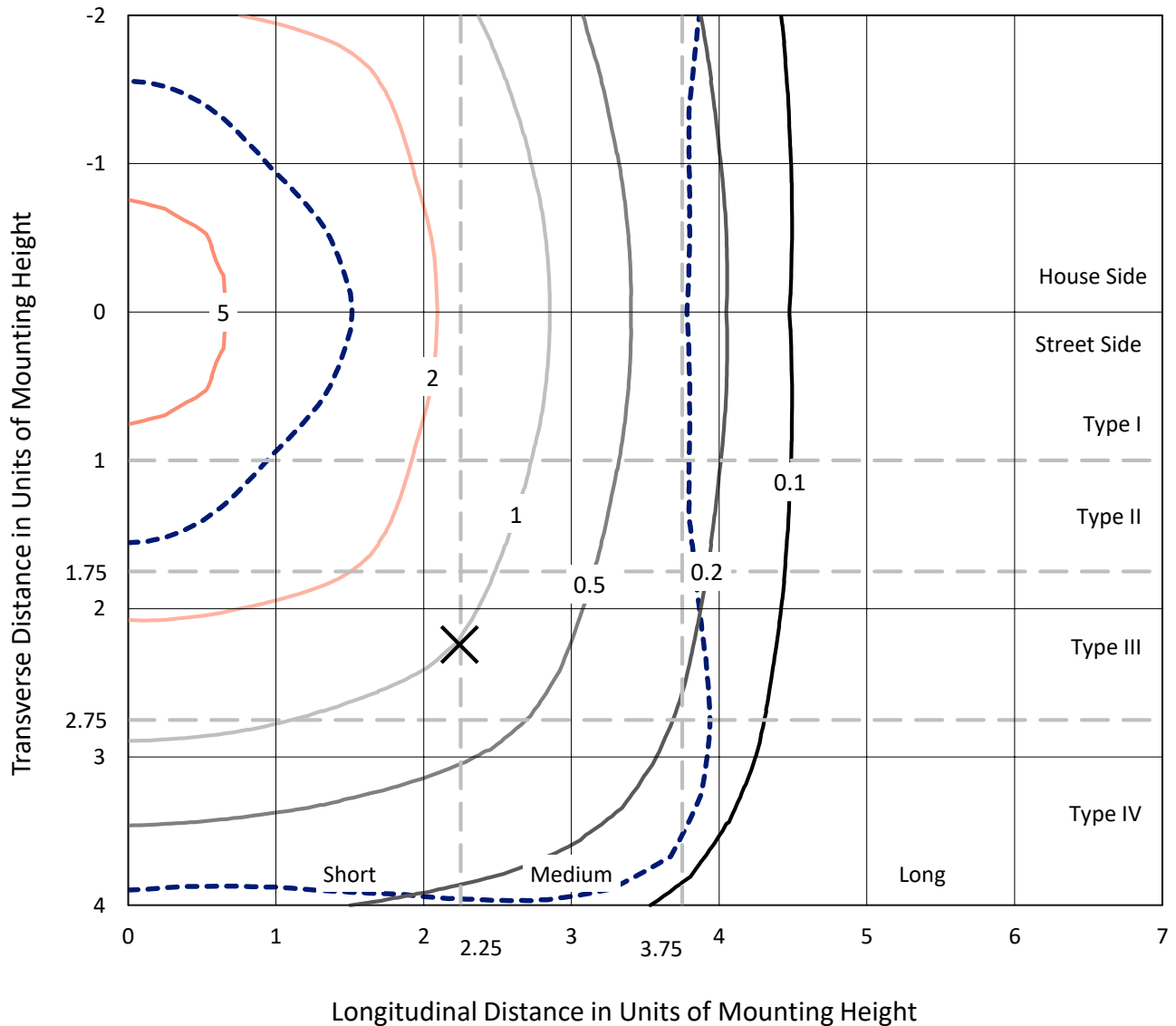


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

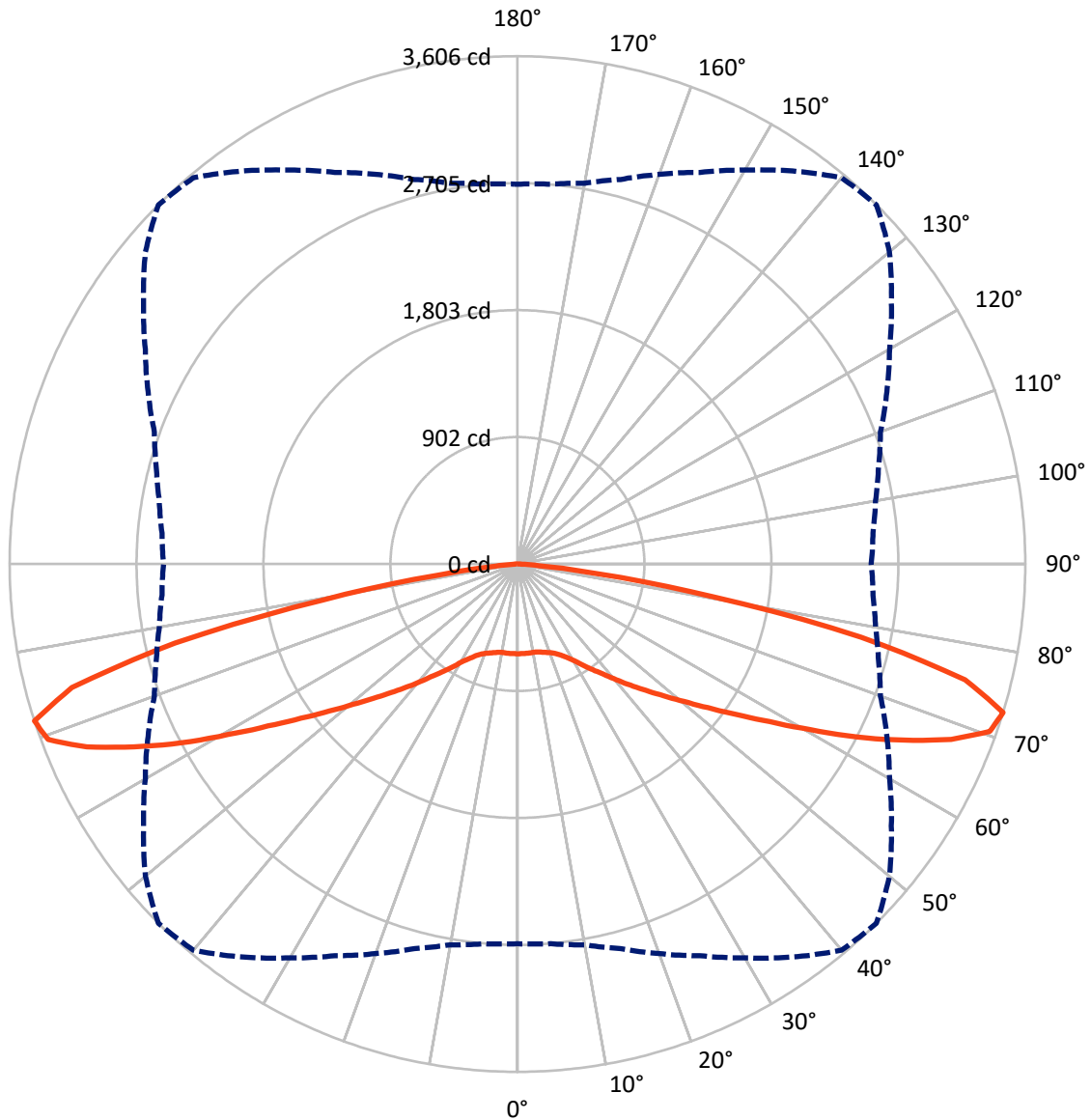


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Semi-Cutoff

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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	4502.5	0.0	4502.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4502.5	0.0	4502.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9005.1	0.0	9005.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	0.7
10°-20°	184.9	2.1
20°-30°	338.0	3.8
30°-40°	582.7	6.5
40°-50°	996.1	11.1
50°-60°	1614.6	17.9
60°-70°	2678.5	29.7
70°-80°	2359.1	26.2
80°-90°	190.2	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°	9005.1	100.0
0°-180°	9005.1	100.0



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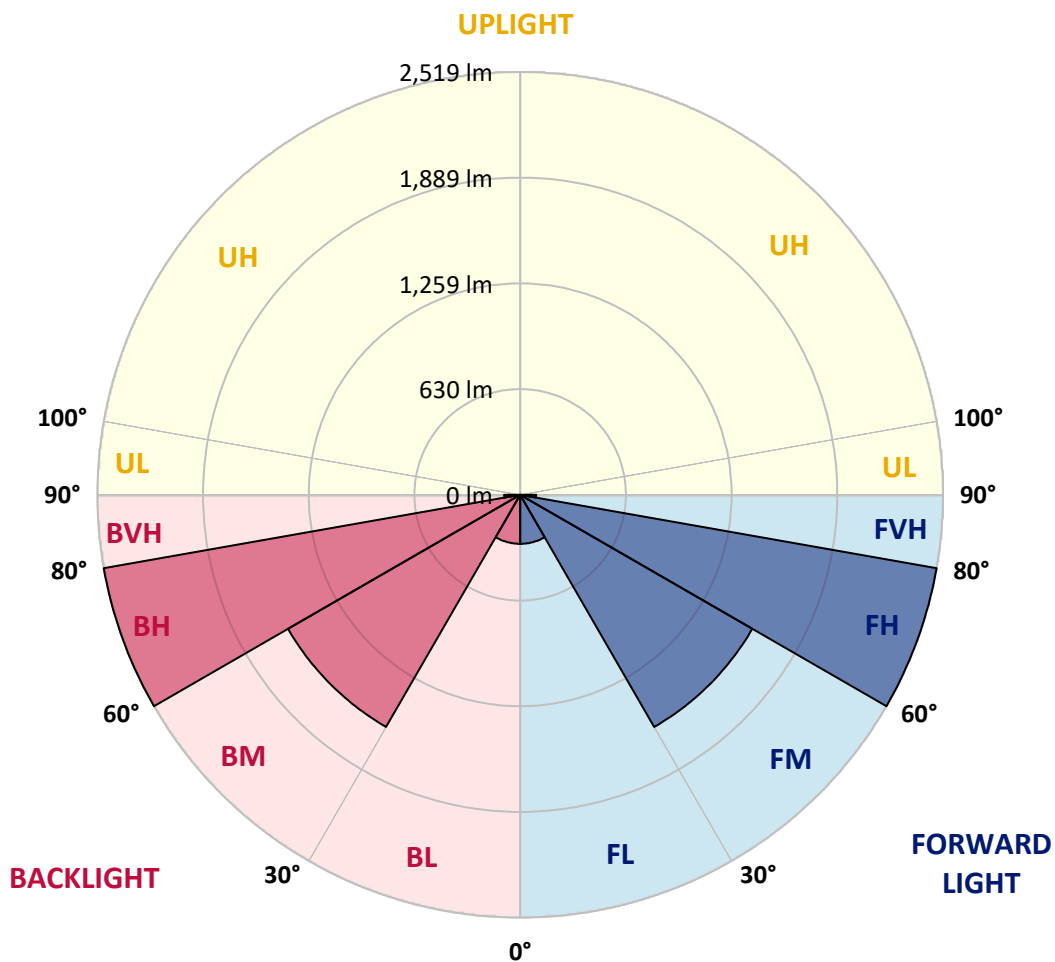
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.9	3.2			
FM	(30°-60°)	1596.7	17.7			
FH	(60°-80°)	2518.8	28.0			G2/5000
FVH	(80°-90°)	95.1	1.1			G1/100
BL	(0°-30°)	291.9	3.2	B1/500		
BM	(30°-60°)	1596.7	17.7	B2/2500		
BH	(60°-80°)	2518.8	28.0	B4/5000		G2/5000
BVH	(80°-90°)	95.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6
2.5°	637.6	638.2	638.5	638.2	638.2	637.6	637.3	637.6	637.3	636.4	636.9
5°	639.8	640.6	640.6	639.8	640.2	639.8	639.0	639.4	638.5	637.3	637.3
7.5°	642.3	642.6	642.6	641.7	642.3	641.4	640.6	640.2	639.4	637.6	636.4
10°	645.9	646.4	645.9	645.2	645.2	643.8	641.7	641.0	639.4	636.9	635.6
12.5°	650.2	650.6	650.2	649.3	648.8	646.8	645.2	643.8	642.6	640.6	638.5
15°	655.9	656.8	655.9	654.2	653.0	651.4	650.6	650.9	651.4	649.7	647.6
17.5°	666.6	667.0	665.7	662.1	660.4	658.7	658.7	659.5	660.9	660.1	658.0
20°	686.5	685.1	682.4	677.9	675.6	672.8	672.4	672.8	672.8	672.4	670.8
22.5°	711.2	710.4	706.6	700.9	698.1	696.4	693.9	691.9	691.3	690.2	688.6
25°	740.9	740.6	736.0	731.0	729.0	726.9	724.8	722.0	719.5	716.6	715.0
27.5°	778.9	777.4	770.7	768.2	765.4	764.1	761.3	757.9	755.8	752.2	750.1
30°	820.7	820.7	815.3	814.5	814.5	811.6	808.2	802.5	798.8	795.1	793.8
32.5°	862.5	862.8	857.4	859.0	860.2	862.5	863.2	861.1	858.7	858.2	855.7
35°	922.6	921.0	915.6	916.9	916.5	916.1	916.1	920.7	921.4	922.3	917.3
37.5°	997.5	997.5	992.1	992.1	989.7	987.1	983.9	986.7	991.2	992.4	989.2
40°	1082.9	1085.8	1079.3	1078.9	1079.7	1071.8	1068.1	1072.5	1075.5	1080.4	1076.8
42.5°	1183.6	1181.6	1175.1	1174.3	1169.7	1167.2	1163.8	1167.5	1172.2	1175.4	1176.7
45°	1280.4	1278.6	1271.3	1271.3	1266.7	1264.6	1266.3	1272.4	1274.5	1279.1	1283.7
47.5°	1375.8	1373.7	1368.7	1370.9	1371.3	1374.9	1380.3	1386.1	1391.8	1398.0	1400.2
50°	1473.2	1473.7	1468.3	1473.2	1479.4	1489.7	1504.2	1513.7	1525.7	1533.5	1536.0
52.5°	1562.1	1563.7	1569.5	1581.0	1593.5	1613.6	1638.5	1661.5	1681.4	1694.7	1693.8
55°	1668.6	1671.0	1685.1	1705.0	1725.1	1755.7	1792.5	1833.4	1866.4	1885.5	1873.4
57.5°	1804.9	1810.3	1826.0	1852.8	1882.9	1922.6	1972.9	2034.5	2085.8	2111.3	2092.0
60°	1992.0	1995.2	2014.3	2044.1	2080.4	2129.5	2196.8	2279.4	2351.8	2385.5	2363.4
62.5°	2238.5	2244.8	2260.0	2290.1	2327.4	2383.2	2465.3	2568.6	2658.7	2705.7	2655.3
65°	2533.0	2552.9	2565.6	2596.2	2631.0	2690.0	2775.9	2886.6	2983.2	3014.3	2956.0
67.5°	2824.6	2842.0	2864.2	2899.4	2934.6	3001.0	3080.6	3188.1	3294.3	3322.3	3231.8
70°	2952.3	2962.3	2996.8	3044.7	3112.1	3190.6	3282.6	3403.3	3534.7	3557.7	3442.9
72.5°	2696.6	2706.6	2745.3	2826.6	2943.9	3068.7	3229.3	3406.6	3580.0	3606.1	3447.9
75°	2039.5	2023.4	2080.7	2188.6	2346.7	2520.6	2745.3	2999.4	3250.1	3282.6	3093.9
77.5°	1054.0	1051.9	1095.4	1229.2	1417.9	1615.7	1863.2	2150.2	2395.5	2494.7	2341.1
80°	297.0	300.3	321.0	387.3	497.8	640.6	833.8	1102.8	1303.5	1405.8	1320.0
82.5°	116.5	125.6	133.4	145.7	160.3	181.3	242.1	360.1	483.2	577.4	472.9
85°	41.7	44.6	63.2	74.7	75.9	80.0	91.3	106.5	128.5	153.3	125.9
87.5°	15.7	17.3	20.2	33.4	33.1	30.2	36.8	38.4	28.9	26.4	32.6
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°	637.6	637.6	637.6	637.6	637.6	637.6	637.6	637.6
2.5°	636.0	636.4	636.4	636.9	637.3	637.3	638.2	638.2
5°	636.4	636.4	635.6	636.0	635.6	635.6	636.0	636.0
7.5°	635.6	635.2	634.5	633.9	633.1	633.1	633.1	633.1
10°	634.5	633.9	633.1	632.8	632.3	632.3	632.3	632.3
12.5°	637.6	636.4	635.6	635.2	635.2	635.2	635.2	635.2
15°	646.4	643.5	641.4	641.4	641.7	642.6	642.6	643.5
17.5°	657.1	653.7	651.7	650.2	650.9	652.2	653.0	653.7
20°	670.0	668.2	665.4	663.7	663.7	665.4	666.3	666.6
22.5°	687.7	686.5	685.1	683.2	683.2	684.0	685.5	685.5
25°	714.2	713.3	712.4	710.7	710.4	710.4	711.2	712.0
27.5°	747.1	747.6	746.8	746.3	745.1	744.7	746.0	745.6
30°	791.3	793.5	795.4	793.8	791.8	790.5	789.3	787.6
32.5°	851.2	848.8	847.1	844.1	840.5	837.2	834.7	831.8
35°	907.7	903.7	902.1	904.6	904.1	902.1	899.2	896.7
37.5°	977.1	976.4	977.1	981.8	980.9	982.9	977.1	976.7
40°	1064.9	1065.6	1071.4	1076.8	1079.7	1082.5	1079.3	1075.9
42.5°	1166.4	1166.0	1168.1	1175.4	1180.5	1183.6	1176.7	1175.8
45°	1273.7	1270.8	1272.4	1278.6	1283.7	1287.5	1279.5	1279.5
47.5°	1391.8	1387.0	1381.6	1388.6	1391.5	1393.9	1387.7	1385.6
50°	1523.6	1513.4	1501.7	1504.7	1504.7	1503.9	1495.9	1495.6
52.5°	1674.8	1655.8	1634.7	1626.9	1622.2	1617.4	1603.7	1597.1
55°	1848.7	1820.1	1787.2	1766.8	1756.1	1742.5	1719.8	1713.5
57.5°	2051.9	2007.3	1950.3	1925.4	1901.5	1879.3	1854.0	1847.0
60°	2292.7	2227.0	2151.4	2105.5	2079.5	2058.0	2032.1	2030.8
62.5°	2561.2	2457.5	2372.0	2330.7	2311.7	2292.7	2268.0	2271.2
65°	2834.2	2725.9	2645.8	2612.4	2594.6	2578.9	2554.2	2557.8
67.5°	3103.5	3003.9	2915.9	2881.7	2861.8	2842.0	2819.7	2823.5
70°	3296.7	3173.3	3074.1	2998.2	2950.7	2896.9	2862.2	2853.6
72.5°	3241.4	3051.0	2893.6	2742.9	2654.5	2582.5	2533.8	2512.7
75°	2805.1	2545.0	2342.6	2157.5	2053.5	1968.8	1907.3	1869.0
77.5°	2083.3	1790.9	1551.7	1338.6	1170.1	1056.9	977.1	925.6
80°	1140.4	867.4	633.9	445.6	327.5	272.1	240.3	225.0
82.5°	355.2	229.2	168.9	145.7	135.5	129.6	120.3	104.9
85°	113.1	99.2	92.0	87.9	83.8	73.1	50.3	45.9
87.5°	43.7	45.0	44.6	42.1	42.9	31.0	24.8	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)