

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: P190870

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190870
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 8646 lumens
Efficiency: N/A
Efficacy: 131.0 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

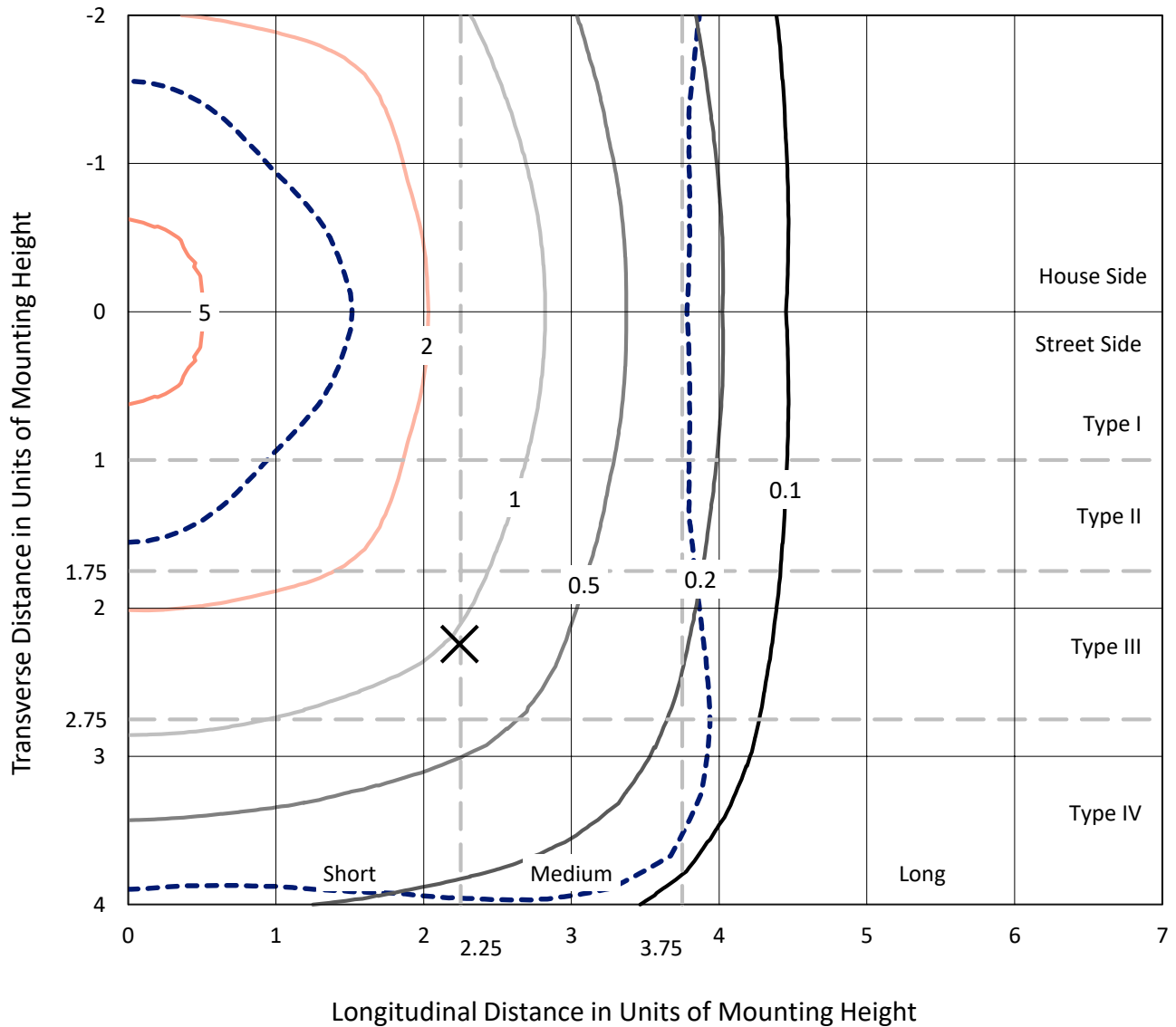
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

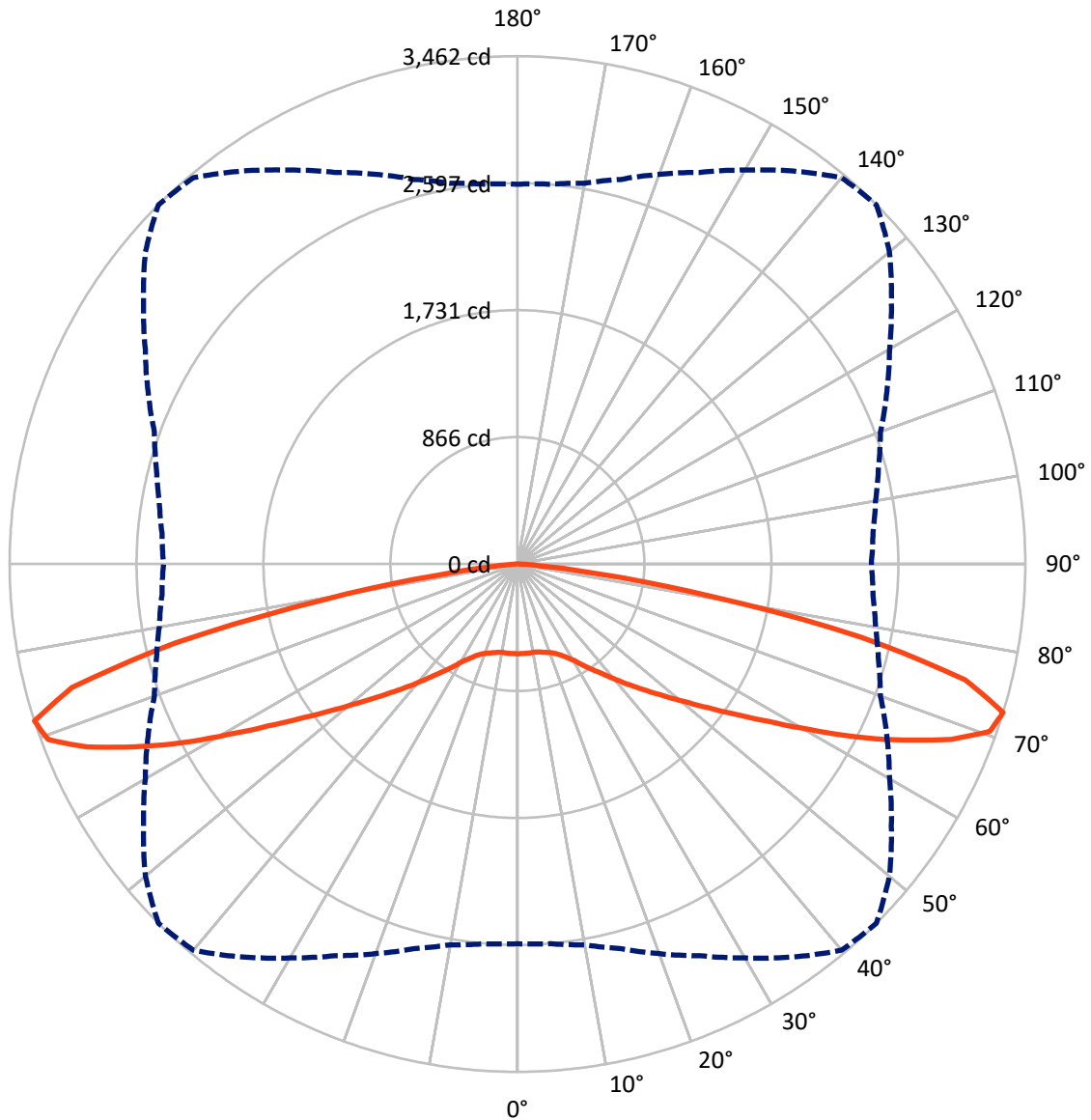
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	4323.0	0.0	4323.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4323.0	0.0	4323.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8646.0	0.0	8646.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	0.7
10°-20°	177.6	2.1
20°-30°	324.5	3.8
30°-40°	559.5	6.5
40°-50°	956.4	11.1
50°-60°	1550.2	17.9
60°-70°	2571.7	29.7
70°-80°	2265.1	26.2
80°-90°	182.6	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°	8646.0	100.0
0°-180°	8646.0	100.0



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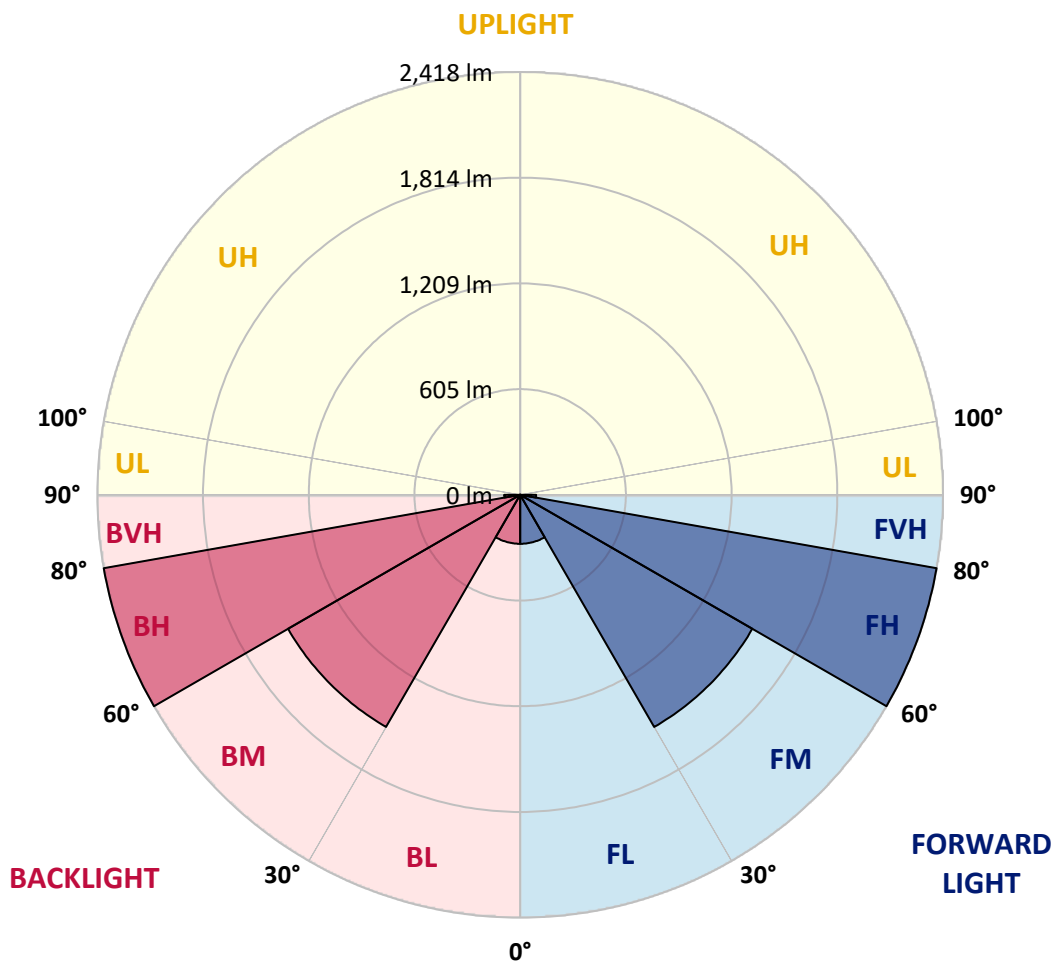
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.3	3.2			
FM	(30°-60°)	1533.0	17.7			
FH	(60°-80°)	2418.4	28.0			G2/5000
FVH	(80°-90°)	91.3	1.1			G1/100
BL	(0°-30°)	280.3	3.2	B1/500		
BM	(30°-60°)	1533.0	17.7	B2/2500		
BH	(60°-80°)	2418.4	28.0	B3/2500		G2/5000
BVH	(80°-90°)	91.3	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°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2
2.5°	612.2	612.6	613.1	612.6	612.6	612.2	611.8	612.2	611.8	611.1	611.5
5°	614.3	615.0	615.0	614.3	614.7	614.3	613.5	613.9	613.1	611.8	611.8
7.5°	616.6	617.0	617.0	616.2	616.6	615.8	615.0	614.7	613.9	612.2	611.1
10°	620.2	620.6	620.2	619.4	619.4	618.2	616.2	615.4	613.9	611.5	610.3
12.5°	624.2	624.6	624.2	623.4	623.0	621.0	619.4	618.2	617.0	615.0	613.1
15°	629.7	630.5	629.7	628.1	627.0	625.3	624.6	624.9	625.3	623.8	621.7
17.5°	640.1	640.5	639.2	635.7	634.1	632.5	632.5	633.3	634.4	633.7	631.7
20°	659.1	657.9	655.1	650.7	648.8	646.0	645.6	646.0	646.0	645.6	643.9
22.5°	682.8	682.1	678.5	672.9	670.1	668.6	666.2	664.2	663.8	662.7	661.0
25°	711.4	711.1	706.7	701.8	699.9	698.0	695.9	693.2	690.8	688.0	686.4
27.5°	747.9	746.3	740.0	737.5	734.8	733.7	730.8	727.6	725.7	722.1	720.2
30°	788.0	788.0	782.8	781.9	781.9	779.2	776.0	770.5	766.9	763.3	762.2
32.5°	828.0	828.4	823.3	824.8	826.0	828.0	828.8	826.9	824.4	824.0	821.6
35°	885.9	884.3	879.1	880.4	879.9	879.5	879.5	883.9	884.6	885.5	880.8
37.5°	957.7	957.7	952.5	952.5	950.1	947.8	944.6	947.4	951.8	952.9	949.7
40°	1039.7	1042.5	1036.1	1035.7	1036.6	1029.1	1025.5	1029.8	1032.6	1037.4	1033.8
42.5°	1136.5	1134.6	1128.2	1127.4	1123.0	1120.6	1117.5	1121.1	1125.5	1128.6	1129.7
45°	1229.3	1227.7	1220.6	1220.6	1216.2	1214.2	1215.8	1221.8	1223.8	1228.2	1232.5
47.5°	1320.9	1318.9	1314.2	1316.1	1316.5	1320.1	1325.2	1330.9	1336.4	1342.3	1344.3
50°	1414.5	1414.8	1409.7	1414.5	1420.5	1430.4	1444.2	1453.3	1464.9	1472.3	1474.8
52.5°	1499.7	1501.3	1506.9	1518.0	1529.9	1549.4	1573.1	1595.3	1614.3	1627.0	1626.3
55°	1602.0	1604.4	1617.9	1636.9	1656.4	1685.7	1721.0	1760.3	1792.0	1810.2	1798.8
57.5°	1732.9	1738.1	1753.1	1778.9	1807.9	1845.9	1894.3	1953.4	2002.5	2027.2	2008.6
60°	1912.5	1915.7	1934.0	1962.5	1997.4	2044.6	2109.2	2188.5	2258.0	2290.5	2269.0
62.5°	2149.3	2155.3	2169.9	2198.8	2234.5	2288.0	2367.0	2466.1	2552.6	2597.8	2549.4
65°	2432.1	2451.1	2463.4	2492.7	2526.0	2582.7	2665.2	2771.5	2864.3	2894.0	2838.1
67.5°	2711.9	2728.6	2750.1	2783.8	2817.5	2881.3	2957.9	3061.0	3162.9	3189.9	3103.0
70°	2834.5	2844.0	2877.4	2923.4	2987.9	3063.3	3151.7	3267.5	3393.6	3415.8	3305.7
72.5°	2589.1	2598.6	2635.8	2714.0	2826.6	2946.3	3100.6	3270.7	3437.3	3462.3	3310.4
75°	1958.1	1942.7	1997.8	2101.3	2253.2	2420.1	2635.8	2879.7	3120.4	3151.7	2970.5
77.5°	1012.0	1010.0	1051.7	1180.1	1361.3	1551.3	1788.8	2064.4	2300.0	2395.1	2247.6
80°	285.1	288.3	308.1	371.9	477.8	615.0	800.7	1058.8	1251.5	1349.9	1267.3
82.5°	111.8	120.5	128.1	139.9	153.9	174.1	232.4	345.8	464.0	554.3	454.1
85°	40.1	42.9	60.7	71.8	72.9	76.9	87.7	102.3	123.4	147.1	120.9
87.5°	15.0	16.7	19.4	32.1	31.7	28.9	35.3	36.9	27.7	25.4	31.3
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°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2
2.5°	610.7	611.1	611.1	611.5	611.8	611.8	612.6	612.6
5°	611.1	611.1	610.3	610.7	610.3	610.3	610.7	610.7
7.5°	610.3	609.9	609.1	608.7	607.9	607.9	607.9	607.9
10°	609.1	608.7	607.9	607.5	607.1	607.1	607.1	607.1
12.5°	612.2	611.1	610.3	609.9	609.9	609.9	609.9	609.9
15°	620.6	617.9	615.8	615.8	616.2	617.0	617.0	617.9
17.5°	631.0	627.8	625.7	624.2	624.9	626.1	627.0	627.8
20°	643.2	641.6	638.8	637.3	637.3	638.8	639.7	640.1
22.5°	660.2	659.1	657.9	655.9	655.9	656.6	658.3	658.3
25°	685.6	684.9	684.0	682.4	682.1	682.1	682.8	683.6
27.5°	717.4	717.7	717.0	716.6	715.3	714.9	716.2	715.8
30°	759.7	761.8	763.7	762.2	760.2	759.0	757.8	756.3
32.5°	817.2	814.9	813.3	810.6	807.0	803.8	801.4	798.6
35°	871.7	867.7	866.0	868.5	868.1	866.0	863.3	860.9
37.5°	938.3	937.4	938.3	942.5	941.8	943.8	938.3	937.8
40°	1022.3	1023.1	1028.7	1033.8	1036.6	1039.3	1036.1	1033.0
42.5°	1119.8	1119.4	1121.5	1128.6	1133.3	1136.5	1129.7	1128.9
45°	1222.9	1220.2	1221.8	1227.7	1232.5	1236.0	1228.5	1228.5
47.5°	1336.4	1331.6	1326.5	1333.2	1336.0	1338.3	1332.4	1330.4
50°	1462.8	1453.0	1441.8	1444.6	1444.6	1443.8	1436.3	1435.9
52.5°	1608.0	1589.8	1569.5	1562.0	1557.6	1552.8	1539.7	1533.4
55°	1774.9	1747.6	1715.9	1696.5	1686.1	1673.0	1651.2	1645.3
57.5°	1970.0	1927.2	1872.5	1848.7	1825.7	1804.3	1780.1	1773.4
60°	2201.2	2138.2	2065.6	2021.6	1996.6	1976.0	1951.0	1949.8
62.5°	2459.0	2359.4	2277.4	2237.7	2219.5	2201.2	2177.5	2180.6
65°	2721.2	2617.2	2540.3	2508.2	2491.1	2476.1	2452.2	2455.8
67.5°	2979.7	2884.1	2799.6	2766.7	2747.6	2728.6	2707.2	2710.8
70°	3165.2	3046.7	2951.5	2878.6	2833.0	2781.4	2748.1	2739.8
72.5°	3112.1	2929.3	2778.2	2633.5	2548.6	2479.6	2432.8	2412.6
75°	2693.3	2443.5	2249.3	2071.6	1971.6	1890.3	1831.3	1794.4
77.5°	2000.2	1719.5	1489.8	1285.2	1123.4	1014.8	938.3	888.6
80°	1094.9	832.8	608.7	427.9	314.5	261.4	230.8	216.1
82.5°	341.1	220.0	162.1	139.9	130.0	124.5	115.4	100.8
85°	108.6	95.1	88.4	84.5	80.5	70.2	48.4	44.0
87.5°	42.0	43.3	42.9	40.4	41.2	29.8	23.8	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)