

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: P191670

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191670
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 8452 lumens
Efficiency: N/A
Efficacy: 128.1 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

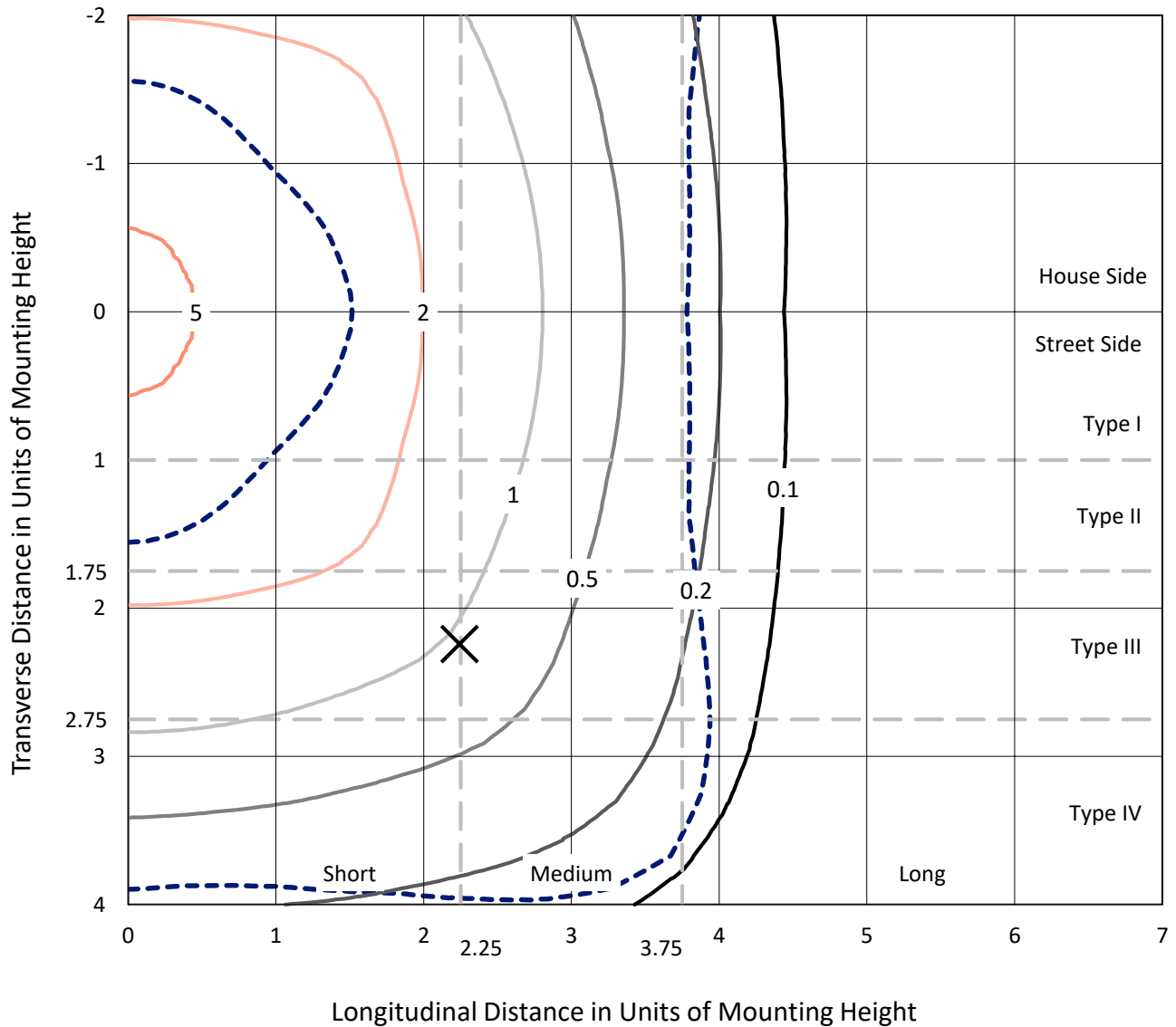


REPORT NUMBER: P191670

CATALOG NUMBER: GLEON-AF-02-LED-E1-5WQ-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

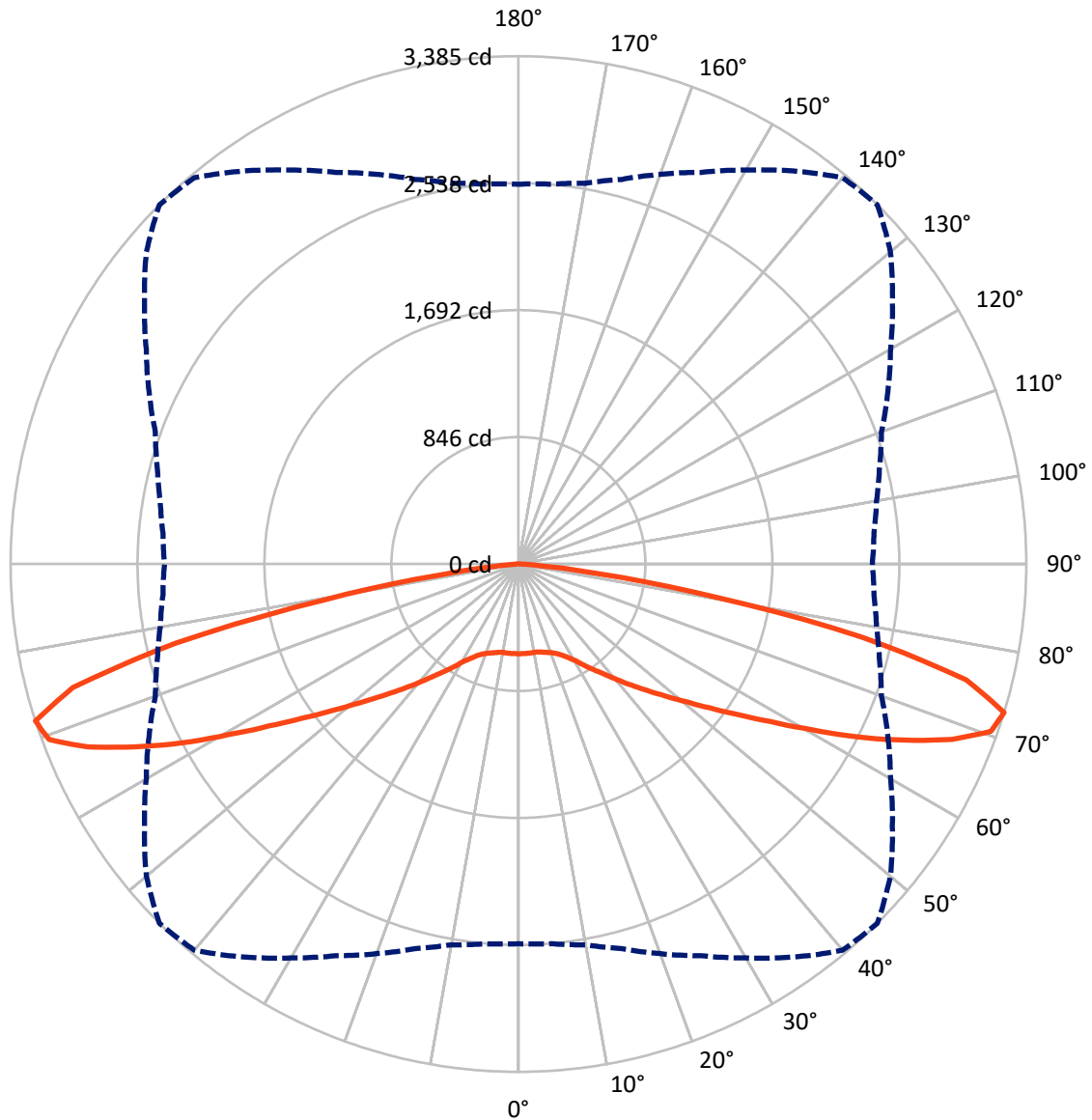


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P191670

CATALOG NUMBER: GLEON-AF-02-LED-E1-5WQ-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P191670

CATALOG NUMBER: GLEON-AF-02-LED-E1-5WQ-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4226.0	0.0	4226.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4226.0	0.0	4226.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8452.0	0.0	8452.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	0.7
10°-20°	173.6	2.1
20°-30°	317.2	3.8
30°-40°	546.9	6.5
40°-50°	934.9	11.1
50°-60°	1515.4	17.9
60°-70°	2514.0	29.7
70°-80°	2214.3	26.2
80°-90°	178.5	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°	8452.0	100.0
0°-180°	8452.0	100.0



REPORT NUMBER: P191670

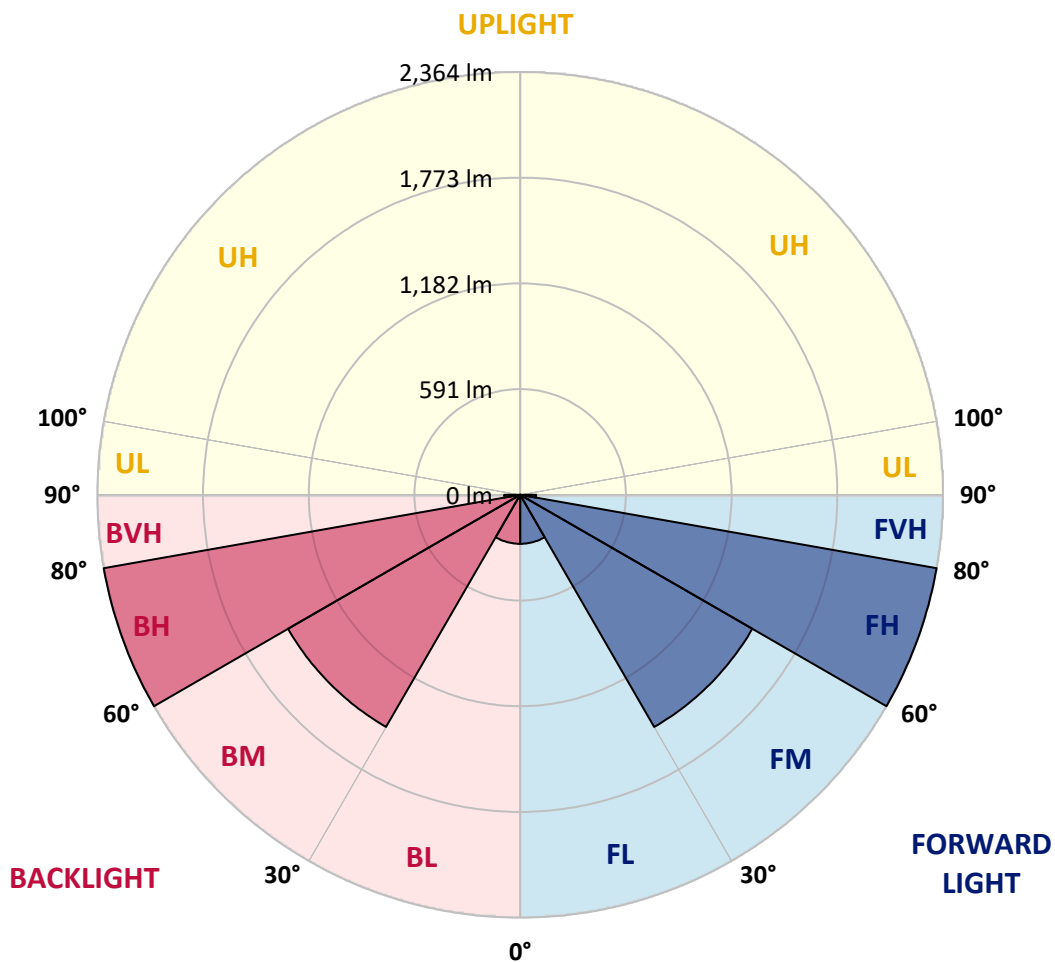
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.0	3.2			
FM (30°-60°)	1498.6	17.7			
FH (60°-80°)	2364.1	28.0			G2/5000
FVH (80°-90°)	89.3	1.1			G1/100
BL (0°-30°)	274.0	3.2	B1/500		
BM (30°-60°)	1498.6	17.7	B2/2500		
BH (60°-80°)	2364.1	28.0	B3/2500		G2/5000
BVH (80°-90°)	89.3	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





REPORT NUMBER: P191670

CATALOG NUMBER: GLEON-AF-02-LED-E1-5WQ-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	598.5	598.9	599.3	598.9	598.9	598.5	598.1	598.5	598.1	597.4	597.8
5°	600.5	601.2	601.2	600.5	600.9	600.5	599.7	600.1	599.3	598.1	598.1
7.5°	602.8	603.2	603.2	602.4	602.8	602.0	601.2	600.9	600.1	598.5	597.4
10°	606.3	606.7	606.3	605.5	605.5	604.3	602.4	601.6	600.1	597.8	596.6
12.5°	610.2	610.6	610.2	609.4	609.0	607.1	605.5	604.3	603.2	601.2	599.3
15°	615.6	616.4	615.6	614.0	612.9	611.3	610.6	610.9	611.3	609.8	607.8
17.5°	625.7	626.1	624.9	621.4	619.9	618.3	618.3	619.1	620.2	619.5	617.5
20°	644.3	643.1	640.4	636.1	634.2	631.5	631.1	631.5	631.5	631.1	629.5
22.5°	667.5	666.8	663.3	657.8	655.1	653.6	651.3	649.3	648.9	647.8	646.2
25°	695.4	695.1	690.8	686.1	684.2	682.3	680.3	677.6	675.3	672.6	671.0
27.5°	731.1	729.6	723.4	721.0	718.3	717.2	714.4	711.3	709.4	705.9	704.0
30°	770.3	770.3	765.2	764.4	764.4	761.7	758.6	753.2	749.7	746.2	745.1
32.5°	809.4	809.8	804.8	806.3	807.5	809.4	810.2	808.3	805.9	805.5	803.2
35°	866.0	864.5	859.4	860.6	860.2	859.8	859.8	864.1	864.8	865.6	861.0
37.5°	936.2	936.2	931.1	931.1	928.8	926.5	923.4	926.1	930.4	931.5	928.4
40°	1016.4	1019.1	1012.9	1012.5	1013.3	1006.0	1002.5	1006.7	1009.4	1014.1	1010.6
42.5°	1111.0	1109.1	1102.9	1102.1	1097.8	1095.5	1092.4	1095.9	1100.2	1103.3	1104.4
45°	1201.7	1200.2	1193.2	1193.2	1188.9	1187.0	1188.5	1194.4	1196.3	1200.6	1204.8
47.5°	1291.3	1289.3	1284.7	1286.6	1287.0	1290.5	1295.5	1301.0	1306.4	1312.2	1314.1
50°	1382.8	1383.1	1378.1	1382.8	1388.6	1398.3	1411.8	1420.7	1432.0	1439.3	1441.7
52.5°	1466.1	1467.6	1473.1	1483.9	1495.6	1514.6	1537.8	1559.5	1578.1	1590.5	1589.8
55°	1566.1	1568.4	1581.6	1600.2	1619.2	1647.9	1682.4	1720.8	1751.8	1769.6	1758.4
57.5°	1694.0	1699.1	1713.8	1739.0	1767.3	1804.5	1851.8	1909.6	1957.6	1981.7	1963.5
60°	1869.6	1872.7	1890.6	1918.5	1952.6	1998.7	2061.9	2139.4	2207.3	2239.1	2218.1
62.5°	2101.1	2106.9	2121.2	2149.5	2184.4	2236.7	2313.9	2410.8	2495.3	2539.5	2492.2
65°	2377.5	2396.1	2408.1	2436.8	2469.3	2524.8	2605.4	2709.3	2800.0	2829.1	2774.4
67.5°	2651.1	2667.4	2688.4	2721.3	2754.3	2816.7	2891.5	2992.3	3091.9	3118.3	3033.4
70°	2770.9	2780.2	2812.8	2857.8	2920.9	2994.6	3081.0	3194.2	3317.5	3339.2	3231.5
72.5°	2531.0	2540.3	2576.7	2653.1	2763.2	2880.2	3031.0	3197.3	3360.2	3384.6	3236.1
75°	1914.2	1899.1	1953.0	2054.2	2202.6	2365.8	2576.7	2815.1	3050.4	3081.0	2903.9
77.5°	989.3	987.3	1028.1	1153.6	1330.8	1516.5	1748.7	2018.1	2248.4	2341.4	2197.2
80°	278.7	281.8	301.2	363.6	467.1	601.2	782.7	1035.0	1223.4	1319.6	1238.9
82.5°	109.3	117.8	125.2	136.8	150.4	170.2	227.2	338.0	453.6	541.9	443.9
85°	39.2	41.9	59.3	70.2	71.3	75.2	85.7	100.0	120.6	143.8	118.2
87.5°	14.7	16.3	19.0	31.4	31.0	28.3	34.5	36.1	27.1	24.8	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191670

CATALOG NUMBER: GLEON-AF-02-LED-E1-5WQ-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
2.5°	597.0	597.4	597.4	597.8	598.1	598.1	598.9	598.9
5°	597.4	597.4	596.6	597.0	596.6	596.6	597.0	597.0
7.5°	596.6	596.2	595.4	595.0	594.3	594.3	594.3	594.3
10°	595.4	595.0	594.3	593.9	593.5	593.5	593.5	593.5
12.5°	598.5	597.4	596.6	596.2	596.2	596.2	596.2	596.2
15°	606.7	604.0	602.0	602.0	602.4	603.2	603.2	604.0
17.5°	616.8	613.7	611.7	610.2	610.9	612.1	612.9	613.7
20°	628.8	627.2	624.5	623.0	623.0	624.5	625.3	625.7
22.5°	645.4	644.3	643.1	641.2	641.2	641.9	643.5	643.5
25°	670.2	669.5	668.7	667.1	666.8	666.8	667.5	668.3
27.5°	701.3	701.6	700.9	700.5	699.3	698.9	700.1	699.7
30°	742.7	744.7	746.6	745.1	743.1	742.0	740.8	739.3
32.5°	798.9	796.6	795.1	792.4	788.9	785.8	783.4	780.7
35°	852.1	848.2	846.6	849.0	848.6	846.6	843.9	841.6
37.5°	917.2	916.4	917.2	921.4	920.7	922.6	917.2	916.8
40°	999.4	1000.1	1005.6	1010.6	1013.3	1016.0	1012.9	1009.8
42.5°	1094.7	1094.3	1096.3	1103.3	1107.9	1111.0	1104.4	1103.6
45°	1195.5	1192.8	1194.4	1200.2	1204.8	1208.3	1200.9	1200.9
47.5°	1306.4	1301.7	1296.7	1303.3	1306.0	1308.3	1302.5	1300.6
50°	1430.0	1420.4	1409.5	1412.2	1412.2	1411.4	1404.1	1403.7
52.5°	1571.9	1554.1	1534.3	1527.0	1522.7	1518.0	1505.2	1499.0
55°	1735.1	1708.4	1677.4	1658.4	1648.3	1635.5	1614.2	1608.4
57.5°	1925.8	1884.0	1830.5	1807.2	1784.7	1763.8	1740.2	1733.6
60°	2151.8	2090.2	2019.3	1976.2	1951.8	1931.7	1907.2	1906.1
62.5°	2403.8	2306.5	2226.3	2187.5	2169.7	2151.8	2128.6	2131.7
65°	2660.1	2558.5	2483.3	2451.9	2435.2	2420.5	2397.2	2400.7
67.5°	2912.8	2819.4	2736.8	2704.6	2686.0	2667.4	2646.5	2650.0
70°	3094.2	2978.3	2885.3	2814.0	2769.4	2719.0	2686.4	2678.3
72.5°	3042.3	2863.6	2715.9	2574.4	2491.4	2424.0	2378.2	2358.5
75°	2632.9	2388.7	2198.8	2025.1	1927.4	1847.9	1790.2	1754.1
77.5°	1955.3	1680.9	1456.4	1256.4	1098.2	992.0	917.2	868.7
80°	1070.3	814.1	595.0	418.3	307.4	255.5	225.6	211.3
82.5°	333.4	215.1	158.5	136.8	127.1	121.7	112.8	98.5
85°	106.2	93.0	86.4	82.6	78.7	68.6	47.3	43.0
87.5°	41.1	42.3	41.9	39.5	40.3	29.1	23.3	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)