

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: P193420

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193420
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 8458 lumens
Efficiency: N/A
Efficacy: 99.5 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): 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: 25 FT

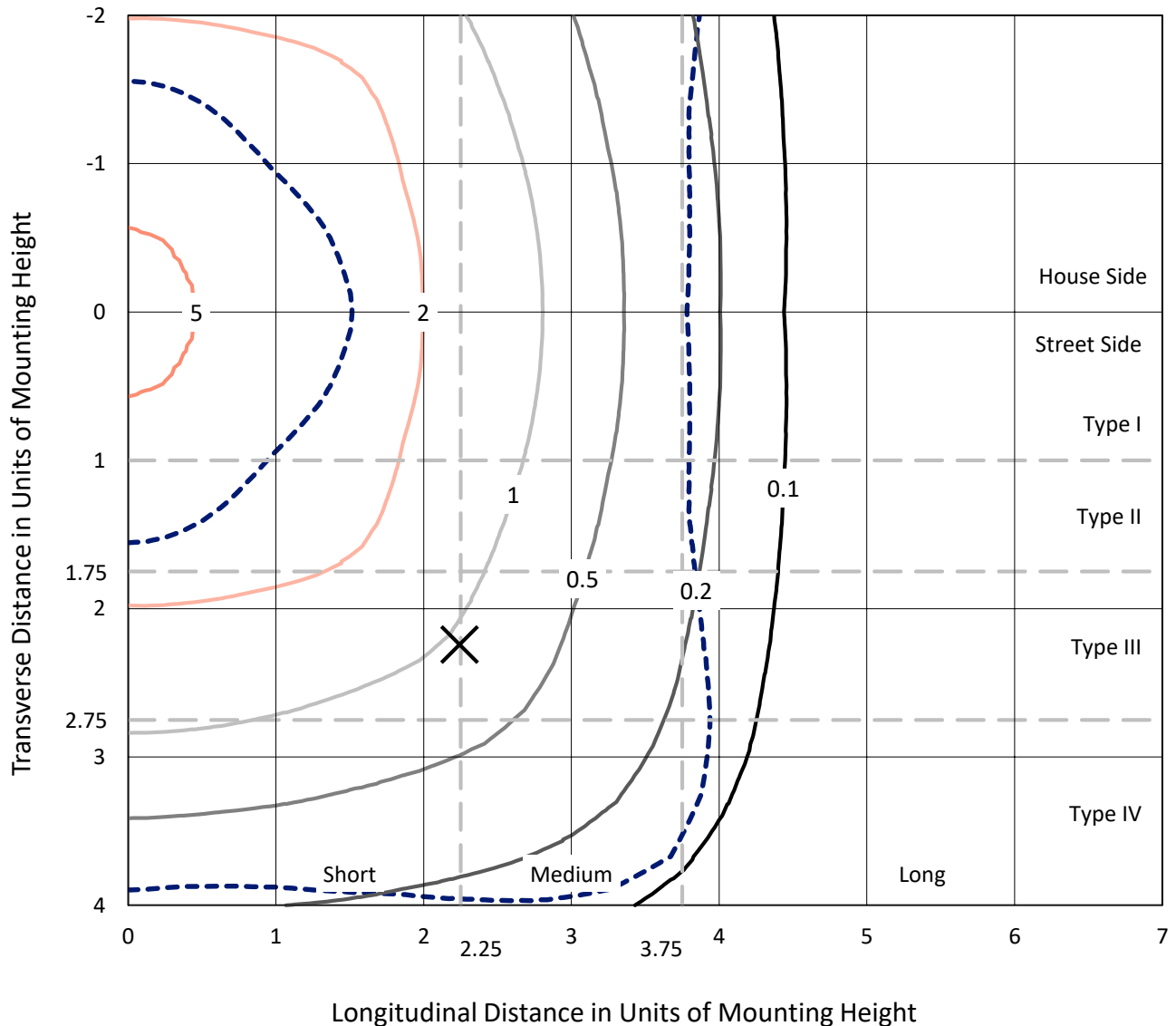


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

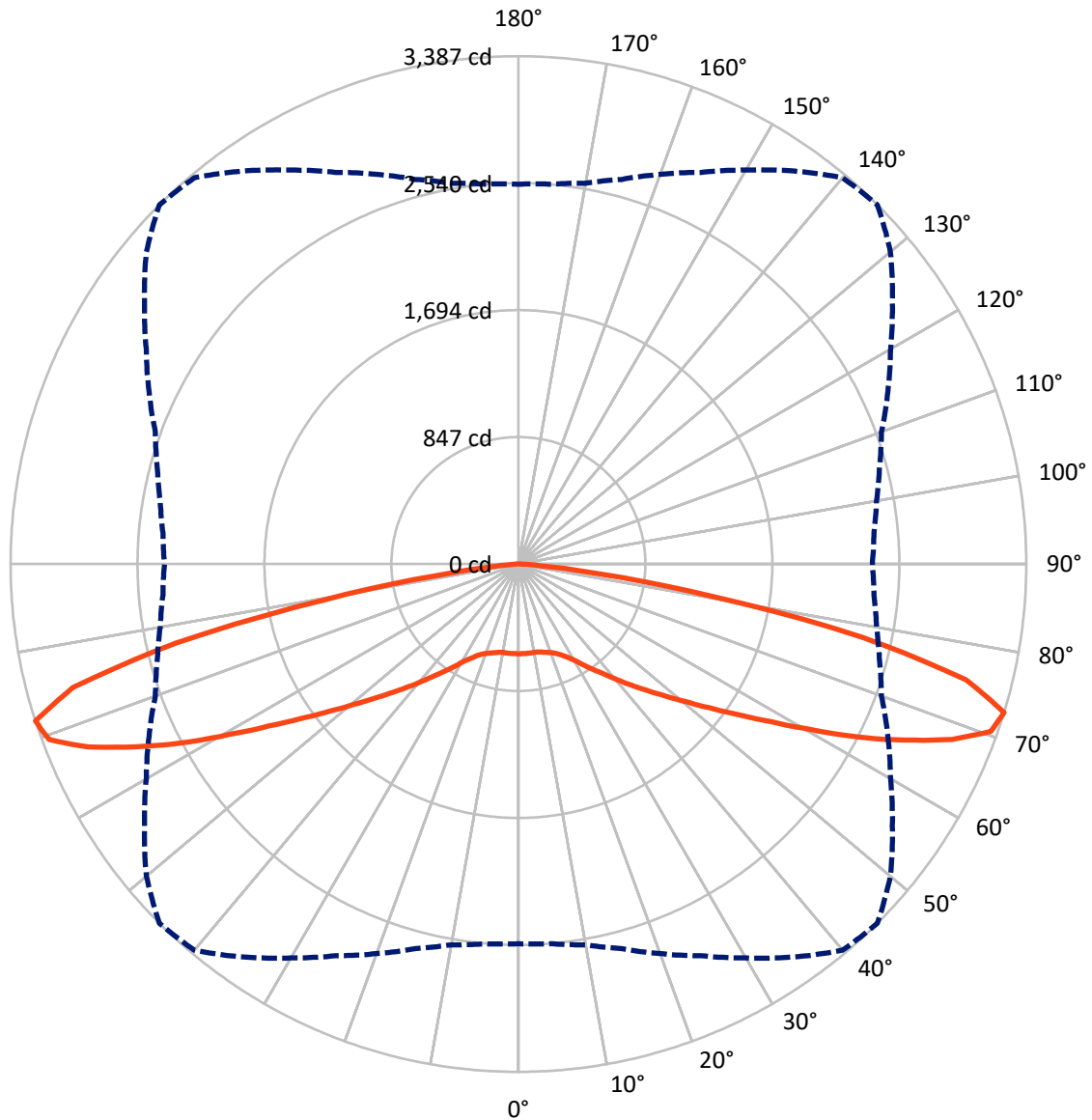


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Semi-Cutoff

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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	4229.0	0.0	4229.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4229.0	0.0	4229.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8458.0	0.0	8458.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	0.7
10°-20°	173.7	2.1
20°-30°	317.4	3.8
30°-40°	547.3	6.5
40°-50°	935.6	11.1
50°-60°	1516.5	17.9
60°-70°	2515.8	29.7
70°-80°	2215.8	26.2
80°-90°	178.7	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°	8458.0	100.0
0°-180°	8458.0	100.0



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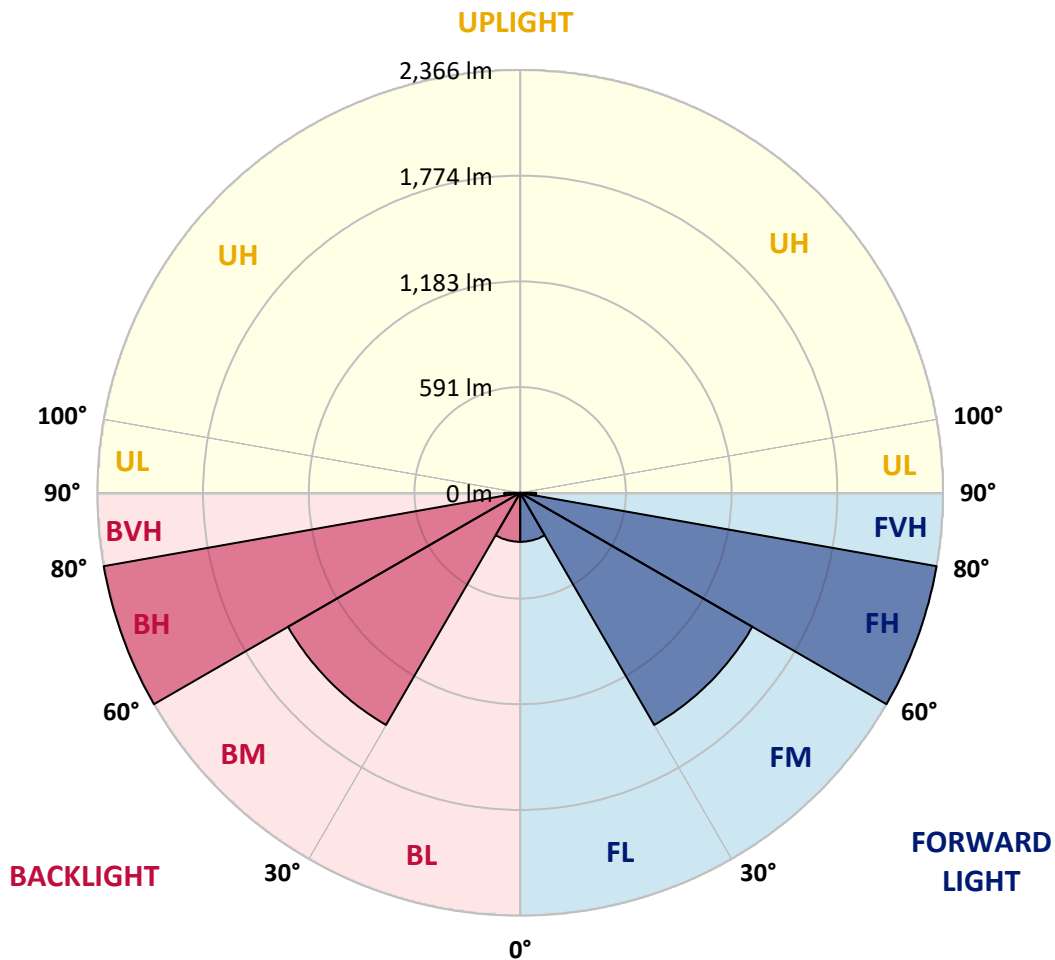
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.2	3.2			
FM (30°-60°)	1499.7	17.7			
FH (60°-80°)	2365.8	28.0			G2/5000
FVH (80°-90°)	89.3	1.1			G1/100
BL (0°-30°)	274.2	3.2	B1/500		
BM (30°-60°)	1499.7	17.7	B2/2500		
BH (60°-80°)	2365.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
2.5°	599.0	599.3	599.7	599.3	599.3	599.0	598.6	599.0	598.6	597.8	598.2
5°	600.9	601.7	601.7	600.9	601.3	600.9	600.1	600.5	599.7	598.6	598.6
7.5°	603.2	603.6	603.6	602.8	603.2	602.4	601.7	601.3	600.5	599.0	597.8
10°	606.7	607.1	606.7	605.9	605.9	604.8	602.8	602.1	600.5	598.2	597.0
12.5°	610.6	611.0	610.6	609.8	609.4	607.5	605.9	604.8	603.6	601.7	599.7
15°	616.0	616.8	616.0	614.5	613.3	611.8	611.0	611.4	611.8	610.2	608.3
17.5°	626.1	626.5	625.3	621.8	620.3	618.7	618.7	619.5	620.7	619.9	618.0
20°	644.7	643.6	640.9	636.6	634.6	631.9	631.5	631.9	631.9	631.5	630.0
22.5°	668.0	667.2	663.7	658.3	655.6	654.0	651.7	649.8	649.4	648.2	646.7
25°	695.9	695.6	691.3	686.6	684.7	682.7	680.8	678.1	675.8	673.1	671.5
27.5°	731.6	730.1	723.9	721.5	718.8	717.7	714.9	711.8	709.9	706.4	704.5
30°	770.8	770.8	765.8	765.0	765.0	762.3	759.2	753.7	750.2	746.8	745.6
32.5°	810.0	810.4	805.3	806.9	808.0	810.0	810.8	808.8	806.5	806.1	803.8
35°	866.6	865.1	860.0	861.2	860.8	860.4	860.4	864.7	865.5	866.2	861.6
37.5°	936.8	936.8	931.8	931.8	929.5	927.1	924.0	926.8	931.0	932.2	929.1
40°	1017.1	1019.9	1013.7	1013.3	1014.0	1006.7	1003.2	1007.4	1010.2	1014.8	1011.3
42.5°	1111.8	1109.9	1103.6	1102.9	1098.6	1096.3	1093.2	1096.7	1100.9	1104.0	1105.2
45°	1202.6	1201.0	1194.0	1194.0	1189.8	1187.8	1189.4	1195.2	1197.1	1201.4	1205.7
47.5°	1292.2	1290.2	1285.6	1287.5	1287.9	1291.4	1296.4	1301.9	1307.3	1313.1	1315.1
50°	1383.7	1384.1	1379.1	1383.7	1389.6	1399.2	1412.8	1421.7	1433.0	1440.4	1442.7
52.5°	1467.1	1468.7	1474.1	1485.0	1496.6	1515.6	1538.9	1560.6	1579.2	1591.7	1590.9
55°	1567.2	1569.5	1582.7	1601.4	1620.4	1649.1	1683.6	1722.0	1753.0	1770.9	1759.6
57.5°	1695.2	1700.3	1715.0	1740.2	1768.6	1805.8	1853.1	1910.9	1959.0	1983.1	1964.8
60°	1871.0	1874.1	1891.9	1919.8	1954.0	2000.1	2063.4	2141.0	2208.9	2240.7	2219.7
62.5°	2102.6	2108.4	2122.7	2151.0	2186.0	2238.3	2315.5	2412.5	2497.1	2541.3	2494.0
65°	2379.2	2397.8	2409.8	2438.5	2471.1	2526.6	2607.3	2711.2	2802.0	2831.1	2776.4
67.5°	2653.0	2669.3	2690.3	2723.2	2756.2	2818.7	2893.5	2994.4	3094.1	3120.5	3035.5
70°	2772.9	2782.2	2814.8	2859.8	2923.0	2996.7	3083.2	3196.5	3319.9	3341.6	3233.8
72.5°	2532.8	2542.1	2578.5	2655.0	2765.1	2882.3	3033.2	3199.6	3362.5	3387.0	3238.4
75°	1915.6	1900.4	1954.4	2055.6	2204.2	2367.5	2578.5	2817.1	3052.6	3083.2	2906.0
77.5°	990.0	988.0	1028.8	1154.5	1331.8	1517.6	1749.9	2019.5	2250.0	2343.1	2198.8
80°	278.9	282.0	301.4	363.9	467.5	601.7	783.2	1035.8	1224.3	1320.5	1239.8
82.5°	109.4	117.9	125.3	136.9	150.5	170.3	227.3	338.3	453.9	542.3	444.2
85°	39.2	41.9	59.4	70.2	71.4	75.3	85.7	100.1	120.6	143.9	118.3
87.5°	14.7	16.3	19.0	31.4	31.0	28.3	34.5	36.1	27.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
2.5°	597.4	597.8	597.8	598.2	598.6	598.6	599.3	599.3
5°	597.8	597.8	597.0	597.4	597.0	597.0	597.4	597.4
7.5°	597.0	596.6	595.9	595.5	594.7	594.7	594.7	594.7
10°	595.9	595.5	594.7	594.3	593.9	593.9	593.9	593.9
12.5°	599.0	597.8	597.0	596.6	596.6	596.6	596.6	596.6
15°	607.1	604.4	602.4	602.4	602.8	603.6	603.6	604.4
17.5°	617.2	614.1	612.1	610.6	611.4	612.5	613.3	614.1
20°	629.2	627.7	624.9	623.4	623.4	624.9	625.7	626.1
22.5°	645.9	644.7	643.6	641.6	641.6	642.4	644.0	644.0
25°	670.7	669.9	669.2	667.6	667.2	667.2	668.0	668.8
27.5°	701.8	702.1	701.4	701.0	699.8	699.4	700.6	700.2
30°	743.3	745.2	747.1	745.6	743.7	742.5	741.3	739.8
32.5°	799.5	797.2	795.6	792.9	789.4	786.3	784.0	781.3
35°	852.7	848.8	847.2	849.6	849.2	847.2	844.5	842.2
37.5°	917.8	917.1	917.8	922.1	921.3	923.3	917.8	917.4
40°	1000.1	1000.8	1006.3	1011.3	1014.0	1016.8	1013.7	1010.5
42.5°	1095.5	1095.1	1097.1	1104.0	1108.7	1111.8	1105.2	1104.4
45°	1196.4	1193.6	1195.2	1201.0	1205.7	1209.2	1201.8	1201.8
47.5°	1307.3	1302.7	1297.6	1304.2	1306.9	1309.3	1303.4	1301.5
50°	1431.1	1421.4	1410.5	1413.2	1413.2	1412.4	1405.1	1404.7
52.5°	1573.0	1555.2	1535.4	1528.0	1523.8	1519.1	1506.3	1500.1
55°	1736.4	1709.6	1678.6	1659.5	1649.5	1636.7	1615.3	1609.5
57.5°	1927.2	1885.3	1831.8	1808.5	1786.0	1765.1	1741.4	1734.8
60°	2153.4	2091.7	2020.7	1977.6	1953.2	1933.0	1908.6	1907.4
62.5°	2405.5	2308.2	2227.9	2189.1	2171.2	2153.4	2130.1	2133.2
65°	2661.9	2560.3	2485.1	2453.6	2437.0	2422.2	2398.9	2402.4
67.5°	2914.9	2821.4	2738.8	2706.6	2687.9	2669.3	2648.4	2651.9
70°	3096.4	2980.4	2887.3	2816.0	2771.3	2720.9	2688.3	2680.2
72.5°	3044.4	2865.6	2717.8	2576.2	2493.2	2425.7	2379.9	2360.1
75°	2634.8	2390.4	2200.3	2026.5	1928.8	1849.2	1791.4	1755.4
77.5°	1956.7	1682.0	1457.4	1257.3	1099.0	992.7	917.8	869.3
80°	1071.1	814.6	595.5	418.6	307.6	255.6	225.8	211.4
82.5°	333.6	215.3	158.7	136.9	127.2	121.8	112.9	98.5
85°	106.3	93.1	86.5	82.6	78.7	68.7	47.3	43.1
87.5°	41.1	42.3	41.9	39.6	40.3	29.1	23.3	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)