

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: P200236

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200236  
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: GWC-AF-02-LED-E1-5WQ-7050-600  
Description: GALLEON WALL 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: 8621 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

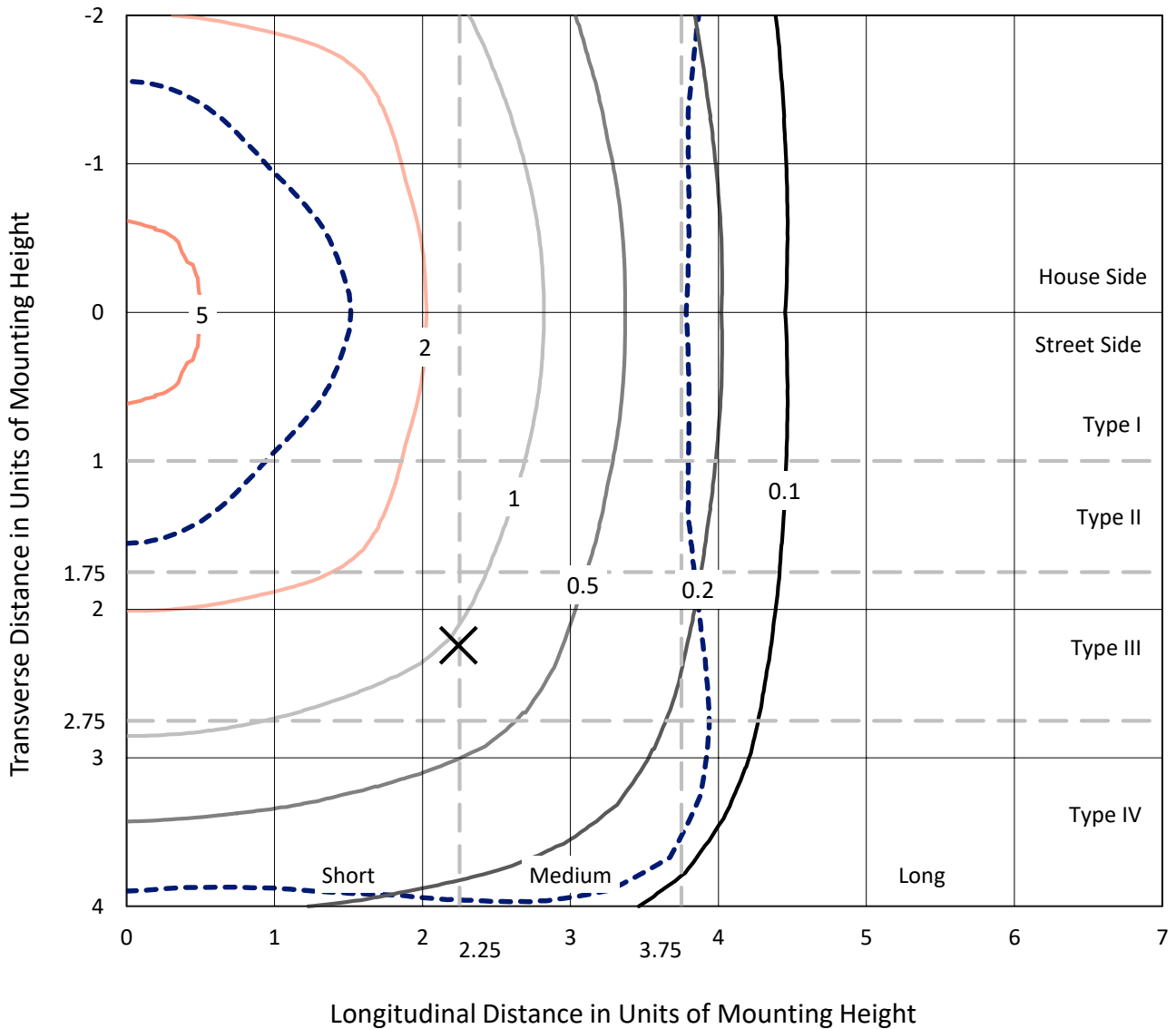


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

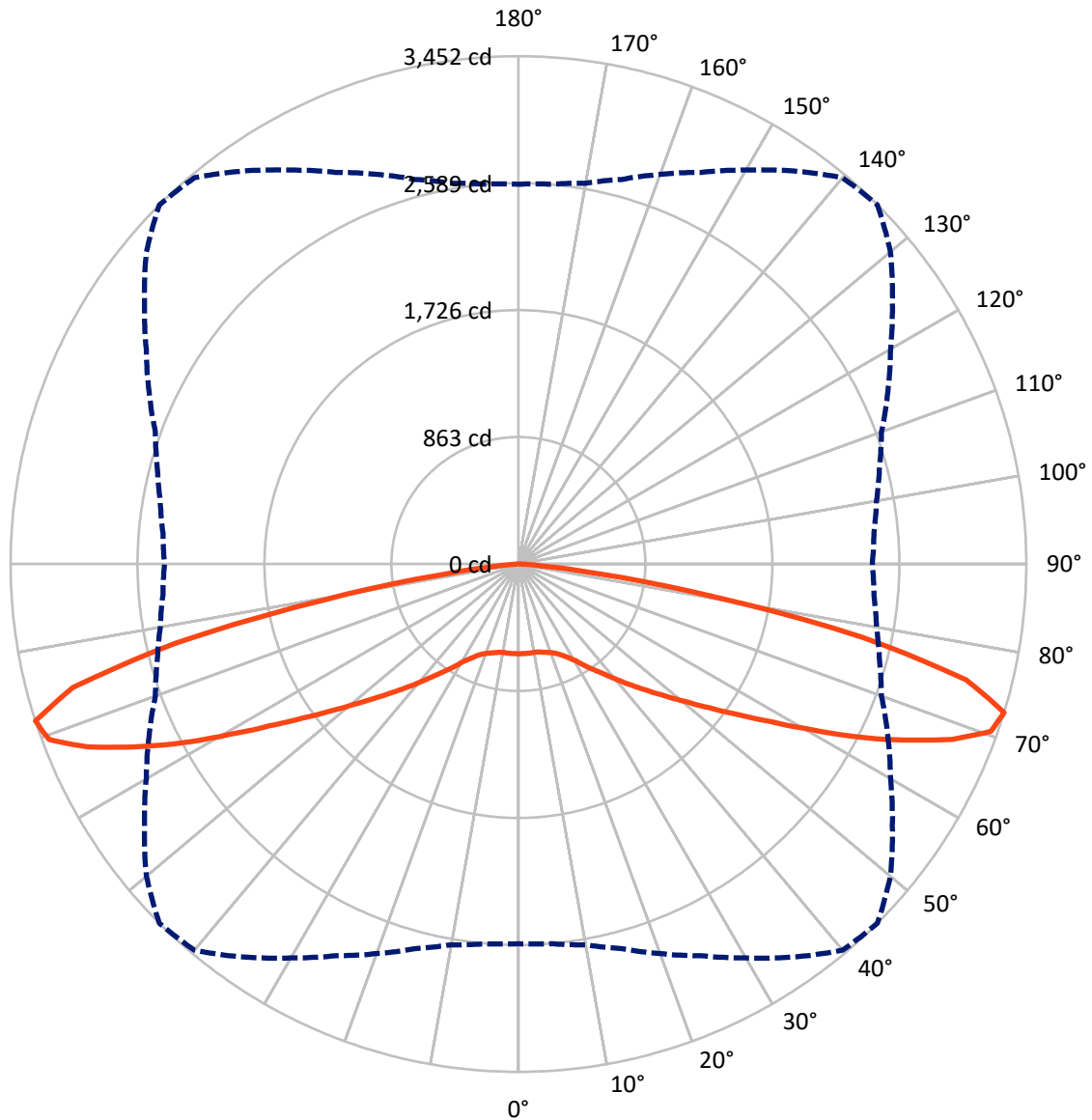


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	4310.5	0.0	4310.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4310.5	0.0	4310.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8621.0	0.0	8621.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	0.7
10°-20°	177.1	2.1
20°-30°	323.5	3.8
30°-40°	557.8	6.5
40°-50°	953.6	11.1
50°-60°	1545.7	17.9
60°-70°	2564.3	29.7
70°-80°	2258.5	26.2
80°-90°	182.1	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°	8621.0	100.0
0°-180°	8621.0	100.0



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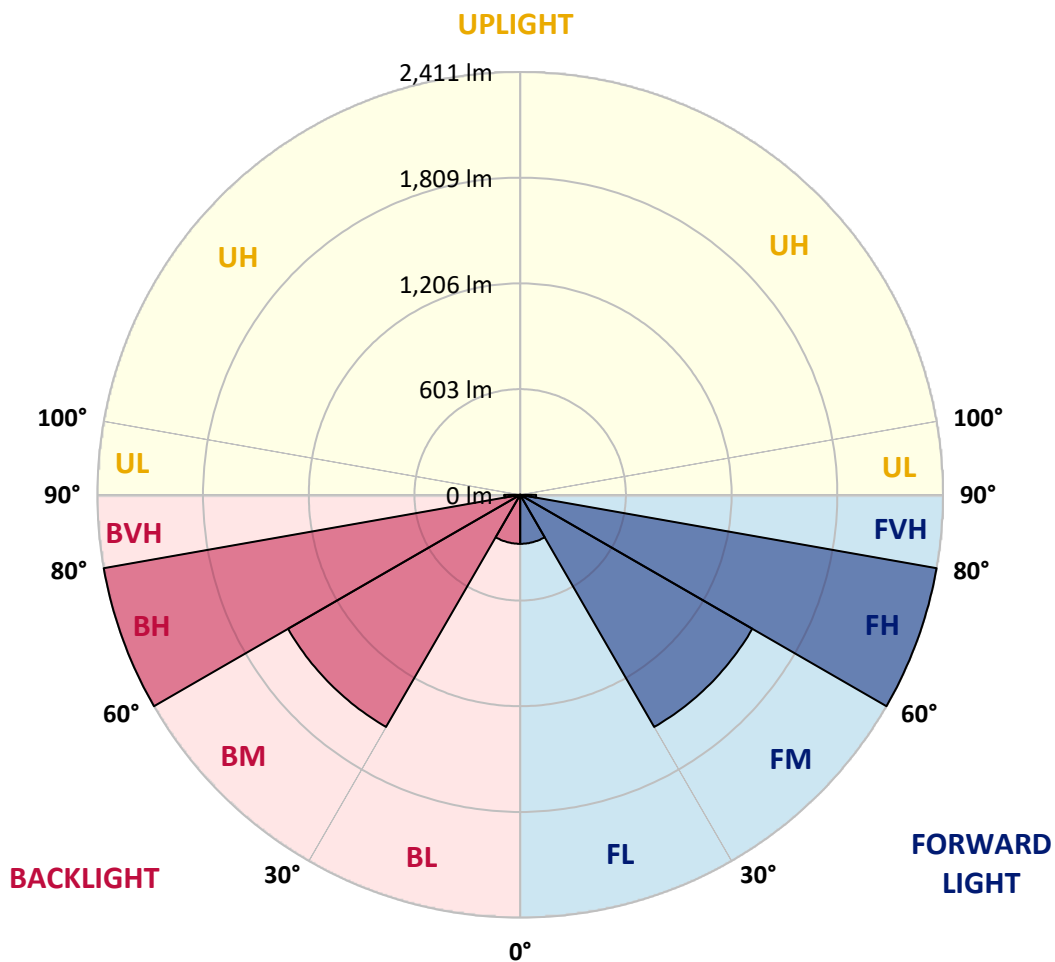
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.4	3.2			
FM (30°-60°)	1528.6	17.7			
FH (60°-80°)	2411.4	28.0			G2/5000
FVH (80°-90°)	91.0	1.1			G1/100
BL (0°-30°)	279.4	3.2	B1/500		
BM (30°-60°)	1528.6	17.7	B2/2500		
BH (60°-80°)	2411.4	28.0	B3/2500		G2/5000
BVH (80°-90°)	91.0	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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	610.5	610.9	611.3	610.9	610.9	610.5	610.1	610.5	610.1	609.3	609.7
5°	612.5	613.3	613.3	612.5	612.9	612.5	611.7	612.1	611.3	610.1	610.1
7.5°	614.9	615.2	615.2	614.5	614.9	614.1	613.3	612.9	612.1	610.5	609.3
10°	618.4	618.8	618.4	617.6	617.6	616.4	614.5	613.7	612.1	609.7	608.5
12.5°	622.4	622.8	622.4	621.6	621.2	619.2	617.6	616.4	615.2	613.3	611.3
15°	627.9	628.7	627.9	626.3	625.1	623.5	622.8	623.2	623.5	622.0	620.0
17.5°	638.2	638.6	637.4	633.8	632.2	630.7	630.7	631.5	632.6	631.9	629.9
20°	657.2	656.0	653.2	648.9	646.9	644.1	643.7	644.1	644.1	643.7	642.1
22.5°	680.9	680.1	676.5	671.0	668.2	666.6	664.3	662.3	661.9	660.7	659.1
25°	709.4	709.0	704.6	699.9	697.9	695.9	693.9	691.2	688.8	686.0	684.4
27.5°	745.7	744.1	737.8	735.4	732.7	731.5	728.7	725.6	723.6	720.0	718.1
30°	785.7	785.7	780.5	779.7	779.7	777.0	773.8	768.3	764.7	761.1	760.0
32.5°	825.6	826.0	820.9	822.4	823.6	825.6	826.4	824.4	822.0	821.6	819.3
35°	883.3	881.7	876.6	877.8	877.4	877.0	877.0	881.4	882.1	882.9	878.2
37.5°	954.9	954.9	949.8	949.8	947.4	945.0	941.8	944.6	949.0	950.2	947.0
40°	1036.7	1039.5	1033.2	1032.8	1033.6	1026.1	1022.5	1026.9	1029.6	1034.4	1030.8
42.5°	1133.2	1131.2	1124.9	1124.1	1119.8	1117.4	1114.2	1117.8	1122.2	1125.3	1126.5
45°	1225.7	1224.2	1217.0	1217.0	1212.7	1210.7	1212.3	1218.2	1220.2	1224.6	1228.9
47.5°	1317.1	1315.1	1310.4	1312.3	1312.7	1316.3	1321.4	1327.0	1332.5	1338.4	1340.4
50°	1410.4	1410.8	1405.7	1410.4	1416.3	1426.2	1440.1	1449.1	1460.6	1468.1	1470.5
52.5°	1495.4	1497.0	1502.5	1513.6	1525.5	1544.8	1568.6	1590.7	1609.7	1622.3	1621.5
55°	1597.4	1599.8	1613.2	1632.2	1651.6	1680.9	1716.0	1755.2	1786.8	1805.0	1793.5
57.5°	1727.9	1733.0	1748.1	1773.8	1802.6	1840.6	1888.8	1947.8	1996.8	2021.3	2002.7
60°	1907.0	1910.2	1928.4	1956.8	1991.6	2038.7	2103.1	2182.2	2251.4	2283.8	2262.5
62.5°	2143.1	2149.0	2163.6	2192.5	2228.1	2281.5	2360.2	2459.0	2545.2	2590.3	2542.0
65°	2425.0	2444.0	2456.2	2485.5	2518.7	2575.3	2657.5	2763.5	2856.0	2885.6	2829.9
67.5°	2704.2	2720.8	2742.1	2775.7	2809.3	2873.0	2949.3	3052.1	3153.7	3180.6	3094.0
70°	2826.3	2835.8	2869.0	2914.9	2979.4	3054.5	3142.7	3258.1	3383.9	3406.0	3296.1
72.5°	2581.6	2591.1	2628.2	2706.1	2818.4	2937.8	3091.6	3261.3	3427.3	3452.3	3300.8
75°	1952.5	1937.1	1992.0	2095.2	2246.7	2413.1	2628.2	2871.4	3111.4	3142.7	2962.0
77.5°	1009.1	1007.1	1048.6	1176.7	1357.4	1546.8	1783.7	2058.5	2293.3	2388.2	2241.1
80°	284.3	287.5	307.2	370.9	476.5	613.3	798.3	1055.7	1247.9	1345.9	1263.7
82.5°	111.5	120.2	127.7	139.6	153.4	173.6	231.7	344.8	462.6	552.8	452.7
85°	39.9	42.7	60.5	71.6	72.8	76.7	87.4	102.0	123.0	146.7	120.6
87.5°	15.0	16.6	19.4	32.0	31.6	28.9	35.2	36.8	27.7	25.3	31.2
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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	608.9	609.3	609.3	609.7	610.1	610.1	610.9	610.9
5°	609.3	609.3	608.5	608.9	608.5	608.5	608.9	608.9
7.5°	608.5	608.1	607.3	606.9	606.2	606.2	606.2	606.2
10°	607.3	606.9	606.2	605.8	605.4	605.4	605.4	605.4
12.5°	610.5	609.3	608.5	608.1	608.1	608.1	608.1	608.1
15°	618.8	616.0	614.1	614.1	614.5	615.2	615.2	616.0
17.5°	629.1	625.9	623.9	622.4	623.2	624.3	625.1	625.9
20°	641.3	639.8	637.0	635.4	635.4	637.0	637.8	638.2
22.5°	658.3	657.2	656.0	654.0	654.0	654.8	656.4	656.4
25°	683.7	682.9	682.1	680.5	680.1	680.1	680.9	681.7
27.5°	715.3	715.7	714.9	714.5	713.3	712.9	714.1	713.7
30°	757.6	759.6	761.5	760.0	758.0	756.8	755.6	754.0
32.5°	814.9	812.6	811.0	808.2	804.6	801.5	799.1	796.3
35°	869.1	865.1	863.6	865.9	865.5	863.6	860.8	858.4
37.5°	935.5	934.7	935.5	939.9	939.1	941.1	935.5	935.1
40°	1019.3	1020.1	1025.7	1030.8	1033.6	1036.3	1033.2	1030.0
42.5°	1116.6	1116.2	1118.2	1125.3	1130.1	1133.2	1126.5	1125.7
45°	1219.4	1216.7	1218.2	1224.2	1228.9	1232.5	1225.0	1225.0
47.5°	1332.5	1327.8	1322.6	1329.3	1332.1	1334.5	1328.6	1326.6
50°	1458.6	1448.8	1437.7	1440.4	1440.4	1439.7	1432.1	1431.8
52.5°	1603.4	1585.2	1565.0	1557.5	1553.1	1548.4	1535.3	1529.0
55°	1769.8	1742.5	1710.9	1691.5	1681.2	1668.2	1646.5	1640.5
57.5°	1964.4	1921.7	1867.1	1843.4	1820.4	1799.1	1775.0	1768.2
60°	2194.9	2132.0	2059.6	2015.8	1990.8	1970.3	1945.4	1944.2
62.5°	2451.9	2352.6	2270.8	2231.3	2213.1	2194.9	2171.2	2174.3
65°	2713.2	2609.7	2532.9	2500.9	2483.9	2468.9	2445.2	2448.7
67.5°	2971.1	2875.8	2791.5	2758.7	2739.7	2720.8	2699.4	2703.0
70°	3156.1	3037.9	2943.0	2870.2	2824.8	2773.3	2740.1	2731.8
72.5°	3103.1	2920.8	2770.2	2625.9	2541.2	2472.4	2425.8	2405.6
75°	2685.6	2436.5	2242.7	2065.6	1965.9	1884.9	1826.0	1789.2
77.5°	1994.4	1714.5	1485.5	1281.5	1120.2	1011.8	935.5	886.1
80°	1091.7	830.3	606.9	426.6	313.6	260.6	230.1	215.5
82.5°	340.0	219.4	161.7	139.6	129.7	124.2	115.1	100.4
85°	108.3	94.9	88.2	84.2	80.3	70.0	48.2	43.9
87.5°	41.9	43.1	42.7	40.3	41.1	29.7	23.7	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)