

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: P200081

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200081  
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-01-LED-E1-5WQ-1200  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7513.6 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

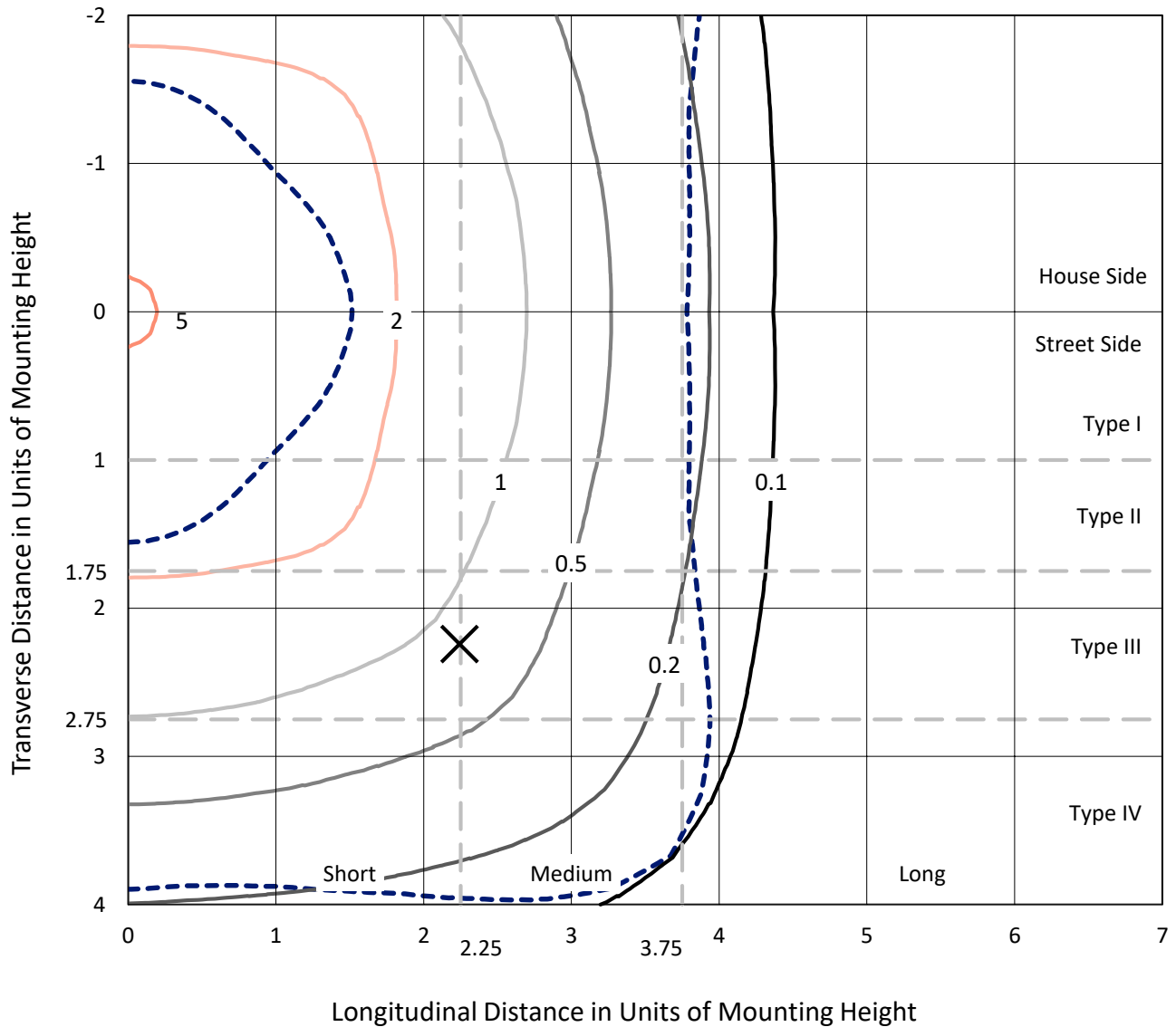
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

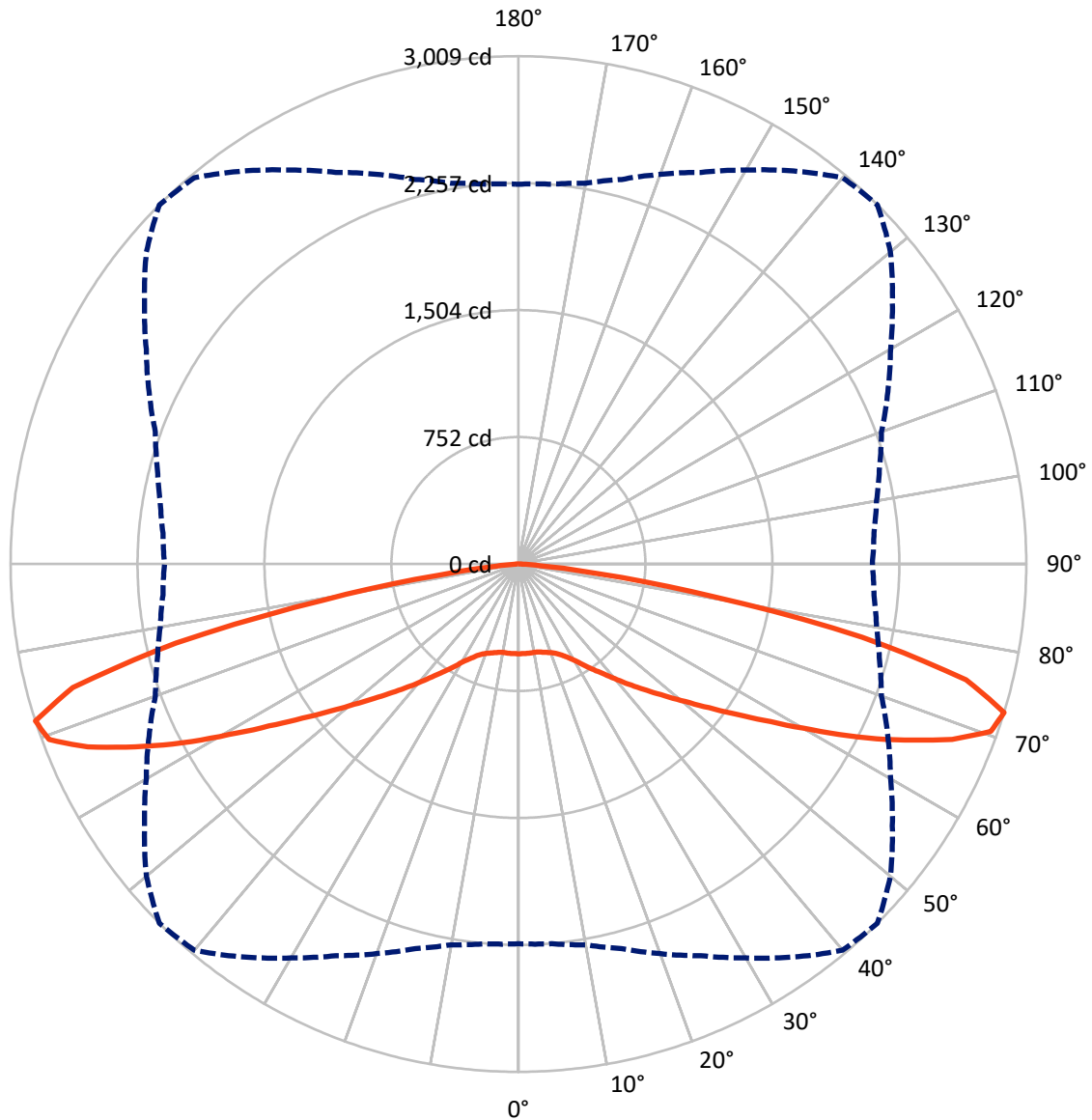
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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	3756.8	0.0	3756.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3756.8	0.0	3756.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7513.6	0.0	7513.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	0.7
10°-20°	154.3	2.1
20°-30°	282.0	3.8
30°-40°	486.2	6.5
40°-50°	831.1	11.1
50°-60°	1347.2	17.9
60°-70°	2234.9	29.7
70°-80°	1968.4	26.2
80°-90°	158.7	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°	7513.6	100.0
0°-180°	7513.6	100.0



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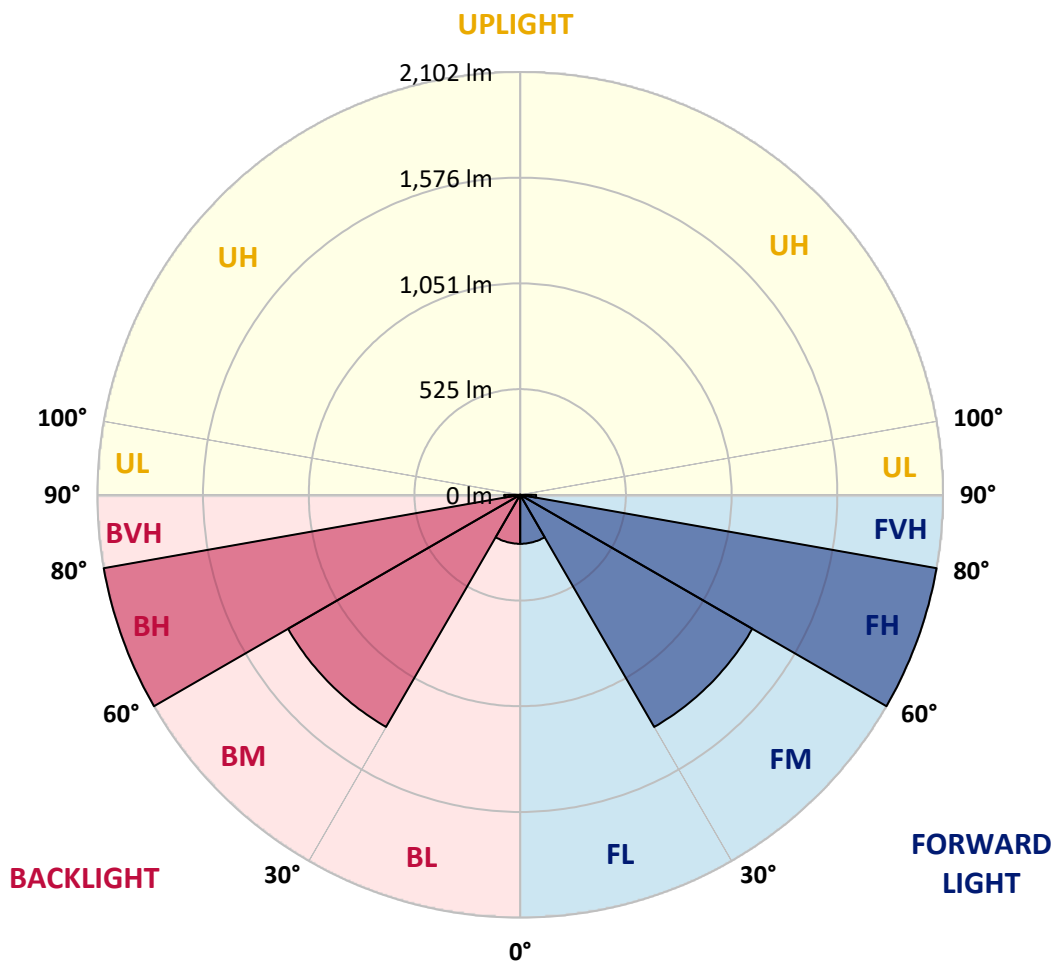
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.5	3.2			
FM	(30°-60°)	1332.2	17.7			
FH	(60°-80°)	2101.7	28.0			G2/5000
FVH	(80°-90°)	79.4	1.1			G1/100
BL	(0°-30°)	243.5	3.2	B1/500		
BM	(30°-60°)	1332.2	17.7	B2/2500		
BH	(60°-80°)	2101.7	28.0	B3/2500		G2/5000
BVH	(80°-90°)	79.4	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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	532.0	532.4	532.8	532.4	532.4	532.0	531.7	532.0	531.7	531.0	531.4
5°	533.8	534.5	534.5	533.8	534.2	533.8	533.2	533.5	532.8	531.7	531.7
7.5°	535.8	536.2	536.2	535.5	535.8	535.2	534.5	534.2	533.5	532.0	531.0
10°	539.0	539.3	539.0	538.3	538.3	537.3	535.5	534.8	533.5	531.4	530.4
12.5°	542.4	542.8	542.4	541.8	541.3	539.7	538.3	537.3	536.2	534.5	532.8
15°	547.3	547.9	547.3	545.8	544.8	543.5	542.8	543.1	543.5	542.1	540.3
17.5°	556.2	556.6	555.5	552.4	551.1	549.6	549.6	550.3	551.4	550.7	548.9
20°	572.8	571.7	569.3	565.5	563.7	561.4	561.0	561.4	561.4	561.0	559.7
22.5°	593.4	592.7	589.6	584.8	582.4	581.0	579.0	577.3	576.8	575.8	574.5
25°	618.3	617.9	614.1	610.0	608.2	606.5	604.8	602.4	600.3	597.9	596.5
27.5°	650.0	648.6	643.0	641.0	638.5	637.5	635.2	632.4	630.6	627.6	625.8
30°	684.8	684.8	680.3	679.5	679.5	677.2	674.4	669.6	666.5	663.4	662.4
32.5°	719.5	719.9	715.5	716.8	717.8	719.5	720.3	718.5	716.5	716.1	714.0
35°	769.9	768.4	764.0	765.1	764.7	764.3	764.3	768.1	768.8	769.5	765.4
37.5°	832.3	832.3	827.8	827.8	825.7	823.6	820.8	823.3	827.1	828.1	825.3
40°	903.6	906.0	900.5	900.1	900.8	894.3	891.2	895.0	897.3	901.5	898.4
42.5°	987.7	985.9	980.4	979.7	975.9	973.8	971.1	974.3	978.0	980.8	981.8
45°	1068.3	1066.9	1060.7	1060.7	1056.9	1055.2	1056.6	1061.7	1063.5	1067.2	1071.0
47.5°	1147.9	1146.2	1142.0	1143.8	1144.1	1147.2	1151.6	1156.5	1161.4	1166.5	1168.2
50°	1229.2	1229.6	1225.1	1229.2	1234.4	1243.0	1255.1	1263.0	1273.0	1279.5	1281.7
52.5°	1303.3	1304.7	1309.5	1319.2	1329.5	1346.4	1367.1	1386.4	1402.9	1413.9	1413.2
55°	1392.2	1394.3	1406.0	1422.5	1439.4	1465.0	1495.7	1529.7	1557.3	1573.1	1563.2
57.5°	1506.0	1510.4	1523.5	1545.9	1571.0	1604.2	1646.2	1697.6	1740.2	1761.6	1745.5
60°	1662.1	1664.9	1680.7	1705.5	1735.8	1776.8	1833.0	1901.9	1962.2	1990.5	1971.8
62.5°	1867.8	1872.9	1885.7	1910.9	1941.9	1988.4	2056.9	2143.1	2218.3	2257.6	2215.5
65°	2113.5	2130.0	2140.7	2166.2	2195.2	2244.5	2316.2	2408.4	2489.1	2514.9	2466.3
67.5°	2356.8	2371.3	2389.9	2419.2	2448.4	2504.0	2570.5	2660.1	2748.6	2772.0	2696.6
70°	2463.3	2471.6	2500.5	2540.5	2596.7	2662.1	2739.0	2839.6	2949.2	2968.5	2872.7
72.5°	2250.0	2258.3	2290.6	2358.5	2456.4	2560.4	2694.6	2842.4	2987.1	3008.8	2876.8
75°	1701.7	1688.3	1736.2	1826.1	1958.0	2103.2	2290.6	2502.5	2711.7	2739.0	2581.5
77.5°	879.4	877.7	913.9	1025.5	1183.0	1348.1	1554.6	1794.1	1998.7	2081.4	1953.2
80°	247.8	250.5	267.8	323.3	415.2	534.5	695.8	920.1	1087.6	1173.0	1101.4
82.5°	97.2	104.8	111.3	121.6	133.7	151.3	201.9	300.5	403.1	481.8	394.6
85°	34.8	37.2	52.7	62.4	63.4	66.9	76.2	88.9	107.2	127.9	105.1
87.5°	13.1	14.4	16.9	27.9	27.6	25.2	30.7	32.0	24.1	22.1	27.2
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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	530.7	531.0	531.0	531.4	531.7	531.7	532.4	532.4
5°	531.0	531.0	530.4	530.7	530.4	530.4	530.7	530.7
7.5°	530.4	530.0	529.3	529.0	528.3	528.3	528.3	528.3
10°	529.3	529.0	528.3	527.9	527.6	527.6	527.6	527.6
12.5°	532.0	531.0	530.4	530.0	530.0	530.0	530.0	530.0
15°	539.3	536.9	535.2	535.2	535.5	536.2	536.2	536.9
17.5°	548.3	545.5	543.8	542.4	543.1	544.1	544.8	545.5
20°	558.9	557.6	555.2	553.8	553.8	555.2	555.9	556.2
22.5°	573.8	572.8	571.7	570.0	570.0	570.7	572.0	572.0
25°	595.9	595.2	594.4	593.1	592.7	592.7	593.4	594.1
27.5°	623.4	623.7	623.1	622.7	621.6	621.3	622.4	622.1
30°	660.3	662.0	663.7	662.4	660.6	659.6	658.6	657.1
32.5°	710.2	708.2	706.8	704.4	701.2	698.6	696.4	694.1
35°	757.5	754.0	752.6	754.7	754.3	752.6	750.2	748.2
37.5°	815.4	814.7	815.4	819.2	818.5	820.2	815.4	815.0
40°	888.4	889.0	894.0	898.4	900.8	903.3	900.5	897.7
42.5°	973.1	972.8	974.6	980.8	984.9	987.7	981.8	981.1
45°	1062.7	1060.4	1061.7	1066.9	1071.0	1074.1	1067.6	1067.6
47.5°	1161.4	1157.2	1152.8	1158.6	1160.9	1163.1	1157.9	1156.1
50°	1271.2	1262.6	1253.0	1255.4	1255.4	1254.8	1248.2	1247.8
52.5°	1397.4	1381.5	1364.0	1357.5	1353.7	1349.5	1338.1	1332.6
55°	1542.5	1518.7	1491.2	1474.3	1465.3	1453.9	1435.0	1429.8
57.5°	1712.0	1674.8	1627.2	1606.5	1586.6	1568.0	1546.9	1541.1
60°	1912.9	1858.1	1795.1	1756.8	1735.1	1717.2	1695.4	1694.4
62.5°	2136.9	2050.4	1979.1	1944.6	1928.8	1912.9	1892.3	1895.0
65°	2364.8	2274.4	2207.5	2179.7	2164.9	2151.8	2131.1	2134.2
67.5°	2589.4	2506.3	2433.0	2404.3	2387.8	2371.3	2352.7	2355.8
70°	2750.7	2647.6	2564.9	2501.5	2461.9	2417.1	2388.2	2380.9
72.5°	2704.5	2545.6	2414.4	2288.5	2214.8	2154.8	2114.1	2096.6
75°	2340.6	2123.4	1954.7	1800.3	1713.4	1642.8	1591.4	1559.4
77.5°	1738.2	1494.2	1294.7	1116.9	976.3	881.9	815.4	772.2
80°	951.4	723.6	529.0	371.8	273.2	227.1	200.6	187.8
82.5°	296.3	191.3	141.0	121.6	113.0	108.2	100.2	87.6
85°	94.4	82.8	76.8	73.4	70.0	61.0	42.0	38.3
87.5°	36.5	37.5	37.2	35.2	35.8	25.9	20.7	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)