

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: P200060

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8795.3 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

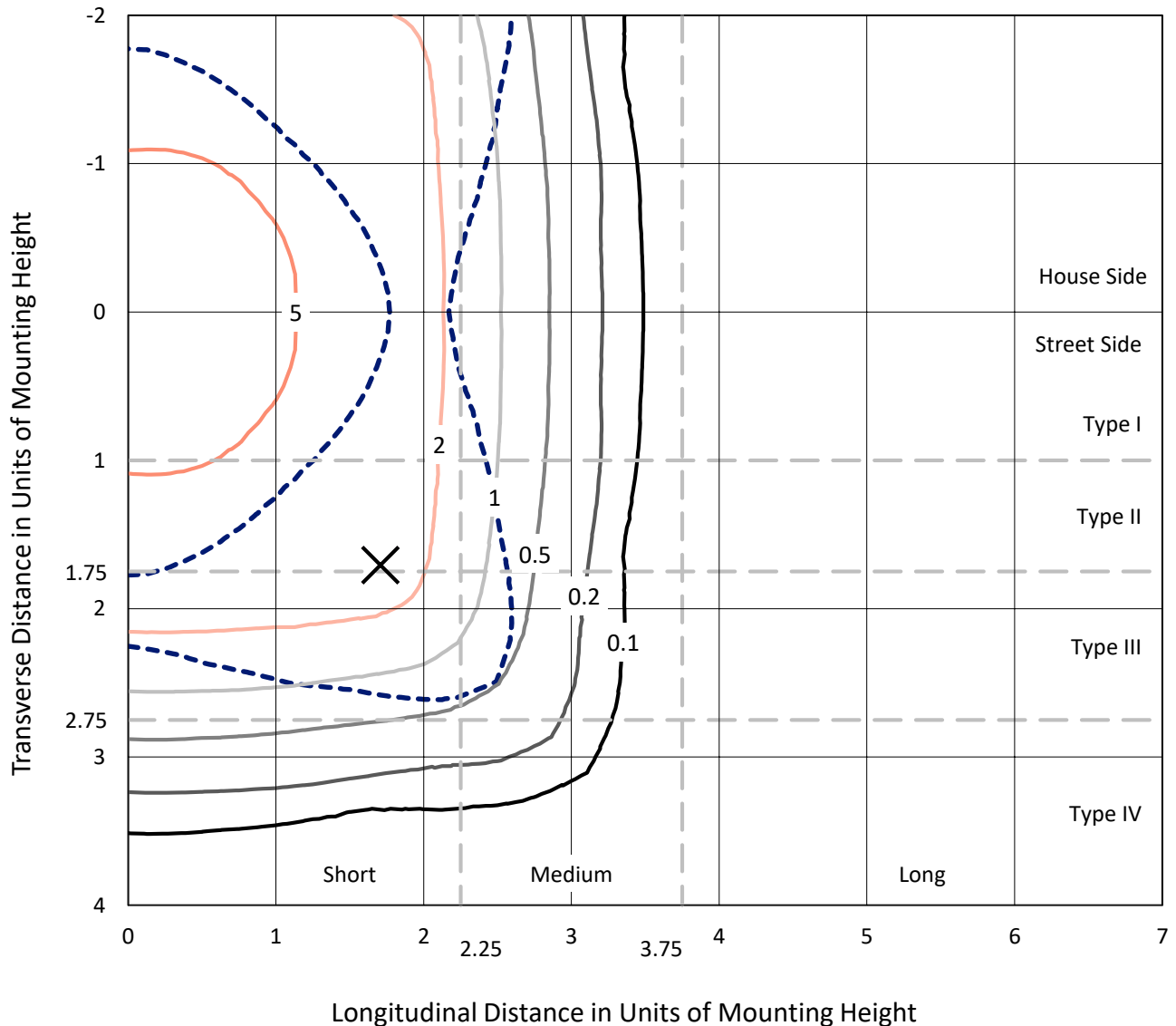
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

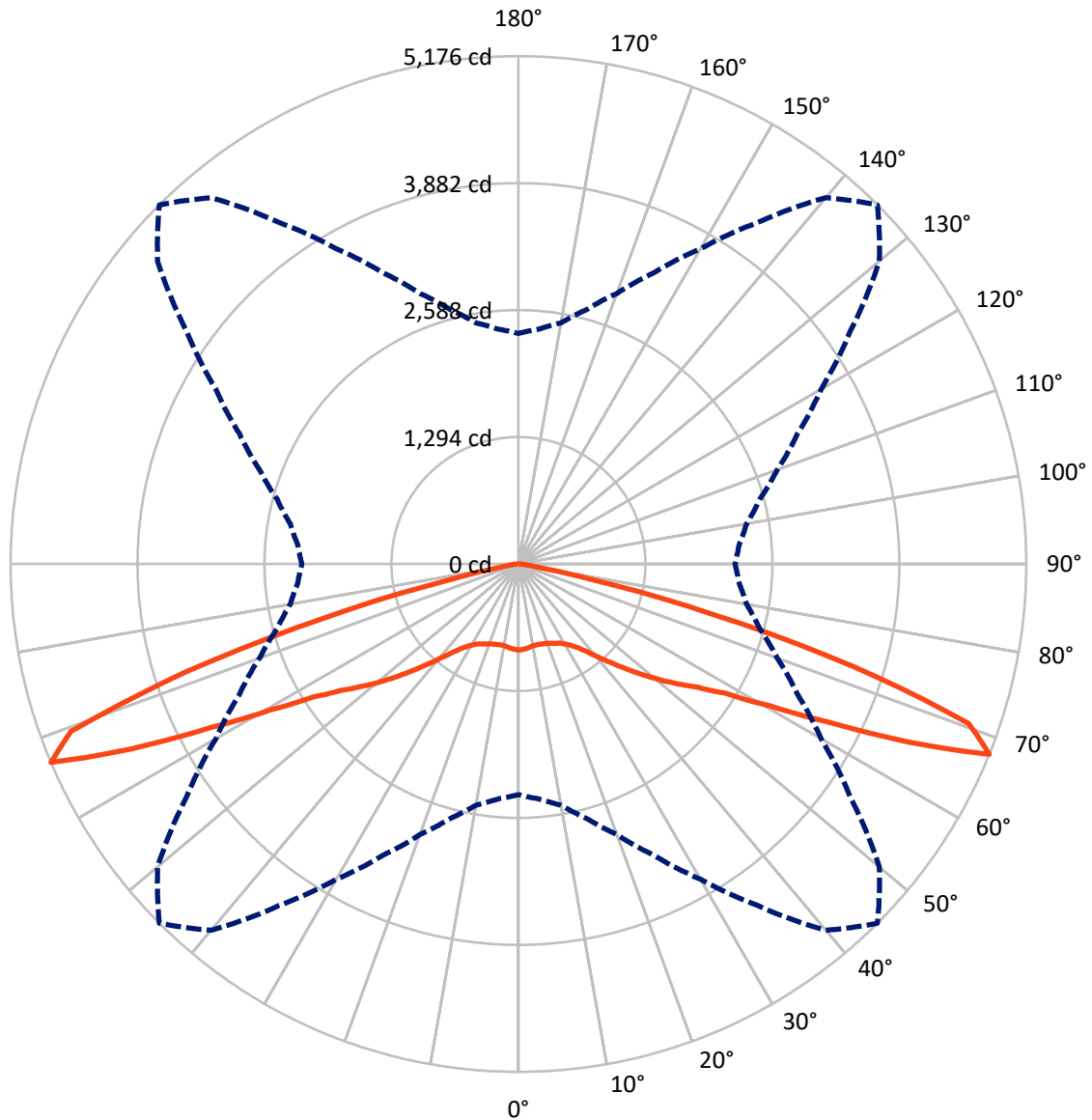
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4397.7	0.0	4397.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4397.7	0.0	4397.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8795.3	0.0	8795.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	0.9
10°-20°	238.1	2.7
20°-30°	404.7	4.6
30°-40°	661.5	7.5
40°-50°	1181.0	13.4
50°-60°	1991.1	22.6
60°-70°	3089.9	35.1
70°-80°	1085.7	12.3
80°-90°	61.4	0.7
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°	8795.3	100.0
0°-180°	8795.3	100.0



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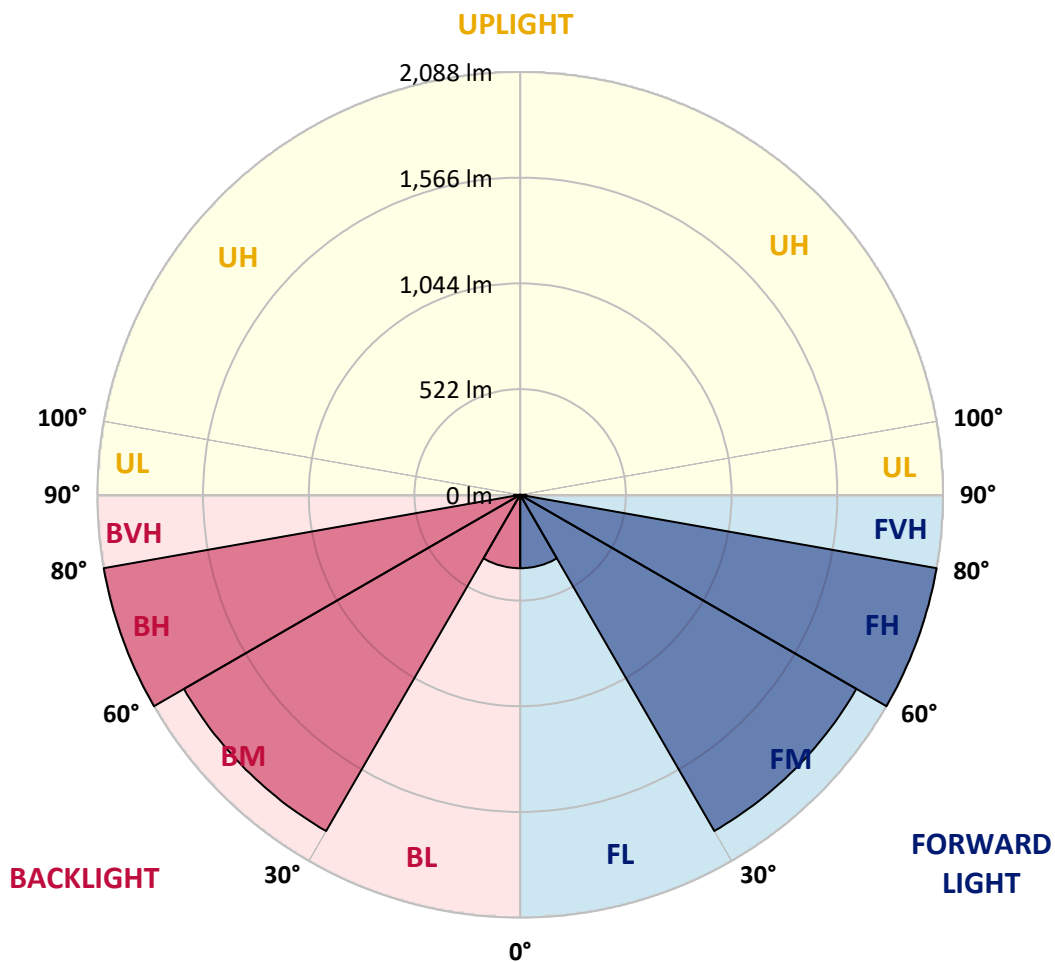
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.4	4.1			
FM	(30°-60°)	1916.8	21.8			
FH	(60°-80°)	2087.8	23.7			G2/5000
FVH	(80°-90°)	30.7	0.3			G1/100
BL	(0°-30°)	362.4	4.1	B1/500		
BM	(30°-60°)	1916.8	21.8	B2/2500		
BH	(60°-80°)	2087.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	30.7	0.3			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°	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5
2.5°	873.3	874.1	874.1	874.1	873.7	873.7	872.9	873.7	873.3	872.1	872.5
5°	865.9	866.7	866.7	866.3	867.6	867.2	865.9	866.7	866.3	865.6	865.9
7.5°	855.5	856.7	856.7	856.3	857.4	857.0	856.3	856.7	856.7	855.5	855.5
10°	843.7	844.5	844.5	844.1	846.2	846.2	845.8	847.0	847.4	846.2	845.4
12.5°	832.8	834.0	834.0	835.6	837.7	838.5	840.5	842.1	843.7	843.3	841.7
15°	826.3	827.2	828.8	830.7	834.0	836.9	840.0	843.7	847.0	847.8	845.4
17.5°	822.2	823.5	825.9	828.8	833.2	838.1	842.9	847.8	852.2	853.9	851.0
20°	821.1	821.8	824.3	829.2	835.2	842.5	849.4	855.1	861.1	863.2	861.1
22.5°	823.5	825.1	828.0	833.6	841.7	851.0	859.1	866.7	874.4	878.1	875.2
25°	834.4	836.1	839.6	847.0	855.9	865.6	874.8	883.7	890.7	894.3	892.2
27.5°	854.7	856.7	861.1	868.4	878.1	888.6	898.8	906.0	911.7	912.9	910.4
30°	885.0	889.5	894.7	902.8	914.1	923.0	933.1	939.6	946.4	946.4	944.5
32.5°	932.3	936.7	942.4	950.1	959.0	968.7	977.6	983.3	990.5	990.9	986.1
35°	1003.1	1005.2	1010.0	1014.9	1023.0	1031.4	1039.1	1042.7	1048.8	1049.2	1044.7
37.5°	1096.5	1096.9	1100.2	1101.8	1109.1	1118.4	1125.7	1128.1	1133.7	1132.9	1128.5
40°	1205.3	1207.4	1208.5	1211.0	1218.6	1227.5	1235.2	1236.4	1242.6	1241.4	1235.6
42.5°	1331.2	1331.9	1338.8	1342.4	1349.7	1354.2	1363.9	1365.1	1372.4	1369.1	1362.7
45°	1472.2	1479.6	1486.0	1493.3	1501.0	1506.3	1514.0	1512.3	1517.1	1512.3	1508.6
47.5°	1620.8	1626.0	1640.5	1651.9	1664.4	1668.8	1679.8	1674.9	1679.8	1672.9	1671.7
50°	1784.1	1793.4	1806.0	1818.9	1832.3	1839.6	1853.7	1847.7	1854.1	1847.7	1844.0
52.5°	1945.1	1947.5	1975.0	1994.0	2012.7	2021.1	2029.6	2026.8	2027.2	2026.8	2023.2
55°	2098.0	2103.7	2131.2	2157.1	2189.4	2213.3	2227.9	2226.2	2222.6	2219.0	2212.8
57.5°	2270.3	2276.0	2307.5	2339.5	2376.3	2410.3	2439.7	2470.1	2481.9	2485.1	2471.8
60°	2503.3	2502.9	2544.9	2583.8	2636.3	2686.9	2751.6	2817.5	2893.2	2928.4	2881.9
62.5°	2740.3	2750.0	2810.7	2879.4	2987.8	3093.4	3212.7	3330.0	3449.7	3547.2	3443.7
65°	2711.9	2749.2	2839.4	2995.1	3195.3	3433.1	3690.4	3962.6	4208.5	4377.6	4187.9
67.5°	2350.4	2403.4	2495.2	2684.5	2934.8	3277.8	3709.8	4248.2	4873.8	5176.4	4801.5
70°	1703.6	1763.5	1859.7	2044.6	2292.5	2618.5	3087.8	3734.1	4562.5	4867.4	4454.4
72.5°	847.8	880.1	939.6	1057.3	1244.9	1509.5	1935.0	2556.3	3289.2	3569.1	3191.7
75°	288.0	303.0	313.0	351.5	410.9	514.9	726.4	1117.6	1704.8	2043.8	1680.6
77.5°	166.2	166.6	173.5	180.3	190.5	201.8	230.2	302.2	522.6	742.3	540.7
80°	107.6	107.2	112.8	118.2	125.0	130.6	132.3	139.9	161.4	191.3	171.1
82.5°	55.9	62.7	75.2	82.1	95.0	97.5	94.2	91.5	96.7	100.4	102.7
85°	30.8	26.7	40.0	51.8	57.4	58.2	58.2	55.0	57.1	55.9	60.7
87.5°	14.1	13.0	15.8	25.5	27.1	23.0	24.2	21.5	15.3	14.9	17.0
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°	876.5	876.5	876.5	876.5	876.5	876.5	876.5	876.5
2.5°	872.5	872.9	872.9	874.1	874.4	875.2	876.1	876.5
5°	865.6	866.7	865.9	867.2	867.2	868.0	868.0	868.4
7.5°	855.5	856.7	856.7	856.7	856.3	857.4	857.4	857.4
10°	845.0	845.8	845.4	844.5	843.7	845.0	844.5	844.1
12.5°	841.7	839.6	838.1	837.3	835.6	836.1	834.8	834.8
15°	843.7	840.0	837.3	836.1	834.4	833.6	832.8	833.2
17.5°	848.9	844.5	840.9	838.9	836.9	835.6	834.0	834.4
20°	858.3	853.0	847.8	843.7	840.0	838.1	836.9	836.5
22.5°	872.1	864.4	856.7	850.6	845.8	842.9	841.7	840.9
25°	887.8	879.3	870.4	863.6	858.7	855.1	852.6	852.6
27.5°	907.7	900.8	892.6	884.5	880.1	876.5	874.8	874.1
30°	940.8	934.4	927.8	920.1	914.5	910.8	908.1	905.6
32.5°	983.3	978.0	972.7	967.1	961.9	957.0	952.6	950.5
35°	1043.1	1039.1	1035.4	1029.0	1026.9	1024.1	1021.7	1019.7
37.5°	1125.7	1124.0	1124.0	1117.2	1115.5	1114.3	1111.8	1112.3
40°	1234.1	1235.6	1233.7	1231.2	1230.0	1226.7	1226.7	1229.6
42.5°	1362.3	1363.5	1367.9	1363.9	1368.3	1364.3	1361.9	1363.9
45°	1511.1	1515.6	1524.5	1520.4	1523.3	1516.3	1507.8	1508.2
47.5°	1678.2	1682.2	1685.8	1683.1	1683.4	1672.1	1660.8	1657.9
50°	1851.6	1853.3	1855.3	1851.2	1852.1	1839.6	1826.6	1827.0
52.5°	2023.2	2030.9	2038.9	2028.0	2025.6	2011.4	1993.2	1986.0
55°	2219.3	2230.2	2220.9	2201.9	2183.0	2164.0	2140.0	2136.0
57.5°	2461.2	2442.6	2413.4	2377.4	2351.2	2324.6	2300.2	2290.1
60°	2797.8	2727.8	2675.2	2621.8	2588.3	2555.4	2523.5	2518.6
62.5°	3273.4	3152.4	3047.7	2937.3	2847.1	2776.7	2720.4	2704.7
65°	3869.6	3583.6	3335.6	3104.3	2903.3	2751.6	2656.2	2614.2
67.5°	4126.1	3561.4	3136.3	2807.9	2544.9	2361.3	2258.2	2206.8
70°	3625.6	2953.5	2491.2	2162.3	1922.8	1727.0	1633.7	1578.6
72.5°	2494.4	1878.8	1485.6	1212.6	1021.3	857.4	792.8	787.9
75°	1120.0	741.8	511.3	393.9	331.6	288.4	275.1	264.9
77.5°	313.4	231.8	206.6	193.3	180.3	165.4	159.8	161.0
80°	152.5	144.0	138.3	129.8	118.2	105.6	99.9	102.3
82.5°	101.1	99.9	103.5	97.5	80.5	68.3	57.4	52.6
85°	61.5	62.3	63.5	63.9	54.2	38.1	25.9	29.2
87.5°	24.2	27.9	30.4	31.5	29.6	18.2	14.5	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)