

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: P200065

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200065  
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-01-LED-E1-5MQ-1200  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7494.1 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

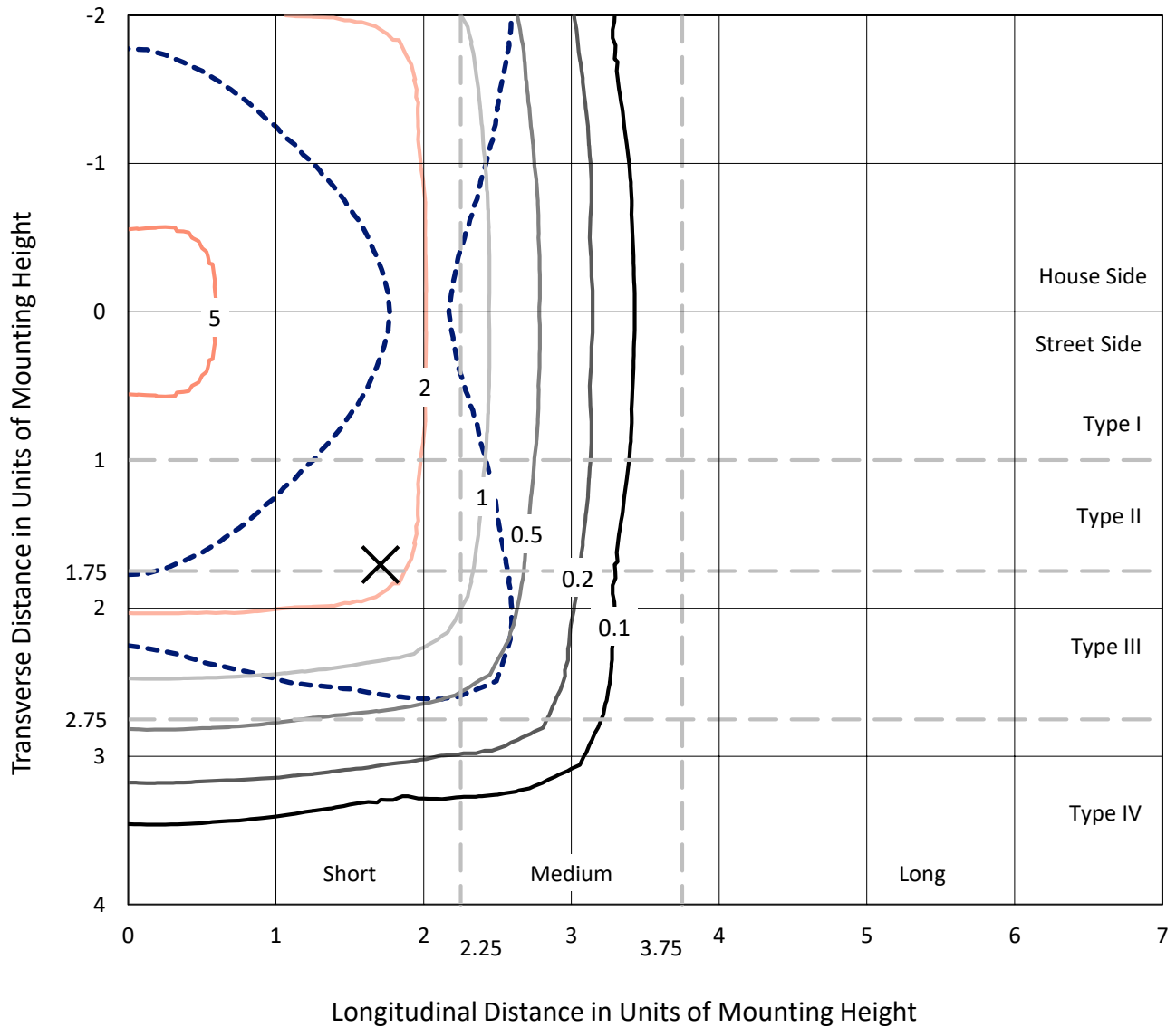
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

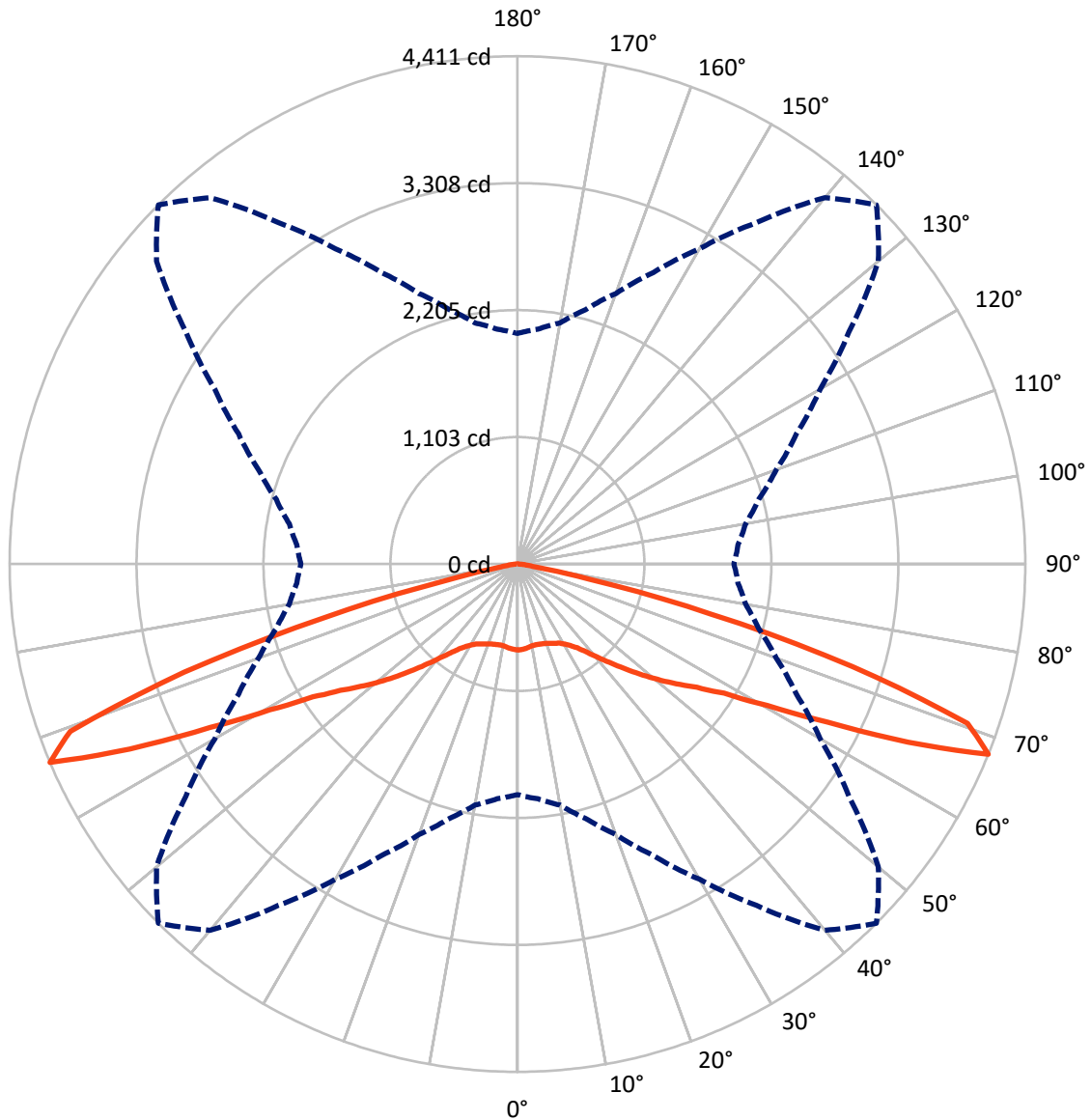
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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	3747.1	0.0	3747.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3747.1	0.0	3747.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7494.1	0.0	7494.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	0.9
10°-20°	202.8	2.7
20°-30°	344.8	4.6
30°-40°	563.7	7.5
40°-50°	1006.2	13.4
50°-60°	1696.5	22.6
60°-70°	2632.8	35.1
70°-80°	925.1	12.3
80°-90°	52.3	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°	7494.1	100.0
0°-180°	7494.1	100.0



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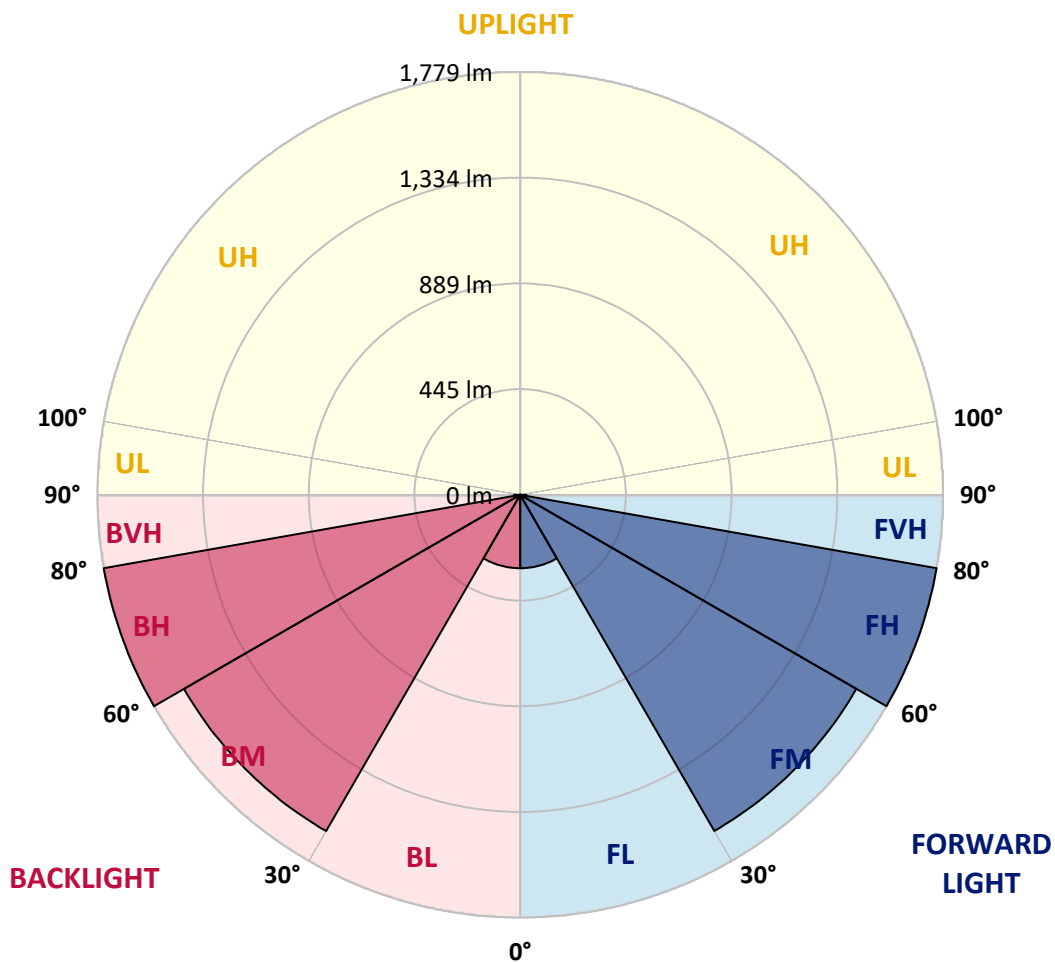
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.8	4.1			
FM	(30°-60°)	1633.2	21.8			
FH	(60°-80°)	1778.9	23.7			G1/1800
FVH	(80°-90°)	26.1	0.3			G1/100
BL	(0°-30°)	308.8	4.1	B1/500		
BM	(30°-60°)	1633.2	21.8	B2/2500		
BH	(60°-80°)	1778.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	26.1	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	744.1	744.7	744.7	744.7	744.4	744.4	743.7	744.4	744.1	743.1	743.4
5°	737.9	738.6	738.6	738.2	739.3	738.9	737.9	738.6	738.2	737.5	737.9
7.5°	728.9	730.0	730.0	729.6	730.6	730.3	729.6	730.0	730.0	728.9	728.9
10°	718.9	719.6	719.6	719.2	721.0	721.0	720.7	721.7	722.0	721.0	720.3
12.5°	709.6	710.6	710.6	712.0	713.7	714.4	716.2	717.5	718.9	718.5	717.2
15°	704.1	704.8	706.1	707.9	710.6	713.1	715.8	718.9	721.7	722.3	720.3
17.5°	700.6	701.6	703.8	706.1	709.9	714.1	718.2	722.3	726.2	727.5	725.1
20°	699.6	700.3	702.4	706.4	711.7	717.9	723.7	728.5	733.8	735.4	733.8
22.5°	701.6	703.1	705.4	710.3	717.2	725.1	732.0	738.6	745.1	748.2	745.8
25°	711.0	712.4	715.5	721.7	729.3	737.5	745.4	753.0	758.9	762.0	760.3
27.5°	728.2	730.0	733.8	739.9	748.2	757.2	765.8	772.0	776.8	777.9	775.8
30°	754.0	757.8	762.3	769.3	778.9	786.4	795.0	800.6	806.5	806.5	804.8
32.5°	794.4	798.2	803.0	809.6	817.1	825.4	833.0	837.8	844.0	844.3	840.3
35°	854.7	856.4	860.5	864.7	871.6	878.8	885.4	888.4	893.6	894.0	890.2
37.5°	934.3	934.7	937.4	938.8	945.0	952.9	959.1	961.2	966.0	965.4	961.6
40°	1027.0	1028.8	1029.8	1031.9	1038.4	1046.0	1052.5	1053.5	1058.8	1057.7	1052.8
42.5°	1134.1	1134.9	1140.7	1143.9	1150.0	1153.8	1162.1	1163.1	1169.3	1166.6	1161.0
45°	1254.4	1260.7	1266.2	1272.3	1278.9	1283.4	1289.9	1288.6	1292.7	1288.6	1285.4
47.5°	1381.0	1385.4	1397.9	1407.5	1418.2	1422.0	1431.3	1427.1	1431.3	1425.4	1424.4
50°	1520.2	1528.1	1538.8	1549.8	1561.2	1567.4	1579.4	1574.3	1579.8	1574.3	1571.2
52.5°	1657.4	1659.4	1682.9	1699.0	1714.9	1722.1	1729.4	1726.9	1727.4	1726.9	1723.9
55°	1787.6	1792.4	1815.8	1837.9	1865.6	1885.8	1898.3	1896.9	1893.8	1890.6	1885.5
57.5°	1934.4	1939.2	1966.1	1993.3	2024.7	2053.7	2078.8	2104.7	2114.6	2117.4	2106.1
60°	2133.0	2132.6	2168.5	2201.5	2246.3	2289.4	2344.5	2400.8	2465.2	2495.2	2455.5
62.5°	2334.9	2343.2	2394.8	2453.4	2545.8	2635.7	2737.4	2837.4	2939.3	3022.4	2934.2
65°	2310.7	2342.5	2419.4	2552.1	2722.6	2925.2	3144.4	3376.4	3586.0	3730.0	3568.4
67.5°	2002.6	2047.8	2126.0	2287.3	2500.7	2793.0	3161.0	3619.7	4152.9	4410.7	4091.2
70°	1451.6	1502.6	1584.7	1742.1	1953.4	2231.2	2630.9	3181.7	3887.5	4147.3	3795.5
72.5°	722.3	749.9	800.6	900.9	1060.8	1286.2	1648.7	2178.1	2802.6	3041.0	2719.5
75°	245.4	258.1	266.8	299.5	350.2	438.7	619.0	952.3	1452.6	1741.5	1431.9
77.5°	141.7	142.0	147.8	153.7	162.3	172.0	196.1	257.5	445.3	632.4	460.7
80°	91.7	91.3	96.2	100.7	106.5	111.3	112.7	119.3	137.5	163.1	145.8
82.5°	47.6	53.4	64.1	70.0	81.0	83.1	80.3	77.8	82.3	85.5	87.6
85°	26.2	22.7	34.2	44.1	48.9	49.6	49.6	46.9	48.6	47.6	51.7
87.5°	12.1	11.0	13.4	21.7	23.1	19.6	20.7	18.3	13.1	12.8	14.4
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°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	743.4	743.7	743.7	744.7	745.1	745.8	746.4	746.9
5°	737.5	738.6	737.9	738.9	738.9	739.6	739.6	739.9
7.5°	728.9	730.0	730.0	730.0	729.6	730.6	730.6	730.6
10°	720.0	720.7	720.3	719.6	718.9	720.0	719.6	719.2
12.5°	717.2	715.5	714.1	713.4	712.0	712.4	711.4	711.4
15°	718.9	715.8	713.4	712.4	711.0	710.3	709.6	709.9
17.5°	723.4	719.6	716.5	714.7	713.1	712.0	710.6	711.0
20°	731.3	726.8	722.3	718.9	715.8	714.1	713.1	712.7
22.5°	743.1	736.5	730.0	724.8	720.7	718.2	717.2	716.5
25°	756.5	749.2	741.6	735.8	731.6	728.5	726.5	726.5
27.5°	773.4	767.5	760.6	753.7	749.9	746.9	745.4	744.7
30°	801.6	796.1	790.6	784.1	779.2	776.1	773.7	771.6
32.5°	837.8	833.3	828.8	824.0	819.6	815.4	811.6	809.9
35°	888.8	885.4	882.3	876.8	875.0	872.6	870.5	868.8
37.5°	959.1	957.8	957.8	951.9	950.5	949.5	947.4	947.8
40°	1051.5	1052.8	1051.2	1049.0	1048.0	1045.3	1045.3	1047.7
42.5°	1160.7	1161.8	1165.6	1162.1	1165.9	1162.5	1160.3	1162.1
45°	1287.6	1291.4	1298.9	1295.5	1297.9	1292.0	1284.8	1285.1
47.5°	1429.9	1433.4	1436.4	1434.0	1434.4	1424.8	1415.0	1412.7
50°	1577.7	1579.1	1580.9	1577.4	1578.1	1567.4	1556.3	1556.7
52.5°	1723.9	1730.4	1737.3	1728.0	1725.9	1713.9	1698.4	1692.2
55°	1891.0	1900.3	1892.4	1876.2	1860.0	1843.8	1823.4	1820.0
57.5°	2097.0	2081.3	2056.4	2025.7	2003.3	1980.6	1960.0	1951.3
60°	2383.9	2324.2	2279.4	2233.9	2205.3	2177.4	2150.1	2146.0
62.5°	2789.1	2686.1	2596.9	2502.8	2425.9	2365.9	2318.0	2304.6
65°	3297.1	3053.5	2842.2	2645.0	2473.8	2344.5	2263.2	2227.4
67.5°	3515.6	3034.5	2672.3	2392.5	2168.5	2011.9	1924.1	1880.3
70°	3089.3	2516.6	2122.6	1842.4	1638.4	1471.6	1391.9	1345.1
72.5°	2125.4	1600.8	1265.8	1033.2	870.2	730.6	675.5	671.4
75°	954.3	632.1	435.6	335.6	282.6	245.7	234.4	225.8
77.5°	267.1	197.4	176.2	164.7	153.7	141.0	136.2	137.2
80°	129.9	122.7	117.8	110.6	100.7	89.9	85.1	87.2
82.5°	86.1	85.1	88.2	83.1	68.5	58.2	48.9	44.8
85°	52.4	53.1	54.1	54.4	46.1	32.4	22.1	24.9
87.5°	20.7	23.7	25.9	26.9	25.2	15.5	12.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)