

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: P199900

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199900  
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-7030-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 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: 8315.8 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

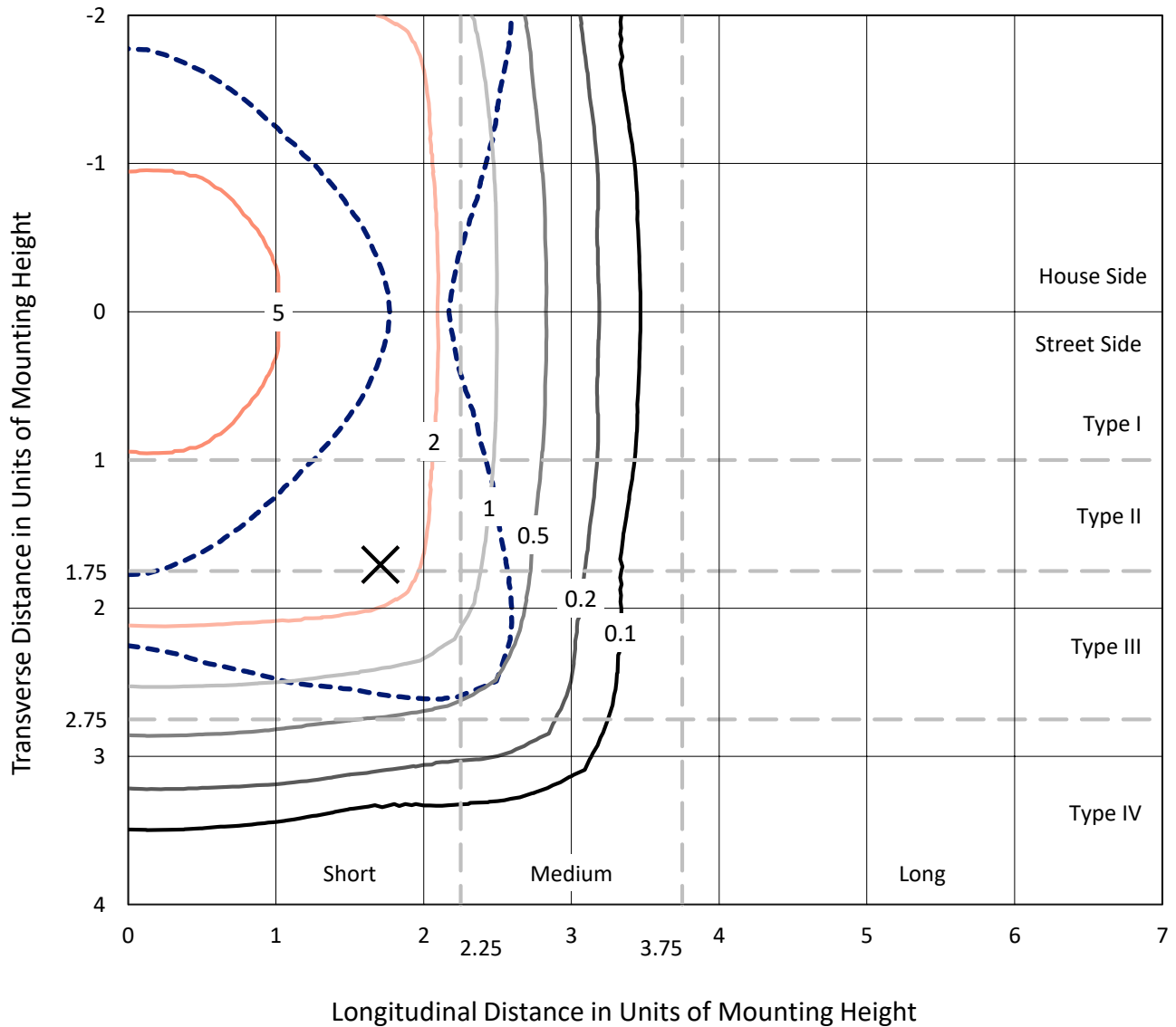
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

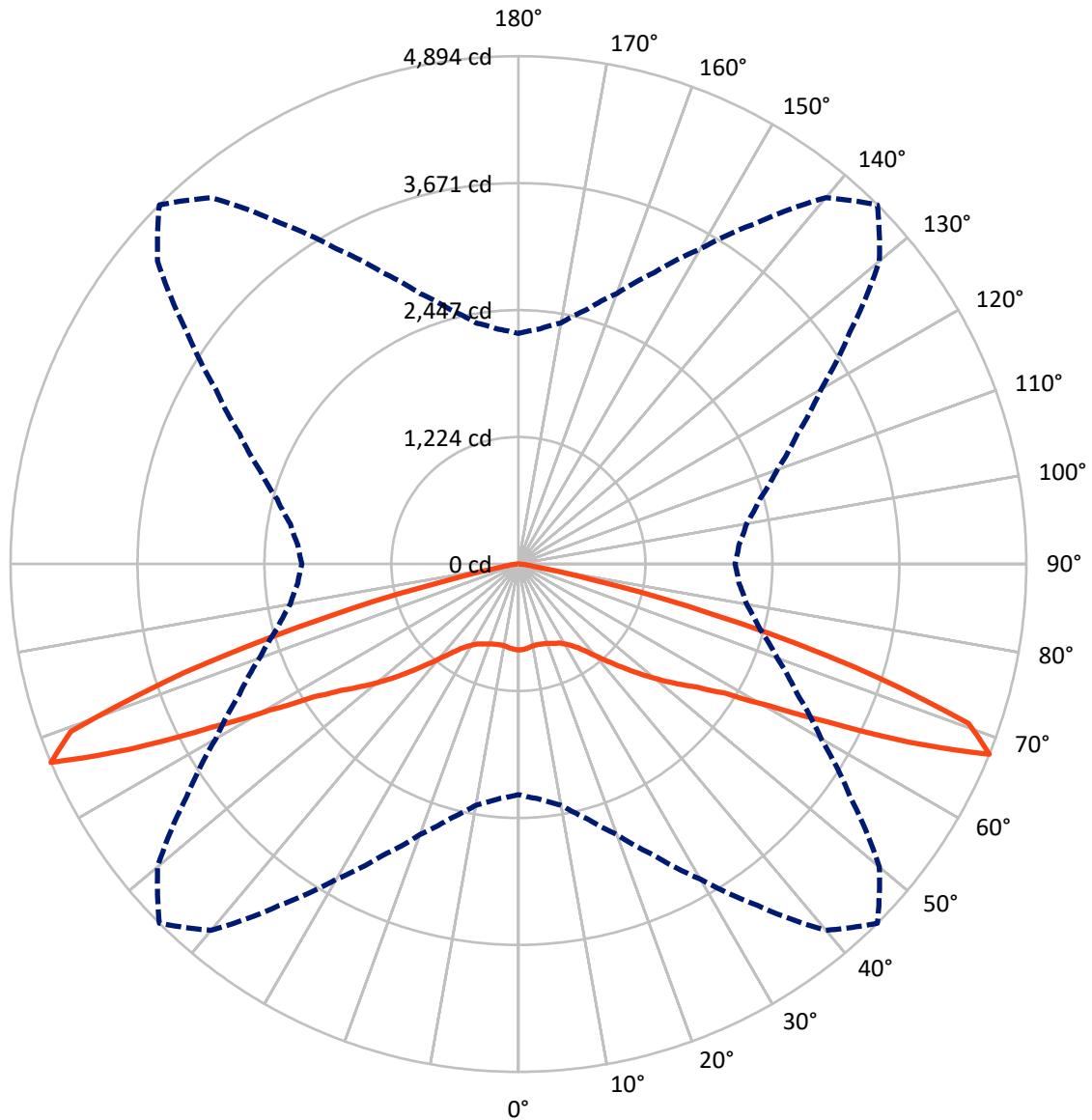
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	4157.9	0.0	4157.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4157.9	0.0	4157.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8315.8	0.0	8315.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	0.9
10°-20°	225.1	2.7
20°-30°	382.6	4.6
30°-40°	625.5	7.5
40°-50°	1116.6	13.4
50°-60°	1882.5	22.6
60°-70°	2921.4	35.1
70°-80°	1026.5	12.3
80°-90°	58.0	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°	8315.8	100.0
0°-180°	8315.8	100.0



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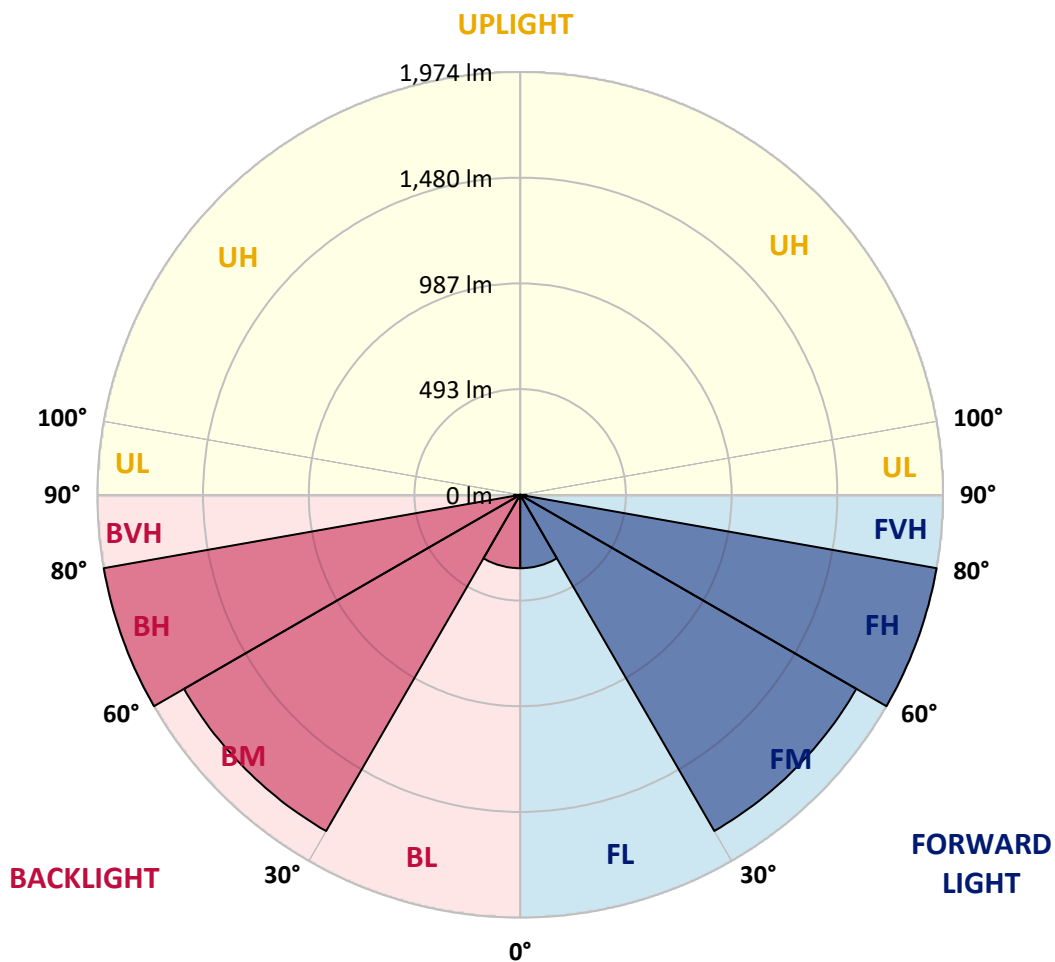
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.6	4.1			
FM	(30°-60°)	1812.3	21.8			
FH	(60°-80°)	1974.0	23.7			G2/5000
FVH	(80°-90°)	29.0	0.3			G1/100
BL	(0°-30°)	342.6	4.1	B1/500		
BM	(30°-60°)	1812.3	21.8	B2/2500		
BH	(60°-80°)	1974.0	23.7	B3/2500		G2/5000
BVH	(80°-90°)	29.0	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°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	825.7	826.4	826.4	826.4	826.0	826.0	825.2	826.0	825.7	824.5	824.9
5°	818.8	819.6	819.6	819.1	820.3	819.9	818.8	819.6	819.1	818.4	818.8
7.5°	808.8	809.9	809.9	809.6	810.7	810.3	809.6	809.9	809.9	808.8	808.8
10°	797.7	798.4	798.4	798.1	800.0	800.0	799.7	800.8	801.2	800.0	799.2
12.5°	787.4	788.6	788.6	790.1	792.0	792.7	794.7	796.2	797.7	797.4	795.9
15°	781.3	782.1	783.6	785.5	788.6	791.2	794.4	797.7	800.8	801.5	799.2
17.5°	777.5	778.6	780.8	783.6	787.8	792.3	796.9	801.5	805.8	807.3	804.5
20°	776.3	777.1	779.3	783.9	789.7	796.6	803.0	808.4	814.2	816.0	814.2
22.5°	778.6	780.1	782.9	788.2	795.9	804.5	812.3	819.6	826.8	830.3	827.5
25°	789.0	790.5	793.9	800.8	809.2	818.4	827.2	835.7	842.1	845.5	843.6
27.5°	808.1	809.9	814.2	821.1	830.3	840.2	849.7	856.6	861.9	863.1	860.9
30°	836.7	841.0	845.8	853.6	864.2	872.7	882.3	888.4	894.9	894.9	892.9
32.5°	881.5	885.6	891.0	898.3	906.8	915.9	924.4	929.7	936.6	936.9	932.3
35°	948.4	950.3	954.9	959.6	967.2	975.1	982.5	985.8	991.6	992.0	987.8
37.5°	1036.8	1037.1	1040.1	1041.7	1048.6	1057.4	1064.3	1066.6	1072.0	1071.2	1066.9
40°	1139.6	1141.5	1142.7	1144.9	1152.2	1160.7	1167.9	1169.1	1174.7	1173.7	1168.3
42.5°	1258.5	1259.3	1265.8	1269.3	1276.1	1280.3	1289.5	1290.7	1297.6	1294.5	1288.3
45°	1392.0	1398.8	1405.0	1411.8	1419.2	1424.0	1431.4	1429.8	1434.5	1429.8	1426.4
47.5°	1532.4	1537.3	1551.1	1561.8	1573.7	1577.8	1588.2	1583.6	1588.2	1581.6	1580.6
50°	1686.9	1695.6	1707.5	1719.7	1732.3	1739.2	1752.6	1746.8	1752.9	1746.8	1743.4
52.5°	1839.1	1841.3	1867.4	1885.3	1902.9	1911.0	1918.9	1916.3	1916.6	1916.3	1912.8
55°	1983.6	1988.9	2015.0	2039.5	2070.0	2092.6	2106.3	2104.8	2101.4	2097.9	2092.2
57.5°	2146.5	2151.9	2181.7	2211.9	2246.7	2278.8	2306.8	2335.4	2346.6	2349.6	2336.9
60°	2366.8	2366.4	2406.2	2442.9	2492.6	2540.4	2601.6	2664.0	2735.5	2768.7	2724.7
62.5°	2590.9	2600.1	2657.4	2722.4	2824.9	2924.8	3037.5	3148.5	3261.6	3353.8	3255.9
65°	2564.1	2599.3	2684.6	2831.8	3021.1	3246.0	3489.2	3746.5	3979.0	4138.8	3959.5
67.5°	2222.3	2272.4	2359.1	2538.1	2774.8	3099.1	3507.6	4016.5	4608.1	4894.2	4539.6
70°	1610.7	1667.3	1758.3	1933.2	2167.4	2475.9	2919.4	3530.5	4313.7	4602.0	4211.5
72.5°	801.5	832.1	888.4	999.6	1177.0	1427.2	1829.4	2417.0	3109.8	3374.5	3017.6
75°	272.3	286.5	296.0	332.3	388.5	486.9	686.8	1056.6	1611.9	1932.4	1588.9
77.5°	157.3	157.6	164.1	170.6	180.2	190.8	217.7	285.7	494.1	701.8	511.4
80°	101.7	101.4	106.7	111.7	118.2	123.6	125.1	132.3	152.6	181.0	161.8
82.5°	52.8	59.3	71.1	77.7	89.9	92.3	89.1	86.5	91.4	94.8	97.1
85°	29.1	25.2	37.9	48.9	54.3	55.0	55.0	52.0	54.0	52.8	57.4
87.5°	13.4	12.2	15.0	24.1	25.6	21.9	23.0	20.3	14.5	14.2	16.1
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°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	824.9	825.2	825.2	826.4	826.8	827.5	828.3	828.7
5°	818.4	819.6	818.8	819.9	819.9	820.6	820.6	821.1
7.5°	808.8	809.9	809.9	809.9	809.6	810.7	810.7	810.7
10°	798.9	799.7	799.2	798.4	797.7	798.9	798.4	798.1
12.5°	795.9	793.9	792.3	791.6	790.1	790.5	789.3	789.3
15°	797.7	794.4	791.6	790.5	789.0	788.2	787.4	787.8
17.5°	802.7	798.4	795.1	793.1	791.2	790.1	788.6	789.0
20°	811.5	806.6	801.5	797.7	794.4	792.3	791.2	790.8
22.5°	824.5	817.3	809.9	804.2	799.7	796.9	795.9	795.1
25°	839.4	831.4	822.9	816.5	811.9	808.4	806.2	806.2
27.5°	858.1	851.6	844.0	836.4	832.1	828.7	827.2	826.4
30°	889.5	883.4	877.3	870.0	864.7	861.2	858.6	856.3
32.5°	929.7	924.7	919.8	914.4	909.4	904.7	900.7	898.6
35°	986.3	982.5	979.0	972.9	971.0	968.2	966.0	964.1
37.5°	1064.3	1062.8	1062.8	1056.2	1054.7	1053.6	1051.3	1051.6
40°	1166.8	1168.3	1166.4	1164.0	1162.9	1159.9	1159.9	1162.5
42.5°	1287.9	1289.1	1293.3	1289.5	1293.7	1290.0	1287.6	1289.5
45°	1428.7	1432.9	1441.3	1437.6	1440.1	1433.7	1425.7	1426.1
47.5°	1586.7	1590.5	1593.9	1591.3	1591.6	1580.9	1570.2	1567.6
50°	1750.7	1752.2	1754.1	1750.4	1751.1	1739.2	1727.0	1727.4
52.5°	1912.8	1920.1	1927.8	1917.4	1915.1	1901.7	1884.5	1877.6
55°	2098.4	2108.6	2099.9	2081.8	2063.9	2045.9	2023.4	2019.5
57.5°	2327.0	2309.4	2281.9	2247.8	2223.0	2197.8	2174.8	2165.2
60°	2645.1	2579.1	2529.4	2478.9	2447.1	2416.2	2385.9	2381.3
62.5°	3094.9	2980.6	2881.5	2777.2	2691.8	2625.3	2572.2	2557.2
65°	3658.5	3388.2	3153.8	2935.0	2745.0	2601.6	2511.4	2471.6
67.5°	3901.0	3367.2	2965.3	2654.8	2406.2	2232.5	2135.0	2086.5
70°	3428.0	2792.4	2355.3	2044.4	1818.0	1632.9	1544.6	1492.6
72.5°	2358.4	1776.3	1404.6	1146.4	965.7	810.7	749.5	744.9
75°	1058.9	701.3	483.4	372.5	313.6	272.7	260.0	250.5
77.5°	296.4	219.2	195.5	182.8	170.6	156.5	151.1	152.2
80°	144.2	136.1	130.8	122.8	111.7	99.9	94.5	96.8
82.5°	95.6	94.5	97.9	92.3	76.2	64.7	54.3	49.7
85°	58.1	58.9	60.1	60.4	51.3	35.9	24.5	27.6
87.5°	23.0	26.4	28.7	29.8	28.0	17.3	13.7	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)