

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: P199916

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199916  
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-7030-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 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: 8337.5 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

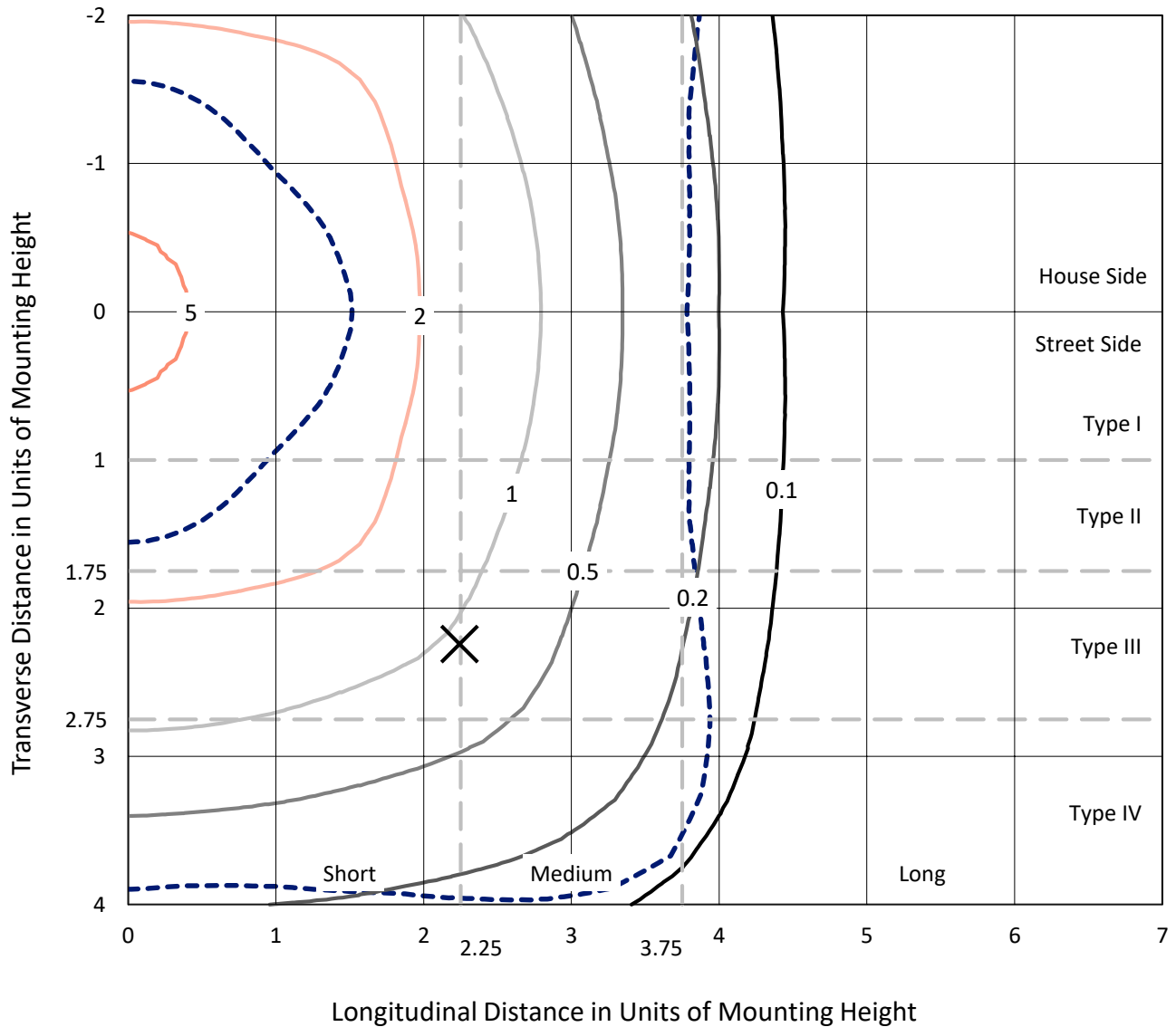
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

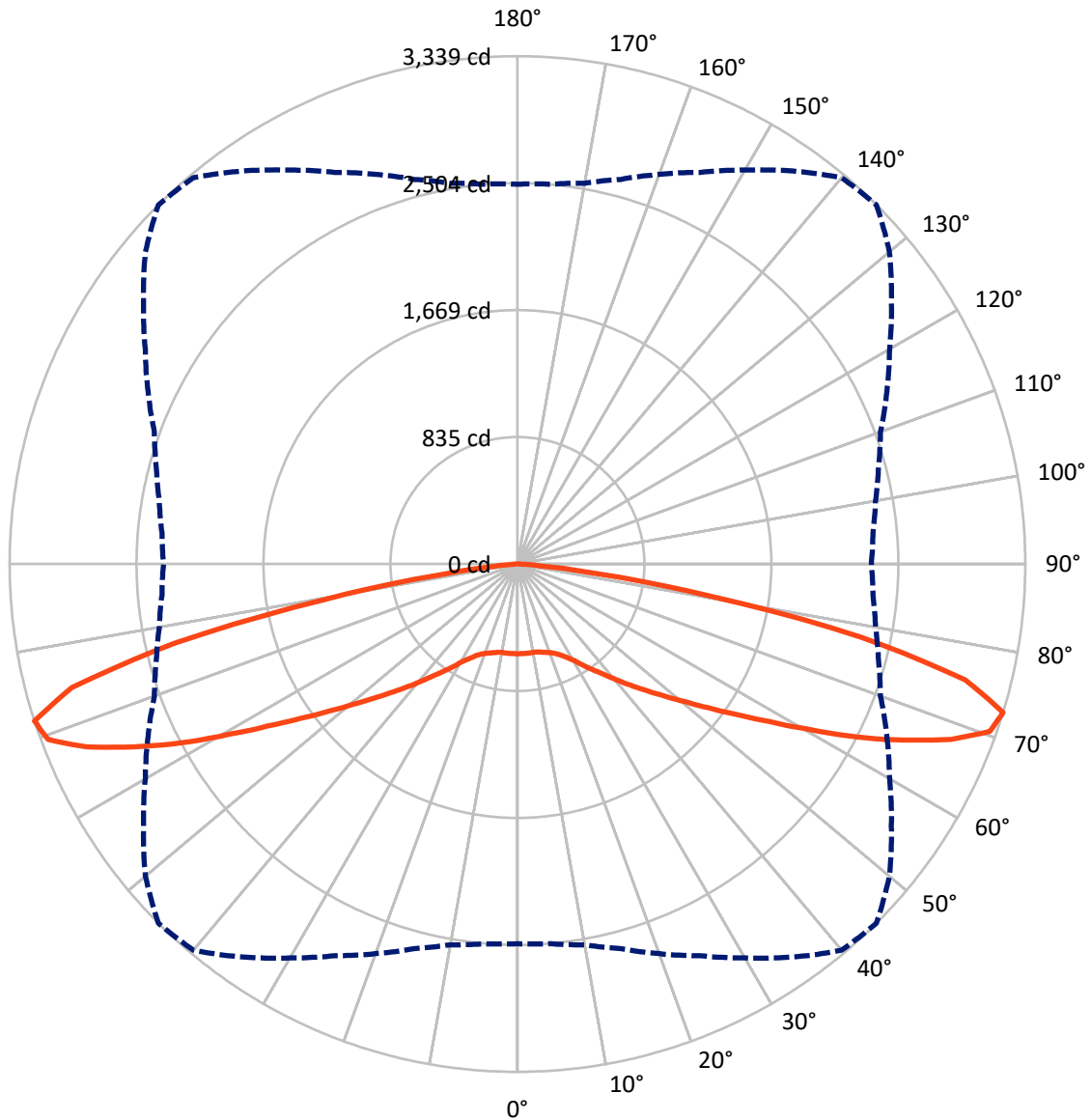
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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	4168.8	0.0	4168.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4168.8	0.0	4168.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8337.5	0.0	8337.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	0.7
10°-20°	171.2	2.1
20°-30°	312.9	3.8
30°-40°	539.5	6.5
40°-50°	922.3	11.1
50°-60°	1494.9	17.9
60°-70°	2480.0	29.7
70°-80°	2184.3	26.2
80°-90°	176.1	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°	8337.5	100.0
0°-180°	8337.5	100.0



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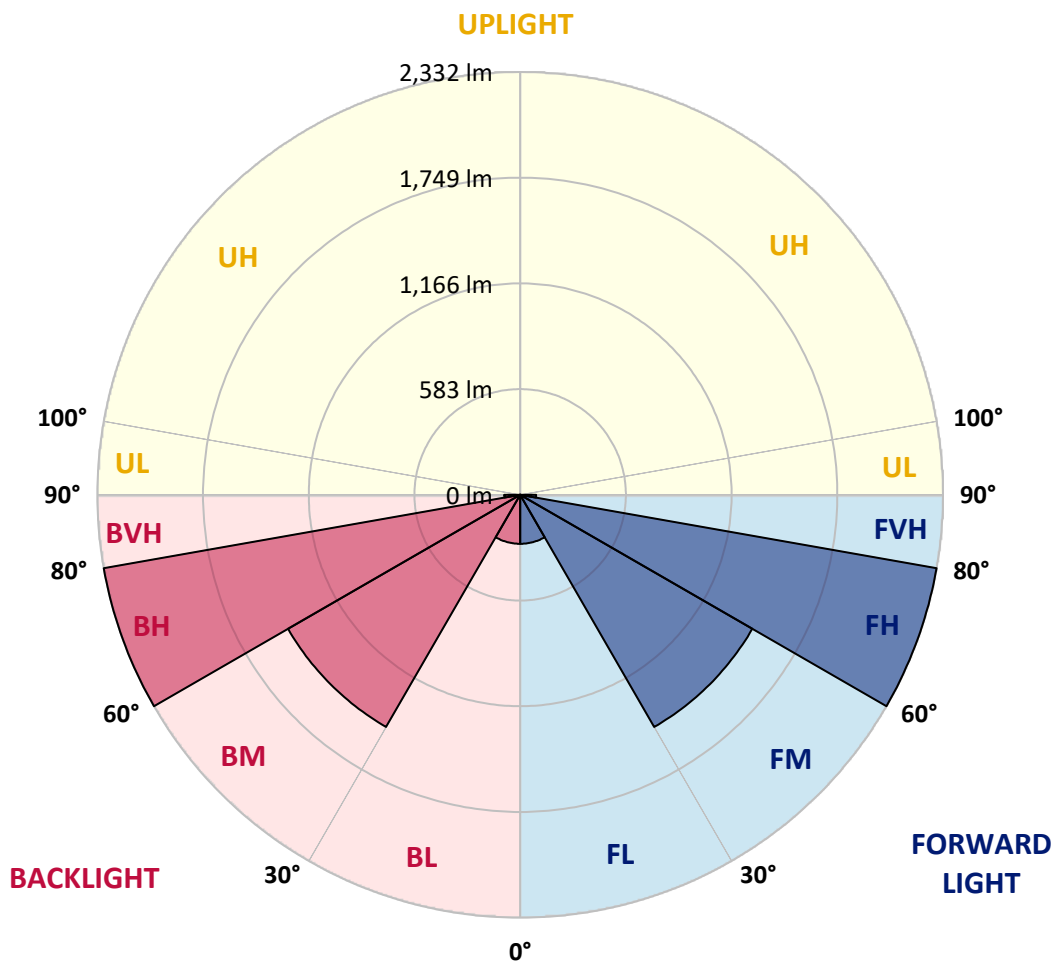
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.2	3.2			
FM (30°-60°)	1478.3	17.7			
FH (60°-80°)	2332.1	28.0			G2/5000
FVH (80°-90°)	88.0	1.1			G1/100
BL (0°-30°)	270.2	3.2	B1/500		
BM (30°-60°)	1478.3	17.7	B2/2500		
BH (60°-80°)	2332.1	28.0	B3/2500		G2/5000
BVH (80°-90°)	88.0	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°	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4
2.5°	590.4	590.8	591.2	590.8	590.8	590.4	590.0	590.4	590.0	589.2	589.7
5°	592.3	593.1	593.1	592.3	592.7	592.3	591.5	591.9	591.2	590.0	590.0
7.5°	594.6	595.0	595.0	594.3	594.6	593.9	593.1	592.7	591.9	590.4	589.2
10°	598.0	598.4	598.0	597.3	597.3	596.1	594.3	593.5	591.9	589.7	588.5
12.5°	601.9	602.2	601.9	601.2	600.7	598.8	597.3	596.1	595.0	593.1	591.2
15°	607.3	608.0	607.3	605.8	604.5	603.0	602.2	602.7	603.0	601.5	599.7
17.5°	617.2	617.6	616.4	613.0	611.5	609.8	609.8	610.6	611.9	611.1	609.1
20°	635.6	634.4	631.7	627.4	625.6	622.9	622.6	622.9	622.9	622.6	621.0
22.5°	658.5	657.7	654.3	648.9	646.3	644.7	642.5	640.5	640.1	638.9	637.4
25°	686.0	685.6	681.4	676.9	674.9	673.0	671.1	668.4	666.2	663.4	661.9
27.5°	721.2	719.7	713.6	711.3	708.5	707.5	704.7	701.7	699.8	696.3	694.5
30°	759.8	759.8	754.9	754.1	754.1	751.3	748.3	743.0	739.5	736.1	735.0
32.5°	798.4	798.8	793.9	795.4	796.5	798.4	799.2	797.3	795.0	794.7	792.3
35°	854.3	852.8	847.8	849.0	848.5	848.2	848.2	852.3	853.1	853.9	849.3
37.5°	923.5	923.5	918.6	918.6	916.2	914.0	910.9	913.5	917.8	918.9	915.8
40°	1002.7	1005.3	999.1	998.8	999.6	992.3	988.9	993.0	995.8	1000.4	996.9
42.5°	1096.0	1094.0	1087.9	1087.1	1083.0	1080.7	1077.7	1081.0	1085.3	1088.3	1089.5
45°	1185.5	1184.0	1177.0	1177.0	1172.8	1170.9	1172.5	1178.2	1180.1	1184.3	1188.5
47.5°	1273.8	1271.9	1267.3	1269.1	1269.6	1273.0	1278.0	1283.4	1288.7	1294.4	1296.4
50°	1364.0	1364.4	1359.4	1364.0	1369.8	1379.3	1392.7	1401.5	1412.6	1419.9	1422.1
52.5°	1446.3	1447.8	1453.1	1463.8	1475.3	1494.0	1516.9	1538.4	1556.7	1569.0	1568.2
55°	1544.9	1547.2	1560.2	1578.6	1597.3	1625.6	1659.6	1697.5	1728.1	1745.6	1734.6
57.5°	1671.1	1676.0	1690.6	1715.5	1743.3	1780.1	1826.7	1883.7	1931.1	1954.8	1936.8
60°	1844.3	1847.3	1864.9	1892.5	1926.1	1971.7	2034.0	2110.5	2177.4	2208.7	2188.1
62.5°	2072.6	2078.3	2092.6	2120.4	2154.8	2206.5	2282.5	2378.1	2461.5	2505.1	2458.5
65°	2345.2	2363.6	2375.6	2403.8	2435.9	2490.6	2570.1	2672.6	2762.1	2790.8	2736.8
67.5°	2615.2	2631.3	2651.9	2684.5	2717.0	2778.6	2852.3	2951.7	3050.1	3076.0	2992.3
70°	2733.4	2742.6	2774.7	2819.1	2881.3	2954.1	3039.4	3151.0	3272.7	3294.0	3187.7
72.5°	2496.7	2505.9	2541.8	2617.2	2725.8	2841.3	2990.0	3154.1	3314.7	3338.8	3192.3
75°	1888.3	1873.4	1926.6	2026.3	2172.8	2333.8	2541.8	2777.1	3009.1	3039.4	2864.6
77.5°	975.9	973.9	1014.2	1138.1	1312.8	1496.0	1724.9	1990.8	2218.0	2309.7	2167.4
80°	274.9	277.9	297.0	358.7	460.7	593.1	772.0	1021.0	1206.9	1301.8	1222.2
82.5°	107.8	116.3	123.5	134.9	148.4	167.8	224.1	333.5	447.4	534.6	437.8
85°	38.6	41.3	58.5	69.2	70.4	74.2	84.4	98.7	118.9	141.8	116.6
87.5°	14.5	16.1	18.7	30.9	30.6	27.9	34.0	35.5	26.8	24.5	30.1
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°	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4
2.5°	588.9	589.2	589.2	589.7	590.0	590.0	590.8	590.8
5°	589.2	589.2	588.5	588.9	588.5	588.5	588.9	588.9
7.5°	588.5	588.2	587.4	586.9	586.1	586.1	586.1	586.1
10°	587.4	586.9	586.1	585.8	585.4	585.4	585.4	585.4
12.5°	590.4	589.2	588.5	588.2	588.2	588.2	588.2	588.2
15°	598.4	595.8	593.9	593.9	594.3	595.0	595.0	595.8
17.5°	608.3	605.3	603.4	601.9	602.7	603.7	604.5	605.3
20°	620.3	618.7	616.0	614.5	614.5	616.0	616.8	617.2
22.5°	636.7	635.6	634.4	632.5	632.5	633.2	634.8	634.8
25°	661.1	660.4	659.6	658.1	657.7	657.7	658.5	659.3
27.5°	691.7	692.1	691.4	690.9	689.9	689.4	690.6	690.2
30°	732.7	734.6	736.5	735.0	733.0	731.9	730.7	729.2
32.5°	788.1	785.8	784.3	781.6	778.2	775.0	772.8	770.2
35°	840.5	836.7	835.2	837.5	837.0	835.2	832.4	830.2
37.5°	904.7	904.0	904.7	908.9	908.2	910.1	904.7	904.3
40°	985.8	986.6	992.0	996.9	999.6	1002.2	999.1	996.1
42.5°	1079.9	1079.5	1081.4	1088.3	1092.9	1096.0	1089.5	1088.7
45°	1179.4	1176.6	1178.2	1184.0	1188.5	1191.9	1184.7	1184.7
47.5°	1288.7	1284.2	1279.1	1285.7	1288.2	1290.6	1284.9	1282.9
50°	1410.6	1401.1	1390.5	1393.0	1393.0	1392.3	1385.1	1384.7
52.5°	1550.6	1533.0	1513.6	1506.2	1502.1	1497.5	1484.9	1478.8
55°	1711.6	1685.3	1654.6	1635.9	1626.0	1613.3	1592.4	1586.6
57.5°	1899.8	1858.5	1805.7	1782.8	1760.6	1740.0	1716.6	1710.1
60°	2122.7	2061.9	1991.9	1949.5	1925.3	1905.5	1881.5	1880.3
62.5°	2371.3	2275.4	2196.1	2157.9	2140.3	2122.7	2099.8	2102.8
65°	2624.1	2523.9	2449.7	2418.7	2402.3	2387.8	2364.8	2368.2
67.5°	2873.4	2781.2	2699.8	2668.0	2649.6	2631.3	2610.6	2614.1
70°	3052.3	2938.0	2846.2	2775.8	2731.9	2682.2	2650.1	2642.0
72.5°	3001.2	2824.8	2679.1	2539.5	2457.7	2391.1	2346.1	2326.5
75°	2597.3	2356.4	2169.1	1997.7	1901.3	1822.9	1765.9	1730.3
77.5°	1928.9	1658.1	1436.6	1239.3	1083.3	978.5	904.7	856.9
80°	1055.8	803.0	586.9	412.6	303.2	252.0	222.6	208.3
82.5°	328.9	212.2	156.3	134.9	125.4	120.0	111.2	97.1
85°	104.8	91.8	85.2	81.4	77.6	67.6	46.7	42.4
87.5°	40.5	41.6	41.3	39.0	39.8	28.6	23.0	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)