

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: P200220

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200220  
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-7050-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8598 lumens  
Efficiency: N/A  
Efficacy: 130.3 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

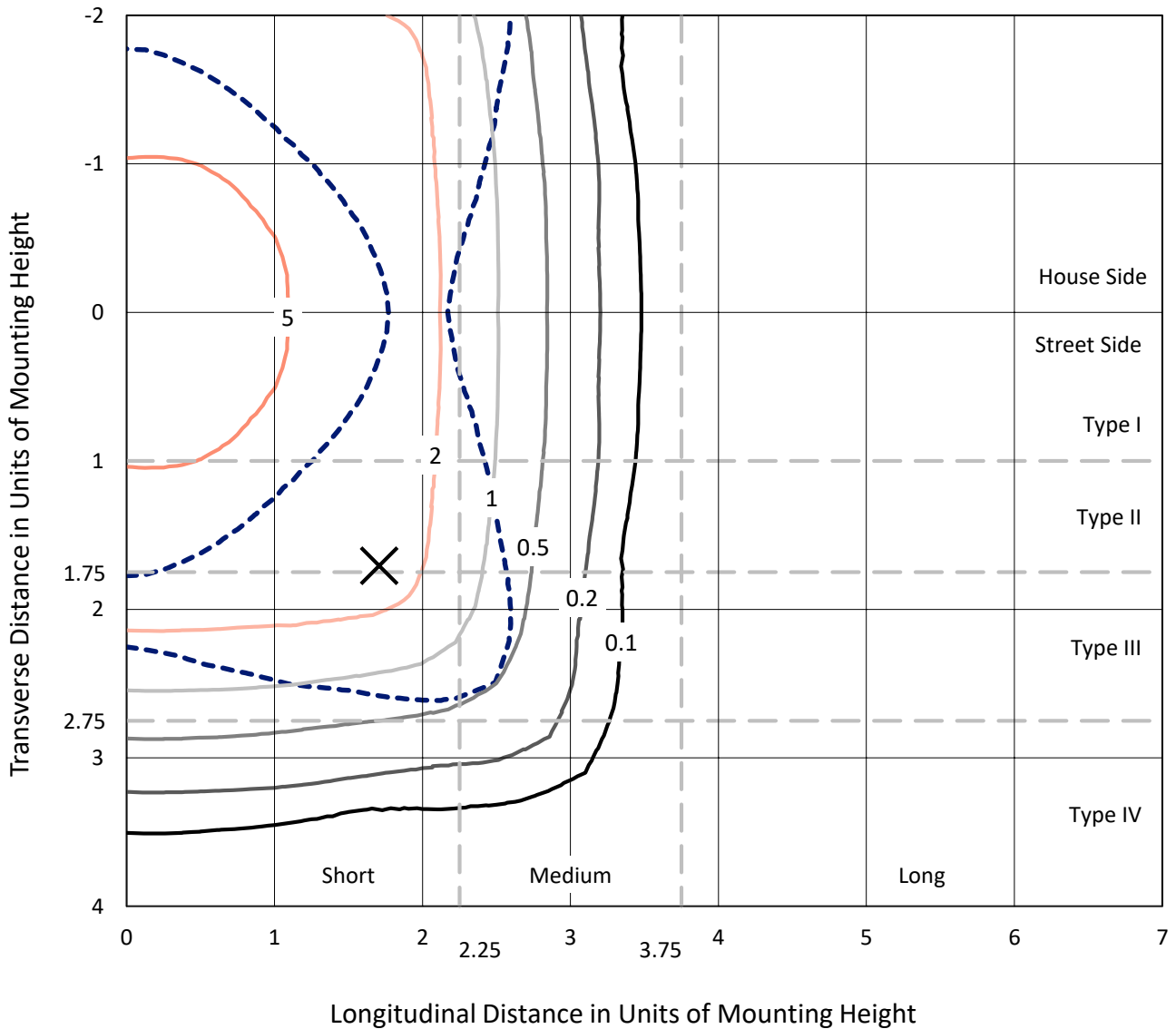
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

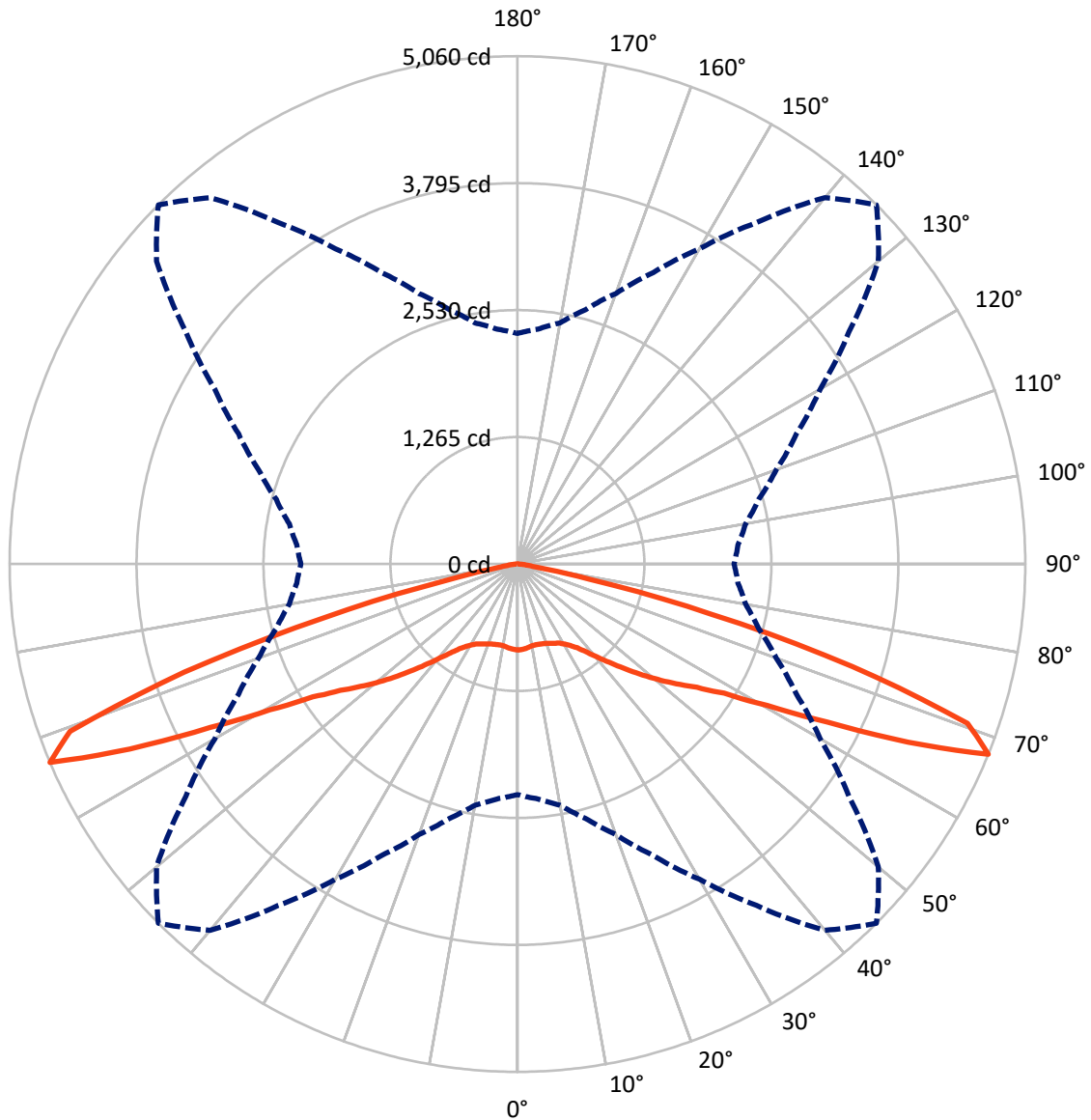
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 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	4299.0	0.0	4299.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4299.0	0.0	4299.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8598.0	0.0	8598.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	0.9
10°-20°	232.7	2.7
20°-30°	395.6	4.6
30°-40°	646.7	7.5
40°-50°	1154.5	13.4
50°-60°	1946.5	22.6
60°-70°	3020.6	35.1
70°-80°	1061.3	12.3
80°-90°	60.0	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°	8598.0	100.0
0°-180°	8598.0	100.0

**Coefficient of Utilization**



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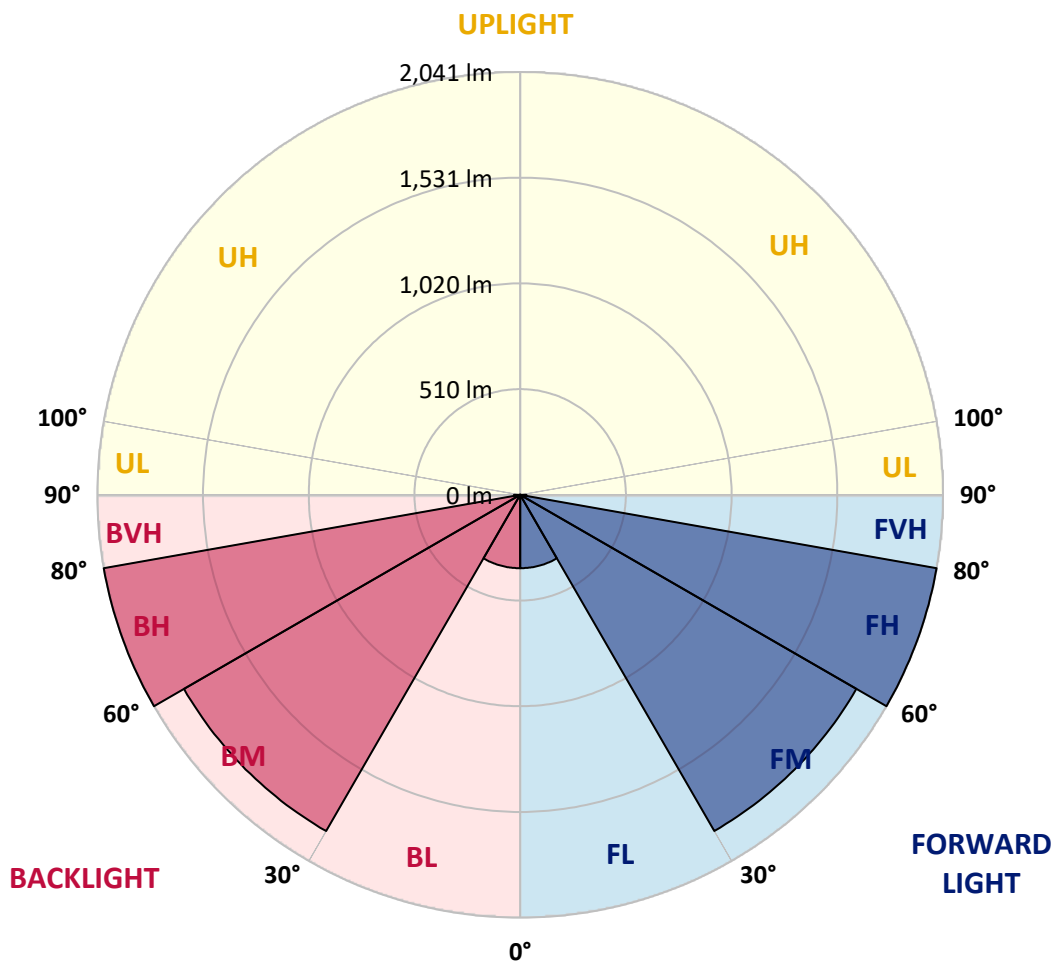
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.3	4.1			
FM	(30°-60°)	1873.8	21.8			
FH	(60°-80°)	2041.0	23.7			G2/5000
FVH	(80°-90°)	30.0	0.3			G1/100
BL	(0°-30°)	354.3	4.1	B1/500		
BM	(30°-60°)	1873.8	21.8	B2/2500		
BH	(60°-80°)	2041.0	23.7	B3/2500		G2/5000
BVH	(80°-90°)	30.0	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°	856.8	856.8	856.8	856.8	856.8	856.8	856.8	856.8	856.8	856.8	856.8
2.5°	853.7	854.5	854.5	854.5	854.1	854.1	853.3	854.1	853.7	852.5	852.9
5°	846.5	847.3	847.3	846.9	848.1	847.7	846.5	847.3	846.9	846.2	846.5
7.5°	836.3	837.5	837.5	837.1	838.2	837.8	837.1	837.5	837.5	836.3	836.3
10°	824.8	825.6	825.6	825.2	827.2	827.2	826.8	828.0	828.4	827.2	826.4
12.5°	814.1	815.3	815.3	816.9	818.9	819.7	821.6	823.2	824.8	824.4	822.8
15°	807.8	808.6	810.2	812.1	815.3	818.1	821.2	824.8	828.0	828.8	826.4
17.5°	803.8	805.0	807.4	810.2	814.5	819.3	824.0	828.8	833.1	834.7	831.9
20°	802.7	803.4	805.8	810.6	816.5	823.6	830.3	835.9	841.8	843.8	841.8
22.5°	805.0	806.6	809.4	814.9	822.8	831.9	839.8	847.3	854.8	858.4	855.6
25°	815.7	817.3	820.8	828.0	836.7	846.2	855.2	863.9	870.7	874.2	872.2
27.5°	835.5	837.5	841.8	848.9	858.4	868.7	878.6	885.7	891.2	892.4	890.0
30°	865.1	869.5	874.6	882.5	893.6	902.3	912.2	918.5	925.2	925.2	923.3
32.5°	911.4	915.7	921.3	928.8	937.5	947.0	955.7	961.2	968.3	968.7	964.0
35°	980.6	982.6	987.3	992.1	1000.0	1008.3	1015.8	1019.3	1025.3	1025.7	1021.3
37.5°	1071.9	1072.3	1075.5	1077.1	1084.2	1093.3	1100.4	1102.8	1108.3	1107.5	1103.2
40°	1178.3	1180.3	1181.4	1183.8	1191.3	1200.0	1207.5	1208.7	1214.7	1213.5	1207.9
42.5°	1301.3	1302.0	1308.8	1312.3	1319.4	1323.8	1333.3	1334.5	1341.6	1338.4	1332.1
45°	1439.2	1446.4	1452.7	1459.8	1467.3	1472.5	1480.0	1478.4	1483.1	1478.4	1474.8
47.5°	1584.4	1589.5	1603.7	1614.8	1627.1	1631.4	1642.1	1637.3	1642.1	1635.4	1634.2
50°	1744.1	1753.2	1765.5	1778.1	1791.2	1798.3	1812.1	1806.2	1812.5	1806.2	1802.6
52.5°	1901.5	1903.8	1930.7	1949.3	1967.5	1975.8	1984.1	1981.3	1981.7	1981.3	1977.8
55°	2050.9	2056.5	2083.4	2108.7	2140.3	2163.6	2177.9	2176.3	2172.7	2169.2	2163.2
57.5°	2219.4	2224.9	2255.7	2287.0	2323.0	2356.2	2385.0	2414.7	2426.2	2429.3	2416.3
60°	2447.1	2446.7	2487.8	2525.8	2577.2	2626.6	2689.9	2754.3	2828.3	2862.7	2817.2
62.5°	2678.8	2688.3	2747.6	2814.8	2920.8	3024.0	3140.6	3255.3	3372.3	3467.6	3366.4
65°	2651.1	2687.5	2775.7	2927.9	3123.6	3356.1	3607.6	3873.7	4114.1	4279.4	4093.9
67.5°	2297.7	2349.5	2439.2	2624.3	2869.0	3204.3	3626.6	4152.9	4764.5	5060.3	4693.8
70°	1665.4	1723.9	1818.0	1998.7	2241.1	2559.8	3018.5	3650.3	4460.1	4758.2	4354.5
72.5°	828.8	860.4	918.5	1033.6	1217.0	1475.6	1891.6	2498.9	3215.4	3489.0	3120.1
75°	281.5	296.2	306.0	343.6	401.7	503.3	710.1	1092.5	1666.6	1997.9	1642.9
77.5°	162.5	162.9	169.6	176.3	186.2	197.3	225.0	295.4	510.9	725.6	528.6
80°	105.2	104.8	110.3	115.5	122.2	127.7	129.3	136.8	157.8	187.0	167.3
82.5°	54.6	61.3	73.5	80.3	92.9	95.3	92.1	89.4	94.5	98.1	100.4
85°	30.1	26.1	39.1	50.6	56.1	56.9	56.9	53.8	55.8	54.6	59.3
87.5°	13.8	12.7	15.4	24.9	26.5	22.5	23.7	21.0	15.0	14.6	16.6
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°	856.8	856.8	856.8	856.8	856.8	856.8	856.8	856.8
2.5°	852.9	853.3	853.3	854.5	854.8	855.6	856.4	856.8
5°	846.2	847.3	846.5	847.7	847.7	848.5	848.5	848.9
7.5°	836.3	837.5	837.5	837.5	837.1	838.2	838.2	838.2
10°	826.0	826.8	826.4	825.6	824.8	826.0	825.6	825.2
12.5°	822.8	820.8	819.3	818.5	816.9	817.3	816.1	816.1
15°	824.8	821.2	818.5	817.3	815.7	814.9	814.1	814.5
17.5°	829.9	825.6	822.0	820.1	818.1	816.9	815.3	815.7
20°	839.0	833.9	828.8	824.8	821.2	819.3	818.1	817.7
22.5°	852.5	845.0	837.5	831.5	826.8	824.0	822.8	822.0
25°	867.9	859.6	850.9	844.2	839.4	835.9	833.5	833.5
27.5°	887.3	880.6	872.6	864.7	860.4	856.8	855.2	854.5
30°	919.7	913.4	907.0	899.5	894.0	890.4	887.7	885.3
32.5°	961.2	956.1	950.9	945.4	940.3	935.5	931.2	929.2
35°	1019.7	1015.8	1012.2	1005.9	1003.9	1001.1	998.8	996.8
37.5°	1100.4	1098.8	1098.8	1092.1	1090.5	1089.3	1086.9	1087.3
40°	1206.4	1207.9	1206.0	1203.6	1202.4	1199.2	1199.2	1202.0
42.5°	1331.7	1332.9	1337.2	1333.3	1337.6	1333.7	1331.3	1333.3
45°	1477.2	1481.6	1490.3	1486.3	1489.1	1482.3	1474.0	1474.4
47.5°	1640.5	1644.5	1648.0	1645.3	1645.6	1634.6	1623.5	1620.7
50°	1810.1	1811.7	1813.7	1809.7	1810.5	1798.3	1785.6	1786.0
52.5°	1977.8	1985.3	1993.2	1982.5	1980.2	1966.3	1948.5	1941.4
55°	2169.5	2180.2	2171.1	2152.5	2134.0	2115.4	2092.0	2088.1
57.5°	2406.0	2387.8	2359.3	2324.1	2298.4	2272.4	2248.6	2238.7
60°	2735.0	2666.6	2615.2	2563.0	2530.2	2498.1	2466.9	2462.1
62.5°	3200.0	3081.7	2979.3	2871.4	2783.2	2714.4	2659.4	2644.0
65°	3782.8	3503.2	3260.8	3034.7	2838.2	2689.9	2596.6	2555.5
67.5°	4033.5	3481.5	3065.9	2744.9	2487.8	2308.3	2207.5	2157.3
70°	3544.3	2887.2	2435.3	2113.8	1879.7	1688.3	1597.0	1543.2
72.5°	2438.4	1836.6	1452.3	1185.4	998.4	838.2	775.0	770.2
75°	1094.9	725.2	499.8	385.1	324.2	281.9	268.9	259.0
77.5°	306.4	226.6	202.0	189.0	176.3	161.7	156.2	157.4
80°	149.1	140.8	135.2	126.9	115.5	103.2	97.7	100.0
82.5°	98.8	97.7	101.2	95.3	78.7	66.8	56.1	51.4
85°	60.1	60.9	62.1	62.5	53.0	37.2	25.3	28.5
87.5°	23.7	27.3	29.7	30.8	28.9	17.8	14.2	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)