

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: INVUE

Report Number: P140283

Luminaire Tested: **ECM-F03-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140283  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F03-LED-E1-5MQ-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6383 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

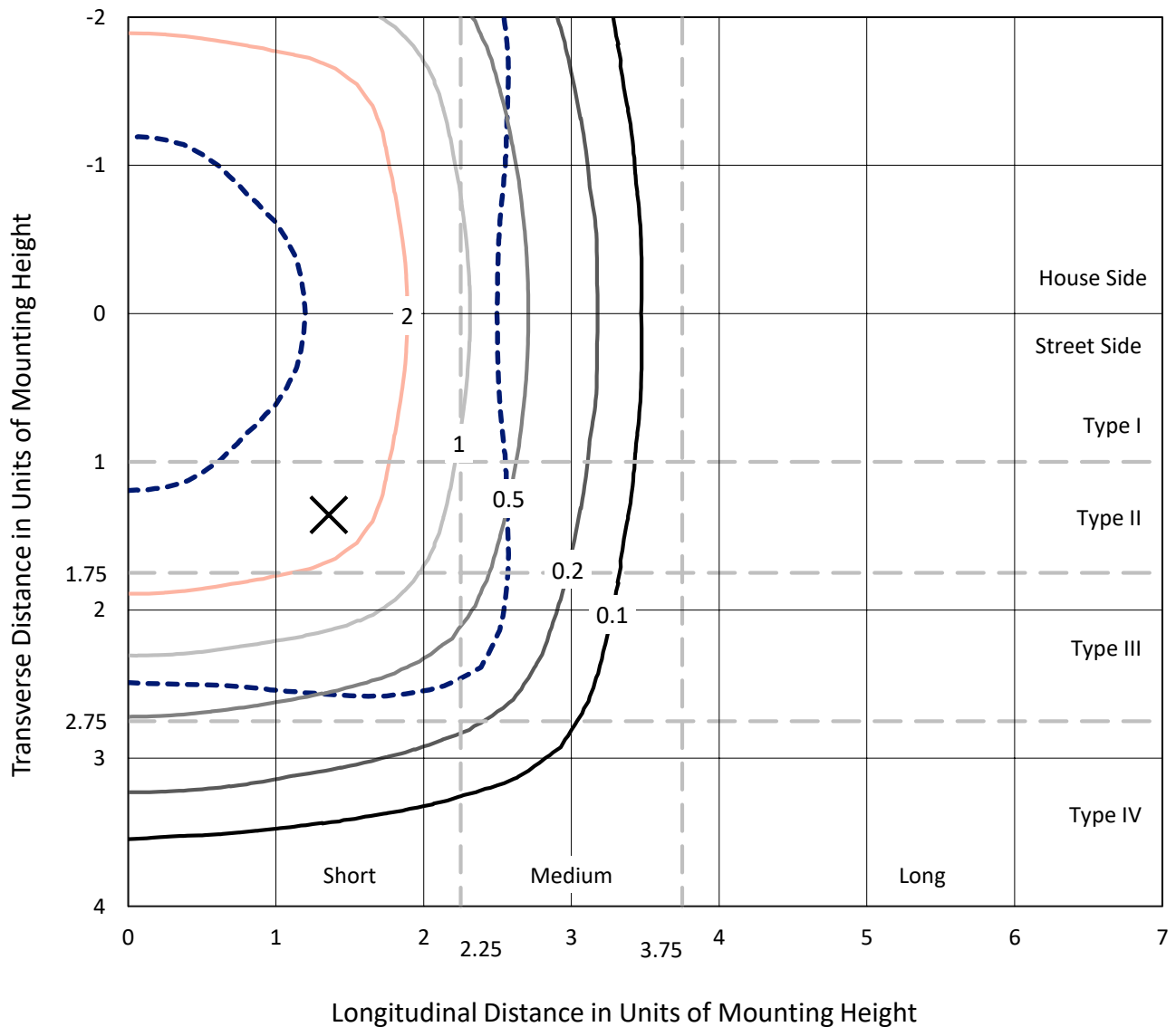
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P140283  
CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

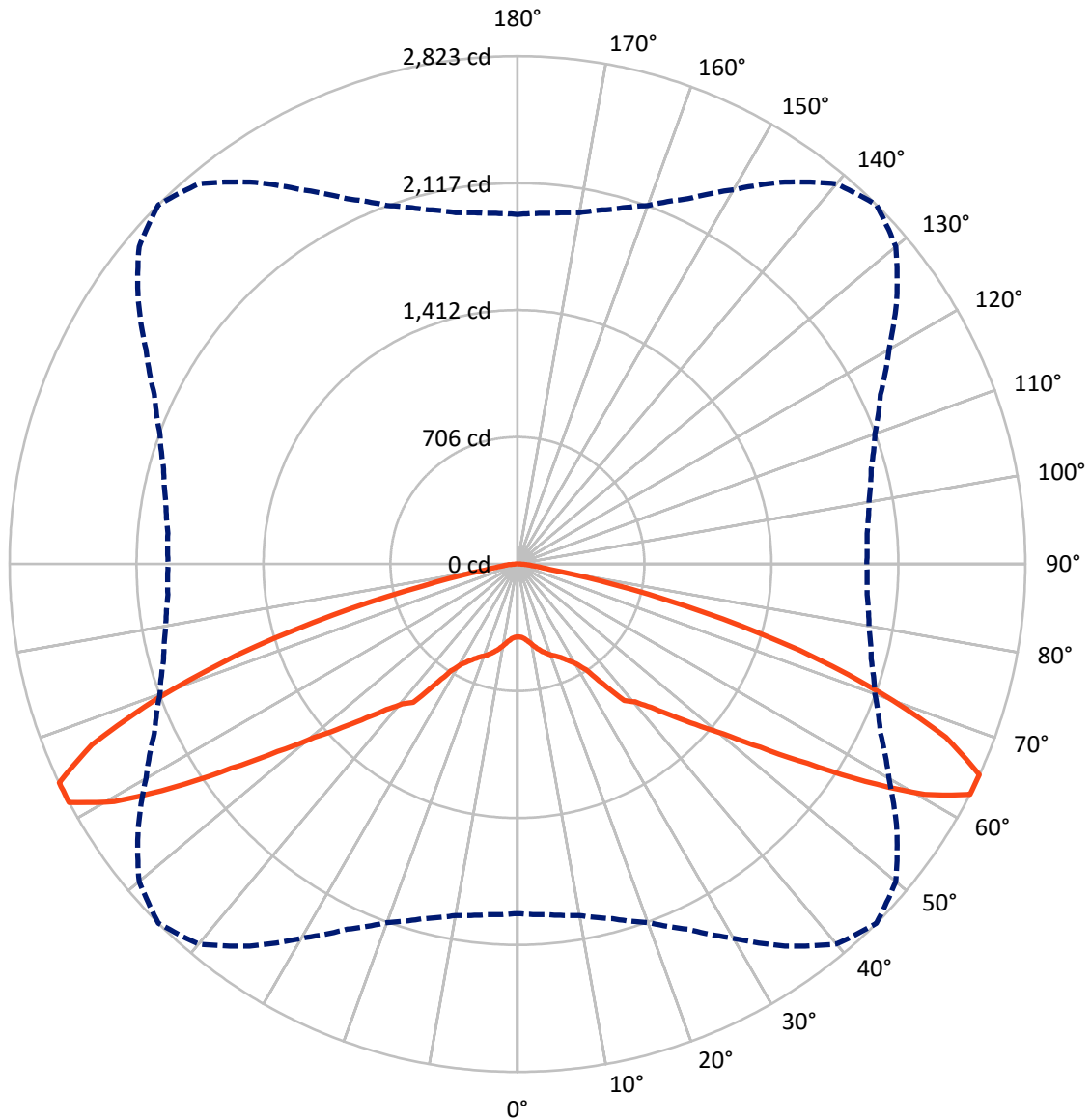
× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
Type V - Short - Full Cutoff

REPORT NUMBER: P140283  
CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P140283

CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3191.5	0.0	3191.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3191.5	0.0	3191.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6383.0	0.0	6383.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	0.6
10°-20°	143.4	2.2
20°-30°	275.5	4.3
30°-40°	530.0	8.3
40°-50°	922.5	14.5
50°-60°	1656.9	26.0
60°-70°	2031.1	31.8
70°-80°	716.3	11.2
80°-90°	66.2	1.0
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°	6383.0	100.0
0°-180°	6383.0	100.0



REPORT NUMBER: P140283

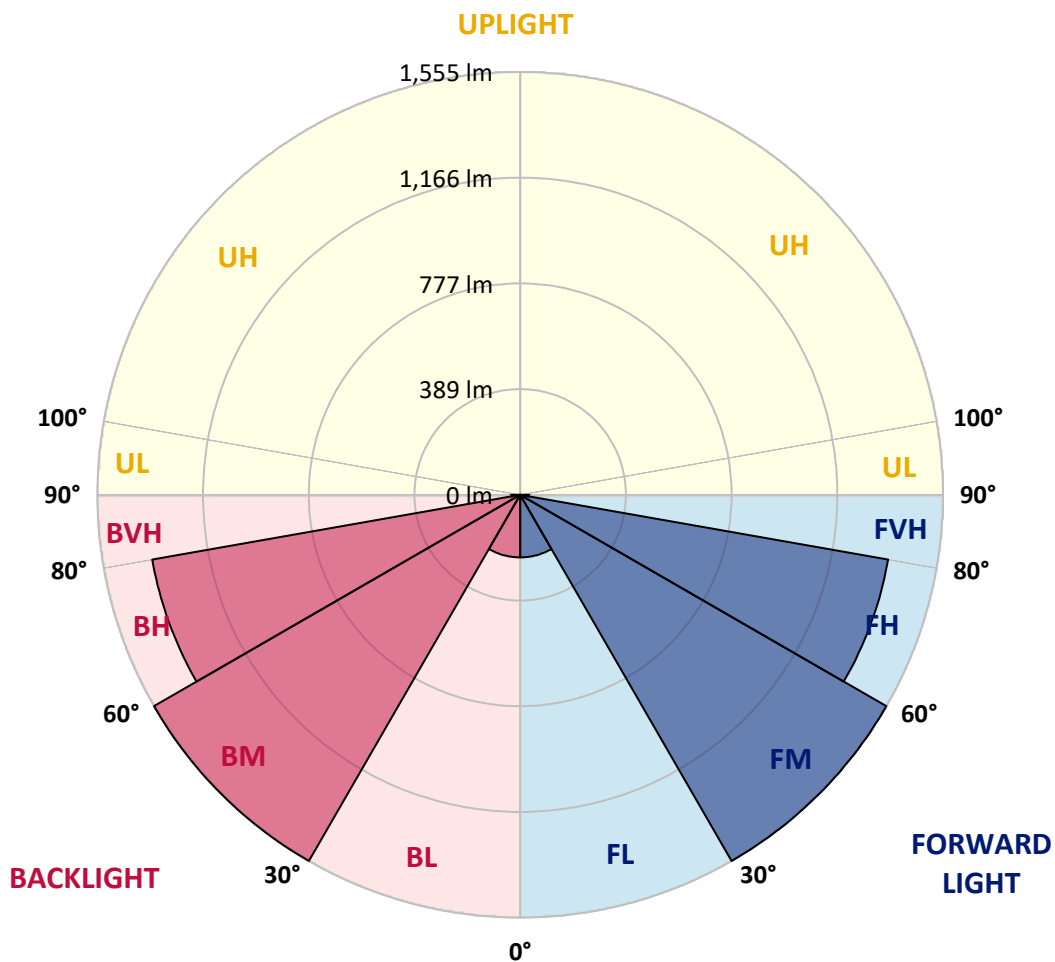
CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.1	3.6			
FM	(30°-60°)	1554.7	24.4			
FH	(60°-80°)	1373.7	21.5			G1/1800
FVH	(80°-90°)	33.1	0.5			G1/100
BL	(0°-30°)	230.1	3.6	B1/500		
BM	(30°-60°)	1554.7	24.4	B2/2500		
BH	(60°-80°)	1373.7	21.5	B3/2500		G1/1800
BVH	(80°-90°)	33.1	0.5			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





REPORT NUMBER: P140283

CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
2.5°	409.7	409.7	409.0	408.3	408.3	408.3	407.6	407.6	408.3	406.9	406.9
5°	420.1	420.8	420.1	419.4	418.7	418.7	418.0	418.0	418.7	417.3	416.6
7.5°	439.6	440.3	438.9	438.2	437.5	436.9	436.2	435.5	436.2	434.1	434.1
10°	464.7	464.7	464.7	461.9	461.9	459.8	459.1	457.8	458.5	456.4	456.4
12.5°	489.8	489.8	489.1	487.7	487.0	485.6	484.2	484.2	482.8	480.1	478.7
15°	512.1	512.8	512.1	510.0	509.3	507.2	507.2	505.8	503.7	502.3	501.0
17.5°	533.0	533.7	531.6	530.9	528.8	527.4	526.0	525.3	523.9	521.9	521.2
20°	553.2	552.5	550.4	547.6	546.2	544.8	543.5	542.8	542.1	540.7	540.7
22.5°	572.7	572.7	570.6	566.4	563.7	562.3	560.2	558.8	557.4	556.7	558.1
25°	602.0	601.3	597.1	592.9	588.0	583.9	581.1	580.4	579.0	579.0	579.7
27.5°	639.6	638.2	631.9	626.4	620.8	615.2	611.7	608.9	608.3	607.6	607.6
30°	687.0	684.9	679.3	672.3	666.1	659.1	652.1	650.1	646.6	643.8	648.7
32.5°	777.6	779.0	767.8	753.9	739.9	726.7	714.9	705.8	700.2	700.9	700.9
35°	877.2	877.9	873.0	867.4	863.3	855.6	842.4	831.2	822.8	813.8	818.0
37.5°	920.4	921.1	916.9	916.2	919.0	923.9	937.1	946.9	961.5	963.6	959.4
40°	996.3	992.8	987.3	985.9	983.8	990.8	996.3	1001.2	1003.3	1007.5	1003.3
42.5°	1075.8	1074.4	1070.2	1065.3	1065.3	1066.7	1075.8	1083.4	1088.3	1089.0	1088.3
45°	1164.9	1162.9	1159.4	1158.7	1160.8	1167.0	1173.3	1183.1	1198.4	1199.1	1198.4
47.5°	1263.2	1264.6	1259.0	1261.1	1264.6	1275.0	1292.4	1308.5	1325.2	1331.5	1323.8
50°	1397.7	1392.8	1392.8	1390.7	1399.7	1415.1	1436.0	1454.8	1478.5	1484.0	1472.2
52.5°	1580.2	1569.7	1571.8	1566.3	1571.1	1585.1	1619.2	1648.5	1678.4	1693.1	1670.1
55°	1799.7	1782.2	1784.3	1789.9	1794.1	1817.8	1861.0	1894.4	1950.9	1955.7	1929.3
57.5°	1979.4	1974.5	1977.3	1990.6	2017.0	2058.2	2112.5	2193.3	2263.0	2279.7	2251.2
60°	2044.9	2048.4	2067.9	2102.7	2152.9	2226.1	2332.0	2458.1	2568.9	2602.3	2559.1
62.5°	1943.2	1957.1	1983.6	2041.4	2120.9	2240.0	2402.3	2592.6	2758.4	2823.2	2745.8
65°	1744.6	1753.7	1796.9	1846.3	1948.8	2085.3	2284.6	2531.9	2736.1	2821.8	2735.4
67.5°	1484.0	1501.5	1539.1	1600.4	1688.9	1827.5	2036.6	2289.5	2494.3	2569.6	2493.6
70°	1191.4	1199.1	1222.8	1270.8	1362.8	1485.4	1664.5	1890.9	2090.2	2137.6	2077.0
72.5°	826.3	841.7	861.9	905.8	963.6	1067.4	1215.1	1381.6	1541.9	1640.1	1550.9
75°	356.0	335.8	380.4	424.3	495.4	591.5	707.2	843.7	1002.6	1068.1	980.3
77.5°	106.6	105.9	112.9	125.4	150.5	199.3	279.4	371.4	494.0	536.5	460.5
80°	87.1	89.9	92.7	95.5	98.2	101.7	108.0	126.1	154.7	182.5	148.4
82.5°	73.9	77.3	85.0	89.2	91.3	92.0	92.0	91.3	87.8	86.4	85.7
85°	55.7	61.3	71.8	78.0	78.0	78.0	78.0	75.9	71.1	62.7	69.7
87.5°	18.8	25.1	41.8	44.6	46.0	42.5	44.6	45.3	37.6	28.6	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P140283

CATALOG NUMBER: ECM-F03-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
2.5°	406.9	406.9	406.9	407.6	406.9	406.9	406.9	406.9
5°	417.3	416.6	417.3	416.6	417.3	417.3	416.6	417.3
7.5°	433.4	433.4	434.1	434.1	433.4	433.4	433.4	433.4
10°	455.0	453.6	454.3	454.3	454.3	453.6	453.6	452.9
12.5°	477.3	475.9	475.9	475.9	475.9	475.2	475.9	475.9
15°	498.2	496.8	495.4	495.4	496.1	496.8	496.8	496.1
17.5°	518.4	517.0	514.9	514.9	514.2	515.6	517.0	516.3
20°	538.6	537.9	534.4	534.4	534.4	535.8	536.5	538.6
22.5°	558.8	558.1	555.3	554.6	555.3	558.1	560.2	560.2
25°	580.4	581.8	581.1	581.1	582.5	586.7	588.7	591.5
27.5°	611.0	613.8	614.5	617.3	618.0	622.9	626.4	630.5
30°	650.8	655.6	658.4	663.3	666.8	669.6	674.4	677.9
32.5°	705.8	717.6	731.6	747.6	754.6	767.1	772.7	774.1
35°	832.6	845.1	857.0	864.0	861.2	864.6	864.6	867.4
37.5°	946.9	934.3	923.9	921.8	916.2	914.1	914.8	916.9
40°	999.8	993.5	989.4	991.5	988.7	986.6	988.0	988.7
42.5°	1085.5	1075.8	1072.3	1071.6	1070.2	1071.6	1075.1	1073.7
45°	1185.8	1173.3	1168.4	1167.7	1165.6	1164.9	1166.3	1169.1
47.5°	1306.4	1291.1	1275.7	1270.8	1270.8	1266.7	1269.5	1265.3
50°	1454.1	1429.0	1413.0	1403.9	1398.3	1392.1	1397.7	1388.6
52.5°	1648.5	1612.9	1595.5	1583.7	1567.7	1568.4	1569.7	1566.3
55°	1893.7	1854.7	1820.6	1797.6	1787.8	1782.2	1780.9	1792.0
57.5°	2175.9	2106.9	2052.6	2012.2	1996.8	1975.9	1966.2	1966.2
60°	2444.1	2318.7	2210.7	2143.2	2093.0	2057.5	2033.8	2026.8
62.5°	2575.1	2384.9	2226.8	2115.3	2035.9	1985.0	1950.9	1941.8
65°	2518.7	2276.9	2090.9	1965.5	1873.5	1808.0	1768.3	1757.2
67.5°	2291.6	2038.6	1842.9	1716.8	1617.8	1546.8	1516.8	1504.3
70°	1902.8	1670.8	1500.8	1377.4	1274.3	1214.4	1173.3	1156.6
72.5°	1367.7	1191.4	1035.3	929.4	836.8	805.4	749.7	744.1
75°	808.2	654.9	526.0	445.2	362.3	317.0	291.2	263.4
77.5°	328.9	234.8	176.3	133.1	114.3	103.8	98.9	97.5
80°	112.2	100.3	94.8	92.7	89.9	88.5	85.0	82.2
82.5°	88.5	87.8	85.0	84.3	81.5	77.3	70.4	66.2
85°	73.9	72.5	69.0	68.3	66.2	60.6	53.0	48.1
87.5°	41.8	38.3	34.8	35.5	33.4	29.3	21.6	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)