

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: STREETWORKS

Report Number: P140348

Luminaire Tested: **CEM-E02-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140348  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CEM-E02-LED-E-U-5MQ-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

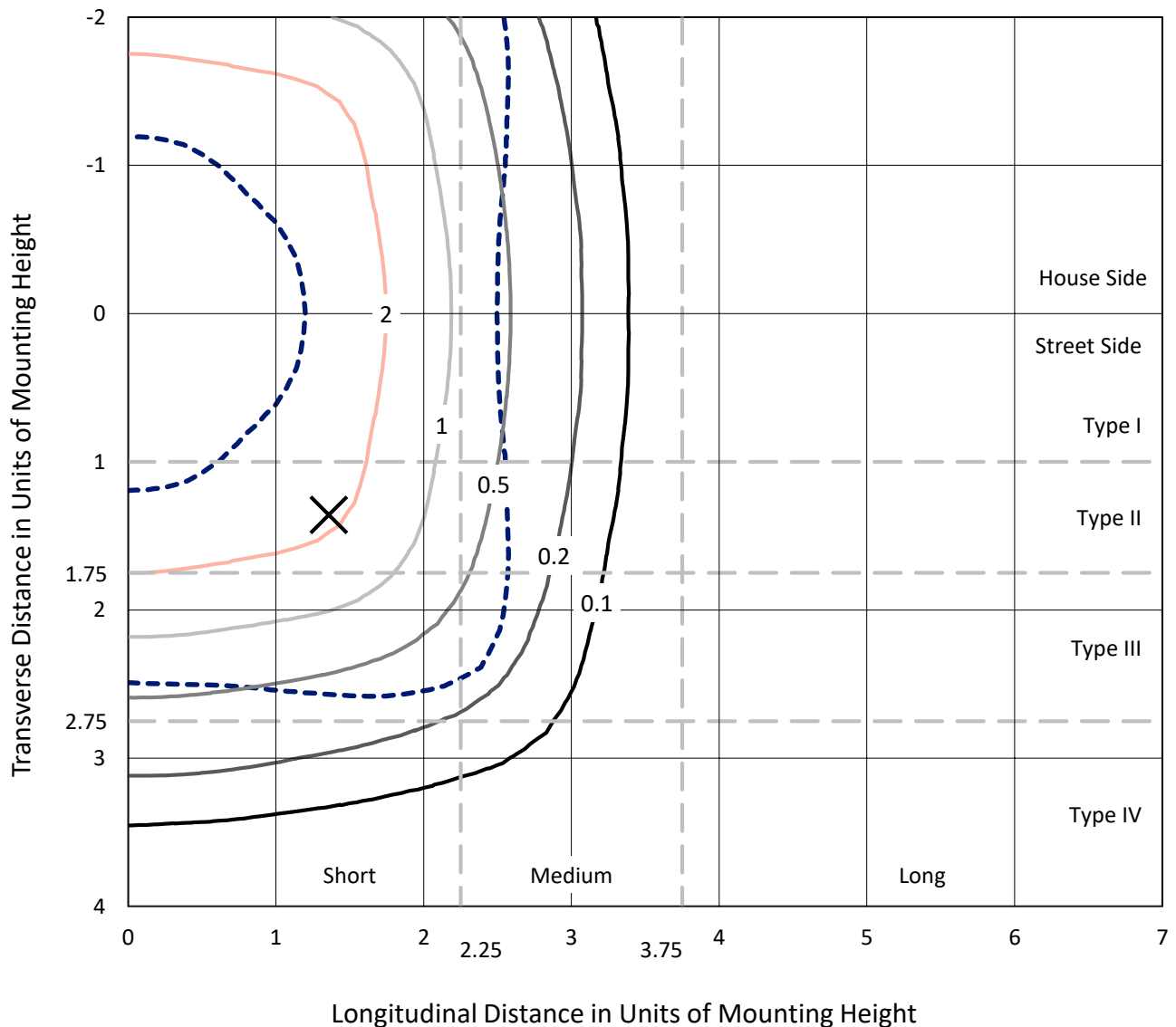
Lumens per Lamp: N/A  
Luminaire Lumens: 5154.7 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



REPORT NUMBER: P140348  
 CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

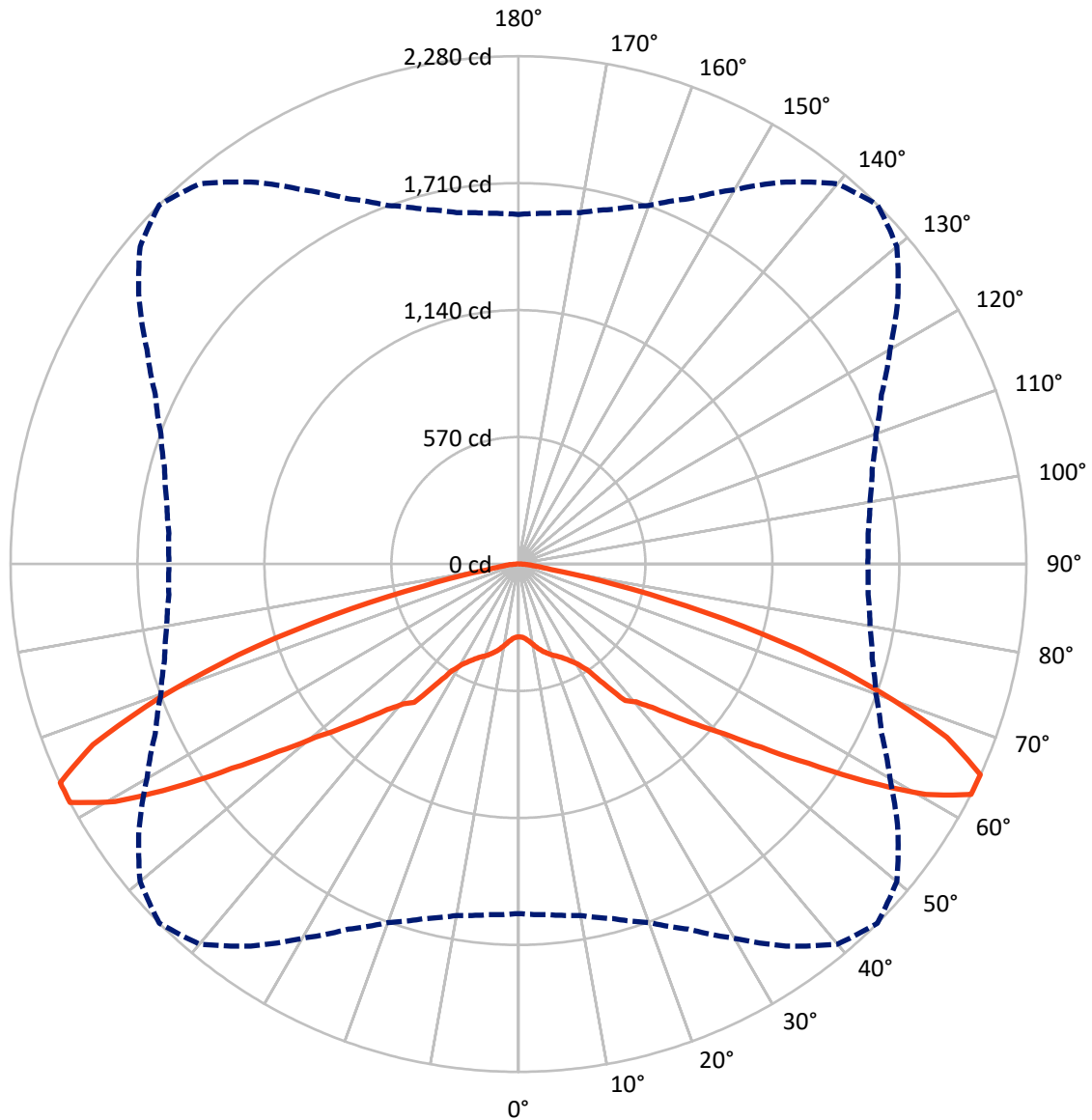
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P140348  
CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P140348

CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2577.4	0.0	2577.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2577.4	0.0	2577.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5154.7	0.0	5154.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	0.6
10°-20°	115.8	2.2
20°-30°	222.5	4.3
30°-40°	428.0	8.3
40°-50°	744.9	14.5
50°-60°	1338.0	26.0
60°-70°	1640.2	31.8
70°-80°	578.4	11.2
80°-90°	53.5	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°	5154.7	100.0
0°-180°	5154.7	100.0



--- HS    — SS

REPORT NUMBER: P140348

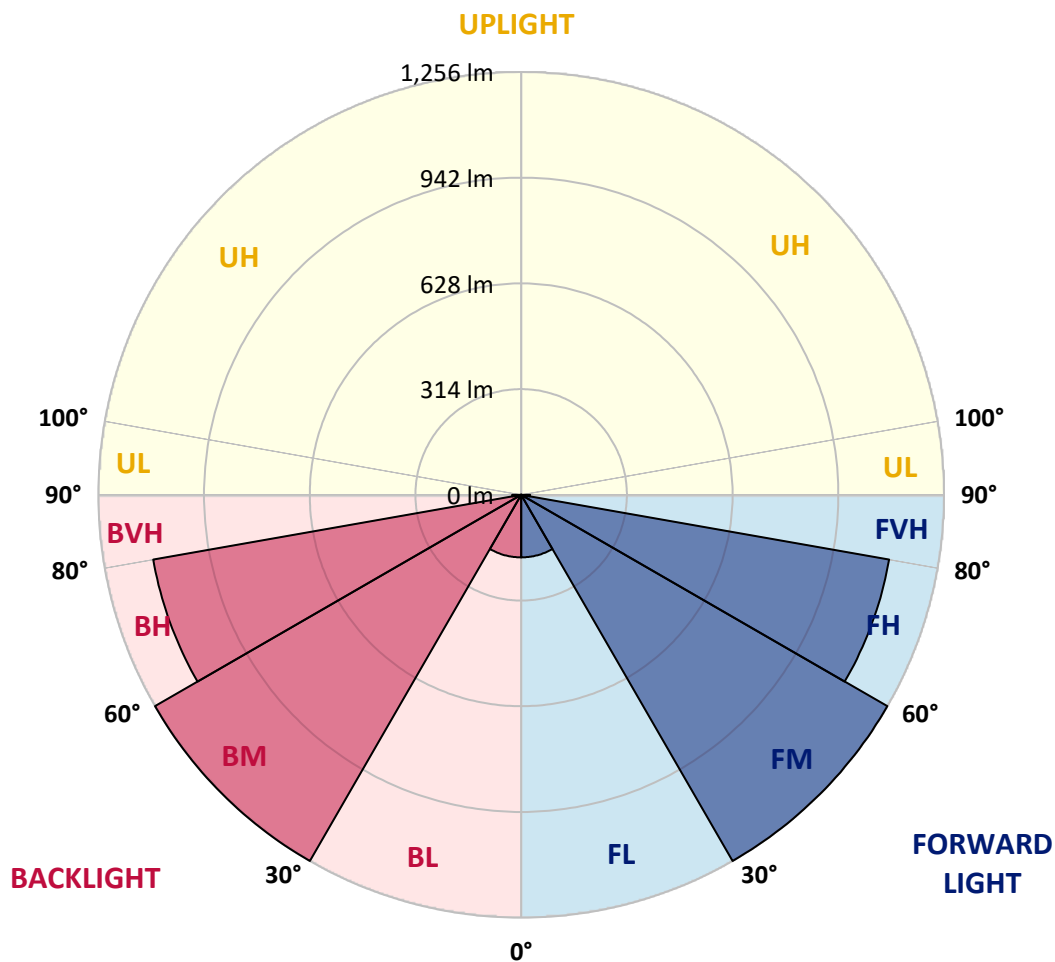
CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.8	3.6			
FM (30°-60°)	1255.5	24.4			
FH (60°-80°)	1109.3	21.5			G1/1800
FVH (80°-90°)	26.7	0.5			G1/100
BL (0°-30°)	185.8	3.6	B1/500		
BM (30°-60°)	1255.5	24.4	B2/2500		
BH (60°-80°)	1109.3	21.5	B3/2500		G1/1800
BVH (80°-90°)	26.7	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: P140348

CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9
2.5°	330.8	330.8	330.3	329.7	329.7	329.7	329.2	329.2	329.7	328.6	328.6
5°	339.3	339.8	339.3	338.7	338.2	338.2	337.6	337.6	338.2	337.0	336.5
7.5°	355.0	355.6	354.5	353.9	353.4	352.8	352.2	351.7	352.2	350.5	350.5
10°	375.3	375.3	375.3	373.0	373.0	371.4	370.8	369.7	370.2	368.5	368.5
12.5°	395.6	395.6	395.0	393.9	393.3	392.2	391.0	391.0	389.9	387.7	386.5
15°	413.6	414.1	413.6	411.9	411.3	409.6	409.6	408.5	406.8	405.7	404.6
17.5°	430.4	431.0	429.3	428.7	427.1	425.9	424.8	424.2	423.1	421.4	420.9
20°	446.8	446.2	444.5	442.3	441.1	440.0	438.9	438.3	437.7	436.6	436.6
22.5°	462.5	462.5	460.8	457.4	455.2	454.1	452.4	451.3	450.1	449.6	450.7
25°	486.1	485.6	482.2	478.8	474.9	471.5	469.3	468.7	467.6	467.6	468.1
27.5°	516.5	515.4	510.3	505.8	501.3	496.8	494.0	491.8	491.2	490.6	490.6
30°	554.8	553.1	548.6	543.0	537.9	532.3	526.7	525.0	522.1	519.9	523.8
32.5°	627.9	629.1	620.1	608.8	597.5	586.9	577.3	570.0	565.5	566.0	566.0
35°	708.4	709.0	705.0	700.5	697.1	690.9	680.3	671.3	664.5	657.2	660.6
37.5°	743.3	743.8	740.5	739.9	742.1	746.1	756.8	764.7	776.5	778.2	774.8
40°	804.6	801.8	797.3	796.2	794.5	800.1	804.6	808.5	810.2	813.6	810.2
42.5°	868.7	867.6	864.2	860.3	860.3	861.4	868.7	874.9	878.9	879.4	878.9
45°	940.8	939.1	936.3	935.7	937.4	942.5	947.5	955.4	967.8	968.3	967.8
47.5°	1020.1	1021.2	1016.7	1018.4	1021.2	1029.7	1043.7	1056.7	1070.2	1075.2	1069.1
50°	1128.7	1124.8	1124.8	1123.1	1130.4	1142.8	1159.6	1174.8	1194.0	1198.5	1188.9
52.5°	1276.1	1267.7	1269.4	1264.9	1268.8	1280.1	1307.6	1331.3	1355.4	1367.3	1348.7
55°	1453.4	1439.3	1441.0	1445.5	1448.9	1468.0	1502.9	1529.9	1575.4	1579.4	1558.0
57.5°	1598.5	1594.6	1596.8	1607.5	1628.9	1662.1	1706.0	1771.3	1827.5	1841.0	1818.0
60°	1651.4	1654.2	1670.0	1698.1	1738.6	1797.7	1883.2	1985.1	2074.5	2101.5	2066.7
62.5°	1569.3	1580.5	1601.9	1648.6	1712.7	1809.0	1940.1	2093.7	2227.6	2279.9	2217.4
65°	1408.9	1416.2	1451.1	1491.1	1573.8	1684.0	1845.0	2044.7	2209.6	2278.8	2209.0
67.5°	1198.5	1212.5	1242.9	1292.4	1363.9	1475.9	1644.7	1848.9	2014.3	2075.1	2013.8
70°	962.1	968.3	987.5	1026.3	1100.6	1199.6	1344.2	1527.1	1688.0	1726.2	1677.3
72.5°	667.3	679.7	696.0	731.5	778.2	862.0	981.3	1115.8	1245.2	1324.5	1252.5
75°	287.5	271.2	307.2	342.7	400.1	477.7	571.1	681.4	809.7	862.6	791.7
77.5°	86.1	85.5	91.2	101.3	121.5	160.9	225.6	299.9	398.9	433.2	371.9
80°	70.3	72.6	74.8	77.1	79.3	82.1	87.2	101.8	124.9	147.4	119.8
82.5°	59.6	62.5	68.6	72.0	73.7	74.3	74.3	73.7	70.9	69.8	69.2
85°	45.0	49.5	58.0	63.0	63.0	63.0	63.0	61.3	57.4	50.6	56.3
87.5°	15.2	20.3	33.8	36.0	37.1	34.3	36.0	36.6	30.4	23.1	29.3
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: P140348

CATALOG NUMBER: CEM-E02-LED-E-U-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	326.9	326.9	326.9	326.9	326.9	326.9	326.9	326.9
2.5°	328.6	328.6	328.6	329.2	328.6	328.6	328.6	328.6
5°	337.0	336.5	337.0	336.5	337.0	337.0	336.5	337.0
7.5°	350.0	350.0	350.5	350.5	350.0	350.0	350.0	350.0
10°	367.4	366.3	366.9	366.9	366.9	366.3	366.3	365.7
12.5°	385.4	384.3	384.3	384.3	384.3	383.7	384.3	384.3
15°	402.3	401.2	400.1	400.1	400.6	401.2	401.2	400.6
17.5°	418.6	417.5	415.8	415.8	415.2	416.4	417.5	416.9
20°	434.9	434.4	431.6	431.6	431.6	432.7	433.2	434.9
22.5°	451.3	450.7	448.4	447.9	448.4	450.7	452.4	452.4
25°	468.7	469.8	469.3	469.3	470.4	473.8	475.4	477.7
27.5°	493.5	495.7	496.3	498.5	499.1	503.0	505.8	509.2
30°	525.5	529.5	531.7	535.7	538.5	540.7	544.7	547.5
32.5°	570.0	579.5	590.8	603.7	609.4	619.5	624.0	625.1
35°	672.4	682.5	692.1	697.7	695.4	698.3	698.3	700.5
37.5°	764.7	754.5	746.1	744.4	739.9	738.2	738.8	740.5
40°	807.4	802.4	799.0	800.7	798.4	796.7	797.9	798.4
42.5°	876.6	868.7	865.9	865.4	864.2	865.4	868.2	867.1
45°	957.6	947.5	943.6	943.0	941.3	940.8	941.9	944.1
47.5°	1055.0	1042.6	1030.2	1026.3	1026.3	1022.9	1025.2	1021.8
50°	1174.3	1154.0	1141.1	1133.8	1129.3	1124.2	1128.7	1121.4
52.5°	1331.3	1302.6	1288.5	1278.9	1266.0	1266.5	1267.7	1264.9
55°	1529.3	1497.8	1470.2	1451.7	1443.8	1439.3	1438.2	1447.2
57.5°	1757.2	1701.5	1657.6	1625.0	1612.6	1595.7	1587.8	1587.8
60°	1973.8	1872.5	1785.3	1730.7	1690.2	1661.5	1642.4	1636.8
62.5°	2079.6	1926.0	1798.3	1708.2	1644.1	1603.0	1575.4	1568.1
65°	2034.0	1838.8	1688.5	1587.3	1513.0	1460.1	1428.0	1419.0
67.5°	1850.6	1646.3	1488.2	1386.4	1306.5	1249.1	1224.9	1214.8
70°	1536.6	1349.3	1212.0	1112.4	1029.1	980.7	947.5	934.0
72.5°	1104.5	962.1	836.1	750.6	675.8	650.4	605.4	600.9
75°	652.7	528.9	424.8	359.5	292.6	256.0	235.2	212.7
77.5°	265.6	189.6	142.4	107.5	92.3	83.8	79.9	78.8
80°	90.6	81.0	76.5	74.8	72.6	71.5	68.6	66.4
82.5°	71.5	70.9	68.6	68.1	65.8	62.5	56.8	53.5
85°	59.6	58.5	55.7	55.1	53.5	49.0	42.8	38.8
87.5°	33.8	30.9	28.1	28.7	27.0	23.6	17.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)