

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: P299576

Luminaire Tested: **GLNA-AF-01-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299576  
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: GLNA-AF-01-LED-E1-5MQ-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6311.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

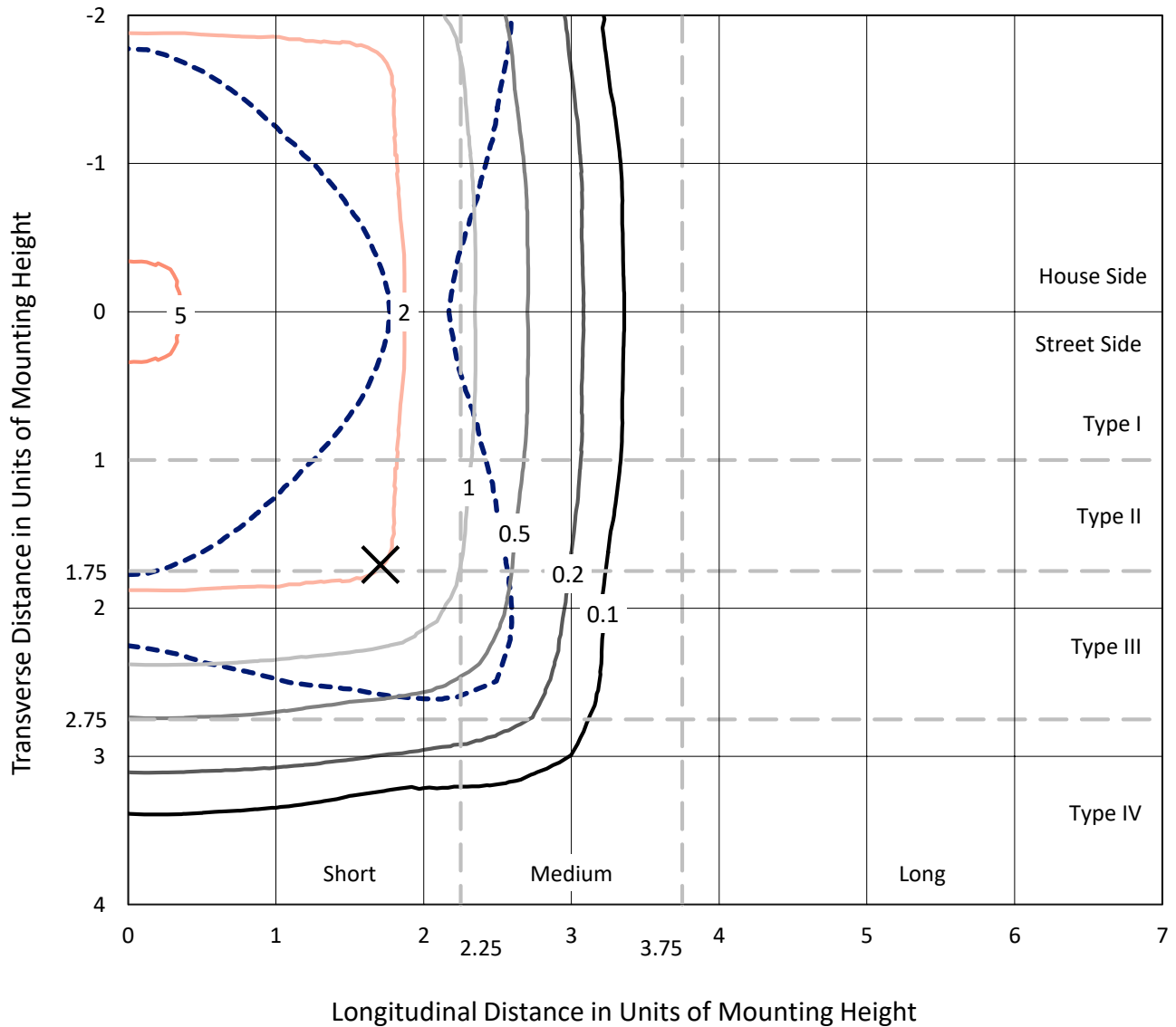
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

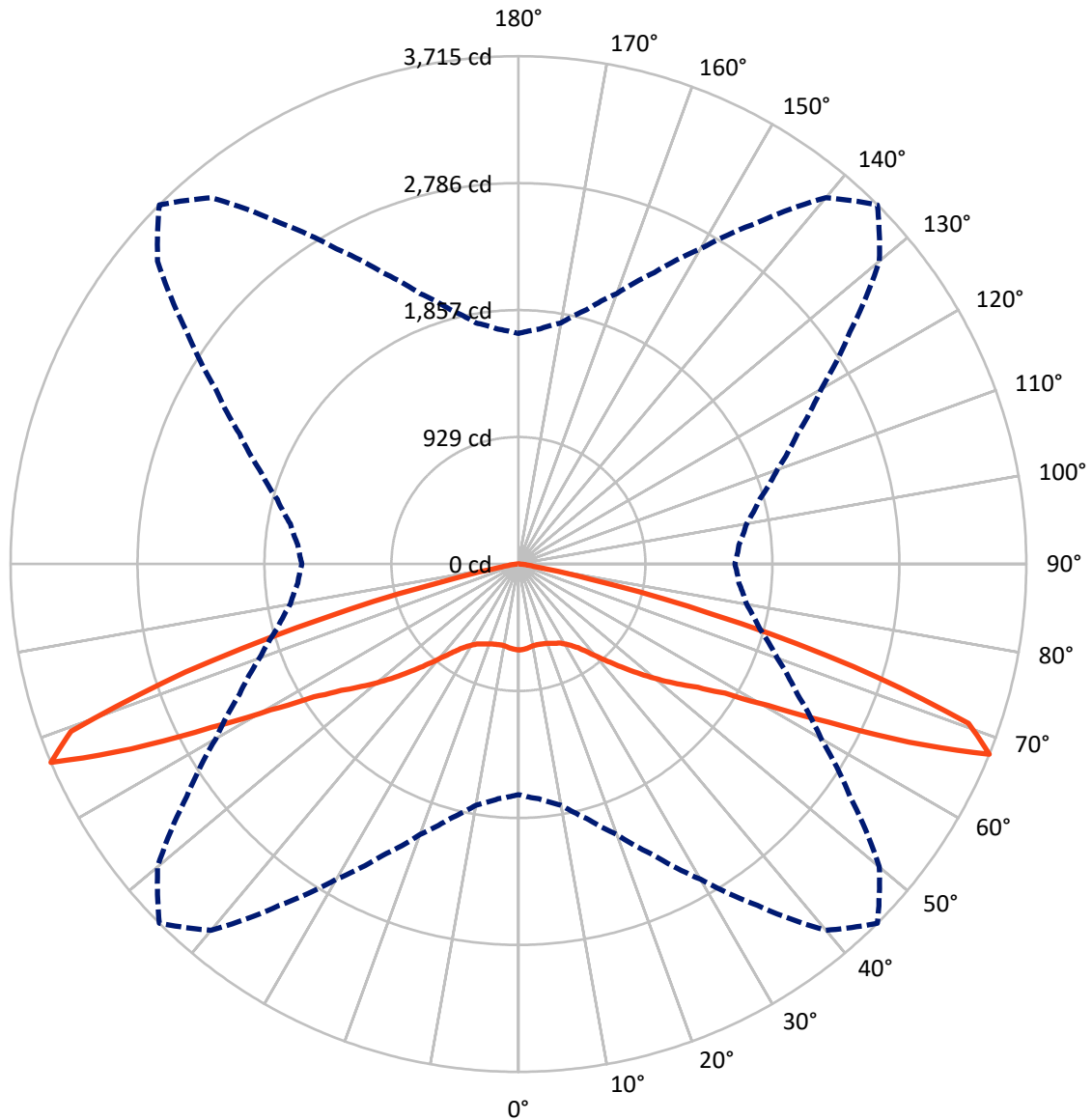
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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	3155.7	0.0	3155.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3155.7	0.0	3155.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6311.3	0.0	6311.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	0.9
10°-20°	170.8	2.7
20°-30°	290.4	4.6
30°-40°	474.7	7.5
40°-50°	847.4	13.4
50°-60°	1428.8	22.6
60°-70°	2217.3	35.1
70°-80°	779.0	12.3
80°-90°	44.0	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°	6311.3	100.0
0°-180°	6311.3	100.0



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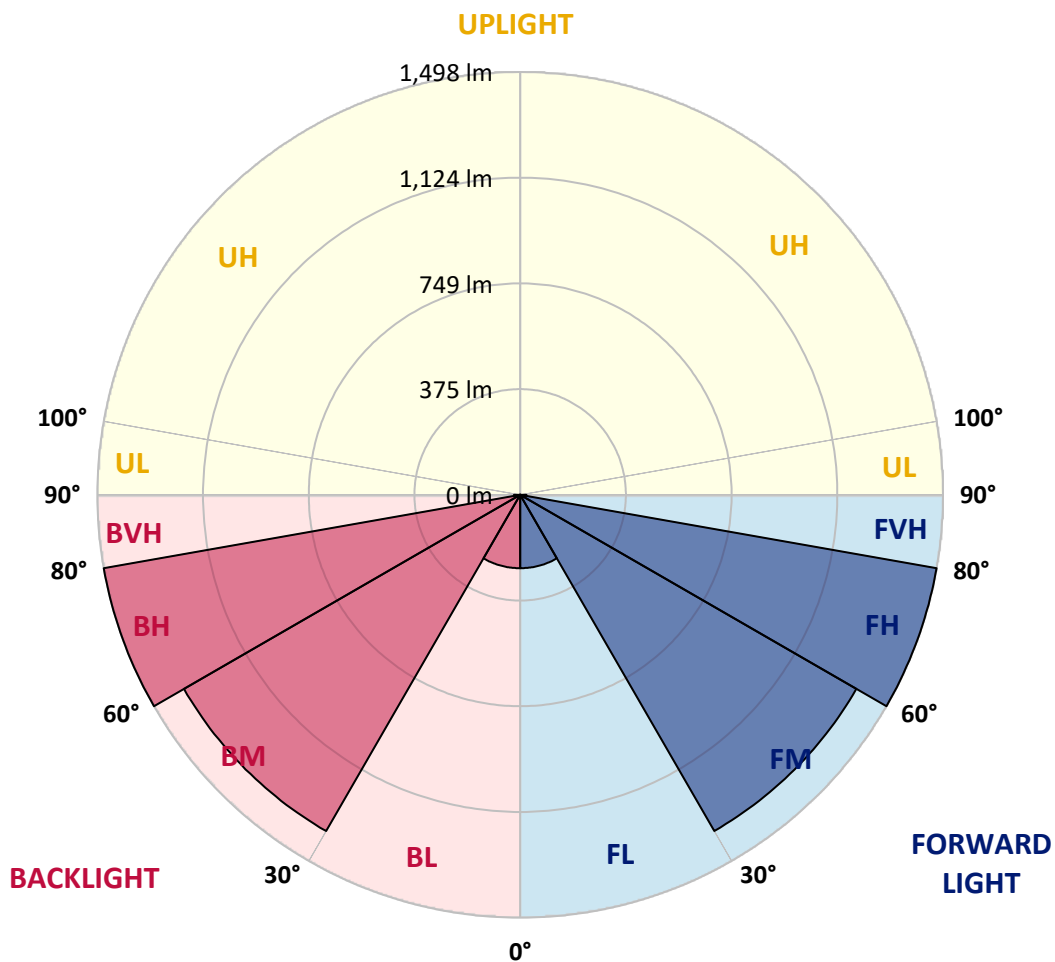
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.0	4.1			
FM	(30°-60°)	1375.5	21.8			
FH	(60°-80°)	1498.2	23.7			G1/1800
FVH	(80°-90°)	22.0	0.3			G1/100
BL	(0°-30°)	260.0	4.1	B1/500		
BM	(30°-60°)	1375.5	21.8	B2/2500		
BH	(60°-80°)	1498.2	23.7	B3/2500		G1/1800
BVH	(80°-90°)	22.0	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
2.5°	626.6	627.2	627.2	627.2	626.9	626.9	626.3	626.9	626.6	625.8	626.0
5°	621.4	622.0	622.0	621.7	622.6	622.3	621.4	622.0	621.7	621.1	621.4
7.5°	613.9	614.7	614.7	614.4	615.3	615.0	614.4	614.7	614.7	613.9	613.9
10°	605.4	606.0	606.0	605.7	607.2	607.2	606.9	607.8	608.1	607.2	606.6
12.5°	597.6	598.5	598.5	599.6	601.1	601.7	603.1	604.3	605.4	605.1	604.0
15°	593.0	593.5	594.7	596.2	598.5	600.5	602.8	605.4	607.8	608.3	606.6
17.5°	590.1	590.9	592.7	594.7	597.9	601.4	604.9	608.3	611.5	612.7	610.7
20°	589.2	589.8	591.5	595.0	599.3	604.6	609.5	613.6	617.9	619.4	617.9
22.5°	590.9	592.1	594.1	598.2	604.0	610.7	616.5	622.0	627.5	630.1	628.1
25°	598.8	599.9	602.5	607.8	614.1	621.1	627.8	634.2	639.1	641.7	640.3
27.5°	613.3	614.7	617.9	623.1	630.1	637.7	644.9	650.1	654.2	655.1	653.3
30°	635.0	638.2	642.0	647.8	655.9	662.3	669.6	674.2	679.2	679.2	677.7
32.5°	669.0	672.2	676.3	681.8	688.2	695.1	701.5	705.6	710.8	711.1	707.6
35°	719.8	721.2	724.7	728.2	734.0	740.1	745.6	748.2	752.6	752.9	749.7
37.5°	786.8	787.1	789.5	790.6	795.8	802.5	807.7	809.5	813.5	813.0	809.8
40°	864.9	866.4	867.2	869.0	874.5	880.9	886.4	887.3	891.6	890.7	886.7
42.5°	955.2	955.8	960.7	963.3	968.5	971.7	978.7	979.6	984.8	982.5	977.8
45°	1056.5	1061.7	1066.3	1071.6	1077.1	1080.9	1086.4	1085.2	1088.7	1085.2	1082.6
47.5°	1163.0	1166.8	1177.2	1185.3	1194.3	1197.5	1205.4	1201.9	1205.4	1200.4	1199.6
50°	1280.2	1286.9	1295.9	1305.2	1314.8	1320.0	1330.2	1325.8	1330.5	1325.8	1323.2
52.5°	1395.8	1397.5	1417.2	1430.9	1444.2	1450.3	1456.4	1454.4	1454.7	1454.4	1451.8
55°	1505.5	1509.5	1529.3	1547.8	1571.1	1588.2	1598.6	1597.5	1594.9	1592.3	1587.9
57.5°	1629.1	1633.2	1655.8	1678.7	1705.2	1729.5	1750.7	1772.5	1780.9	1783.2	1773.7
60°	1796.3	1796.0	1826.2	1854.0	1891.8	1928.1	1974.5	2021.8	2076.1	2101.3	2068.0
62.5°	1966.4	1973.3	2016.9	2066.2	2144.0	2219.8	2305.4	2389.5	2475.5	2545.4	2471.1
65°	1946.1	1972.8	2037.5	2149.2	2292.9	2463.6	2648.1	2843.5	3019.9	3141.3	3005.1
67.5°	1686.6	1724.6	1790.5	1926.3	2106.0	2352.1	2662.1	3048.4	3497.4	3714.5	3445.4
70°	1222.5	1265.4	1334.5	1467.2	1645.1	1879.0	2215.7	2679.5	3273.9	3492.7	3196.4
72.5°	608.3	631.6	674.2	758.7	893.4	1083.2	1388.5	1834.3	2360.2	2561.1	2290.3
75°	206.7	217.4	224.6	252.2	294.9	369.5	521.3	801.9	1223.4	1466.6	1205.9
77.5°	119.3	119.6	124.5	129.4	136.7	144.8	165.1	216.8	375.0	532.6	388.1
80°	77.2	76.9	81.0	84.7	89.7	93.7	94.9	100.4	115.8	137.3	122.8
82.5°	40.1	45.0	54.0	58.9	68.2	69.9	67.6	65.6	69.4	72.0	73.7
85°	22.1	19.2	28.7	37.2	41.2	41.8	41.8	39.5	40.9	40.1	43.5
87.5°	10.2	9.3	11.3	18.3	19.4	16.5	17.4	15.4	11.0	10.7	12.2
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°	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
2.5°	626.0	626.3	626.3	627.2	627.5	628.1	628.7	628.9
5°	621.1	622.0	621.4	622.3	622.3	622.9	622.9	623.1
7.5°	613.9	614.7	614.7	614.7	614.4	615.3	615.3	615.3
10°	606.3	606.9	606.6	606.0	605.4	606.3	606.0	605.7
12.5°	604.0	602.5	601.4	600.8	599.6	599.9	599.1	599.1
15°	605.4	602.8	600.8	599.9	598.8	598.2	597.6	597.9
17.5°	609.2	606.0	603.4	602.0	600.5	599.6	598.5	598.8
20°	615.9	612.1	608.3	605.4	602.8	601.4	600.5	600.2
22.5°	625.8	620.2	614.7	610.4	606.9	604.9	604.0	603.4
25°	637.1	631.0	624.6	619.7	616.2	613.6	611.8	611.8
27.5°	651.3	646.4	640.6	634.8	631.6	628.9	627.8	627.2
30°	675.1	670.5	665.8	660.3	656.2	653.6	651.6	649.8
32.5°	705.6	701.8	698.0	694.0	690.2	686.7	683.5	682.1
35°	748.5	745.6	743.0	738.4	736.9	734.9	733.1	731.7
37.5°	807.7	806.6	806.6	801.6	800.5	799.6	797.9	798.2
40°	885.5	886.7	885.2	883.5	882.6	880.3	880.3	882.3
42.5°	977.5	978.4	981.6	978.7	981.9	979.0	977.2	978.7
45°	1084.3	1087.5	1093.9	1091.0	1093.0	1088.1	1082.0	1082.3
47.5°	1204.2	1207.1	1209.7	1207.7	1208.0	1199.9	1191.7	1189.7
50°	1328.7	1329.9	1331.3	1328.4	1329.0	1320.0	1310.7	1311.0
52.5°	1451.8	1457.3	1463.1	1455.3	1453.5	1443.4	1430.3	1425.1
55°	1592.5	1600.4	1593.7	1580.1	1566.4	1552.8	1535.7	1532.8
57.5°	1766.1	1752.8	1731.9	1706.0	1687.2	1668.0	1650.6	1643.3
60°	2007.6	1957.4	1919.6	1881.3	1857.2	1833.7	1810.8	1807.3
62.5°	2348.9	2262.1	2187.0	2107.7	2043.0	1992.5	1952.2	1940.8
65°	2776.7	2571.5	2393.6	2227.6	2083.3	1974.5	1906.0	1875.8
67.5°	2960.7	2555.6	2250.5	2014.8	1826.2	1694.4	1620.4	1583.5
70°	2601.7	2119.3	1787.6	1551.6	1379.8	1239.3	1172.3	1132.8
72.5°	1789.9	1348.2	1066.0	870.1	732.9	615.3	568.9	565.4
75°	803.7	532.3	366.9	282.7	238.0	206.9	197.4	190.1
77.5°	224.9	166.3	148.3	138.7	129.4	118.7	114.6	115.5
80°	109.4	103.3	99.3	93.2	84.7	75.8	71.7	73.4
82.5°	72.6	71.7	74.3	69.9	57.8	49.1	41.2	37.7
85°	44.1	44.7	45.6	45.9	38.9	27.3	18.6	20.9
87.5°	17.4	20.0	21.8	22.6	21.2	13.1	10.4	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)