

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: P200540

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200540
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: GPC-AF-02-LED-E1-5MQ-8030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 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: 7016 lumens
Efficiency: N/A
Efficacy: 106.3 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 - G1

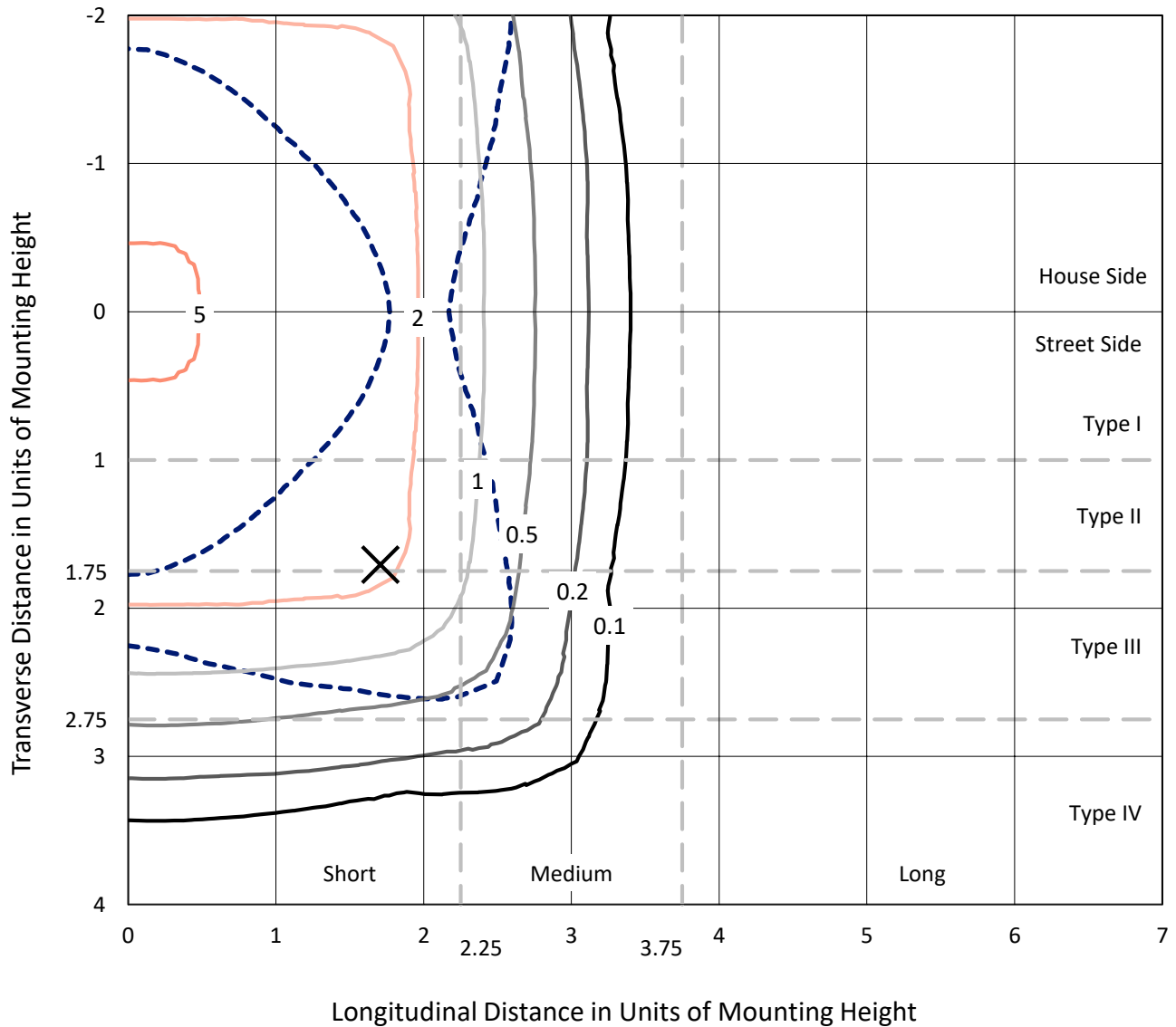
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

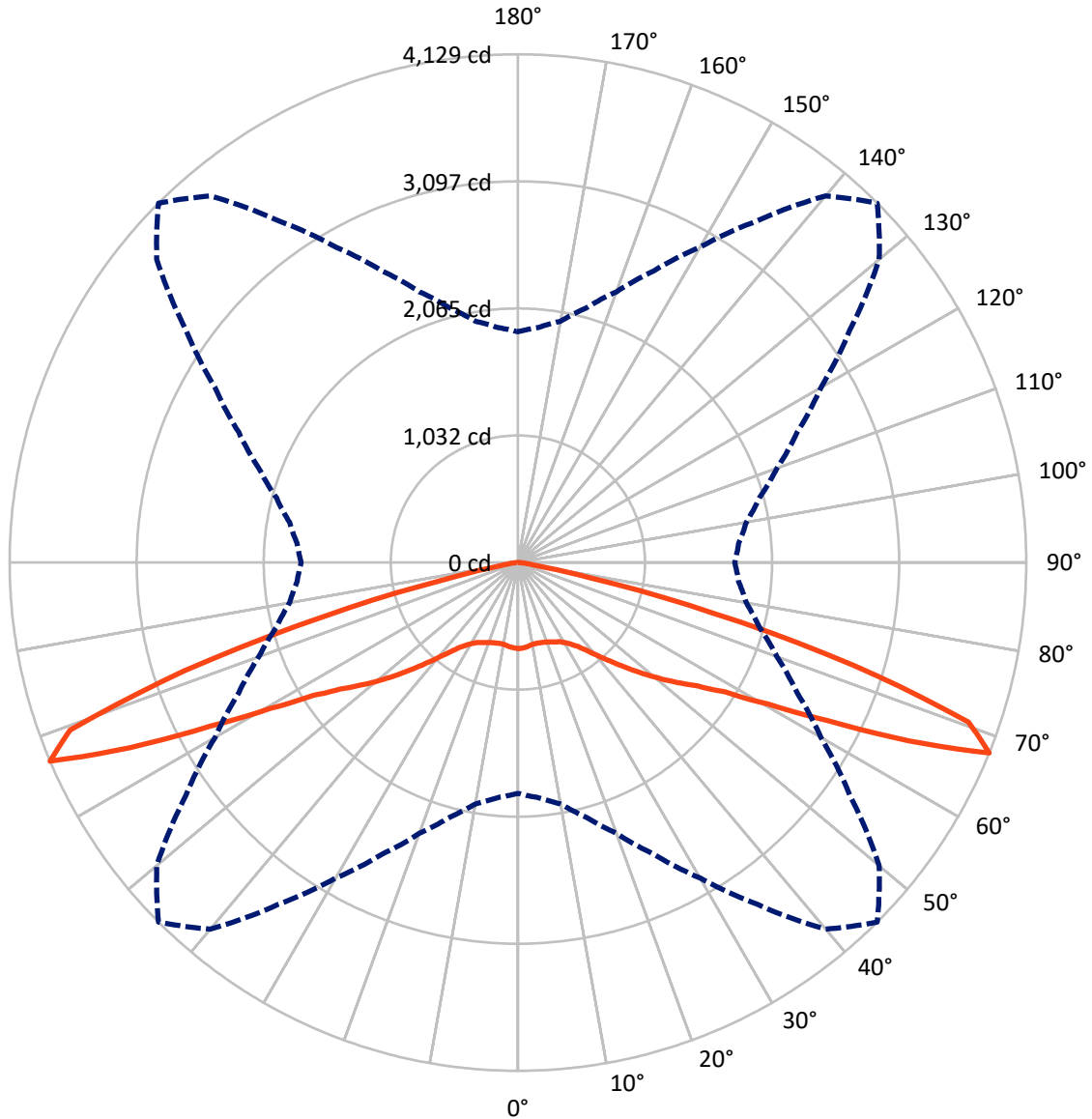
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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
House Side	Lumens	3508.0	0.0	3508.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3508.0	0.0	3508.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7016.0	0.0	7016.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	0.9
10°-20°	189.9	2.7
20°-30°	322.8	4.6
30°-40°	527.7	7.5
40°-50°	942.0	13.4
50°-60°	1588.3	22.6
60°-70°	2464.8	35.1
70°-80°	866.0	12.3
80°-90°	48.9	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°	7016.0	100.0
0°-180°	7016.0	100.0



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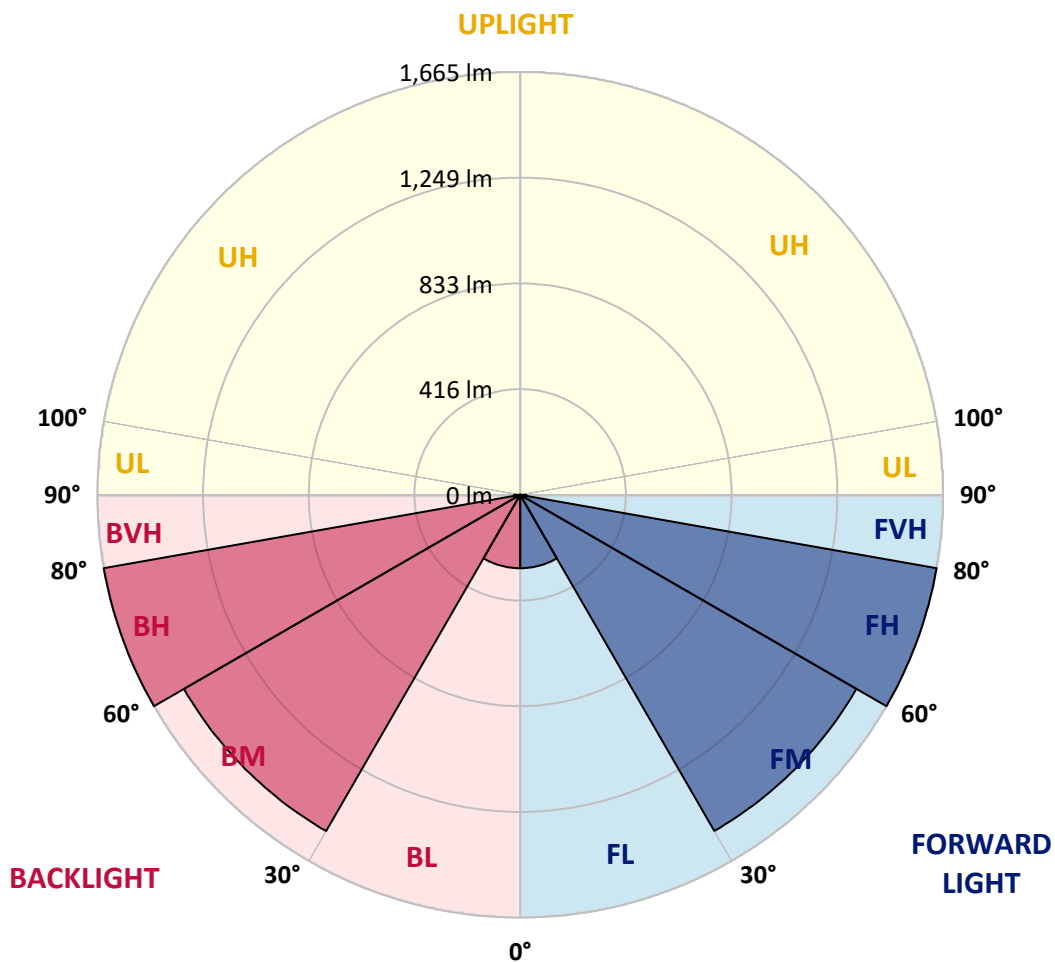
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.1	4.1			
FM	(30°-60°)	1529.0	21.8			
FH	(60°-80°)	1665.4	23.7			G1/1800
FVH	(80°-90°)	24.5	0.3			G1/100
BL	(0°-30°)	289.1	4.1	B1/500		
BM	(30°-60°)	1529.0	21.8	B2/2500		
BH	(60°-80°)	1665.4	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.5	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°	699.2	699.2	699.2	699.2	699.2	699.2	699.2	699.2	699.2	699.2	699.2
2.5°	696.6	697.2	697.2	697.2	696.9	696.9	696.3	696.9	696.6	695.6	695.9
5°	690.8	691.4	691.4	691.1	692.1	691.8	690.8	691.4	691.1	690.5	690.8
7.5°	682.4	683.4	683.4	683.0	684.0	683.7	683.0	683.4	683.4	682.4	682.4
10°	673.0	673.7	673.7	673.4	675.0	675.0	674.7	675.6	675.9	675.0	674.3
12.5°	664.3	665.3	665.3	666.6	668.2	668.8	670.5	671.7	673.0	672.7	671.4
15°	659.2	659.8	661.1	662.7	665.3	667.6	670.1	673.0	675.6	676.3	674.3
17.5°	655.9	656.9	658.8	661.1	664.7	668.5	672.4	676.3	679.8	681.1	678.8
20°	655.0	655.6	657.6	661.4	666.3	672.1	677.6	682.1	686.9	688.5	686.9
22.5°	656.9	658.2	660.5	665.0	671.4	678.8	685.3	691.4	697.6	700.5	698.2
25°	665.6	666.9	669.8	675.6	682.7	690.5	697.9	705.0	710.5	713.4	711.8
27.5°	681.8	683.4	686.9	692.7	700.5	708.9	716.9	722.7	727.2	728.2	726.3
30°	705.9	709.5	713.7	720.1	729.2	736.3	744.3	749.5	755.0	755.0	753.4
32.5°	743.7	747.2	751.8	757.9	765.0	772.7	779.8	784.4	790.2	790.5	786.6
35°	800.2	801.8	805.6	809.5	816.0	822.7	828.9	831.8	836.6	836.9	833.4
37.5°	874.7	875.0	877.6	878.9	884.7	892.1	897.9	899.9	904.4	903.7	900.2
40°	961.5	963.1	964.1	966.0	972.1	979.2	985.4	986.3	991.2	990.2	985.7
42.5°	1061.8	1062.5	1068.0	1070.9	1076.7	1080.2	1088.0	1088.9	1094.7	1092.2	1087.0
45°	1174.4	1180.2	1185.4	1191.2	1197.3	1201.5	1207.7	1206.4	1210.2	1206.4	1203.5
47.5°	1292.8	1297.0	1308.7	1317.7	1327.7	1331.2	1339.9	1336.1	1339.9	1334.5	1333.5
50°	1423.2	1430.6	1440.6	1450.9	1461.6	1467.4	1478.7	1473.8	1479.0	1473.8	1470.9
52.5°	1551.6	1553.5	1575.5	1590.6	1605.5	1612.3	1619.0	1616.8	1617.1	1616.8	1613.9
55°	1673.6	1678.1	1700.0	1720.7	1746.5	1765.5	1777.1	1775.8	1772.9	1770.0	1765.2
57.5°	1811.0	1815.5	1840.7	1866.2	1895.5	1922.6	1946.2	1970.4	1979.8	1982.3	1971.7
60°	1996.9	1996.5	2030.1	2061.1	2103.0	2143.3	2195.0	2247.6	2307.9	2336.0	2298.9
62.5°	2185.9	2193.7	2242.1	2296.9	2383.4	2467.6	2562.8	2656.3	2751.8	2829.6	2747.0
65°	2163.3	2193.0	2265.0	2389.2	2548.9	2738.6	2943.8	3161.0	3357.1	3492.0	3340.7
67.5°	1874.9	1917.2	1990.4	2141.4	2341.1	2614.7	2959.3	3388.8	3887.9	4129.2	3830.1
70°	1359.0	1406.7	1483.5	1631.0	1828.8	2088.8	2463.1	2978.7	3639.4	3882.7	3553.3
72.5°	676.3	702.1	749.5	843.4	993.1	1204.1	1543.5	2039.1	2623.8	2847.0	2546.0
75°	229.7	241.7	249.7	280.4	327.8	410.7	579.5	891.5	1360.0	1630.3	1340.6
77.5°	132.6	132.9	138.4	143.9	152.0	161.0	183.6	241.0	416.9	592.1	431.4
80°	85.8	85.5	90.0	94.2	99.7	104.2	105.5	111.6	128.7	152.6	136.5
82.5°	44.5	50.0	60.0	65.5	75.8	77.8	75.2	72.9	77.1	80.0	82.0
85°	24.5	21.3	31.9	41.3	45.8	46.5	46.5	43.9	45.5	44.5	48.4
87.5°	11.3	10.3	12.6	20.3	21.6	18.4	19.4	17.1	12.3	11.9	13.6
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°	699.2	699.2	699.2	699.2	699.2	699.2	699.2	699.2
2.5°	695.9	696.3	696.3	697.2	697.6	698.2	698.9	699.2
5°	690.5	691.4	690.8	691.8	691.8	692.4	692.4	692.7
7.5°	682.4	683.4	683.4	683.4	683.0	684.0	684.0	684.0
10°	674.0	674.7	674.3	673.7	673.0	674.0	673.7	673.4
12.5°	671.4	669.8	668.5	667.9	666.6	666.9	665.9	665.9
15°	673.0	670.1	667.9	666.9	665.6	665.0	664.3	664.7
17.5°	677.2	673.7	670.8	669.2	667.6	666.6	665.3	665.6
20°	684.7	680.5	676.3	673.0	670.1	668.5	667.6	667.2
22.5°	695.6	689.5	683.4	678.5	674.7	672.4	671.4	670.8
25°	708.2	701.4	694.3	688.8	685.0	682.1	680.1	680.1
27.5°	724.0	718.5	712.1	705.6	702.1	699.2	697.9	697.2
30°	750.5	745.3	740.2	734.0	729.5	726.6	724.3	722.4
32.5°	784.4	780.2	776.0	771.4	767.3	763.4	759.8	758.2
35°	832.1	828.9	826.0	820.8	819.2	816.9	815.0	813.4
37.5°	897.9	896.6	896.6	891.1	889.9	888.9	887.0	887.3
40°	984.4	985.7	984.1	982.1	981.2	978.6	978.6	980.8
42.5°	1086.7	1087.6	1091.2	1088.0	1091.5	1088.3	1086.3	1088.0
45°	1205.4	1209.0	1216.1	1212.8	1215.1	1209.6	1202.8	1203.1
47.5°	1338.7	1341.9	1344.8	1342.5	1342.9	1333.8	1324.8	1322.5
50°	1477.1	1478.4	1480.0	1476.8	1477.4	1467.4	1457.1	1457.4
52.5°	1613.9	1620.0	1626.5	1617.7	1615.8	1604.5	1590.0	1584.2
55°	1770.4	1779.1	1771.6	1756.5	1741.3	1726.2	1707.1	1703.9
57.5°	1963.3	1948.5	1925.2	1896.5	1875.5	1854.2	1834.9	1826.8
60°	2231.7	2175.9	2134.0	2091.4	2064.6	2038.5	2013.0	2009.1
62.5°	2611.2	2514.7	2431.1	2343.1	2271.1	2215.0	2170.1	2157.5
65°	3086.8	2858.6	2660.9	2476.3	2316.0	2195.0	2118.8	2085.3
67.5°	3291.3	2840.9	2501.8	2239.8	2030.1	1883.6	1801.3	1760.4
70°	2892.2	2356.0	1987.2	1724.9	1533.9	1377.7	1303.2	1259.3
72.5°	1989.8	1498.7	1185.1	967.3	814.7	684.0	632.4	628.5
75°	893.4	591.7	407.8	314.3	264.6	230.0	219.4	211.3
77.5°	250.1	184.9	164.9	154.2	143.9	132.0	127.4	128.4
80°	121.6	114.9	110.3	103.6	94.2	84.2	79.7	81.6
82.5°	80.7	79.7	82.6	77.8	64.2	54.5	45.8	41.9
85°	49.0	49.7	50.7	51.0	43.2	30.3	20.6	23.2
87.5°	19.4	22.3	24.2	25.2	23.6	14.5	11.6	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)