

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631286

Luminaire Tested: GWS-SA1F-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8244.2 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

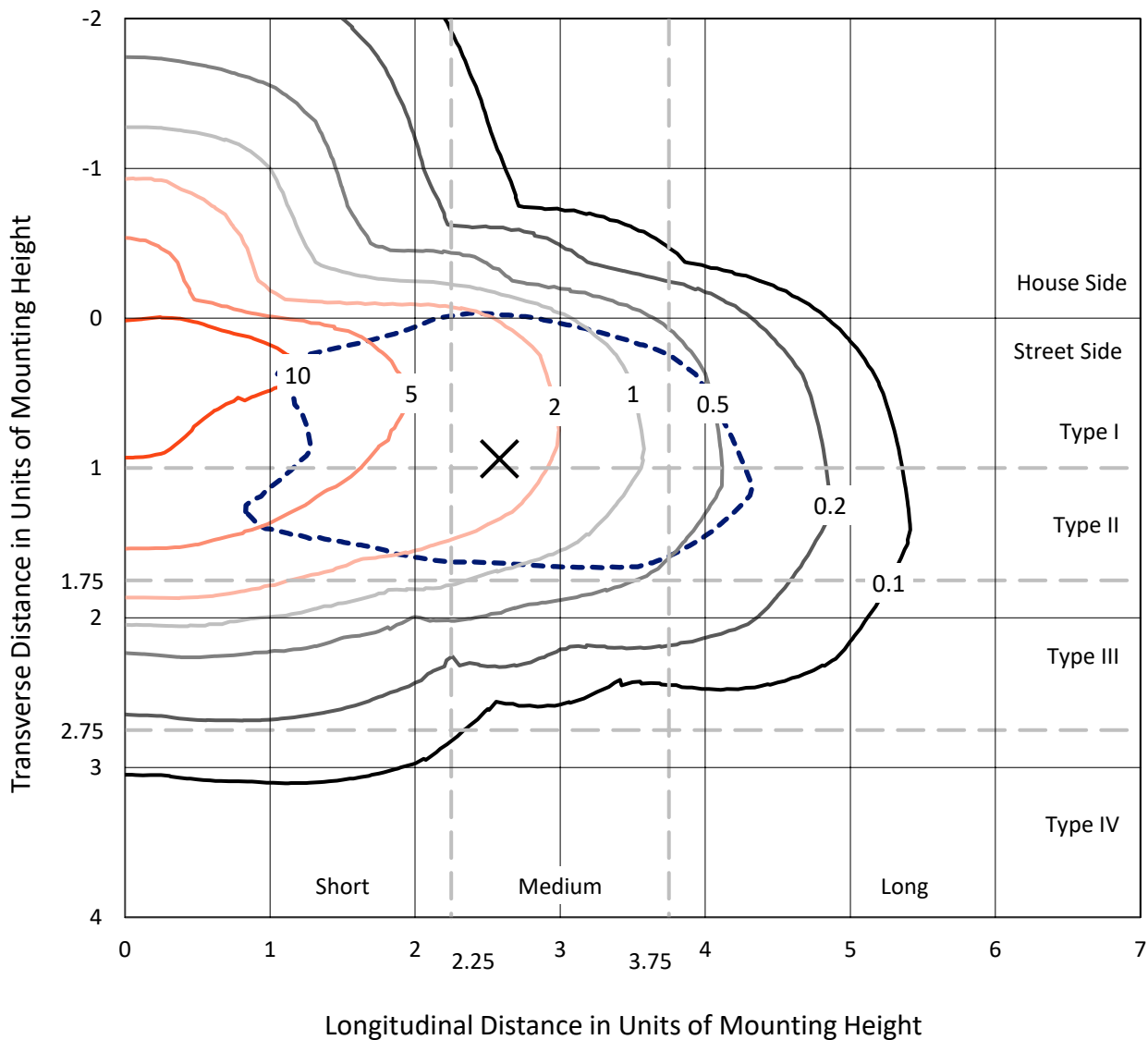
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

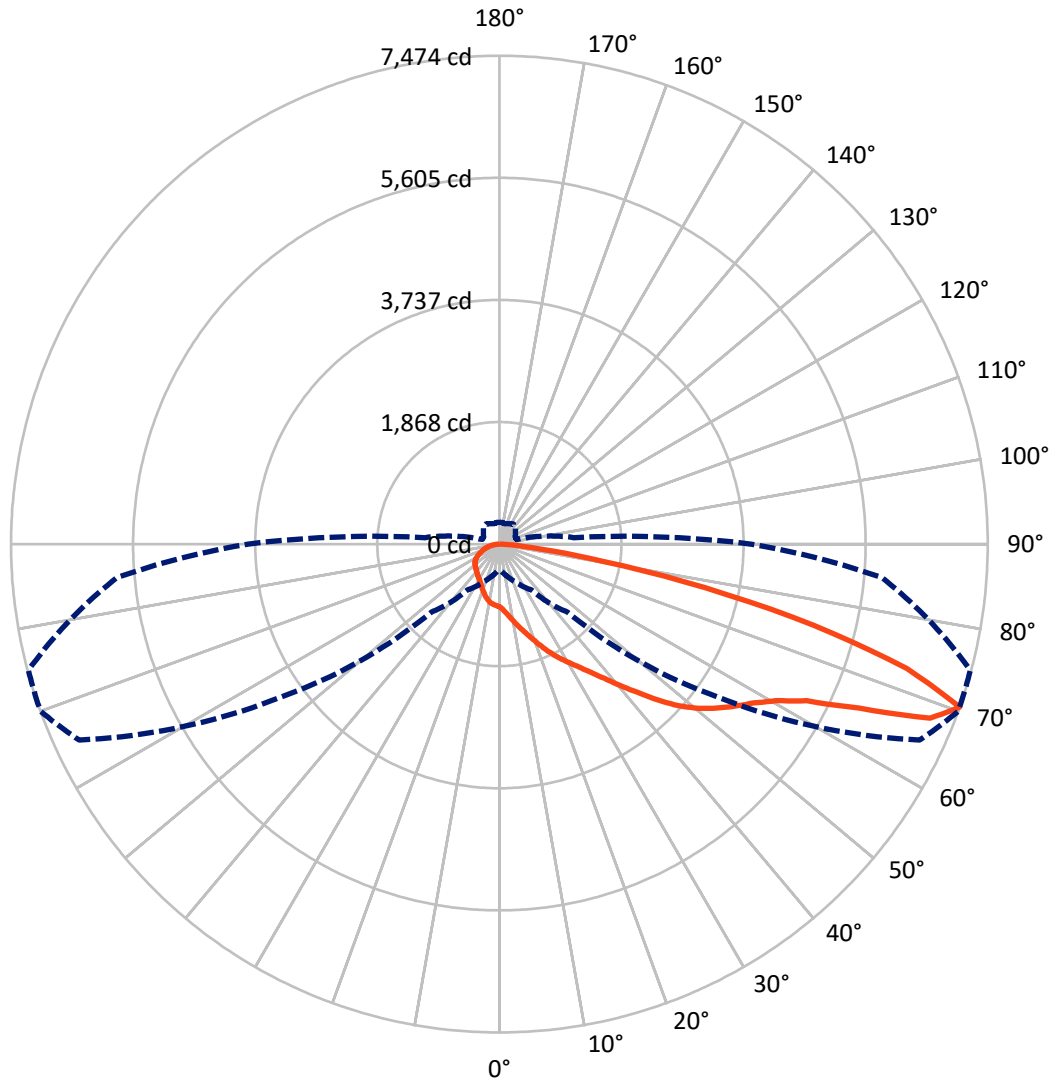
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.4	0.0	1477.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	6766.8	0.0	6766.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	8244.2	0.0	8244.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.2
10°-20°	317.9	3.9
20°-30°	563.1	6.8
30°-40°	847.5	10.3
40°-50°	1282.2	15.6
50°-60°	1836.9	22.3
60°-70°	2030.4	24.6
70°-80°	1145.8	13.9
80°-90°	122.6	1.5
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°	8244.2	100.0
0°-180°	8244.2	100.0

Coefficient of Utilization



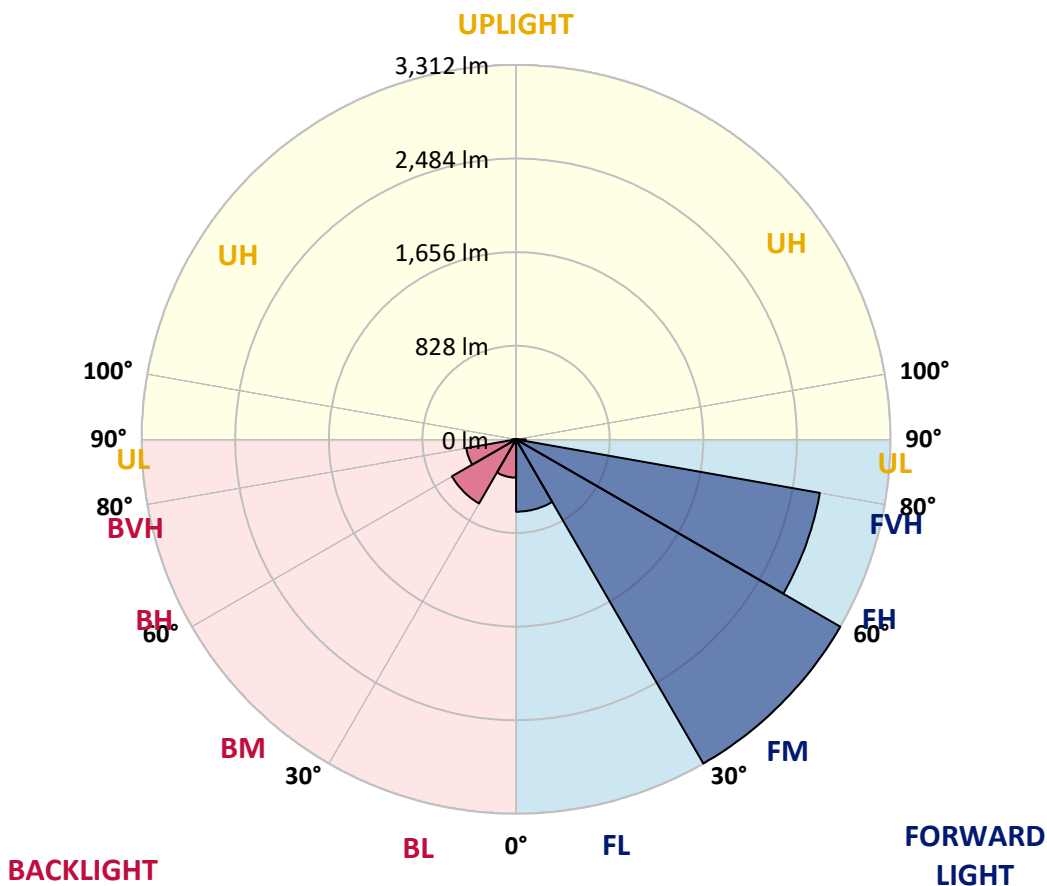
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.0	7.8			
FM (30°-60°)	3311.7	40.2			
FH (60°-80°)	2728.5	33.1			G2/5000
FVH (80°-90°)	86.6	1.1			G1/100
BL (0°-30°)	338.7	4.1	B1/500		
BM (30°-60°)	654.9	7.9	B1/1000		
BH (60°-80°)	447.8	5.4	B1/500		G1/500
BVH (80°-90°)	35.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	1065.1	1063.3	1064.5	1063.3	1056.8	1040.7	1027.6	1010.9	999.6	993.0	977.5
5°	1190.2	1188.4	1184.2	1178.3	1166.4	1144.3	1111.6	1075.2	1053.2	1036.5	1003.7
7.5°	1280.1	1280.1	1279.5	1272.4	1264.1	1240.8	1202.1	1154.4	1122.3	1093.7	1040.1
10°	1326.0	1329.0	1333.2	1343.3	1341.5	1329.0	1292.6	1241.4	1200.9	1167.6	1087.7
12.5°	1351.0	1352.8	1360.0	1380.8	1402.3	1405.2	1383.8	1330.2	1286.1	1241.4	1140.7
15°	1383.2	1383.8	1393.3	1418.3	1449.9	1481.5	1476.1	1422.5	1377.2	1327.8	1199.7
17.5°	1408.2	1412.4	1429.7	1458.8	1498.2	1541.6	1567.9	1534.5	1478.5	1421.9	1264.1
20°	1417.1	1420.1	1442.8	1487.4	1541.1	1602.4	1660.8	1651.8	1595.3	1528.5	1336.7
22.5°	1449.3	1449.3	1466.0	1503.5	1566.7	1656.0	1750.7	1774.0	1723.9	1645.9	1414.8
25°	1520.2	1517.8	1525.6	1541.1	1588.7	1698.9	1839.5	1909.2	1853.2	1765.6	1492.8
27.5°	1617.3	1616.1	1615.5	1617.9	1634.0	1736.4	1914.5	2035.5	1979.5	1880.6	1562.5
30°	1722.7	1719.2	1726.9	1719.8	1716.2	1781.1	1978.3	2148.7	2105.2	1994.4	1620.3
32.5°	1866.3	1859.7	1858.0	1834.7	1820.4	1850.8	2029.5	2277.3	2242.8	2117.1	1685.2
35°	2055.7	2049.8	2019.4	1982.5	1940.2	1954.5	2093.3	2403.0	2405.4	2270.8	1770.4
37.5°	2246.9	2248.1	2224.3	2137.3	2093.9	2085.5	2190.4	2556.1	2607.3	2454.2	1880.6
40°	2406.0	2413.1	2413.1	2321.4	2256.5	2248.7	2326.8	2737.8	2839.7	2679.4	2020.0
42.5°	2526.9	2533.5	2554.3	2488.2	2419.7	2446.5	2492.4	2920.1	3103.0	2957.6	2196.3
45°	2659.8	2665.1	2676.4	2638.3	2598.4	2669.9	2680.0	3138.1	3404.4	3269.7	2401.2
47.5°	2836.1	2831.3	2832.5	2804.5	2773.5	2889.1	2886.7	3321.6	3695.7	3611.7	2623.4
50°	3055.3	3064.2	3055.9	3000.5	2964.2	3069.6	3083.3	3524.7	3951.8	3950.0	2847.4
52.5°	3266.2	3269.7	3313.8	3316.2	3241.7	3219.7	3255.4	3729.6	4168.0	4259.8	3062.4
55°	3276.9	3290.6	3422.8	3518.1	3638.5	3461.6	3429.4	3925.0	4377.1	4563.0	3285.8
57.5°	3048.7	3070.8	3295.4	3500.9	3835.7	3876.8	3727.2	4177.6	4586.2	4861.4	3544.4
60°	2561.5	2607.3	2912.3	3226.9	3746.9	4175.2	4336.6	4520.7	4860.8	5166.4	3858.3
62.5°	1635.8	1653.6	2081.3	2607.9	3347.2	4146.0	5000.2	5125.3	5279.0	5563.7	4342.0
65°	819.1	876.3	1127.0	1556.5	2413.7	3653.4	5335.6	6232.7	6044.5	6244.0	5125.9
67.5°	555.8	574.2	701.1	935.2	1415.4	2588.3	5127.7	7165.6	7110.2	7142.9	5961.7
70°	409.8	421.7	521.8	662.4	856.0	1469.6	4082.3	7095.3	7473.5	7461.6	5874.1
72.5°	299.0	305.0	380.6	505.7	634.4	760.1	2493.0	5731.7	6524.0	6867.7	5137.2
75°	217.4	224.6	264.5	378.3	493.2	474.2	1230.7	4140.0	4975.2	5636.4	4185.3
77.5°	162.0	171.0	189.4	237.1	345.5	339.5	532.0	2688.4	3217.9	3681.4	2542.4
80°	116.8	118.5	129.3	151.9	219.2	199.0	253.2	1401.7	1607.2	1760.9	996.6
82.5°	70.9	72.7	86.4	93.5	135.8	125.1	131.6	453.9	650.5	690.4	372.3
85°	20.8	22.0	39.3	42.9	56.6	53.6	53.0	184.7	220.4	281.8	146.5
87.5°	0.0	0.0	0.0	0.0	0.6	3.6	6.6	32.8	49.4	68.5	35.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4	961.4
2.5°	971.6	957.9	950.7	938.2	929.3	920.3	911.4	903.1	899.5	894.1	895.3
5°	988.8	967.4	946.0	921.5	900.7	883.4	867.9	854.2	848.3	842.9	845.3
7.5°	1015.1	982.9	941.8	897.1	864.3	840.5	824.4	814.9	811.9	807.8	807.8
10°	1048.4	1000.2	928.1	864.3	825.0	806.0	798.8	798.2	801.2	801.8	800.6
12.5°	1085.3	1016.8	907.8	825.6	792.3	786.3	791.7	801.8	811.9	817.3	816.1
15°	1123.5	1027.6	873.3	788.7	768.4	776.2	793.5	813.7	833.4	843.5	842.9
17.5°	1159.2	1029.9	828.6	753.0	747.6	767.2	797.0	828.6	855.4	869.7	870.3
20°	1199.1	1025.8	782.7	720.8	726.7	758.9	798.2	836.3	867.9	882.2	885.8
22.5°	1235.5	1011.5	738.1	690.4	708.9	748.8	788.7	824.4	852.4	866.1	870.9
25°	1268.2	984.1	689.2	664.8	695.2	734.5	764.9	789.9	809.5	817.9	824.4
27.5°	1286.1	943.0	652.3	644.5	682.1	714.2	730.9	738.7	745.2	742.8	747.6
30°	1289.7	891.7	620.1	628.5	662.4	686.2	689.8	682.1	670.7	652.3	656.5
32.5°	1286.1	832.8	593.3	611.2	640.4	654.7	649.9	629.6	602.2	573.6	575.4
35°	1287.3	773.2	571.3	592.1	614.8	622.5	610.6	582.6	553.4	527.2	526.0
37.5°	1300.4	723.2	552.8	573.6	589.7	590.9	577.8	548.6	533.7	514.1	511.7
40°	1336.7	686.2	536.1	555.2	565.3	564.7	549.8	529.0	539.1	532.5	530.8
42.5°	1396.3	663.6	522.4	535.5	542.7	543.9	532.0	518.8	540.9	532.5	529.6
45°	1492.2	662.4	512.9	515.9	527.2	535.5	527.2	512.3	520.6	480.1	472.4
47.5°	1606.0	682.7	505.7	498.6	518.3	533.1	520.0	496.2	478.9	442.0	436.6
50°	1743.0	723.8	499.2	480.1	505.1	524.2	511.1	478.3	452.1	432.5	429.5
52.5°	1905.6	778.0	490.8	459.3	485.5	519.4	511.1	476.6	442.0	424.1	421.2
55°	2076.0	840.5	481.3	434.3	463.4	520.6	515.3	464.0	434.3	424.7	422.3
57.5°	2287.5	915.6	464.0	405.1	443.8	509.9	498.6	456.9	428.9	421.2	418.8
60°	2562.1	1027.0	431.3	375.3	421.2	490.8	483.7	445.0	414.6	408.0	406.3
62.5°	2996.9	1215.8	391.4	346.7	394.3	450.9	461.7	422.3	396.7	396.1	395.5
65°	3705.8	1442.8	344.3	321.1	366.3	418.2	432.5	399.1	378.3	384.8	384.2
67.5°	4202.6	1462.4	305.6	294.3	333.6	382.4	403.3	375.3	352.6	365.2	364.6
70°	3849.4	1140.7	272.2	266.3	298.4	343.7	371.7	345.5	322.9	334.8	332.4
72.5°	3246.5	874.5	240.7	237.1	262.7	303.2	331.2	315.7	291.9	291.9	286.5
75°	2609.1	721.4	207.3	205.5	222.8	262.1	293.7	267.5	245.4	244.2	240.7
77.5°	1496.4	473.0	173.9	172.8	178.1	219.2	228.1	222.8	206.1	198.4	196.0
80°	596.3	246.0	137.0	129.3	134.6	160.8	179.9	171.0	156.7	147.1	141.8
82.5°	231.1	123.3	96.5	84.6	92.3	116.2	130.5	127.5	117.9	96.5	90.5
85°	94.1	60.2	57.8	48.8	53.6	62.5	75.1	64.9	53.6	38.1	36.3
87.5°	25.0	22.0	21.4	13.1	10.1	3.0	0.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)