

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: P629817

Luminaire Tested: GWS-SA1C-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

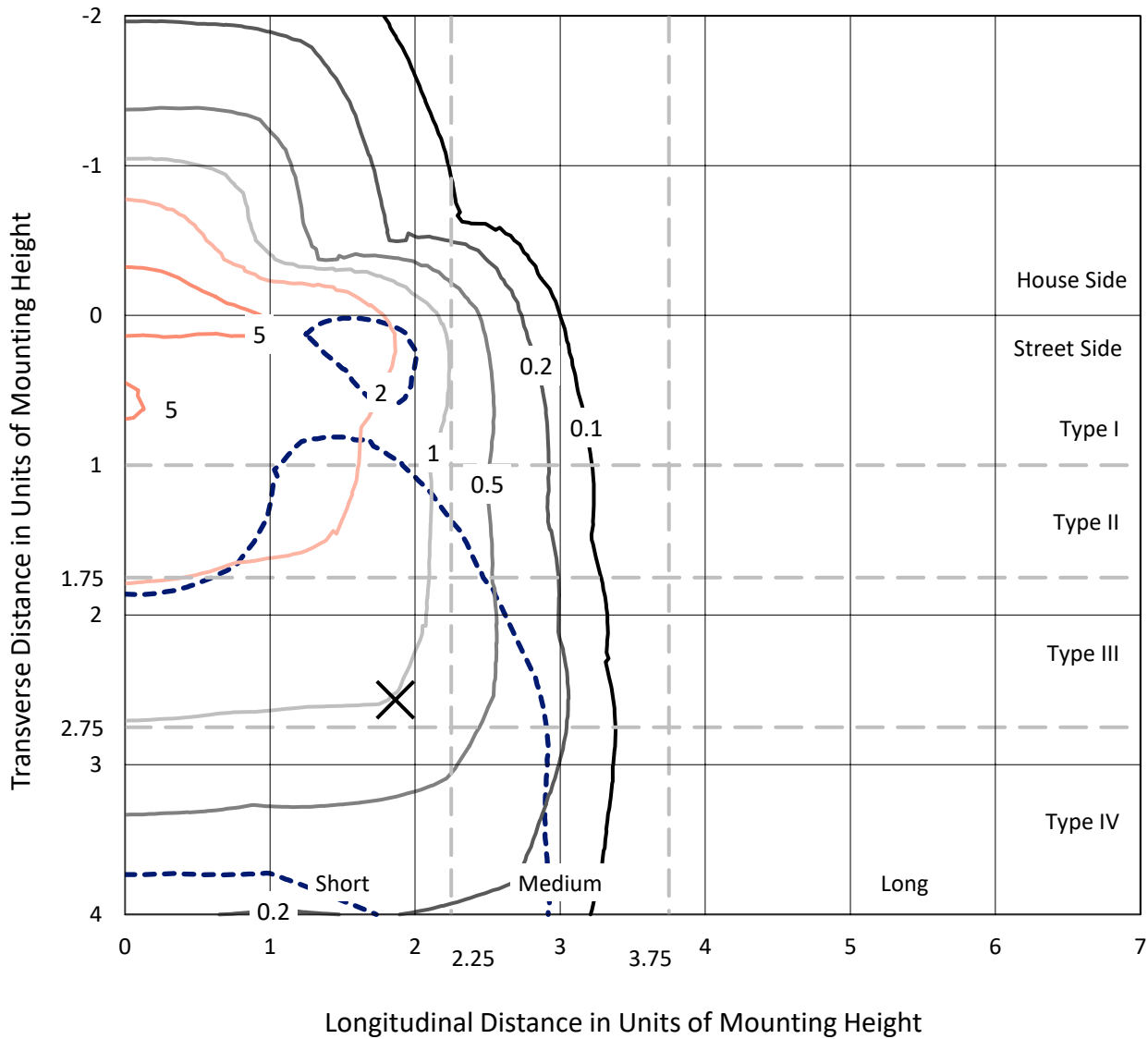
Lumens per Lamp: N/A  
Luminaire Lumens: 4579.1 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

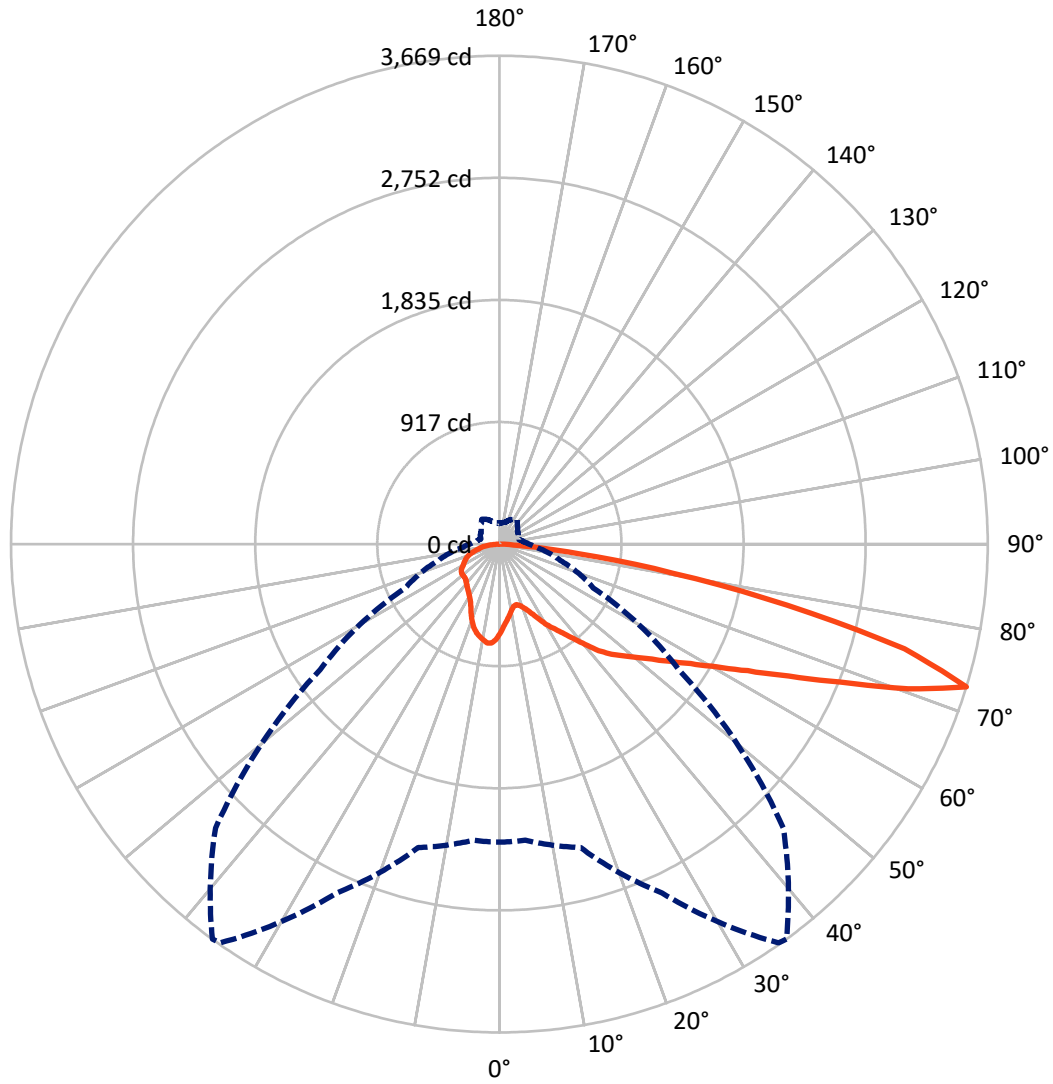
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1055.7	0.0	1055.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	3523.4	0.0	3523.4
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	4579.1	0.0	4579.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	1.4
10°-20°	176.7	3.9
20°-30°	292.7	6.4
30°-40°	438.3	9.6
40°-50°	639.5	14.0
50°-60°	910.2	19.9
60°-70°	1150.0	25.1
70°-80°	819.5	17.9
80°-90°	89.5	2.0
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°	4579.1	100.0
0°-180°	4579.1	100.0

**Coefficient of Utilization**



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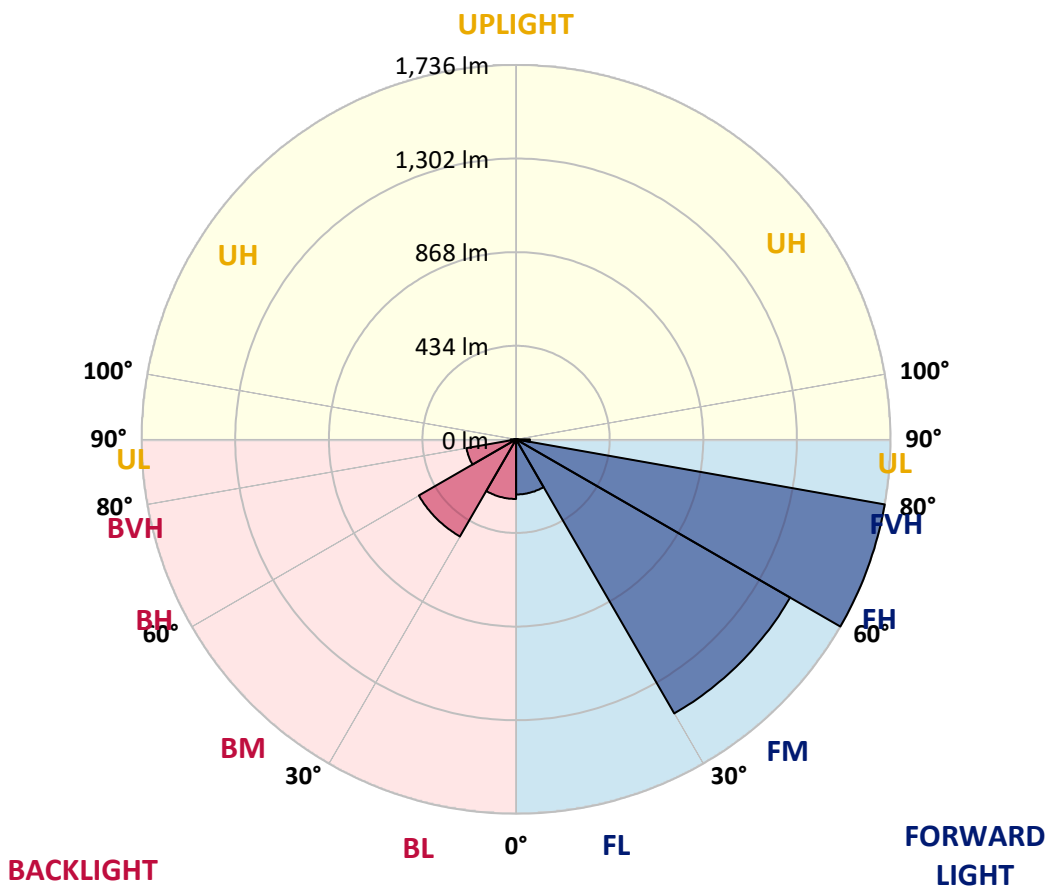
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.6	5.6			
FM (30°-60°)	1467.5	32.0			
FH (60°-80°)	1736.1	37.9			G1/1800
FVH (80°-90°)	64.2	1.4			G1/100
BL (0°-30°)	276.4	6.0	B1/500		
BM (30°-60°)	520.6	11.4	B1/1000		
BH (60°-80°)	233.4	5.1	B1/500		G1/500
BVH (80°-90°)	25.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	611.4	610.4	608.3	614.4	620.6	619.9	628.4	636.5	645.4	654.5	666.8
5°	562.4	561.8	560.1	569.2	578.4	578.1	592.0	605.3	623.3	643.0	667.5
7.5°	513.5	511.8	514.2	525.7	538.7	540.0	559.0	580.8	607.0	636.5	671.2
10°	470.3	470.0	471.0	483.9	503.3	504.7	529.1	559.4	594.0	633.5	679.7
12.5°	459.1	458.4	455.7	462.2	476.8	478.8	505.7	542.7	585.2	635.2	691.2
15°	477.5	475.8	466.3	463.2	470.3	472.0	494.8	532.9	580.1	638.2	705.9
17.5°	509.1	508.1	490.1	477.5	482.2	483.6	500.6	531.2	578.8	644.3	723.9
20°	555.3	550.9	522.7	503.6	503.6	505.7	515.9	538.7	580.5	651.8	744.3
22.5°	616.5	607.6	567.9	542.1	535.3	538.0	542.4	557.3	587.6	664.4	769.7
25°	685.1	677.0	629.7	593.4	583.9	584.9	581.1	583.9	603.2	681.7	801.4
27.5°	758.2	752.8	702.5	656.2	641.3	641.3	628.0	621.6	625.0	701.4	836.7
30°	823.4	816.0	773.5	722.8	703.1	703.1	678.0	664.1	655.9	725.6	883.9
32.5°	857.8	853.3	825.1	786.4	762.3	758.5	736.8	720.5	701.4	761.2	947.8
35°	902.6	901.6	884.6	854.4	823.8	818.3	803.4	790.5	757.5	805.8	1032.8
37.5°	959.0	957.3	954.6	936.6	899.9	898.9	885.6	870.0	827.2	870.0	1135.8
40°	1022.2	1019.2	1015.8	1015.5	993.4	989.6	988.6	970.9	911.1	947.5	1243.1
42.5°	1109.2	1098.7	1066.8	1081.0	1097.4	1094.0	1106.9	1080.4	1015.8	1039.6	1344.8
45°	1216.3	1190.5	1127.3	1131.3	1172.5	1179.3	1224.1	1217.7	1131.0	1146.0	1451.8
47.5°	1280.5	1258.1	1199.3	1195.9	1247.2	1255.7	1353.3	1365.5	1255.0	1274.1	1584.0
50°	1333.2	1317.6	1269.3	1274.1	1328.4	1336.9	1481.4	1507.5	1371.9	1405.3	1737.6
52.5°	1396.8	1374.3	1336.9	1359.4	1426.0	1436.2	1623.8	1652.0	1477.3	1549.3	1896.7
55°	1432.4	1423.3	1423.9	1458.3	1541.9	1555.8	1773.0	1768.2	1573.8	1672.7	2016.3
57.5°	1514.7	1511.3	1542.6	1555.5	1677.1	1695.1	1922.2	1881.4	1661.5	1768.2	2073.7
60°	1659.8	1651.3	1678.5	1698.2	1844.3	1869.8	2088.7	1992.2	1721.0	1839.2	2054.4
62.5°	1863.7	1853.2	1854.2	1885.5	2068.3	2095.1	2273.9	2084.6	1739.3	1850.1	1931.7
65°	2117.2	2101.9	2084.6	2127.1	2365.7	2388.1	2475.4	2151.9	1695.5	1745.4	1675.4
67.5°	2384.7	2372.1	2351.7	2440.8	2750.7	2764.3	2701.4	2146.1	1556.5	1465.4	1175.2
70°	2400.3	2403.4	2499.9	2822.1	3253.3	3256.7	2915.2	2029.9	1260.5	949.9	585.6
72.5°	2239.2	2234.1	2359.9	2891.7	3657.7	3669.3	3016.1	1644.5	778.9	473.7	274.6
75°	1818.8	1827.7	1959.9	2530.1	3135.1	3145.3	2458.8	969.6	370.1	231.8	175.7
77.5°	783.0	832.3	1092.9	1782.5	2245.3	2213.7	1267.3	392.9	197.4	165.2	134.6
80°	226.0	245.4	389.5	847.6	1345.4	1321.7	501.6	147.2	137.6	124.0	96.5
82.5°	73.1	80.9	142.7	337.5	602.9	602.2	190.3	87.0	90.1	84.3	62.2
85°	20.4	23.4	43.8	102.3	186.6	182.8	55.1	41.1	47.9	48.6	30.9
87.5°	0.0	0.0	0.3	0.7	0.7	0.7	1.4	6.1	13.9	17.7	12.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	674.2	673.2	687.2	698.0	708.2	715.0	717.1	718.4	721.1	722.5	721.1
5°	679.0	684.1	707.2	724.2	737.8	746.0	746.3	745.6	747.7	746.0	744.9
7.5°	689.2	699.1	728.3	746.3	755.1	755.5	747.3	737.8	733.0	729.0	727.6
10°	702.8	717.4	749.4	761.2	758.5	746.0	727.9	713.0	704.5	698.4	697.0
12.5°	721.5	737.8	768.0	767.7	750.7	728.3	707.2	689.2	677.0	669.8	667.5
15°	739.2	759.9	781.6	765.7	738.8	711.6	684.4	660.3	644.0	632.8	630.7
17.5°	760.9	783.0	791.5	759.2	723.9	688.9	652.5	620.9	598.8	585.6	584.5
20°	786.1	805.8	796.3	748.0	704.5	658.6	609.3	574.0	550.2	537.3	538.3
22.5°	815.3	829.6	797.6	732.7	677.6	615.8	560.7	526.8	510.8	504.0	504.3
25°	846.6	855.7	795.2	712.0	636.5	563.5	510.8	495.2	493.8	492.1	492.8
27.5°	883.6	881.6	788.1	682.7	581.1	502.6	475.8	479.9	485.3	484.6	485.3
30°	933.2	913.8	778.9	642.3	515.2	451.7	455.1	466.6	473.7	474.4	476.5
32.5°	990.0	949.5	764.3	587.2	452.3	423.1	435.7	449.6	458.1	459.8	462.5
35°	1057.6	990.3	738.5	518.6	407.1	406.1	417.7	427.2	436.4	437.0	437.0
37.5°	1135.4	1031.1	697.4	442.8	379.3	391.5	402.4	404.4	406.8	404.8	405.8
40°	1206.8	1070.5	638.9	373.8	356.5	378.6	387.8	381.0	373.5	368.4	369.4
42.5°	1266.6	1097.4	561.4	325.6	333.4	367.0	374.2	360.2	345.6	336.1	337.5
45°	1333.9	1122.2	470.3	292.9	313.7	358.9	363.6	345.6	326.9	312.7	310.6
47.5°	1426.7	1172.8	389.5	270.2	299.7	354.5	362.3	337.8	313.3	291.9	289.5
50°	1541.2	1244.5	321.8	255.2	293.3	352.1	361.9	329.3	300.1	274.9	273.2
52.5°	1666.3	1314.5	271.9	243.7	286.8	344.9	360.2	319.8	286.1	259.0	256.9
55°	1749.5	1342.0	238.2	232.8	276.3	333.7	353.4	310.6	265.1	240.3	237.2
57.5°	1774.0	1306.7	214.8	222.9	262.7	318.1	340.5	291.2	252.2	232.5	230.1
60°	1731.8	1217.7	200.2	214.8	247.7	298.0	318.1	280.0	242.0	224.3	222.6
62.5°	1612.9	1080.4	189.0	206.3	232.5	277.0	303.8	266.4	230.8	216.8	214.4
65°	1373.6	886.0	179.8	197.4	217.8	256.9	288.2	252.8	218.5	208.0	205.3
67.5°	960.7	622.3	169.9	186.9	203.2	237.6	271.9	240.3	205.9	198.1	195.4
70°	469.7	330.0	158.0	174.7	187.6	217.8	255.6	225.0	189.3	184.9	181.1
72.5°	223.6	184.5	144.1	158.0	166.2	191.7	228.4	202.9	169.6	160.1	153.6
75°	149.9	131.2	125.7	138.3	140.4	160.7	195.7	175.0	149.5	138.7	133.2
77.5°	113.5	100.3	105.7	116.9	112.8	132.2	161.1	156.0	134.9	125.1	122.3
80°	79.9	73.1	83.9	90.7	87.7	112.5	145.1	133.6	111.1	100.3	98.2
82.5°	50.3	48.9	61.9	62.9	63.9	89.0	119.3	105.0	86.3	71.0	65.9
85°	25.1	27.9	37.0	37.0	36.7	45.9	68.0	59.1	46.6	37.0	36.0
87.5°	8.5	11.9	16.0	12.9	9.9	7.8	8.8	10.9	11.6	11.2	11.2
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)