

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: P631847

Luminaire Tested: GWS-SA2B-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

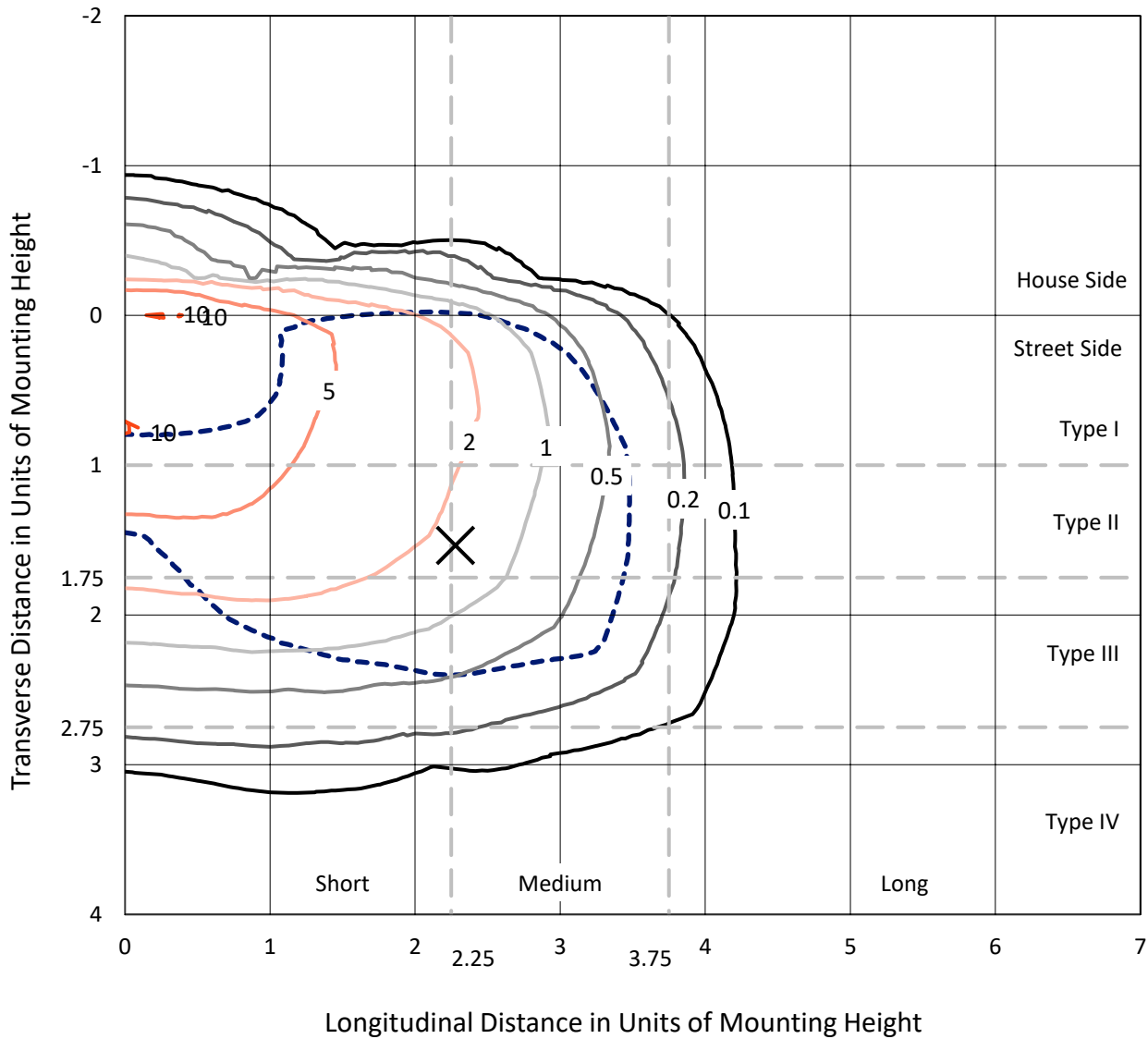
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

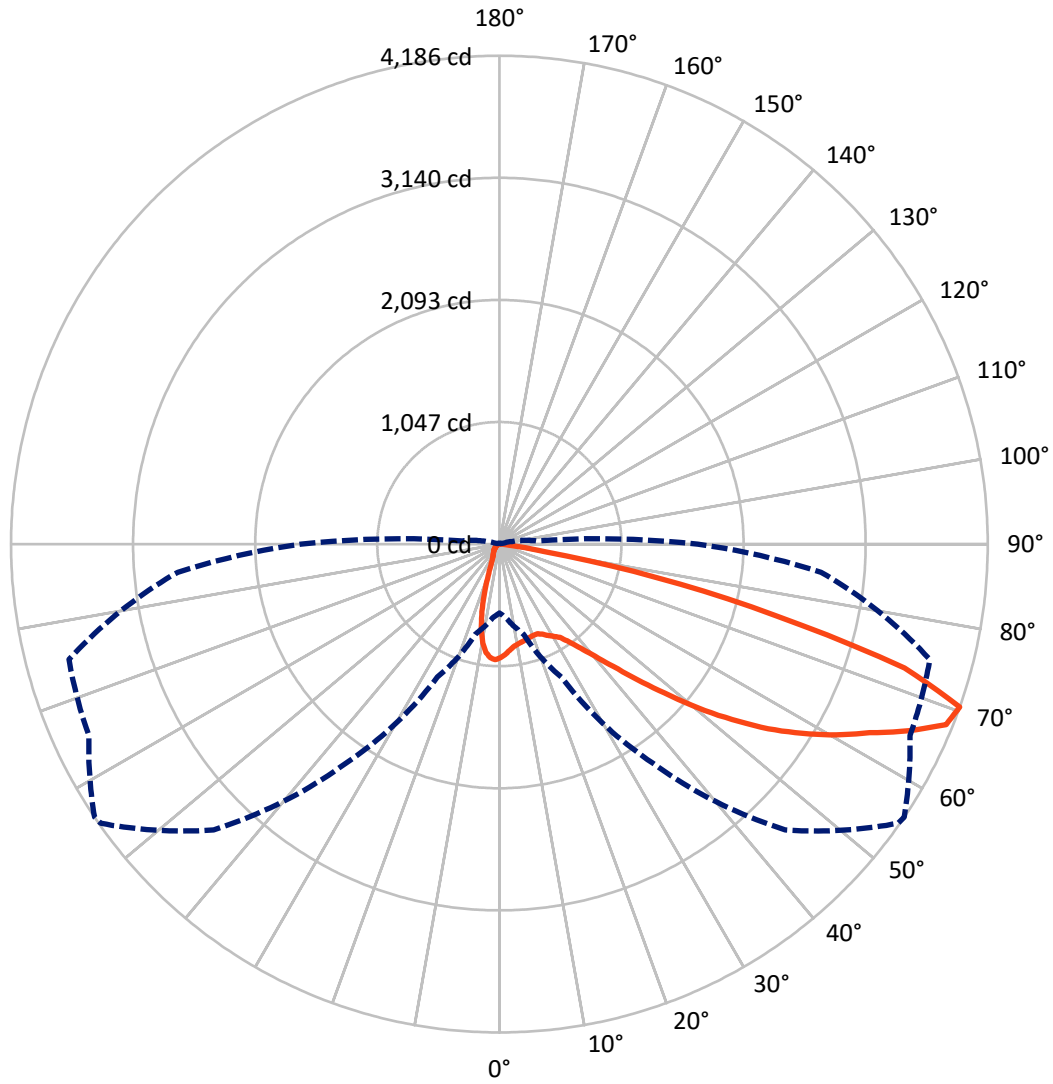
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.2	0.0	485.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	4917.2	0.0	4917.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	5402.4	0.0	5402.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.5
10°-20°	188.1	3.5
20°-30°	298.0	5.5
30°-40°	513.8	9.5
40°-50°	867.7	16.1
50°-60°	1274.9	23.6
60°-70°	1511.5	28.0
70°-80°	644.5	11.9
80°-90°	20.2	0.4
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°	5402.4	100.0
0°-180°	5402.4	100.0

Coefficient of Utilization



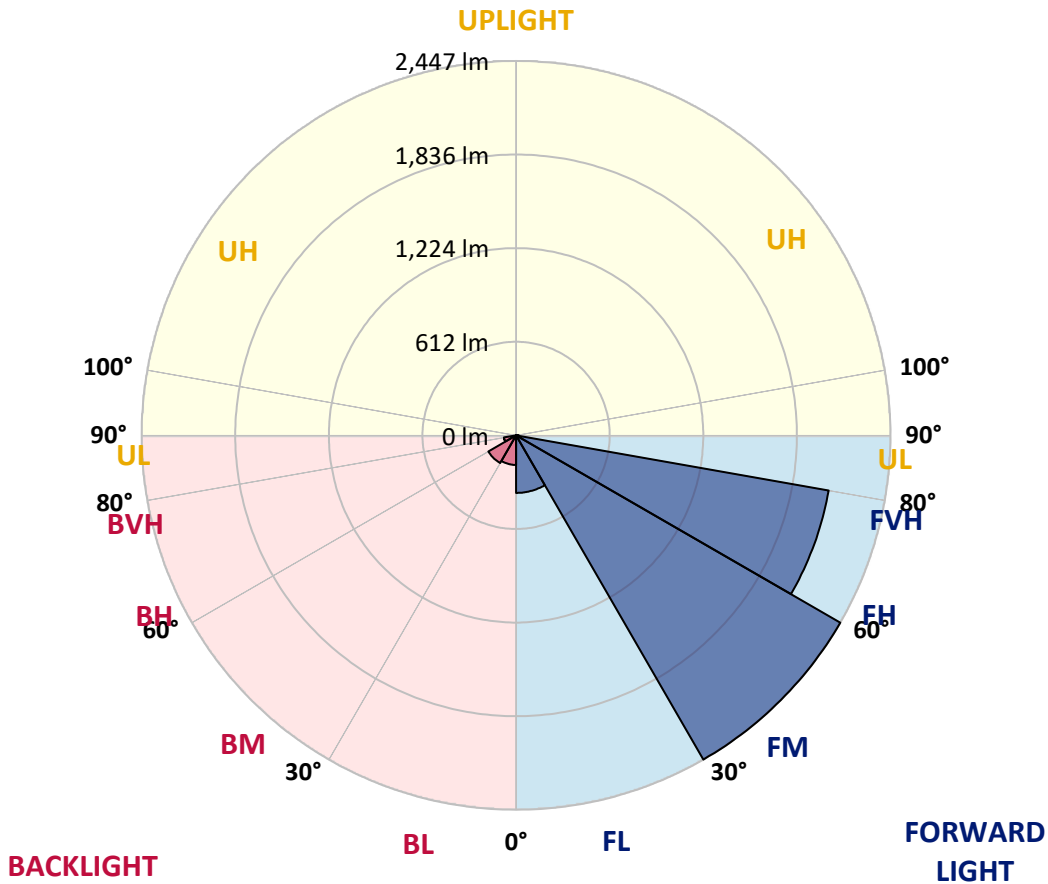
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.4	7.0			
FM (30°-60°)	2447.4	45.3			
FH (60°-80°)	2075.1	38.4			G2/5000
FVH (80°-90°)	18.2	0.3			G1/100
BL (0°-30°)	193.3	3.6	B1/500		
BM (30°-60°)	209.0	3.9	B0/220		
BH (60°-80°)	80.9	1.5	B0/110		G0/110
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	906.8	905.3	906.3	913.8	927.6	934.0	944.9	946.9	955.8	967.2	971.6
5°	848.0	843.0	845.5	855.9	871.7	889.5	909.8	915.2	937.5	962.7	981.5
7.5°	794.0	788.6	794.5	810.8	833.1	852.4	882.6	886.0	921.7	966.2	1000.3
10°	709.4	710.9	722.8	751.5	785.6	825.7	866.3	871.2	915.2	977.6	1030.5
12.5°	644.6	641.2	654.0	686.7	734.7	793.0	853.9	860.3	915.7	994.9	1069.1
15°	614.4	613.5	618.9	642.6	689.1	757.9	842.5	850.9	922.2	1010.7	1105.7
17.5°	615.4	613.9	613.5	627.3	661.9	731.7	830.1	841.0	927.6	1028.0	1144.3
20°	658.5	651.5	639.2	632.7	653.5	714.9	821.7	834.1	935.5	1046.3	1185.4
22.5°	748.5	751.0	717.8	683.2	673.3	716.9	820.7	835.1	952.8	1075.0	1235.8
25°	928.6	924.6	863.3	785.6	731.7	739.6	838.1	855.4	987.0	1116.1	1283.3
27.5°	1154.2	1157.6	1073.5	949.9	837.1	786.6	869.7	887.0	1026.5	1141.8	1315.0
30°	1400.1	1396.6	1306.6	1169.5	986.5	864.8	901.4	916.7	1046.3	1155.7	1347.6
32.5°	1632.6	1624.7	1535.6	1392.1	1176.9	988.0	944.9	953.8	1072.6	1185.8	1391.7
35°	1831.0	1830.5	1752.8	1599.9	1372.9	1142.3	1019.6	1027.0	1121.5	1233.8	1456.5
37.5°	2035.8	2028.9	1941.8	1802.3	1574.2	1311.5	1133.9	1130.9	1198.7	1304.6	1536.1
40°	2204.0	2199.5	2132.7	1998.7	1783.5	1498.5	1272.4	1263.5	1290.2	1402.5	1646.9
42.5°	2328.7	2329.1	2308.4	2226.7	2005.1	1714.7	1446.6	1432.7	1432.2	1550.5	1793.4
45°	2423.1	2429.6	2460.7	2448.4	2266.8	1966.5	1669.7	1655.3	1631.1	1742.4	1961.1
47.5°	2467.2	2475.6	2569.6	2619.1	2495.9	2216.4	1935.4	1905.2	1857.7	1997.7	2148.6
50°	2462.7	2477.6	2608.7	2759.1	2703.7	2469.7	2224.8	2210.4	2132.7	2267.8	2334.1
52.5°	2361.8	2393.5	2611.1	2844.2	2863.4	2703.2	2524.1	2497.4	2459.8	2549.8	2508.2
55°	2087.7	2126.3	2506.8	2871.4	2988.1	2907.0	2816.9	2795.2	2732.8	2816.0	2660.1
57.5°	1938.8	1972.0	2287.1	2858.0	3094.0	3095.5	3077.7	3059.9	3008.4	3079.1	2838.2
60°	1849.3	1882.4	2169.8	2809.0	3190.0	3294.4	3322.6	3320.6	3246.4	3378.5	3047.0
62.5°	1718.2	1763.7	2047.7	2681.9	3258.2	3490.3	3575.4	3562.0	3479.4	3690.1	3253.8
65°	1453.5	1493.1	1797.3	2472.1	3218.2	3652.5	3849.4	3856.4	3760.9	3983.5	3417.0
67.5°	1019.1	1048.3	1350.6	2031.8	2946.1	3706.0	4129.9	4129.4	3966.7	4133.9	3344.8
70°	590.7	630.8	798.0	1256.1	2292.0	3463.1	4172.0	4186.3	3883.1	3819.7	2768.0
72.5°	228.6	261.7	452.2	667.4	1195.2	2652.7	3588.7	3630.8	3249.8	2946.6	1926.4
75°	68.3	76.2	212.7	355.2	479.9	1281.3	2429.6	2441.5	2229.2	1837.9	987.5
77.5°	51.0	56.4	93.0	179.6	168.2	388.4	1257.1	1372.9	1183.4	656.5	272.1
80°	34.6	41.1	66.3	87.6	62.3	103.4	353.2	387.9	361.1	147.4	68.3
82.5°	15.3	19.8	47.0	44.0	22.8	29.7	108.8	115.8	74.7	44.5	23.7
85°	1.5	2.0	17.8	19.3	8.4	6.9	22.8	22.8	16.3	15.3	9.9
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.5	3.0	4.0	4.9
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°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	983.0	977.1	984.5	990.4	991.9	981.0	974.6	965.2	963.2	963.7	961.2
5°	996.4	993.4	998.8	992.4	975.6	943.9	916.7	886.5	870.2	860.8	859.8
7.5°	1021.1	1019.6	1013.7	984.5	932.1	861.8	794.0	727.7	686.7	671.8	669.4
10°	1057.7	1054.7	1030.5	961.2	849.4	714.4	600.6	505.6	447.7	430.9	410.1
12.5°	1099.8	1093.8	1040.9	911.3	724.8	537.8	395.8	289.4	239.4	224.6	224.6
15°	1140.3	1127.5	1035.0	828.7	571.4	349.8	221.1	167.2	151.9	147.9	147.9
17.5°	1181.9	1157.2	1011.7	715.9	394.8	206.8	147.4	137.0	135.1	135.6	136.0
20°	1221.0	1182.4	970.6	580.3	251.8	144.5	132.1	129.6	128.6	129.6	129.1
22.5°	1263.5	1205.6	908.3	432.4	163.8	130.1	125.7	123.7	122.7	124.2	124.2
25°	1305.6	1222.5	825.7	290.9	130.1	121.2	118.7	116.8	115.8	116.3	116.3
27.5°	1327.3	1216.0	717.3	185.5	116.8	112.3	109.8	107.4	105.9	105.4	105.9
30°	1342.2	1196.2	584.8	132.1	105.9	100.4	98.0	96.0	92.0	89.5	90.5
32.5°	1365.4	1176.4	440.8	110.8	97.0	88.6	84.6	79.7	74.2	71.7	71.7
35°	1393.1	1149.2	309.2	99.9	87.6	78.7	71.2	62.8	56.4	54.4	54.4
37.5°	1429.7	1123.5	205.8	92.5	79.7	70.3	59.9	50.0	43.0	42.1	41.6
40°	1484.7	1101.7	145.0	87.1	72.7	61.3	49.0	38.6	33.6	32.2	32.2
42.5°	1555.9	1079.5	114.8	81.6	66.8	52.9	39.1	30.7	26.7	25.7	25.2
45°	1644.0	1053.3	99.9	76.7	60.9	44.0	31.2	25.7	22.8	21.8	21.8
47.5°	1739.4	1017.6	93.0	70.3	53.9	35.6	26.2	22.3	20.8	20.3	19.8
50°	1833.4	969.7	87.1	64.3	46.0	29.2	22.8	20.3	19.3	18.8	18.8
52.5°	1915.6	913.8	79.7	57.4	37.6	25.2	20.3	18.8	17.8	16.8	16.3
55°	1985.8	852.9	70.3	49.5	30.7	22.3	18.8	17.3	16.3	15.3	14.8
57.5°	2076.3	818.3	56.4	40.1	25.2	19.8	17.3	15.8	14.8	13.4	13.4
60°	2176.8	793.0	42.1	31.7	21.8	18.3	15.8	14.3	13.4	11.9	11.9
62.5°	2257.4	755.4	33.1	25.7	18.8	16.3	14.3	12.9	11.9	10.4	10.4
65°	2288.1	677.8	27.2	20.3	15.3	14.3	12.9	11.9	10.4	8.9	8.9
67.5°	2149.6	522.4	22.8	16.3	12.9	12.4	11.4	10.9	8.9	7.9	7.4
70°	1702.3	318.6	18.8	13.4	10.9	10.4	10.4	9.4	7.9	7.4	6.9
72.5°	1166.6	164.2	15.3	10.9	9.4	9.4	8.9	8.4	7.4	6.9	6.9
75°	606.0	54.9	11.9	8.4	7.4	7.9	7.9	7.4	6.9	6.9	6.4
77.5°	173.6	24.7	8.9	6.4	5.9	5.9	6.4	6.4	6.4	5.9	5.9
80°	45.0	14.3	6.4	4.9	4.9	4.9	4.9	5.4	5.9	5.4	5.4
82.5°	18.3	7.9	4.5	4.0	4.0	4.0	4.0	4.5	4.9	4.9	4.9
85°	11.4	4.0	3.5	3.5	3.5	3.0	3.0	3.5	3.5	4.0	4.0
87.5°	6.9	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
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)