

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: P632578

Luminaire Tested: GWS-SA2D-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7802.4 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82.1
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

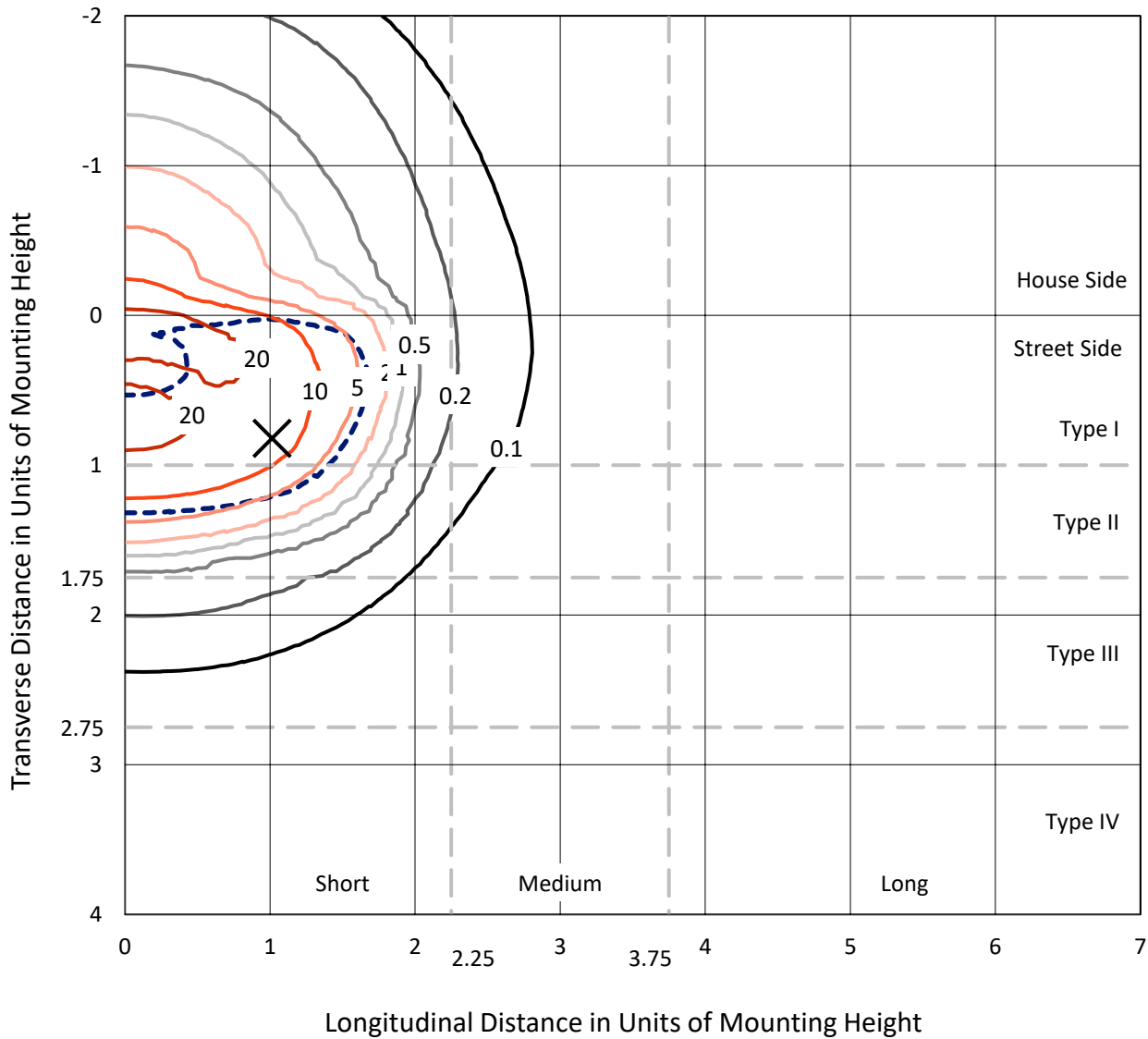


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Iso-Footcandle Lines of Horizontal Illumination

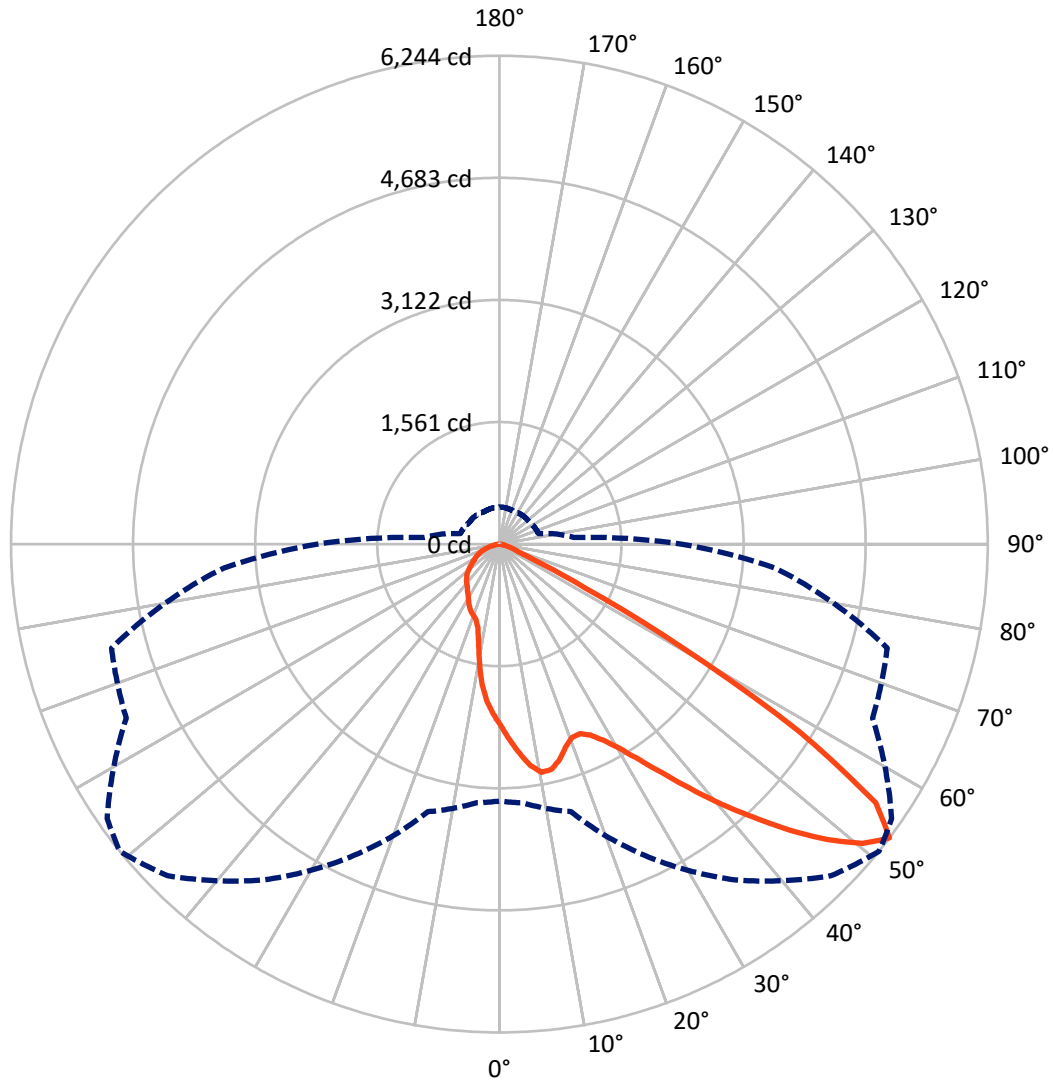
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.2	0.0	1520.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6282.2	0.0	6282.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	7802.4	0.0	7802.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	2.8
10°-20°	563.3	7.2
20°-30°	915.9	11.7
30°-40°	1451.4	18.6
40°-50°	2189.1	28.1
50°-60°	1893.7	24.3
60°-70°	429.3	5.5
70°-80°	126.6	1.6
80°-90°	16.3	0.2
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°	7802.4	100.0
0°-180°	7802.4	100.0

Coefficient of Utilization



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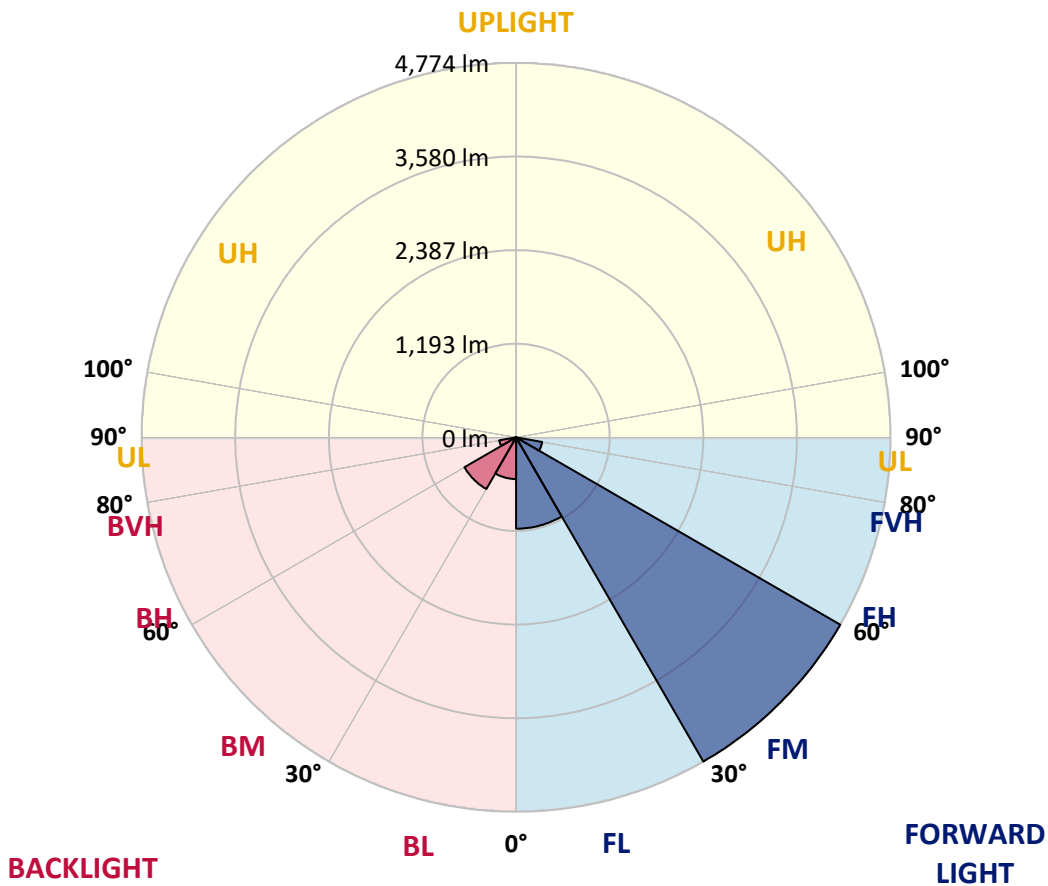
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.5	14.9			
FM (30°-60°)	4773.6	61.2			
FH (60°-80°)	337.9	4.3			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	531.4	6.8	B2/1000		
BM (30°-60°)	760.6	9.7	B1/1000		
BH (60°-80°)	218.0	2.8	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2
2.5°	2588.9	2603.7	2580.9	2572.3	2558.1	2533.4	2505.0	2497.0	2436.0	2395.9	2350.9
5°	2849.1	2857.1	2838.6	2820.1	2785.0	2741.2	2686.3	2674.6	2563.6	2471.8	2376.2
7.5°	2907.0	2904.0	2920.0	2930.5	2926.2	2908.9	2860.2	2837.4	2704.8	2559.3	2418.1
10°	2677.7	2660.4	2719.6	2789.9	2874.4	2971.8	2966.2	2964.4	2849.1	2677.1	2471.8
12.5°	2373.7	2365.1	2413.2	2501.3	2661.0	2876.8	2957.6	3020.5	2979.2	2789.3	2531.6
15°	2199.9	2196.8	2229.4	2293.0	2420.0	2692.5	2865.1	2989.7	3090.8	2909.5	2595.1
17.5°	2168.4	2170.3	2181.4	2217.7	2309.0	2533.4	2733.2	2907.0	3177.7	3041.4	2674.6
20°	2260.3	2272.6	2253.5	2259.0	2308.4	2476.1	2643.2	2823.8	3233.2	3174.0	2760.3
22.5°	2464.4	2460.0	2418.1	2393.5	2394.1	2511.2	2633.3	2785.0	3269.6	3302.9	2838.0
25°	2695.6	2690.6	2640.7	2585.8	2551.3	2606.8	2704.2	2826.3	3302.2	3420.6	2900.3
27.5°	2968.7	2953.3	2897.8	2827.5	2751.1	2775.1	2841.1	2937.9	3352.8	3536.5	2941.6
30°	3233.2	3251.1	3171.5	3088.3	3007.5	2992.7	3031.0	3118.5	3455.8	3672.2	2990.9
32.5°	3584.0	3577.8	3489.7	3381.2	3265.9	3254.8	3285.0	3365.1	3640.7	3859.6	3066.1
35°	4008.8	4010.0	3884.9	3738.1	3574.1	3544.6	3595.1	3672.8	3916.3	4113.6	3185.1
37.5°	4450.3	4448.4	4339.3	4172.8	3949.0	3907.1	3965.0	4023.0	4261.0	4459.5	3370.1
40°	4759.8	4772.1	4720.9	4633.4	4421.3	4318.9	4370.1	4410.2	4635.8	4866.4	3613.6
42.5°	4935.5	4954.0	4965.1	5017.5	4905.9	4796.8	4778.3	4799.2	4970.6	5244.4	3842.3
45°	4973.1	4997.8	5078.5	5272.7	5315.9	5285.1	5224.7	5174.1	5220.3	5512.6	3992.2
47.5°	4807.2	4850.4	5023.0	5362.8	5614.9	5711.7	5644.5	5567.5	5364.6	5581.6	3976.8
50°	4150.0	4200.6	4589.6	5179.0	5657.5	6010.1	6016.3	5902.2	5347.3	5382.5	3783.2
52.5°	3285.6	3320.1	3542.7	4390.5	5240.1	5997.8	6244.4	6122.4	5264.1	5133.4	3540.9
55°	1963.7	2019.2	2227.0	2896.6	4082.2	5315.9	5841.2	5900.4	5223.4	4924.4	3375.6
57.5°	662.8	689.9	888.4	1279.3	2405.8	3892.3	4513.2	4753.6	4741.9	4605.0	3053.2
60°	315.7	321.8	361.9	485.2	963.1	2034.0	2671.5	2949.0	3201.7	3227.0	1899.6
62.5°	240.5	244.2	264.5	291.0	387.2	857.0	1224.5	1436.6	1534.6	1317.0	691.8
65°	201.0	204.1	219.5	236.1	263.3	371.2	469.8	541.9	488.3	380.4	329.9
67.5°	167.7	170.2	181.9	199.8	218.3	248.5	260.8	268.2	281.1	315.7	303.3
70°	131.3	133.8	146.1	161.5	179.4	186.8	198.5	205.9	231.8	276.2	275.0
72.5°	101.1	104.2	111.0	120.8	135.6	143.0	156.0	164.6	179.4	215.2	230.0
75°	74.0	75.8	82.0	85.1	86.9	85.1	98.0	107.9	127.6	141.2	144.9
77.5°	30.2	33.9	32.7	32.7	38.8	46.9	53.6	59.8	73.4	81.4	82.0
80°	12.3	13.6	16.0	17.9	21.6	27.7	32.1	34.5	40.7	45.6	49.3
82.5°	7.4	8.0	9.2	9.9	12.3	16.0	18.5	20.3	25.3	30.2	32.1
85°	3.7	3.7	4.3	4.9	6.2	7.4	8.6	9.9	12.9	16.0	17.9
87.5°	0.6	0.6	0.6	1.2	1.8	2.5	3.1	3.7	4.3	4.9	6.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2	2323.2
2.5°	2324.4	2291.1	2252.3	2221.4	2185.7	2159.2	2121.6	2098.1	2075.9	2057.4	2043.9
5°	2326.9	2270.8	2190.0	2118.5	2044.5	1974.2	1902.1	1843.5	1791.1	1747.3	1743.6
7.5°	2341.0	2260.3	2133.9	2008.7	1864.4	1725.1	1585.8	1472.3	1386.0	1341.0	1331.7
10°	2365.1	2259.0	2076.5	1876.8	1630.8	1406.4	1241.1	1154.8	1104.9	1087.0	1080.8
12.5°	2390.4	2256.0	2003.2	1690.6	1349.0	1152.3	1061.7	1051.2	1060.5	1061.7	1061.1
15°	2421.2	2254.1	1910.7	1472.3	1143.1	1034.6	1040.7	1062.9	1084.5	1089.4	1089.4
17.5°	2458.8	2249.8	1784.9	1259.0	1014.2	1011.8	1044.4	1074.0	1094.4	1098.1	1098.1
20°	2498.3	2238.7	1630.2	1085.1	961.8	997.6	1032.7	1055.5	1069.7	1074.6	1075.3
22.5°	2525.4	2209.1	1452.0	956.3	929.1	970.5	995.7	1019.2	1019.2	1006.8	1003.1
25°	2530.9	2145.6	1259.0	868.1	890.3	928.5	954.4	940.9	915.6	905.7	905.1
27.5°	2510.6	2053.1	1068.5	805.2	843.4	881.7	877.4	857.6	846.5	836.7	840.4
30°	2485.9	1942.1	903.2	753.4	789.2	826.8	812.0	805.2	797.2	786.1	788.6
32.5°	2469.3	1818.2	776.2	713.3	752.8	759.0	769.5	768.8	761.4	740.5	739.2
35°	2474.2	1693.0	691.2	680.7	722.6	720.1	739.9	736.2	685.0	656.0	654.2
37.5°	2513.7	1572.8	641.2	654.8	674.5	689.9	707.2	662.8	644.9	626.4	627.6
40°	2588.9	1461.2	614.1	640.6	645.5	668.3	628.3	627.6	619.6	603.0	602.4
42.5°	2674.0	1366.9	595.6	633.8	627.0	631.3	588.8	593.7	593.1	582.6	579.6
45°	2725.8	1280.0	580.8	608.5	610.4	567.2	554.3	559.8	562.9	557.4	556.7
47.5°	2672.1	1180.1	565.4	569.7	585.7	538.2	522.2	522.8	528.4	529.0	526.5
50°	2521.7	1068.5	546.9	536.4	525.9	508.0	493.2	490.2	495.7	501.3	503.1
52.5°	2327.5	961.8	516.1	500.0	475.4	475.4	468.6	458.7	466.1	473.5	476.0
55°	2185.1	882.9	472.3	454.4	427.3	436.5	435.3	426.7	436.5	442.1	443.9
57.5°	1893.4	709.7	415.6	410.0	387.2	398.3	400.8	389.7	384.7	386.0	387.8
60°	1124.0	458.1	374.9	374.2	353.9	366.8	374.2	363.1	348.4	350.2	352.7
62.5°	504.3	350.2	323.7	321.2	320.6	337.3	345.3	334.8	313.8	315.7	318.1
65°	317.5	302.7	281.1	281.1	291.0	305.2	311.4	302.7	278.7	275.6	278.1
67.5°	294.7	281.8	259.6	255.3	260.2	271.9	272.5	255.9	241.7	239.2	239.2
70°	264.5	254.6	233.1	224.4	222.6	222.0	220.1	215.8	206.5	204.1	205.3
72.5°	218.9	212.1	198.5	189.3	184.3	183.7	176.3	172.6	164.6	163.4	162.8
75°	144.9	146.7	146.7	145.5	141.2	139.3	131.3	127.6	118.4	114.7	114.1
77.5°	85.7	87.6	90.0	90.6	90.0	90.0	82.6	78.3	69.1	64.1	62.9
80°	52.4	53.6	54.9	56.7	54.3	52.4	45.6	41.3	37.0	33.9	33.3
82.5°	33.9	35.1	35.8	37.0	35.8	33.3	27.7	25.3	22.2	19.7	19.1
85°	19.1	19.7	21.0	21.0	19.1	17.3	14.2	12.3	10.5	9.2	9.2
87.5°	6.8	6.8	6.8	7.4	6.2	5.5	3.7	2.5	1.8	1.8	1.8
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)