

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: P630818

Luminaire Tested: GWS-SA1E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630818
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-SA1E-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6874.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

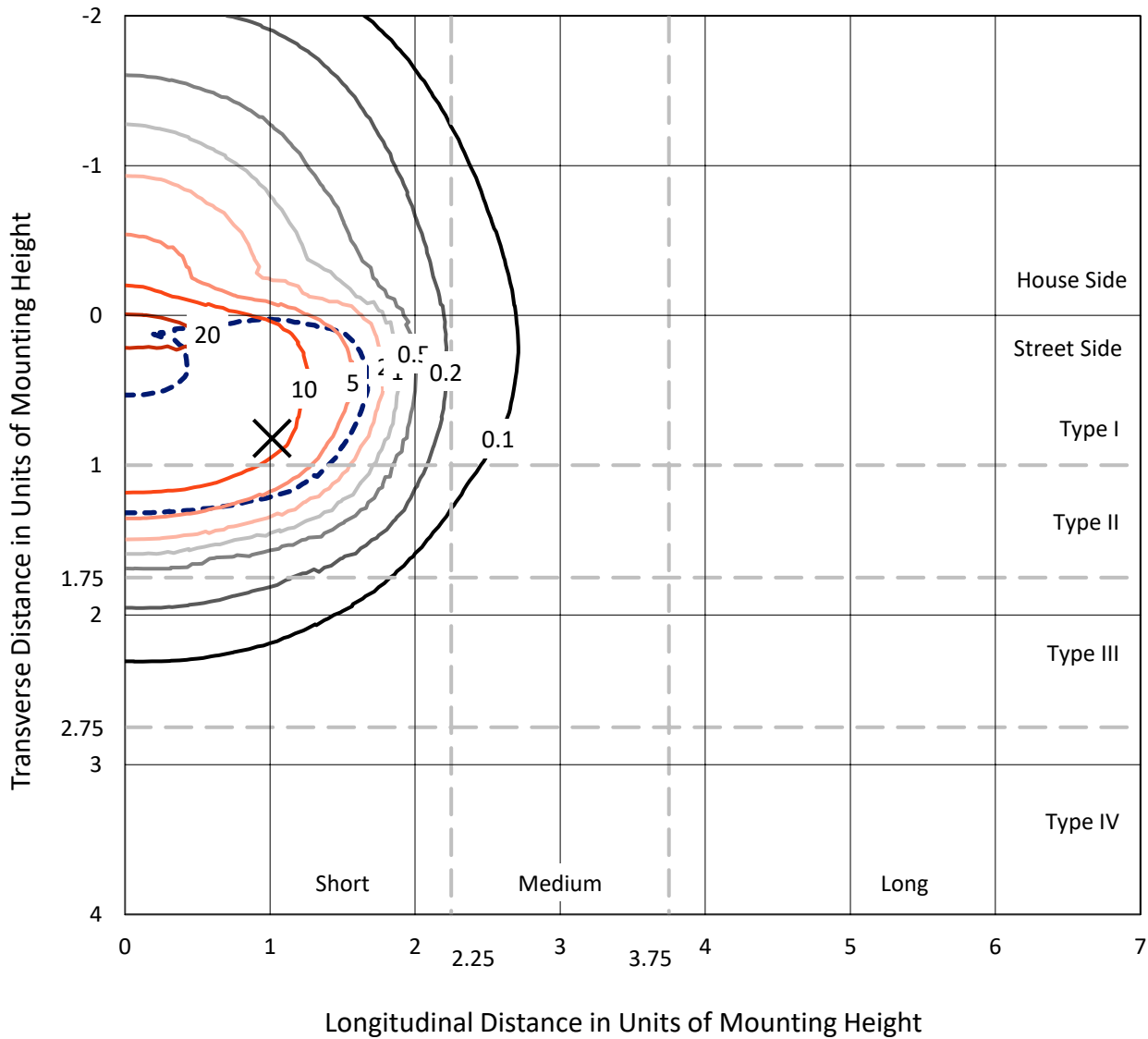
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

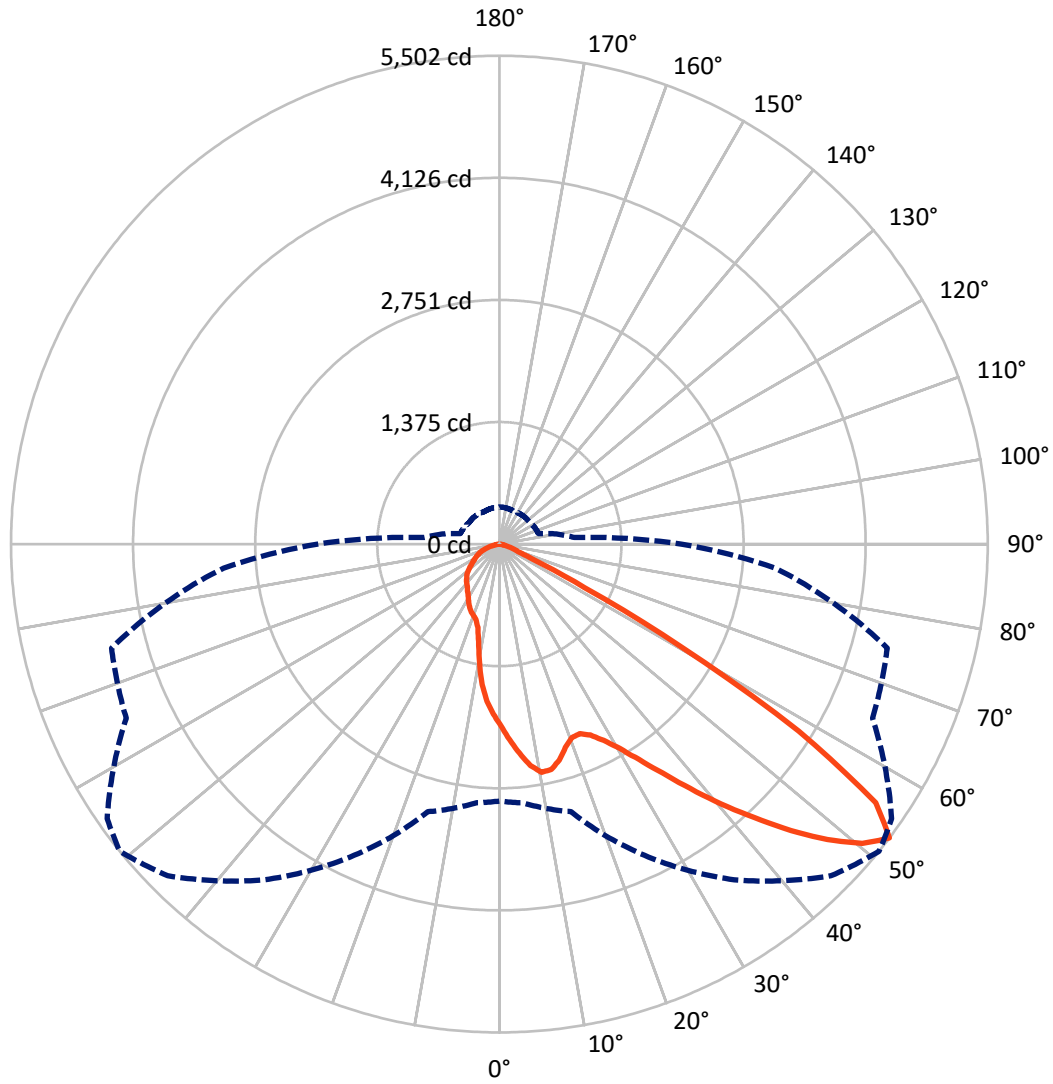
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 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	1339.4	0.0	1339.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5535.0	0.0	5535.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	6874.4	0.0	6874.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	2.8
10°-20°	496.3	7.2
20°-30°	806.9	11.7
30°-40°	1278.8	18.6
40°-50°	1928.7	28.1
50°-60°	1668.5	24.3
60°-70°	378.3	5.5
70°-80°	111.5	1.6
80°-90°	14.4	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°	6874.4	100.0
0°-180°	6874.4	100.0

Coefficient of Utilization



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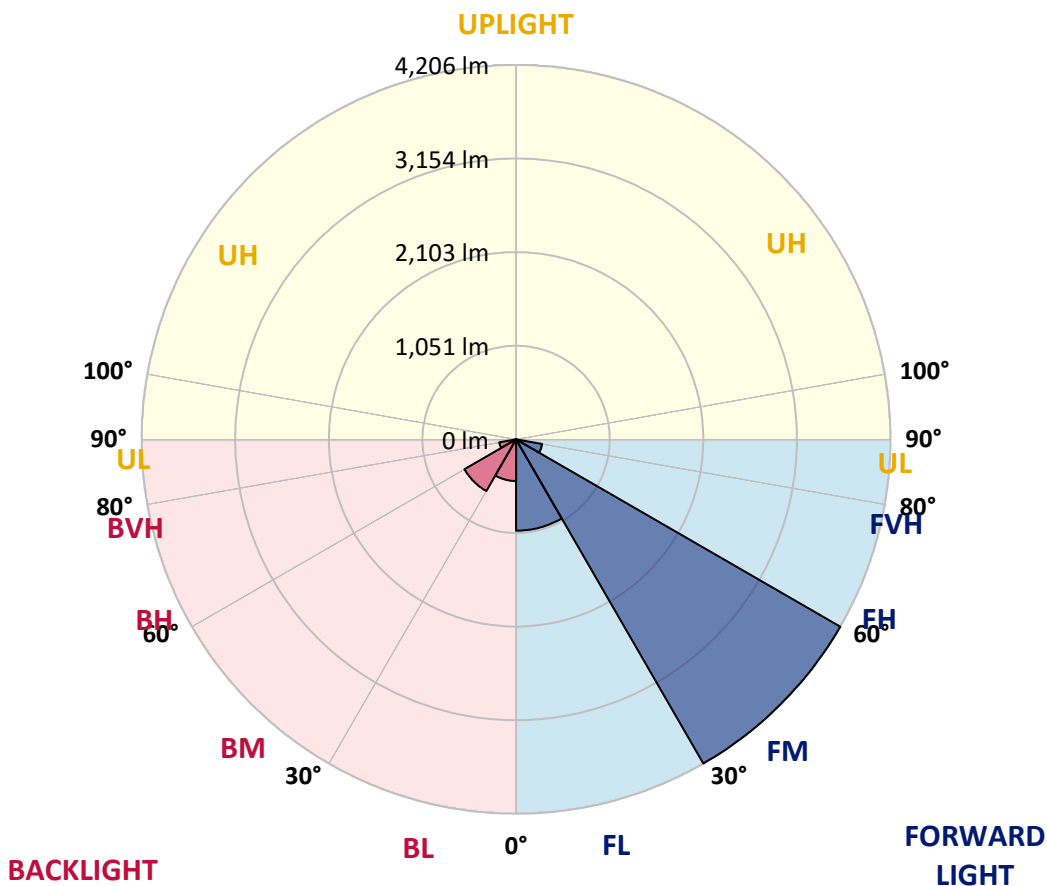
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.0	14.9			
FM (30°-60°)	4205.8	61.2			
FH (60°-80°)	297.7	4.3			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	468.2	6.8	B1/500		
BM (30°-60°)	670.2	9.7	B1/1000		
BH (60°-80°)	192.1	2.8	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9
2.5°	2281.0	2294.0	2273.9	2266.3	2253.8	2232.1	2207.1	2200.0	2146.3	2111.0	2071.3
5°	2510.2	2517.3	2501.0	2484.7	2453.7	2415.2	2366.8	2356.5	2258.7	2177.8	2093.6
7.5°	2561.3	2558.6	2572.7	2581.9	2578.1	2562.9	2520.0	2499.9	2383.1	2254.9	2130.5
10°	2359.2	2344.0	2396.1	2458.1	2532.5	2618.3	2613.4	2611.8	2510.2	2358.7	2177.8
12.5°	2091.4	2083.8	2126.2	2203.8	2344.5	2534.7	2605.8	2661.2	2624.8	2457.5	2230.5
15°	1938.2	1935.5	1964.3	2020.2	2132.1	2372.2	2524.3	2634.1	2723.2	2563.5	2286.4
17.5°	1910.5	1912.1	1921.9	1954.0	2034.4	2232.1	2408.1	2561.3	2799.8	2679.7	2356.5
20°	1991.4	2002.3	1985.5	1990.4	2033.8	2181.6	2328.8	2487.9	2848.6	2796.5	2432.0
22.5°	2171.2	2167.4	2130.5	2108.8	2109.3	2212.5	2320.1	2453.7	2880.7	2910.0	2500.4
25°	2375.0	2370.6	2326.6	2278.3	2247.8	2296.7	2382.6	2490.1	2909.5	3013.8	2555.3
27.5°	2615.6	2602.0	2553.1	2491.2	2423.8	2445.0	2503.2	2588.4	2954.0	3115.9	2591.7
30°	2848.6	2864.4	2794.3	2721.0	2649.8	2636.8	2670.5	2747.6	3044.7	3235.4	2635.2
32.5°	3157.7	3152.3	3074.6	2979.0	2877.4	2867.7	2894.3	2964.9	3207.7	3400.6	2701.4
35°	3532.0	3533.1	3422.8	3293.5	3149.0	3123.0	3167.5	3236.0	3450.5	3624.4	2806.3
37.5°	3921.0	3919.3	3823.2	3676.5	3479.3	3442.4	3493.4	3544.5	3754.2	3929.1	2969.2
40°	4193.7	4204.5	4159.4	4082.3	3895.4	3805.3	3850.3	3885.7	4084.5	4287.6	3183.8
42.5°	4348.5	4364.8	4374.5	4420.7	4322.4	4226.2	4210.0	4228.4	4379.4	4620.6	3385.3
45°	4381.6	4403.3	4474.5	4645.6	4683.6	4656.5	4603.2	4558.7	4599.4	4856.9	3517.3
47.5°	4235.5	4273.5	4425.6	4724.9	4947.1	5032.4	4973.2	4905.3	4726.6	4917.8	3503.8
50°	3656.4	3701.0	4043.7	4563.0	4984.6	5295.3	5300.7	5200.2	4711.3	4742.3	3333.2
52.5°	2894.8	2925.2	3121.3	3868.3	4616.8	5284.4	5501.7	5394.2	4638.0	4522.8	3119.7
55°	1730.2	1779.0	1962.1	2552.0	3596.7	4683.6	5146.5	5198.6	4602.2	4338.7	2974.1
57.5°	584.0	607.9	782.8	1127.2	2119.6	3429.3	3976.4	4188.2	4177.9	4057.3	2690.0
60°	278.1	283.6	318.9	427.5	848.5	1792.1	2353.8	2598.2	2820.9	2843.2	1673.7
62.5°	211.9	215.1	233.0	256.4	341.1	755.1	1078.8	1265.7	1352.1	1160.3	609.5
65°	177.1	179.8	193.4	208.1	232.0	327.0	413.9	477.5	430.2	335.2	290.6
67.5°	147.8	149.9	160.2	176.0	192.3	218.9	229.8	236.3	247.7	278.1	267.3
70°	115.7	117.9	128.7	142.3	158.1	164.6	174.9	181.4	204.3	243.4	242.3
72.5°	89.1	91.8	97.8	106.5	119.5	126.0	137.4	145.0	158.1	189.6	202.6
75°	65.2	66.8	72.2	75.0	76.6	75.0	86.4	95.1	112.4	124.4	127.7
77.5°	26.6	29.9	28.8	28.8	34.2	41.3	47.3	52.7	64.6	71.7	72.2
80°	10.9	12.0	14.1	15.8	19.0	24.4	28.2	30.4	35.9	40.2	43.5
82.5°	6.5	7.1	8.1	8.7	10.9	14.1	16.3	17.9	22.3	26.6	28.2
85°	3.3	3.3	3.8	4.3	5.4	6.5	7.6	8.7	11.4	14.1	15.8
87.5°	0.5	0.5	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.3	5.4
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°	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9	2046.9
2.5°	2047.9	2018.6	1984.4	1957.2	1925.7	1902.4	1869.2	1848.6	1829.0	1812.7	1800.8
5°	2050.1	2000.7	1929.5	1866.5	1801.3	1739.4	1675.8	1624.2	1578.1	1539.5	1536.2
7.5°	2062.6	1991.4	1880.1	1769.8	1642.7	1519.9	1397.2	1297.2	1221.2	1181.5	1173.4
10°	2083.8	1990.4	1829.6	1653.6	1436.8	1239.1	1093.5	1017.5	973.4	957.7	952.3
12.5°	2106.1	1987.6	1764.9	1489.5	1188.6	1015.3	935.4	926.2	934.3	935.4	934.9
15°	2133.2	1986.0	1683.4	1297.2	1007.1	911.5	917.0	936.5	955.5	959.9	959.9
17.5°	2166.4	1982.2	1572.6	1109.3	893.6	891.4	920.2	946.3	964.2	967.5	967.5
20°	2201.1	1972.4	1436.3	956.1	847.4	878.9	909.9	930.0	942.5	946.8	947.4
22.5°	2225.0	1946.4	1279.3	842.5	818.6	855.0	877.3	897.9	897.9	887.1	883.8
25°	2229.9	1890.4	1109.3	764.9	784.4	818.1	840.9	829.0	806.7	798.0	797.4
27.5°	2212.0	1808.9	941.4	709.4	743.1	776.8	773.0	755.6	745.8	737.1	740.4
30°	2190.3	1711.1	795.8	663.8	695.3	728.5	715.4	709.4	702.4	692.6	694.8
32.5°	2175.6	1602.0	683.9	628.5	663.3	668.7	677.9	677.4	670.9	652.4	651.3
35°	2179.9	1491.7	608.9	599.7	636.7	634.5	651.9	648.6	603.5	578.0	576.4
37.5°	2214.7	1385.8	564.9	576.9	594.3	607.9	623.1	584.0	568.2	551.9	553.0
40°	2281.0	1287.4	541.0	564.4	568.8	588.9	553.5	553.0	545.9	531.3	530.7
42.5°	2355.9	1204.3	524.8	558.4	552.5	556.3	518.8	523.1	522.6	513.3	510.6
45°	2401.6	1127.7	511.7	536.2	537.8	499.8	488.4	493.2	496.0	491.1	490.5
47.5°	2354.3	1039.7	498.1	501.9	516.1	474.2	460.1	460.7	465.5	466.1	463.9
50°	2221.8	941.4	481.8	472.6	463.4	447.6	434.6	431.9	436.7	441.6	443.3
52.5°	2050.7	847.4	454.7	440.6	418.8	418.8	412.8	404.2	410.7	417.2	419.4
55°	1925.2	777.9	416.1	400.4	376.5	384.6	383.5	375.9	384.6	389.5	391.1
57.5°	1668.2	625.2	366.1	361.2	341.1	350.9	353.1	343.3	339.0	340.1	341.7
60°	990.3	403.6	330.3	329.7	311.8	323.2	329.7	320.0	306.9	308.5	310.7
62.5°	444.4	308.5	285.2	283.0	282.5	297.1	304.2	295.0	276.5	278.1	280.3
65°	279.8	266.7	247.7	247.7	256.4	268.9	274.3	266.7	245.5	242.8	245.0
67.5°	259.7	248.3	228.7	224.9	229.2	239.6	240.1	225.4	212.9	210.8	210.8
70°	233.0	224.3	205.3	197.7	196.1	195.6	193.9	190.1	182.0	179.8	180.9
72.5°	192.8	186.9	174.9	166.8	162.4	161.9	155.4	152.1	145.0	144.0	143.4
75°	127.7	129.3	129.3	128.2	124.4	122.8	115.7	112.4	104.3	101.0	100.5
77.5°	75.5	77.1	79.3	79.9	79.3	79.3	72.8	69.0	60.8	56.5	55.4
80°	46.2	47.3	48.3	50.0	47.8	46.2	40.2	36.4	32.6	29.9	29.3
82.5°	29.9	31.0	31.5	32.6	31.5	29.3	24.4	22.3	19.6	17.4	16.8
85°	16.8	17.4	18.5	18.5	16.8	15.2	12.5	10.9	9.2	8.1	8.1
87.5°	6.0	6.0	6.0	6.5	5.4	4.9	3.3	2.2	1.6	1.6	1.6
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)