

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: P630763

Luminaire Tested: GWS-SA1E-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630763
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6780.2 lumens
Efficiency: N/A
Efficacy: 116.1 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

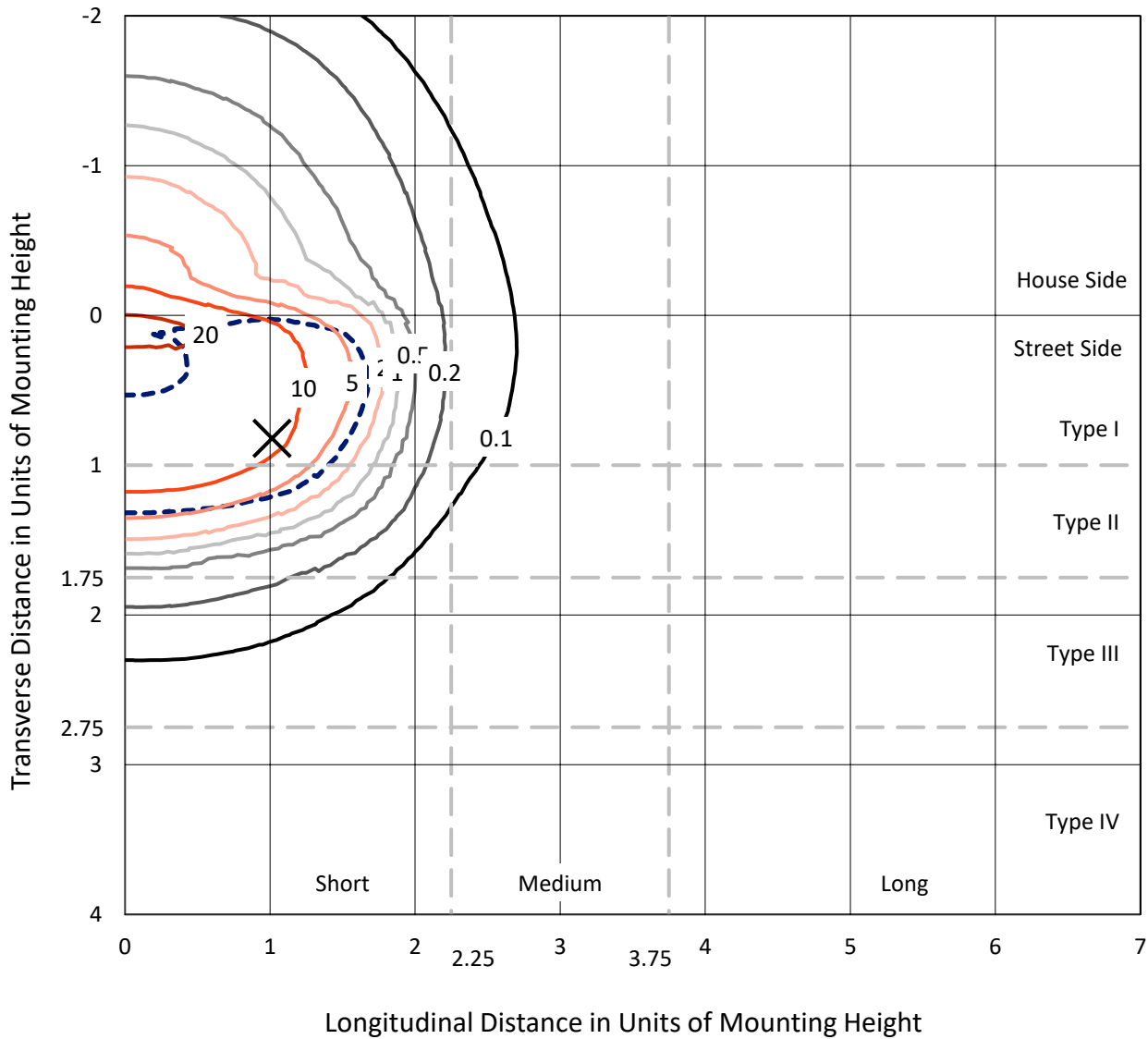


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Iso-Footcandle Lines of Horizontal Illumination

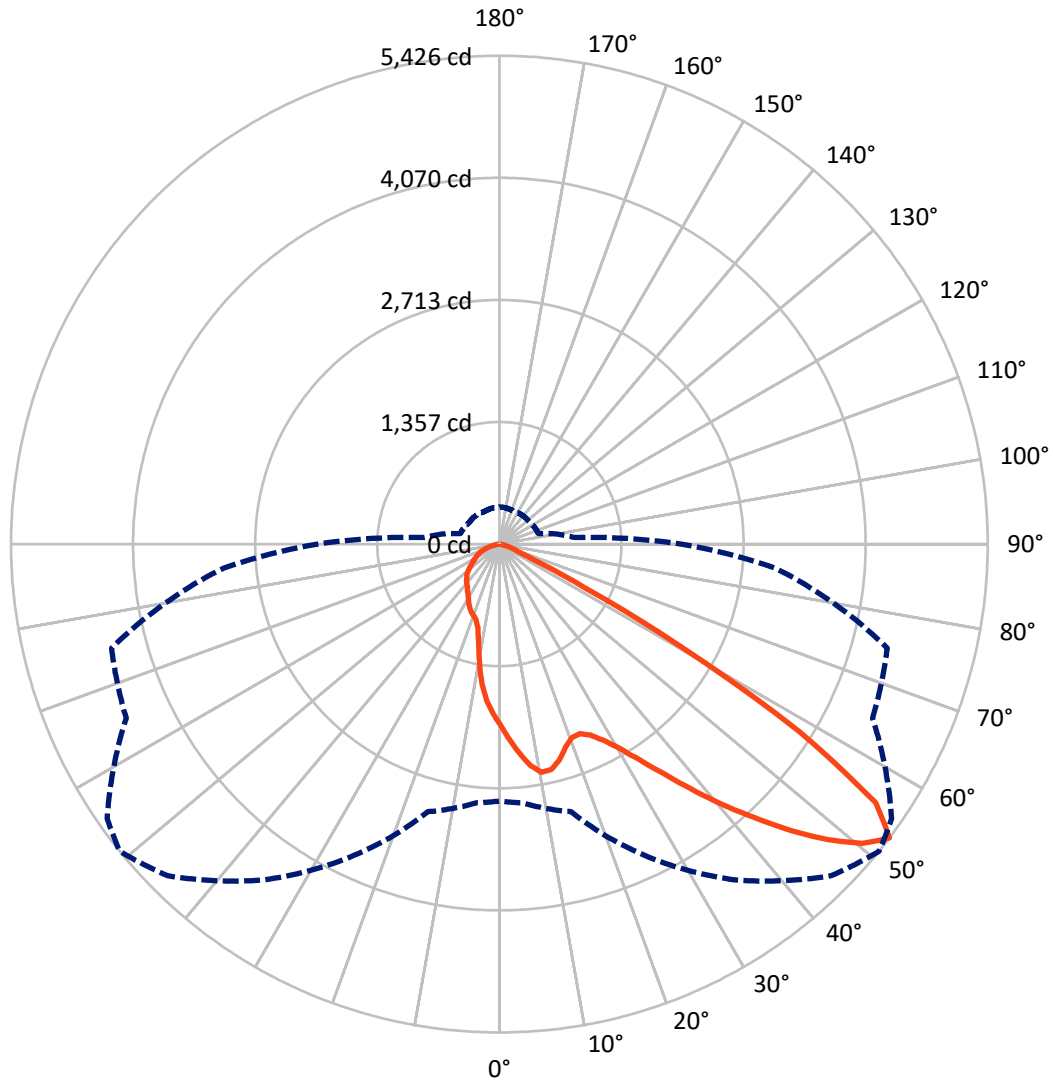
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 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	1321.1	0.0	1321.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5459.1	0.0	5459.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	6780.2	0.0	6780.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	2.8
10°-20°	489.5	7.2
20°-30°	795.9	11.7
30°-40°	1261.3	18.6
40°-50°	1902.3	28.1
50°-60°	1645.6	24.3
60°-70°	373.1	5.5
70°-80°	110.0	1.6
80°-90°	14.2	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°	6780.2	100.0
0°-180°	6780.2	100.0

Coefficient of Utilization



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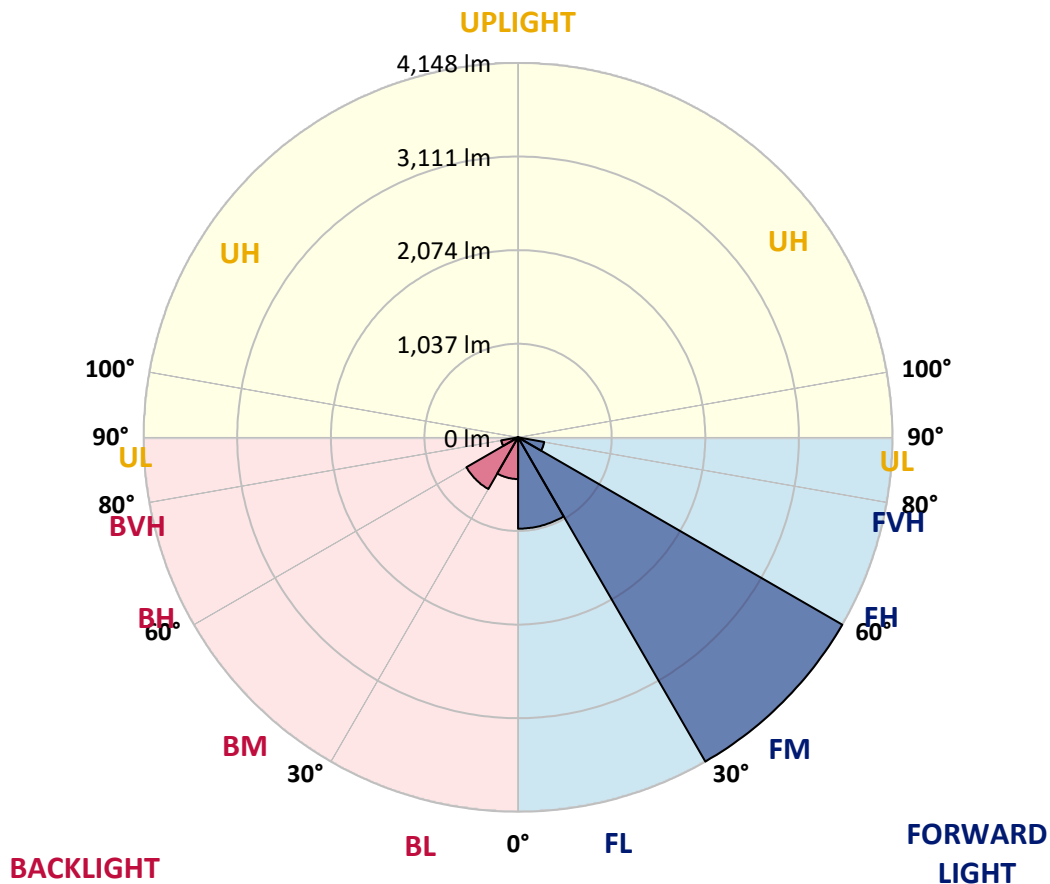
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.0	14.9			
FM (30°-60°)	4148.2	61.2			
FH (60°-80°)	293.6	4.3			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	461.8	6.8	B1/500		
BM (30°-60°)	661.0	9.7	B1/1000		
BH (60°-80°)	189.5	2.8	B1/500		G1/500
BVH (80°-90°)	8.8	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°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2249.7	2262.6	2242.8	2235.3	2222.9	2201.5	2176.9	2169.9	2116.9	2082.0	2042.9
5°	2475.8	2482.8	2466.7	2450.6	2420.1	2382.1	2334.4	2324.2	2227.8	2147.9	2064.9
7.5°	2526.2	2523.5	2537.4	2546.5	2542.8	2527.8	2485.5	2465.6	2350.4	2224.0	2101.3
10°	2326.9	2311.9	2363.3	2424.4	2497.8	2582.4	2577.6	2576.0	2475.8	2326.3	2147.9
12.5°	2062.7	2055.2	2097.0	2173.6	2312.4	2499.9	2570.1	2624.8	2588.9	2423.9	2199.9
15°	1911.6	1909.0	1937.4	1992.6	2102.9	2339.7	2489.8	2598.0	2685.8	2528.3	2255.1
17.5°	1884.3	1885.9	1895.6	1927.2	2006.5	2201.5	2375.1	2526.2	2761.4	2643.0	2324.2
20°	1964.2	1974.9	1958.3	1963.1	2005.9	2151.7	2296.9	2453.9	2809.6	2758.2	2398.7
22.5°	2141.5	2137.7	2101.3	2079.9	2080.4	2182.2	2288.3	2420.1	2841.2	2870.2	2466.2
25°	2342.4	2338.1	2294.7	2247.0	2217.0	2265.3	2349.9	2456.0	2869.6	2972.5	2520.3
27.5°	2579.8	2566.4	2518.1	2457.1	2390.6	2411.5	2468.9	2553.0	2913.5	3073.2	2556.2
30°	2809.6	2825.1	2756.0	2683.7	2613.5	2600.7	2633.9	2710.0	3003.0	3191.1	2599.0
32.5°	3114.5	3109.1	3032.5	2938.2	2838.0	2828.4	2854.6	2924.3	3163.8	3354.0	2664.4
35°	3483.6	3484.7	3375.9	3248.4	3105.9	3080.2	3124.1	3191.6	3403.2	3574.7	2767.8
37.5°	3867.2	3865.6	3770.8	3626.1	3431.6	3395.2	3445.6	3495.9	3702.7	3875.3	2928.6
40°	4136.2	4146.9	4102.4	4026.4	3842.0	3753.1	3797.6	3832.4	4028.5	4228.9	3140.2
42.5°	4288.9	4305.0	4314.6	4360.1	4263.2	4168.3	4152.3	4170.5	4319.4	4557.3	3339.0
45°	4321.6	4343.0	4413.2	4582.0	4619.5	4592.7	4540.2	4496.2	4536.4	4790.4	3469.1
47.5°	4177.4	4214.9	4365.0	4660.2	4879.3	4963.4	4905.0	4838.1	4661.8	4850.4	3455.8
50°	3606.3	3650.2	3988.3	4500.5	4916.3	5222.7	5228.1	5129.0	4646.8	4677.3	3287.5
52.5°	2855.2	2885.2	3078.6	3815.3	4553.6	5212.0	5426.3	5320.3	4574.5	4460.9	3077.0
55°	1706.4	1754.7	1935.2	2517.1	3547.4	4619.5	5075.9	5127.4	4539.1	4279.2	2933.4
57.5°	576.0	599.5	772.1	1111.7	2090.6	3382.4	3921.9	4130.8	4120.7	4001.7	2653.2
60°	274.3	279.7	314.5	421.7	836.9	1767.5	2321.5	2562.6	2782.3	2804.3	1650.7
62.5°	209.0	212.2	229.8	252.9	336.5	744.7	1064.1	1248.4	1333.5	1144.4	601.1
65°	174.7	177.3	190.7	205.2	228.8	322.5	408.3	470.9	424.3	330.6	286.6
67.5°	145.7	147.9	158.1	173.6	189.7	215.9	226.6	233.1	244.3	274.3	263.6
70°	114.1	116.3	127.0	140.4	155.9	162.3	172.5	178.9	201.5	240.0	239.0
72.5°	87.9	90.5	96.4	105.0	117.9	124.3	135.6	143.1	155.9	187.0	199.8
75°	64.3	65.9	71.3	73.9	75.5	73.9	85.2	93.8	110.9	122.7	125.9
77.5°	26.3	29.5	28.4	28.4	33.8	40.7	46.6	52.0	63.8	70.7	71.3
80°	10.7	11.8	13.9	15.5	18.8	24.1	27.9	30.0	35.4	39.6	42.9
82.5°	6.4	7.0	8.0	8.6	10.7	13.9	16.1	17.7	22.0	26.3	27.9
85°	3.2	3.2	3.8	4.3	5.4	6.4	7.5	8.6	11.3	13.9	15.5
87.5°	0.5	0.5	0.5	1.1	1.6	2.1	2.7	3.2	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°	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2019.9	1990.9	1957.2	1930.4	1899.3	1876.3	1843.6	1823.2	1804.0	1787.9	1776.1
5°	2022.0	1973.3	1903.1	1840.9	1776.6	1715.6	1652.9	1602.0	1556.4	1518.4	1515.2
7.5°	2034.3	1964.2	1854.3	1745.6	1620.2	1499.1	1378.0	1279.4	1204.4	1165.3	1157.3
10°	2055.2	1963.1	1804.5	1630.9	1417.1	1222.1	1078.5	1003.5	960.1	944.6	939.2
12.5°	2077.2	1960.4	1740.7	1469.1	1172.3	1001.4	922.6	913.5	921.5	922.6	922.1
15°	2104.0	1958.8	1660.4	1279.4	993.3	899.0	904.4	923.7	942.4	946.7	946.7
17.5°	2136.7	1955.0	1551.1	1094.1	881.4	879.2	907.6	933.3	951.0	954.2	954.2
20°	2171.0	1945.4	1416.6	943.0	835.8	866.9	897.4	917.2	929.6	933.9	934.4
22.5°	2194.5	1919.7	1261.8	831.0	807.4	843.3	865.3	885.6	885.6	874.9	871.7
25°	2199.4	1864.5	1094.1	754.4	773.7	806.9	829.4	817.6	795.6	787.1	786.5
27.5°	2181.7	1784.1	928.5	699.7	732.9	766.2	762.4	745.3	735.6	727.0	730.3
30°	2160.2	1687.7	784.9	654.7	685.8	718.5	705.6	699.7	692.8	683.1	685.3
32.5°	2145.8	1580.0	674.5	619.9	654.2	659.5	668.6	668.1	661.7	643.5	642.4
35°	2150.1	1471.2	600.6	591.5	627.9	625.8	642.9	639.7	595.2	570.1	568.5
37.5°	2184.4	1366.8	557.2	569.0	586.1	599.5	614.5	576.0	560.4	544.3	545.4
40°	2249.7	1269.8	533.6	556.7	561.0	580.8	546.0	545.4	538.5	524.0	523.5
42.5°	2323.7	1187.8	517.6	550.8	544.9	548.6	511.7	516.0	515.4	506.3	503.6
45°	2368.7	1112.3	504.7	528.8	530.4	492.9	481.7	486.5	489.2	484.3	483.8
47.5°	2322.1	1025.5	491.3	495.1	509.0	467.7	453.8	454.3	459.2	459.7	457.6
50°	2191.3	928.5	475.2	466.1	457.0	441.5	428.6	425.9	430.8	435.6	437.2
52.5°	2022.6	835.8	448.4	434.5	413.1	413.1	407.2	398.6	405.0	411.5	413.6
55°	1898.8	767.2	410.4	394.9	371.3	379.3	378.3	370.8	379.3	384.2	385.8
57.5°	1645.4	616.7	361.1	356.3	336.5	346.1	348.3	338.6	334.3	335.4	337.0
60°	976.7	398.1	325.8	325.2	307.5	318.8	325.2	315.6	302.7	304.3	306.5
62.5°	438.3	304.3	281.3	279.1	278.6	293.1	300.0	290.9	272.7	274.3	276.5
65°	275.9	263.1	244.3	244.3	252.9	265.2	270.6	263.1	242.2	239.5	241.6
67.5°	256.1	244.8	225.6	221.8	226.1	236.3	236.8	222.3	210.0	207.9	207.9
70°	229.8	221.3	202.5	195.0	193.4	192.9	191.3	187.5	179.5	177.3	178.4
72.5°	190.2	184.3	172.5	164.5	160.2	159.7	153.2	150.0	143.1	142.0	141.4
75°	125.9	127.5	127.5	126.4	122.7	121.1	114.1	110.9	102.9	99.7	99.1
77.5°	74.5	76.1	78.2	78.8	78.2	78.2	71.8	68.0	60.0	55.7	54.6
80°	45.5	46.6	47.7	49.3	47.1	45.5	39.6	35.9	32.1	29.5	28.9
82.5°	29.5	30.5	31.1	32.1	31.1	28.9	24.1	22.0	19.3	17.1	16.6
85°	16.6	17.1	18.2	18.2	16.6	15.0	12.3	10.7	9.1	8.0	8.0
87.5°	5.9	5.9	5.9	6.4	5.4	4.8	3.2	2.1	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)