

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: P639703

Luminaire Tested: GWS-SA5C-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20670.2 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

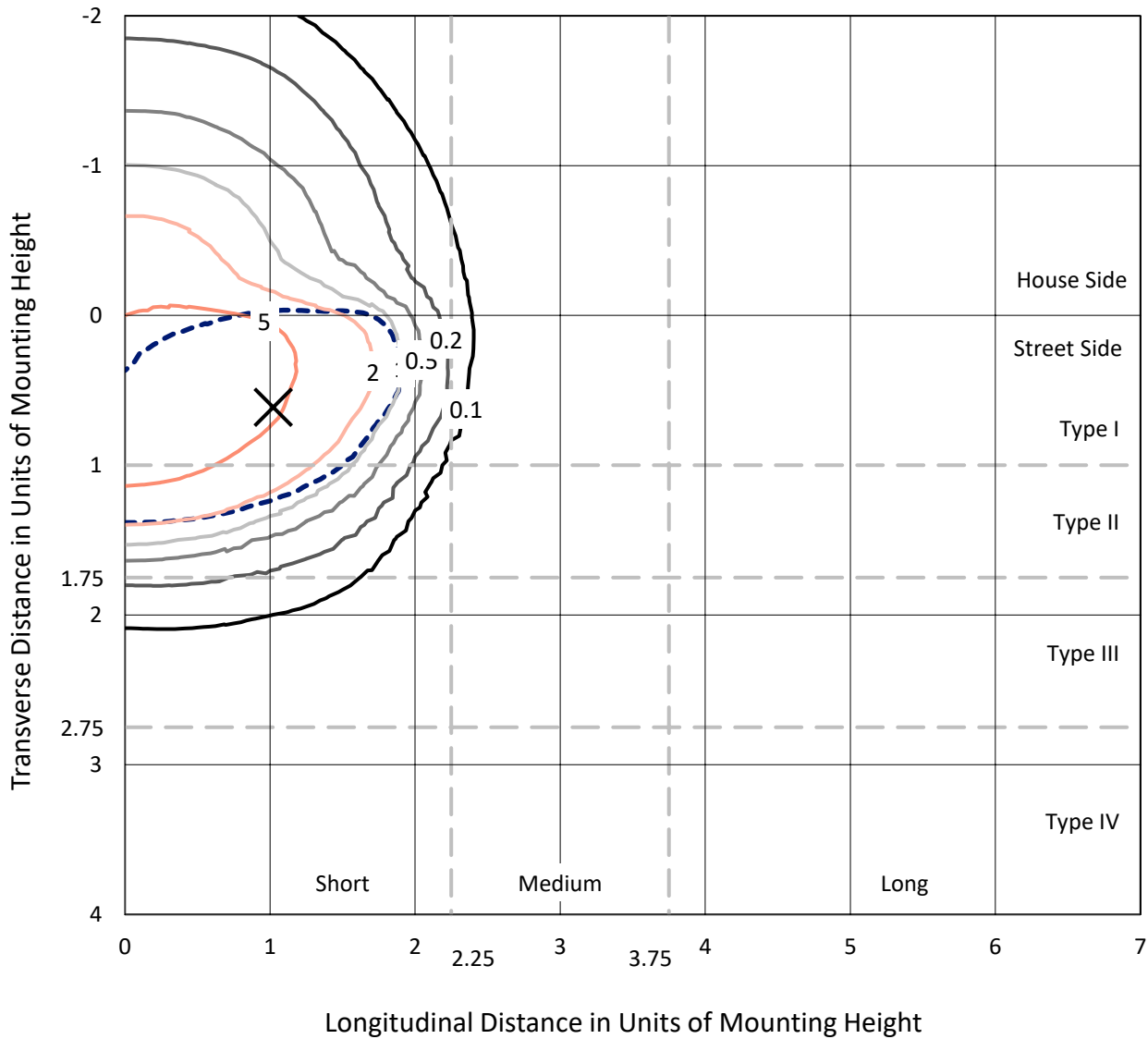
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

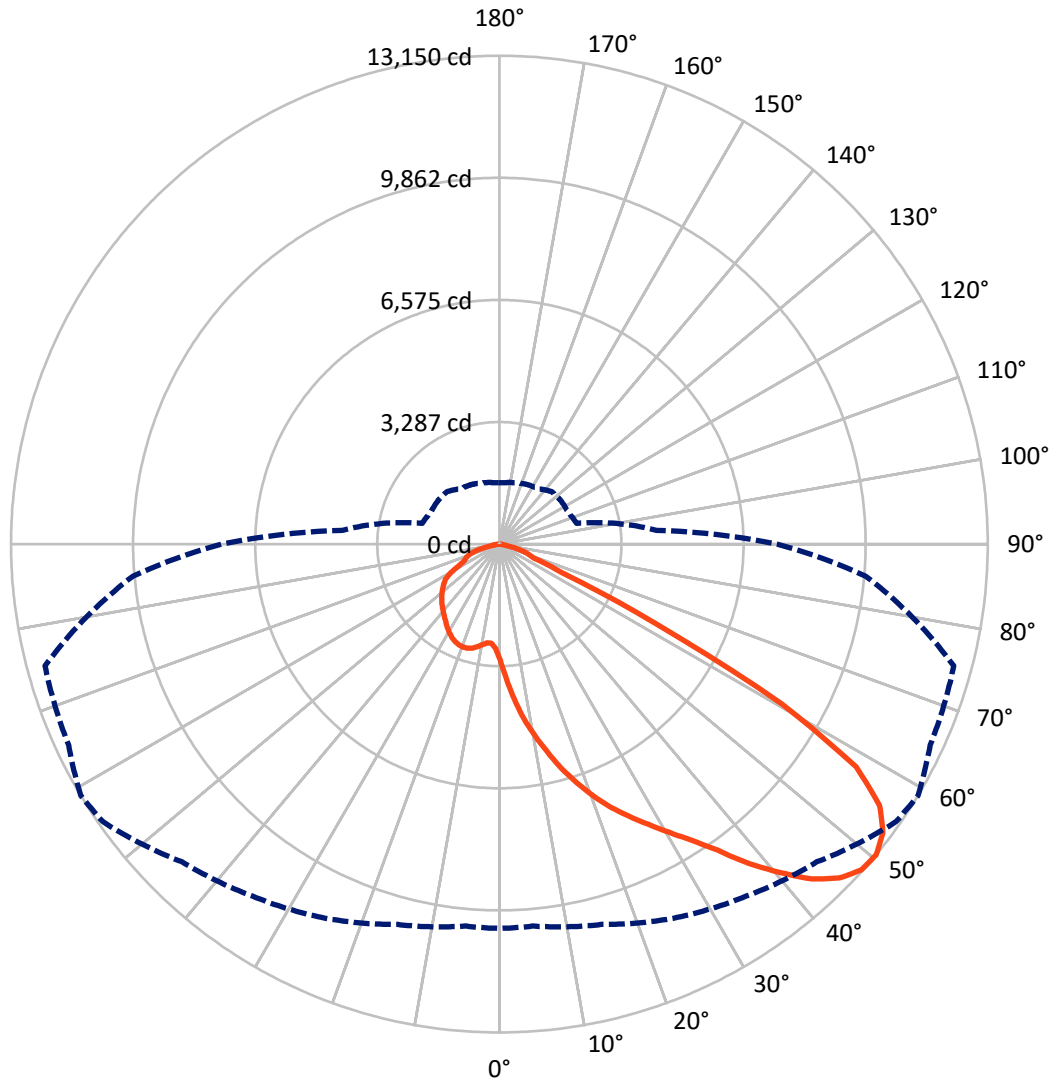
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4754.5	0.0	4754.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	15915.7	0.0	15915.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	20670.2	0.0	20670.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	1.7
10°-20°	1275.4	6.2
20°-30°	2415.0	11.7
30°-40°	4004.8	19.4
40°-50°	5470.8	26.5
50°-60°	4966.1	24.0
60°-70°	1653.8	8.0
70°-80°	482.3	2.3
80°-90°	50.7	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°	20670.2	100.0
0°-180°	20670.2	100.0

Coefficient of Utilization



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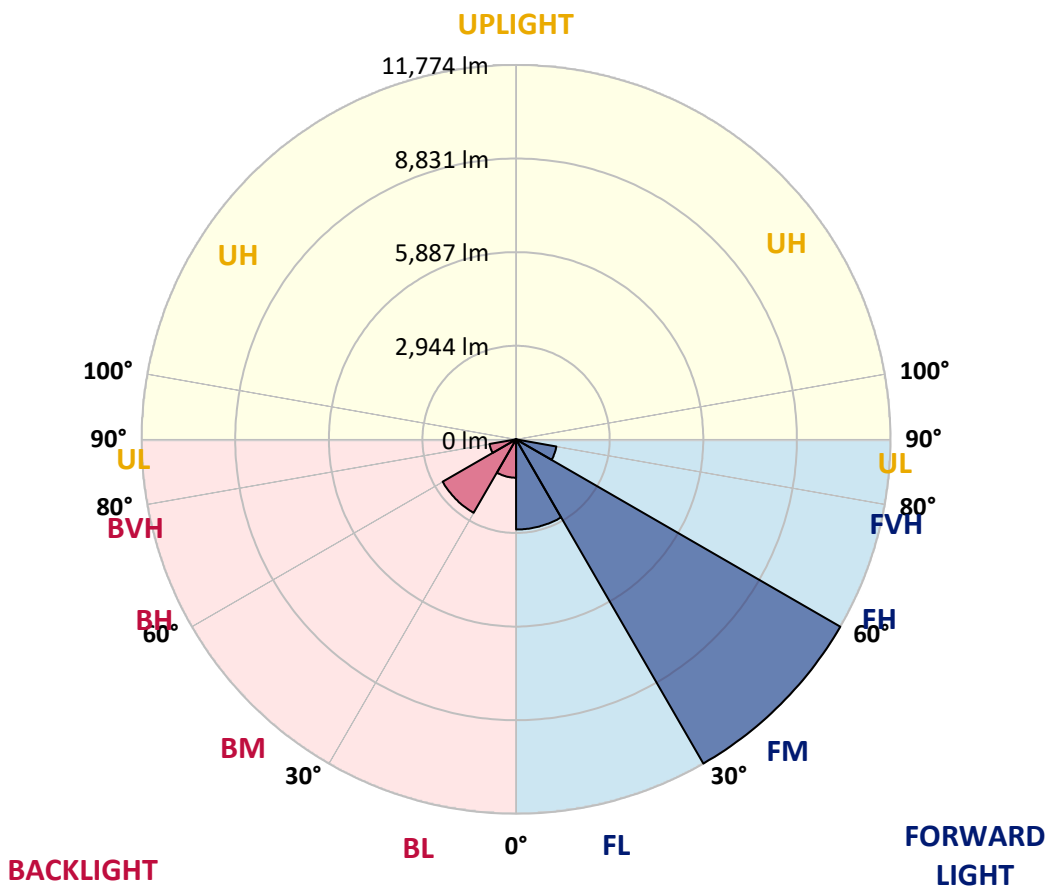
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2834.4	13.7			
FM (30°-60°)	11774.0	57.0			
FH (60°-80°)	1287.5	6.2			G1/1800
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1207.3	5.8	B3/2500		
BM (30°-60°)	2667.8	12.9	B3/5000		
BH (60°-80°)	848.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	30.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7
2.5°	4057.7	4088.0	4040.9	4044.2	3926.4	3872.5	3721.0	3631.7	3572.8	3407.8	3258.0
5°	4876.0	4840.6	4803.6	4781.7	4679.0	4534.2	4345.6	4195.8	4057.7	3734.4	3423.0
7.5°	5377.7	5359.2	5334.0	5320.5	5219.5	5067.9	4879.4	4751.4	4551.0	4113.3	3623.3
10°	5803.7	5781.8	5766.7	5776.8	5694.3	5596.6	5391.2	5244.7	5019.1	4514.0	3865.8
12.5°	6133.7	6145.5	6150.6	6204.4	6169.1	6110.1	5898.0	5743.1	5492.2	4936.6	4150.3
15°	6394.7	6391.3	6450.3	6553.0	6610.2	6573.2	6403.1	6273.5	5967.0	5352.5	4456.8
17.5°	6455.3	6458.7	6551.3	6731.4	6918.3	7009.2	6913.3	6758.4	6455.3	5763.3	4775.0
20°	6504.1	6510.9	6606.8	6812.2	7085.0	7339.2	7354.4	7243.3	6982.3	6207.8	5098.2
22.5°	6812.2	6827.4	6852.7	6982.3	7228.1	7549.7	7726.5	7702.9	7484.0	6674.2	5446.8
25°	7622.1	7576.6	7453.7	7416.7	7511.0	7772.0	8073.3	8118.8	8011.0	7187.7	5822.2
27.5°	8622.2	8573.4	8391.6	8199.6	7995.9	8086.8	8408.4	8544.8	8546.5	7753.4	6199.4
30°	9529.7	9491.0	9342.8	9068.4	8716.5	8585.2	8822.6	9006.1	9115.6	8406.7	6628.7
32.5°	10305.9	10270.6	10070.2	9846.3	9502.8	9238.5	9324.3	9501.1	9757.0	9251.9	7162.5
35°	10959.2	10923.8	10731.9	10506.3	10188.1	10029.8	9999.5	10120.7	10452.4	10134.2	7775.3
37.5°	11489.6	11454.2	11253.8	11041.7	10799.2	10809.4	10854.8	10913.7	11104.0	11078.7	8430.3
40°	11833.0	11796.0	11652.9	11501.4	11348.1	11469.4	11695.0	11624.3	11725.3	11841.5	9033.0
42.5°	11986.3	11939.1	11856.6	11822.9	11775.8	11964.4	12398.8	12328.0	12206.8	12349.9	9480.9
45°	11833.0	11792.6	11790.9	11893.7	12003.1	12245.5	12885.4	12828.1	12521.7	12595.8	9748.6
47.5°	11363.3	11327.9	11423.9	11693.3	11962.7	12316.3	13102.6	13112.7	12745.6	12698.5	9922.0
50°	10348.0	10324.4	10602.3	11112.4	11577.1	12095.7	13033.5	13149.7	12799.5	12666.5	9900.2
52.5°	8283.8	8393.2	8997.7	9849.6	10752.1	11708.4	12777.6	12929.1	12540.2	12456.0	9782.3
55°	5670.7	5721.2	6325.7	7569.9	9001.1	10870.0	12190.0	12424.0	12233.8	12420.7	9905.2
57.5°	2936.4	2976.8	3453.3	4557.8	6105.1	8590.2	10558.5	11326.2	11615.8	12599.1	10287.4
60°	1205.5	1239.2	1436.2	1969.9	3079.5	5002.3	7598.5	8736.7	9416.9	11506.4	9135.8
62.5°	875.5	892.4	986.6	1175.2	1613.0	2451.5	4300.2	4719.4	5197.6	7211.3	5800.3
65°	737.5	756.0	831.7	946.2	1176.9	1503.5	1836.9	1847.0	2035.6	2938.1	2150.1
67.5°	617.9	634.8	702.1	799.8	951.3	1067.5	986.6	988.3	985.0	1065.8	1030.4
70°	481.5	495.0	562.4	666.7	745.9	685.3	771.1	853.6	818.3	850.3	899.1
72.5°	351.9	367.0	426.0	505.1	484.9	488.3	624.7	708.8	688.6	724.0	769.5
75°	254.2	264.3	294.6	252.6	266.0	321.6	439.4	484.9	505.1	535.4	575.8
77.5°	82.5	82.5	92.6	116.2	144.8	178.5	223.9	242.5	272.8	306.4	335.1
80°	42.1	43.8	52.2	64.0	80.8	102.7	131.3	139.7	154.9	173.4	185.2
82.5°	20.2	21.9	25.3	32.0	42.1	53.9	72.4	80.8	90.9	102.7	111.1
85°	5.1	5.1	6.7	10.1	13.5	20.2	26.9	32.0	40.4	48.8	53.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.1	6.7	8.4	10.1	13.5
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°	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7
2.5°	3190.6	3096.3	2975.1	2872.4	2778.1	2705.7	2643.4	2613.1	2584.5	2564.3	2571.0
5°	3278.2	3116.5	2890.9	2734.3	2638.4	2589.5	2555.9	2539.0	2535.7	2522.2	2517.1
7.5°	3406.1	3175.5	2874.1	2715.8	2651.8	2626.6	2608.1	2597.9	2603.0	2589.5	2584.5
10°	3564.4	3273.1	2916.2	2776.4	2720.9	2702.3	2682.1	2668.7	2661.9	2641.7	2638.4
12.5°	3761.4	3394.3	2991.9	2853.9	2798.3	2766.3	2739.4	2715.8	2700.7	2675.4	2668.7
15°	3973.5	3529.0	3081.2	2929.6	2864.0	2816.8	2773.1	2737.7	2710.8	2677.1	2672.0
17.5°	4204.2	3670.5	3155.3	2981.8	2897.6	2835.4	2771.4	2719.2	2682.1	2638.4	2633.3
20°	4445.0	3813.6	3210.8	3007.1	2899.3	2815.1	2729.3	2660.2	2613.1	2569.3	2566.0
22.5°	4694.2	3944.9	3244.5	3000.4	2872.4	2768.0	2665.3	2587.8	2532.3	2480.1	2476.7
25°	4945.0	4071.2	3252.9	2973.4	2818.5	2697.3	2594.6	2503.7	2441.4	2382.4	2375.7
27.5°	5199.3	4177.3	3232.7	2919.5	2746.1	2614.8	2512.1	2422.8	2358.9	2299.9	2289.8
30°	5470.3	4268.2	3188.9	2848.8	2661.9	2527.2	2426.2	2358.9	2298.3	2239.3	2229.2
32.5°	5759.9	4347.3	3126.6	2763.0	2564.3	2439.7	2365.6	2305.0	2244.4	2192.2	2182.1
35°	6105.1	4399.5	3034.0	2651.8	2473.4	2375.7	2325.2	2254.5	2180.4	2123.1	2118.1
37.5°	6462.0	4439.9	2922.9	2545.8	2394.2	2338.7	2296.6	2200.6	2108.0	2039.0	2030.5
40°	6807.2	4473.6	2784.8	2446.4	2321.8	2311.7	2254.5	2134.9	1975.0	1897.5	1890.8
42.5°	7128.8	4483.7	2640.0	2340.3	2256.2	2251.1	2187.1	2001.9	1879.0	1830.2	1823.4
45°	7349.3	4475.3	2490.2	2241.0	2190.5	2163.6	2096.2	1905.9	1830.2	1786.4	1778.0
47.5°	7512.7	4431.5	2321.8	2136.6	2116.4	2079.4	1934.6	1845.3	1774.6	1730.8	1722.4
50°	7484.0	4249.7	2151.8	2035.6	2027.2	1995.2	1816.7	1769.6	1707.3	1660.1	1653.4
52.5°	7335.9	3904.5	1978.3	1924.5	1941.3	1879.0	1732.5	1678.6	1624.8	1570.9	1559.1
55°	7372.9	3655.3	1847.0	1816.7	1847.0	1705.6	1638.2	1581.0	1530.5	1478.3	1468.2
57.5°	7534.6	3409.5	1707.3	1700.5	1732.5	1572.6	1517.0	1444.6	1372.2	1330.1	1330.1
60°	6327.3	2485.1	1461.5	1478.3	1550.7	1464.8	1416.0	1341.9	1262.8	1225.7	1225.7
62.5°	3741.2	1559.1	1212.3	1193.7	1239.2	1293.1	1320.0	1259.4	1165.1	1116.3	1118.0
65°	1648.3	1134.8	1069.1	1054.0	1040.5	1077.6	1151.7	1156.7	1057.4	1000.1	1001.8
67.5°	1015.3	1027.1	1000.1	988.3	976.5	969.8	963.1	966.4	939.5	887.3	885.6
70°	915.9	947.9	929.4	919.3	904.1	892.4	852.0	786.3	740.8	727.4	742.5
72.5°	788.0	831.7	821.6	816.6	798.1	769.5	715.6	651.6	597.7	564.0	570.8
75°	594.3	629.7	634.8	636.4	616.2	589.3	533.7	479.9	432.7	397.4	405.8
77.5°	341.8	362.0	367.0	372.1	356.9	346.8	309.8	271.1	245.8	208.8	218.9
80°	190.3	198.7	198.7	200.4	191.9	180.2	154.9	133.0	121.2	104.4	106.1
82.5°	114.5	117.9	119.5	121.2	116.2	104.4	85.9	70.7	64.0	55.6	53.9
85°	55.6	58.9	58.9	60.6	52.2	45.5	35.4	26.9	23.6	16.8	18.5
87.5°	13.5	15.2	15.2	13.5	11.8	8.4	5.1	1.7	0.0	0.0	0.0
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)