

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: P639709

Luminaire Tested: GWS-SA5C-735-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-735-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

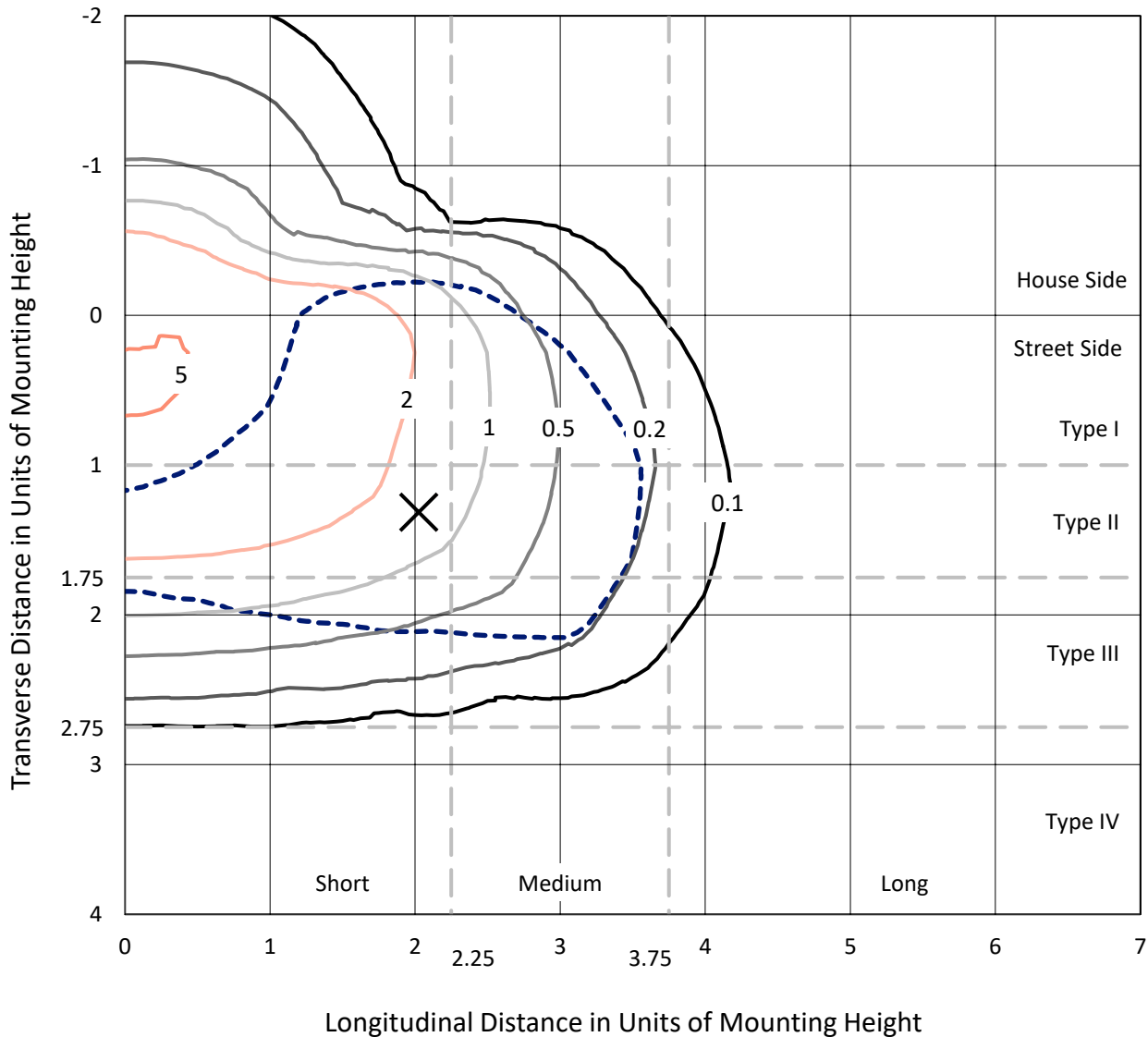
Lumens per Lamp: N/A  
Luminaire Lumens: 23502.1 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

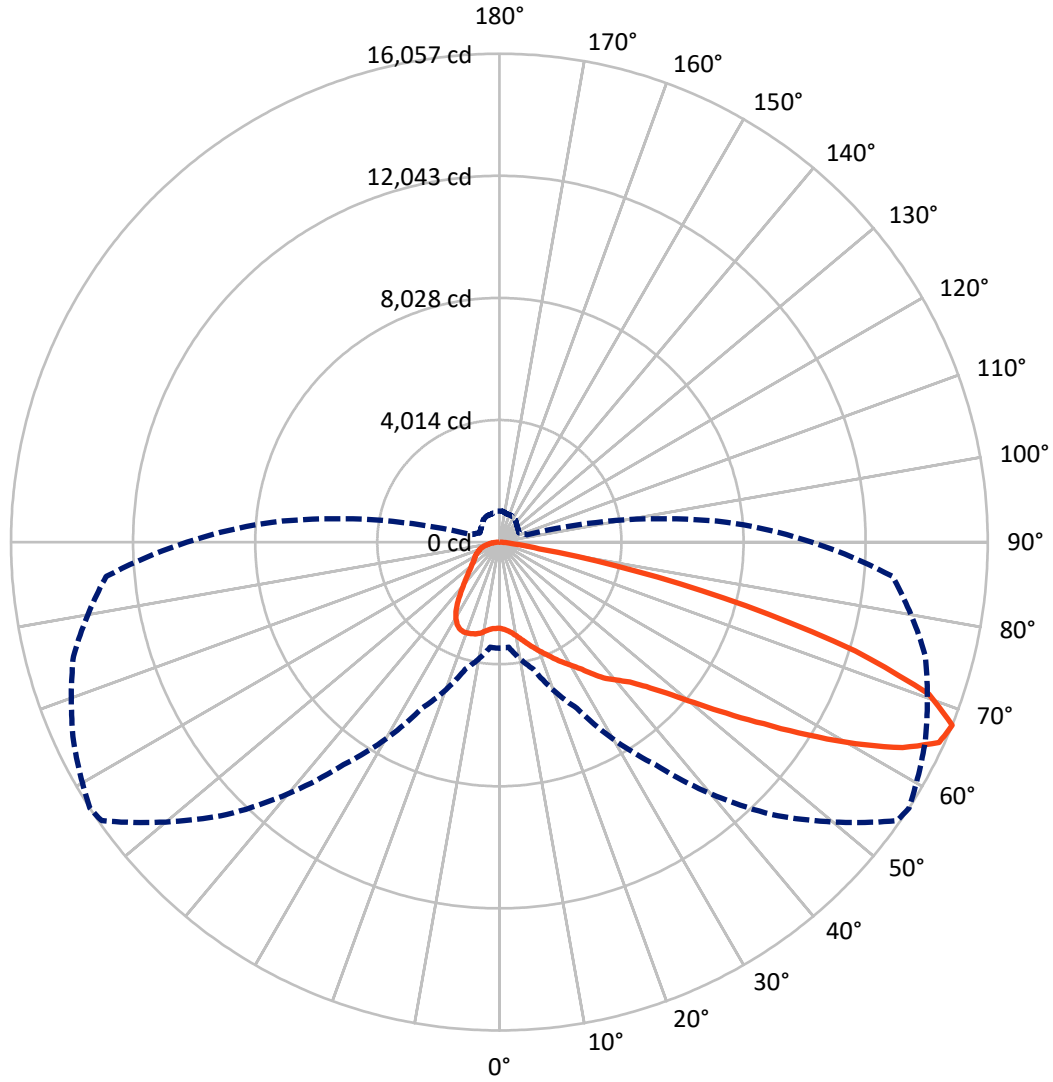
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5167.2	0.0	5167.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	18334.9	0.0	18334.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	23502.1	0.0	23502.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.9	1.2
10°-20°	929.8	4.0
20°-30°	1657.6	7.1
30°-40°	2410.0	10.3
40°-50°	3488.1	14.8
50°-60°	5458.7	23.2
60°-70°	6367.9	27.1
70°-80°	2658.2	11.3
80°-90°	250.9	1.1
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°	23502.1	100.0
0°-180°	23502.1	100.0

**Coefficient of Utilization**



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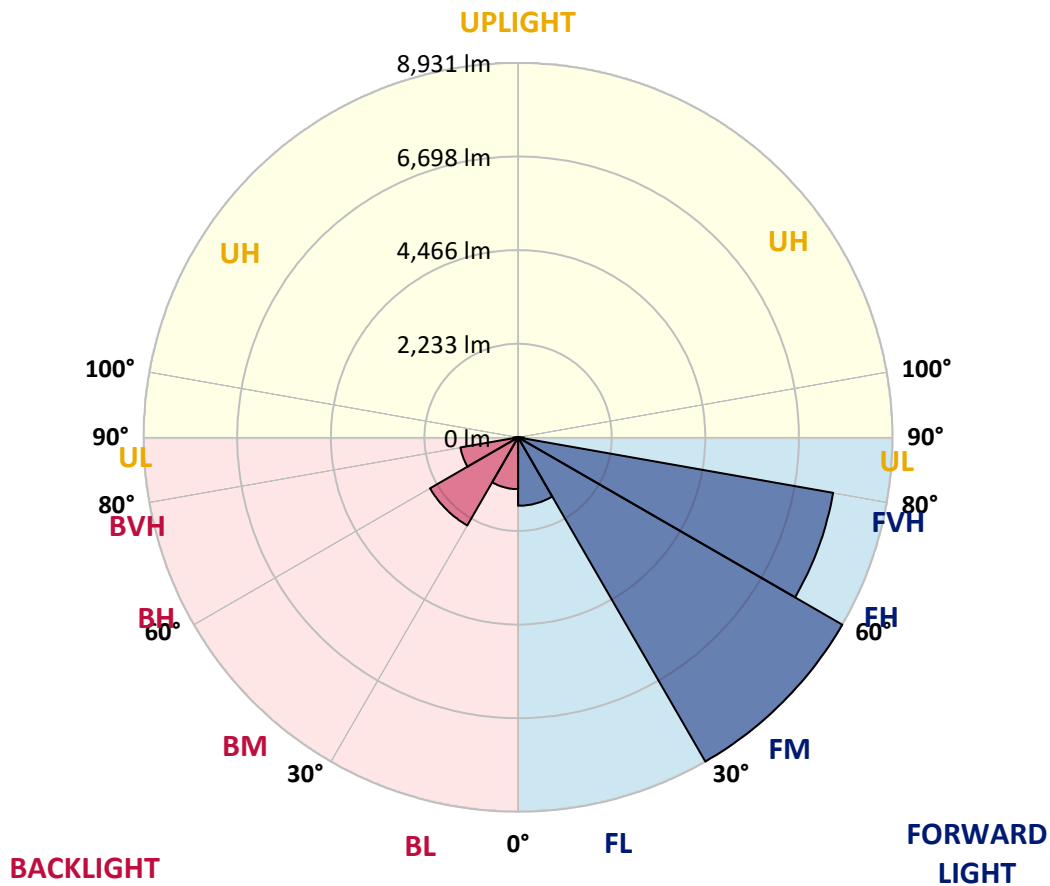
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.5	6.9			
FM (30°-60°)	8931.1	38.0			
FH (60°-80°)	7631.5	32.5			G4/12000
FVH (80°-90°)	139.8	0.6			G2/225
BL (0°-30°)	1235.8	5.3	B3/2500		
BM (30°-60°)	2425.6	10.3	B2/2500		
BH (60°-80°)	1394.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	111.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8
2.5°	2872.2	2868.9	2867.2	2877.3	2873.9	2872.2	2872.2	2870.6	2867.2	2853.7	2835.2
5°	2951.4	2944.6	2937.9	2946.3	2939.6	2932.9	2931.2	2927.8	2916.0	2895.8	2867.2
7.5°	3033.9	3027.1	3028.8	3033.9	3028.8	3025.5	3020.4	3017.0	2998.5	2966.5	2927.8
10°	3150.0	3150.0	3153.4	3158.5	3160.1	3155.1	3145.0	3139.9	3118.1	3077.7	3023.8
12.5°	3318.4	3315.0	3315.0	3311.7	3316.7	3311.7	3301.6	3293.2	3266.2	3214.0	3136.6
15°	3540.6	3527.2	3515.4	3493.5	3486.8	3468.3	3471.6	3466.6	3441.3	3370.6	3273.0
17.5°	3778.0	3776.4	3757.8	3714.1	3670.3	3640.0	3646.7	3645.0	3631.6	3535.6	3411.0
20°	3986.8	3995.2	3978.4	3944.7	3885.8	3828.5	3825.2	3833.6	3816.8	3720.8	3547.4
22.5°	4220.8	4214.1	4197.3	4153.5	4109.7	4049.1	4028.9	4022.2	4015.4	3906.0	3687.1
25°	4443.1	4463.3	4441.4	4401.0	4333.6	4268.0	4251.1	4257.9	4239.3	4094.6	3837.0
27.5°	4724.2	4732.6	4719.2	4663.6	4606.4	4513.8	4481.8	4481.8	4475.1	4271.3	3954.8
30°	5023.9	5047.5	5023.9	4978.5	4919.5	4786.5	4717.5	4710.8	4690.6	4453.2	4092.9
32.5°	5325.3	5342.1	5325.3	5281.5	5214.2	5098.0	4998.7	4983.5	4956.6	4651.8	4234.3
35°	5593.0	5608.1	5604.8	5614.9	5559.3	5412.8	5352.2	5345.5	5274.8	4911.1	4426.2
37.5°	5885.9	5904.4	5879.2	5899.4	5877.5	5739.4	5720.9	5687.3	5586.2	5155.2	4628.3
40°	6219.3	6236.1	6195.7	6204.1	6178.9	6101.4	6007.1	5961.7	5811.8	5419.6	4946.5
42.5°	6576.2	6614.9	6633.4	6618.3	6559.4	6515.6	6350.6	6293.4	6168.8	5896.0	5470.1
45°	7093.1	7150.3	7177.3	7138.5	7113.3	7051.0	6849.0	6779.9	6714.3	6567.8	6200.8
47.5°	7650.4	7702.5	7788.4	7805.2	7825.4	7778.3	7493.8	7426.4	7438.2	7421.4	7099.8
50°	8094.8	8138.6	8332.2	8539.3	8711.0	8724.5	8360.8	8288.4	8352.4	8406.3	8182.4
52.5°	8418.1	8456.8	8712.7	9140.4	9529.3	9817.2	9424.9	9342.4	9394.6	9515.8	9413.1
55°	8680.7	8734.6	9002.3	9658.9	10445.2	10899.7	10648.9	10544.5	10522.6	10672.4	10731.4
57.5°	8818.8	8835.6	9211.1	10064.7	11116.9	11962.1	12071.5	11953.7	11744.9	11827.4	12133.8
60°	8503.9	8532.6	9046.1	10169.0	11647.3	13016.0	13564.9	13467.2	13022.8	13068.2	13406.6
62.5°	7633.5	7673.9	8291.8	9672.4	11691.0	13719.8	14943.8	14881.5	14285.5	14039.7	14140.7
65°	6123.3	6136.8	6776.6	8443.3	10820.6	13807.3	15905.1	15890.0	15167.7	14591.9	14159.2
67.5°	3491.8	3468.3	4323.5	6022.3	8929.9	12669.2	15967.4	16056.7	15453.9	14501.0	12980.7
70°	1513.6	1516.9	1910.9	2971.6	5779.9	10239.8	14831.0	14984.2	14625.6	12987.4	10327.3
72.5°	700.4	710.5	880.5	1286.3	2468.2	6352.3	12093.4	12231.5	11923.4	10394.6	7514.0
75°	495.0	503.4	587.6	737.4	1134.8	2474.9	8089.8	8379.4	8529.2	7774.9	4951.5
77.5°	375.4	387.2	429.3	511.8	700.4	877.2	3870.6	4560.9	5433.0	4837.0	2550.7
80°	239.1	239.1	284.5	341.8	427.6	456.3	1117.9	1325.0	2658.4	1993.4	1001.8
82.5°	161.6	166.7	193.6	217.2	245.8	259.3	479.8	511.8	767.7	678.5	412.5
85°	85.9	89.2	101.0	99.3	117.9	102.7	202.0	200.4	281.2	308.1	156.6
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	21.9	23.6	58.9	94.3	52.2
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°	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8	2831.8
2.5°	2845.3	2825.1	2835.2	2831.8	2841.9	2841.9	2823.4	2818.4	2820.1	2799.9	2793.1
5°	2870.6	2847.0	2852.0	2845.3	2855.4	2863.8	2855.4	2855.4	2865.5	2850.4	2841.9
7.5°	2927.8	2900.9	2900.9	2892.5	2904.2	2911.0	2904.2	2914.3	2932.9	2917.7	2909.3
10°	3018.7	2986.7	2988.4	2978.3	2983.4	2980.0	2953.1	2944.6	2949.7	2936.2	2929.5
12.5°	3136.6	3092.8	3092.8	3072.6	3060.8	3025.5	2969.9	2949.7	2953.1	2941.3	2936.2
15°	3249.4	3209.0	3200.6	3160.1	3106.3	3040.6	2990.1	2976.6	2980.0	2968.2	2959.8
17.5°	3382.4	3330.2	3299.9	3225.8	3126.5	3059.1	3008.6	2976.6	2949.7	2922.8	2916.0
20°	3505.3	3439.6	3384.1	3269.6	3148.4	3055.8	2961.5	2882.4	2816.7	2781.3	2772.9
22.5°	3631.6	3547.4	3449.7	3299.9	3146.7	2995.2	2821.7	2702.2	2604.6	2552.4	2562.5
25°	3751.1	3645.0	3512.0	3328.5	3092.8	2860.5	2624.8	2446.3	2335.2	2294.8	2283.0
27.5°	3850.4	3719.1	3569.3	3315.0	2981.7	2666.8	2355.4	2156.7	2049.0	2003.5	1991.7
30°	3961.5	3813.4	3651.8	3252.7	2806.6	2395.8	2050.6	1889.0	1811.6	1767.8	1769.5
32.5°	4089.5	3934.6	3767.9	3133.2	2582.7	2102.8	1799.8	1688.7	1626.4	1582.6	1575.9
35°	4261.2	4108.0	3845.4	2953.1	2298.1	1833.5	1628.1	1537.1	1459.7	1402.5	1390.7
37.5°	4473.4	4369.0	3853.8	2712.3	1993.4	1648.3	1505.2	1407.5	1313.2	1237.5	1229.0
40°	4837.0	4717.5	3784.8	2410.9	1734.1	1528.7	1402.5	1289.7	1180.2	1096.0	1084.2
42.5°	5355.6	5109.8	3636.6	2070.8	1538.8	1434.4	1304.8	1161.7	1050.6	991.7	983.2
45°	6015.6	5547.5	3414.4	1751.0	1394.0	1341.8	1202.1	1052.3	993.3	951.2	942.8
47.5°	6823.7	6057.7	3158.5	1501.8	1281.2	1257.7	1097.7	1015.2	963.0	927.7	919.3
50°	7790.1	6707.5	2948.0	1306.5	1180.2	1160.0	1064.0	993.3	951.2	922.6	915.9
52.5°	8892.9	7429.8	2845.3	1166.7	1092.7	1072.5	1052.3	988.3	952.9	931.0	922.6
55°	10037.7	8190.8	2749.3	1059.0	1018.6	1030.4	1053.9	1005.1	978.2	949.6	941.1
57.5°	11143.9	8904.6	2513.6	974.8	964.7	1010.2	1062.4	1022.0	990.0	961.3	951.2
60°	11906.5	9295.2	2114.6	907.5	924.3	984.9	1040.5	996.7	956.3	944.5	939.5
62.5°	12111.9	9248.1	1641.5	838.4	875.5	929.4	983.2	954.6	912.5	931.0	932.7
65°	11632.1	8743.0	1232.4	771.1	811.5	857.0	924.3	912.5	897.4	947.9	949.6
67.5°	10273.4	7502.2	939.5	712.2	745.8	801.4	905.8	954.6	958.0	1022.0	1015.2
70°	7773.3	5604.8	735.7	656.6	695.3	801.4	964.7	986.6	946.2	1005.1	991.7
72.5°	5374.1	3698.9	626.3	607.8	633.0	764.4	963.0	963.0	919.3	919.3	894.0
75°	3338.6	2175.2	545.5	545.5	545.5	668.4	936.1	887.3	809.8	774.5	754.3
77.5°	1648.3	1057.3	457.9	474.8	456.3	559.0	764.4	725.6	678.5	641.5	628.0
80°	703.8	528.7	370.4	388.9	367.0	420.9	606.1	597.7	552.2	503.4	488.2
82.5°	323.3	272.7	296.3	304.7	267.7	316.5	442.8	442.8	417.5	350.2	324.9
85°	138.1	144.8	205.4	205.4	168.4	178.5	237.4	225.6	202.0	165.0	151.5
87.5°	47.1	70.7	104.4	90.9	35.4	15.2	8.4	3.4	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)