

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: P639542

Luminaire Tested: GWS-SA5C-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14970.7 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

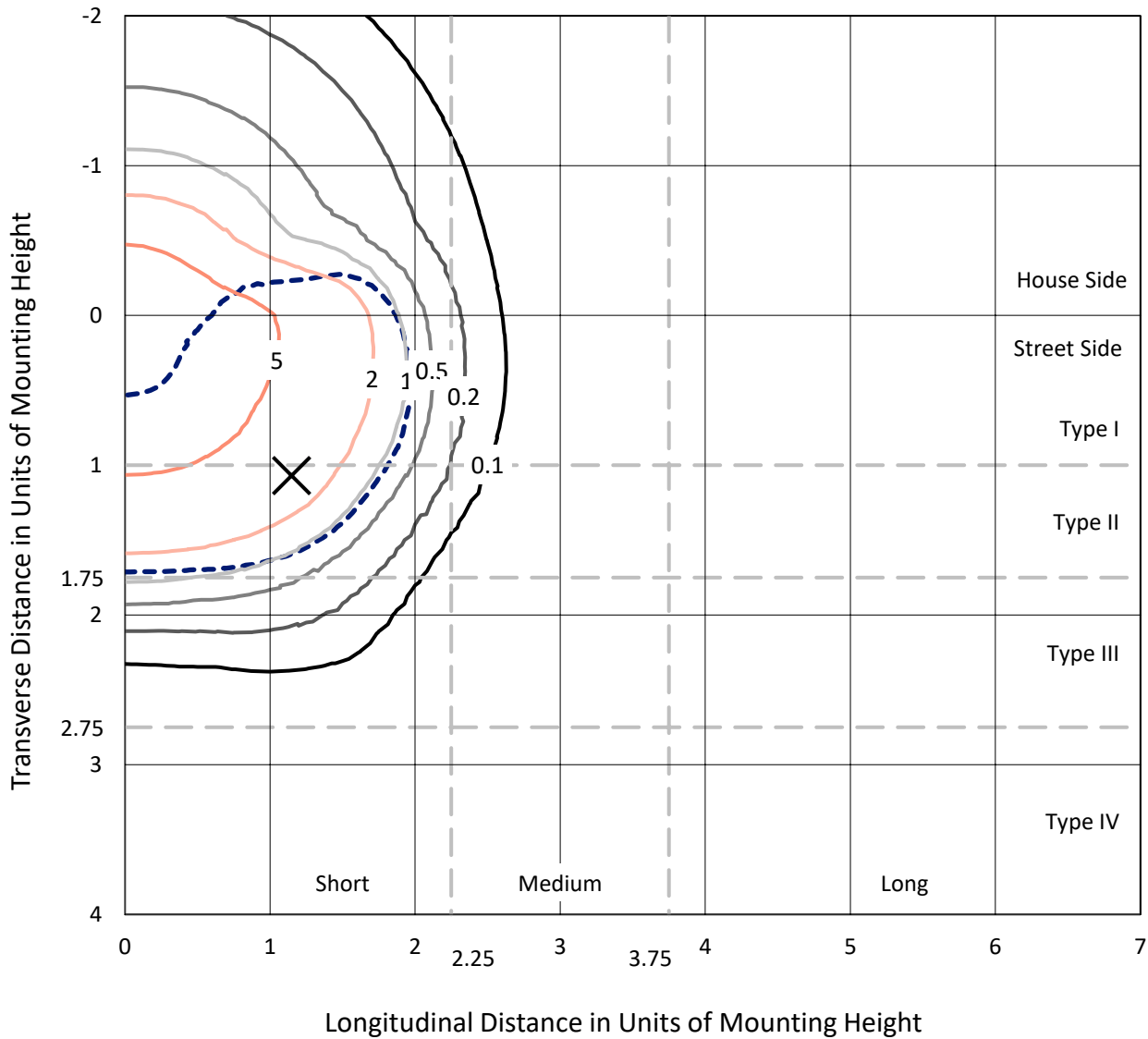
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

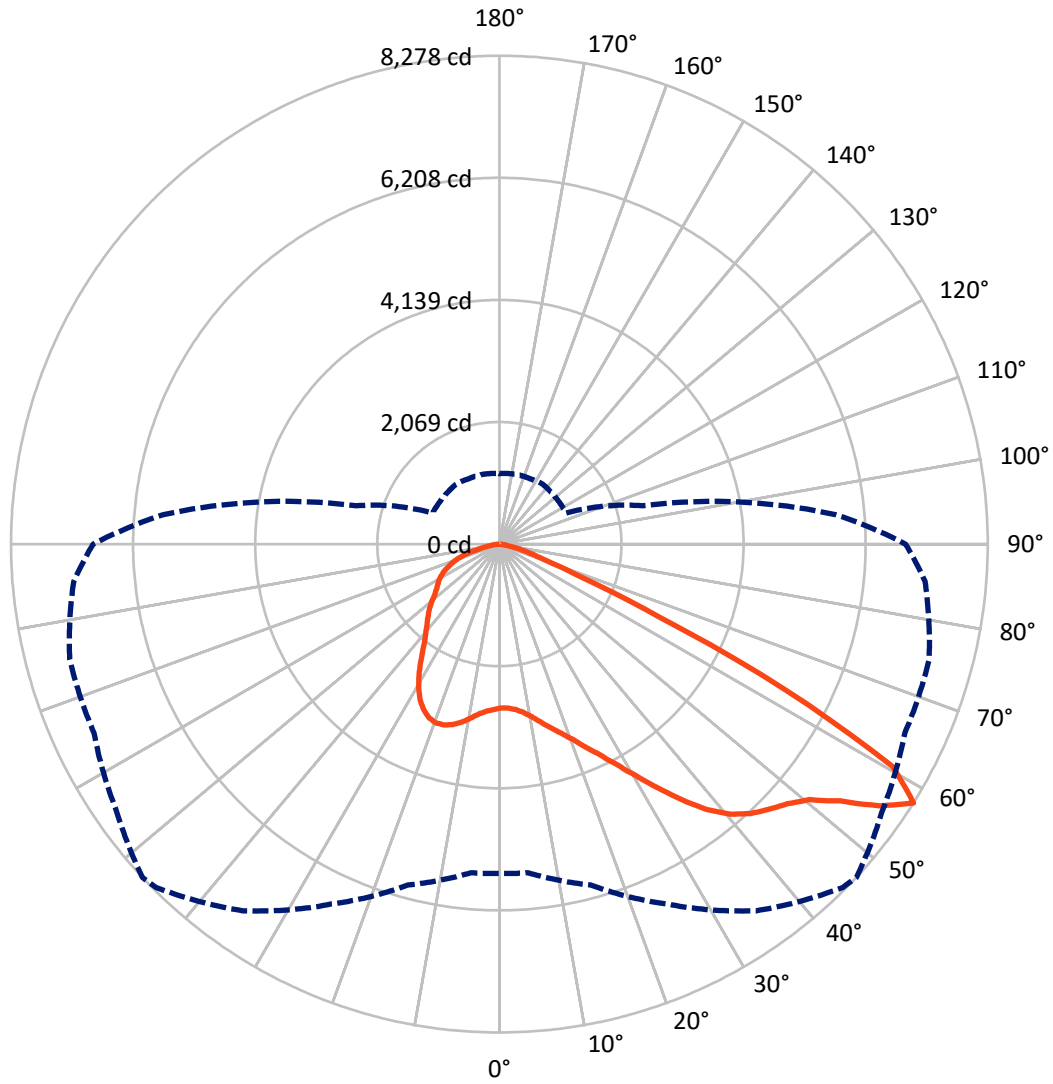
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4738.2	0.0	4738.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	10232.5	0.0	10232.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	14970.7	0.0	14970.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	1.8
10°-20°	900.7	6.0
20°-30°	1621.7	10.8
30°-40°	2449.4	16.4
40°-50°	3298.5	22.0
50°-60°	3963.5	26.5
60°-70°	1930.3	12.9
70°-80°	475.6	3.2
80°-90°	57.2	0.4
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°	14970.7	100.0
0°-180°	14970.7	100.0

**Coefficient of Utilization**



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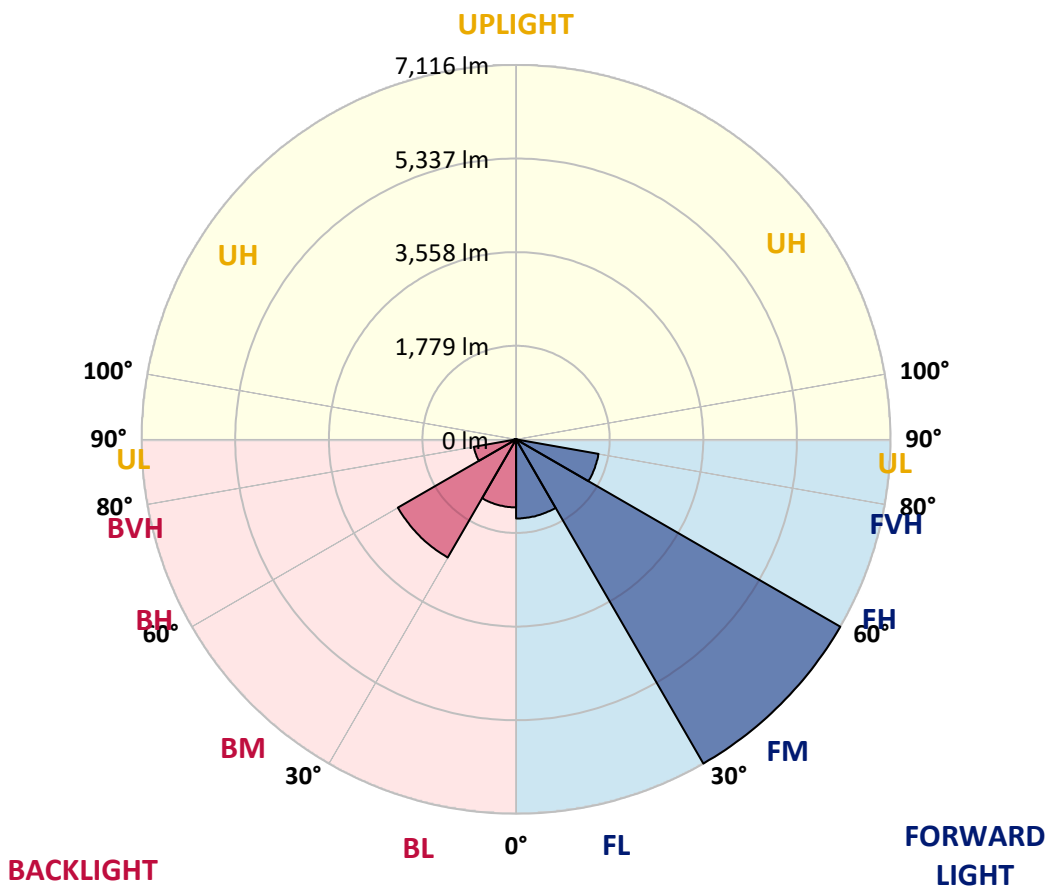
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.7	10.0			
FM (30°-60°)	7116.4	47.5			
FH (60°-80°)	1590.9	10.6			G1/1800
FVH (80°-90°)	21.5	0.1			G1/100
BL (0°-30°)	1292.5	8.6	B3/2500		
BM (30°-60°)	2595.1	17.3	B3/5000		
BH (60°-80°)	814.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.2			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°	47°	55°	65°	75°	85°
0°	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3
2.5°	2771.3	2770.1	2770.1	2777.6	2777.6	2780.1	2783.9	2787.7	2788.9	2782.6	2768.8
5°	2801.5	2801.5	2801.5	2807.8	2807.8	2810.3	2815.3	2816.6	2815.3	2805.3	2791.4
7.5°	2849.3	2849.3	2850.5	2858.1	2864.4	2868.1	2876.9	2875.7	2871.9	2855.6	2838.0
10°	2927.2	2931.0	2934.8	2943.6	2956.1	2964.9	2971.2	2971.2	2966.2	2941.1	2918.4
12.5°	3037.9	3042.9	3046.7	3054.2	3064.3	3079.4	3093.2	3093.2	3086.9	3055.5	3021.5
15°	3167.4	3172.4	3171.2	3173.7	3192.5	3213.9	3225.2	3232.8	3235.3	3191.3	3138.5
17.5°	3315.8	3320.8	3315.8	3308.2	3310.7	3344.7	3364.8	3392.5	3408.8	3349.7	3265.5
20°	3450.3	3445.3	3445.3	3450.3	3457.8	3499.3	3529.5	3574.8	3594.9	3523.2	3392.5
22.5°	3592.4	3603.7	3598.7	3598.7	3628.9	3698.0	3734.5	3793.6	3814.9	3721.9	3545.9
25°	3776.0	3786.0	3783.5	3786.0	3821.2	3919.3	3955.8	4065.2	4086.5	3953.3	3715.6
27.5°	3977.2	3993.5	4001.0	3998.5	4055.1	4183.4	4228.6	4380.8	4419.8	4212.3	3896.7
30°	4238.7	4256.3	4262.6	4260.1	4326.7	4501.5	4553.0	4726.6	4781.9	4519.1	4126.8
32.5°	4541.7	4559.3	4578.2	4585.7	4671.2	4849.8	4924.0	5103.8	5183.0	4873.7	4404.7
35°	4842.2	4857.3	4893.8	4952.9	5069.8	5252.2	5317.5	5494.8	5571.5	5242.1	4740.4
37.5°	5174.2	5184.3	5215.7	5297.4	5465.9	5639.4	5704.8	5874.6	5883.4	5597.9	5120.1
40°	5537.6	5537.6	5531.3	5611.8	5787.8	5962.6	6019.2	6117.2	6065.7	5872.1	5489.8
42.5°	5845.6	5840.6	5845.6	5921.1	6051.9	6193.9	6243.0	6224.1	6158.7	6082.0	5824.3
45°	6123.5	6127.3	6172.6	6230.4	6298.3	6382.6	6411.5	6304.6	6245.5	6250.5	6092.1
47.5°	6312.1	6315.9	6421.5	6518.4	6559.9	6586.3	6573.7	6425.3	6395.1	6451.7	6298.3
50°	6337.3	6357.4	6539.7	6738.4	6841.5	6845.3	6810.1	6629.0	6620.2	6684.3	6409.0
52.5°	6342.3	6362.4	6590.0	6948.4	7216.2	7272.8	7232.6	7044.0	6952.2	6888.0	6544.8
55°	6323.5	6346.1	6597.6	7089.2	7602.2	7828.6	7832.3	7565.8	7272.8	7230.0	6932.0
57.5°	5582.9	5591.7	5981.4	6730.9	7587.1	8228.4	8277.5	7915.3	7580.9	7540.6	7242.6
60°	3889.1	3924.3	4348.1	5337.7	6373.8	7504.2	7662.6	7557.0	7333.2	7040.2	6214.1
62.5°	1947.7	1977.9	2402.9	3338.4	4395.9	5288.6	5458.4	5570.3	5623.1	5308.7	4231.1
65°	838.7	861.3	1125.4	1744.0	2488.4	2919.7	2978.8	3113.3	3442.8	3071.8	2279.7
67.5°	560.8	575.9	710.4	1063.8	1466.1	1493.8	1485.0	1513.9	1585.6	1309.0	1029.8
70°	430.0	442.6	533.1	779.6	1053.7	901.6	853.8	774.6	841.2	857.5	834.9
72.5°	311.8	321.9	389.8	531.9	660.1	575.9	568.3	608.6	699.1	724.3	710.4
75°	201.2	206.2	247.7	291.7	340.8	369.7	384.8	457.7	549.5	568.3	552.0
77.5°	134.5	138.3	162.2	187.4	193.6	194.9	199.9	232.6	295.5	330.7	326.9
80°	70.4	70.4	79.2	79.2	90.5	108.1	113.2	134.5	163.5	181.1	182.3
82.5°	27.7	28.9	33.9	37.7	45.3	55.3	59.1	70.4	85.5	98.1	109.4
85°	11.3	12.6	13.8	16.3	20.1	25.1	26.4	30.2	40.2	50.3	56.6
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	3.8	5.0	6.3	11.3	15.1
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°	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3	2776.3
2.5°	2785.1	2768.8	2785.1	2790.2	2804.0	2809.0	2800.2	2799.0	2799.0	2786.4	2782.6
5°	2804.0	2788.9	2805.3	2812.8	2832.9	2845.5	2848.0	2858.1	2864.4	2859.3	2858.1
7.5°	2850.5	2831.7	2849.3	2860.6	2887.0	2907.1	2915.9	2938.5	2954.9	2952.4	2951.1
10°	2932.3	2907.1	2927.2	2946.1	2975.0	2998.9	3000.2	3012.7	3029.1	3024.0	3021.5
12.5°	3026.6	3002.7	3025.3	3044.2	3078.1	3088.2	3071.8	3066.8	3069.3	3063.0	3058.0
15°	3142.2	3108.3	3128.4	3149.8	3168.6	3157.3	3122.1	3108.3	3107.0	3098.2	3093.2
17.5°	3257.9	3215.2	3230.3	3241.6	3232.8	3197.6	3153.6	3129.7	3118.4	3100.7	3095.7
20°	3372.3	3318.3	3315.8	3307.0	3266.7	3202.6	3143.5	3095.7	3066.8	3042.9	3034.1
22.5°	3503.1	3427.7	3389.9	3349.7	3261.7	3157.3	3068.1	3000.2	2953.6	2923.5	2913.4
25°	3643.9	3537.1	3459.1	3378.6	3211.4	3060.5	2936.0	2843.0	2787.7	2755.0	2743.6
27.5°	3783.5	3636.4	3519.5	3382.4	3110.8	2920.9	2753.7	2628.0	2572.6	2546.2	2537.4
30°	3972.1	3768.4	3591.1	3333.4	2978.8	2727.3	2518.6	2391.6	2355.1	2336.2	2328.7
32.5°	4189.7	3935.7	3686.7	3230.3	2810.3	2501.0	2280.9	2192.9	2167.8	2131.3	2130.0
35°	4476.3	4174.6	3777.2	3078.1	2597.8	2258.3	2098.6	2035.7	1990.5	1932.6	1927.6
37.5°	4810.8	4472.6	3826.3	2884.5	2350.1	2058.4	1962.8	1892.4	1819.5	1742.8	1732.7
40°	5156.6	4820.9	3830.0	2655.6	2107.4	1926.3	1845.9	1754.1	1663.5	1578.0	1566.7
42.5°	5520.0	5145.3	3763.4	2391.6	1908.7	1811.9	1730.2	1614.5	1512.7	1454.8	1448.5
45°	5844.4	5406.8	3612.5	2113.7	1761.6	1716.4	1612.0	1487.5	1433.4	1391.9	1383.1
47.5°	6099.6	5580.3	3408.8	1864.7	1642.2	1618.3	1482.5	1418.3	1376.9	1339.1	1330.3
50°	6225.4	5619.3	3143.5	1662.3	1531.5	1502.6	1409.5	1360.5	1332.8	1302.7	1295.1
52.5°	6381.3	5663.3	2914.7	1492.5	1423.4	1384.4	1349.2	1310.2	1290.1	1271.2	1264.9
55°	6739.7	5829.3	2793.9	1356.7	1320.3	1302.7	1297.6	1264.9	1258.7	1246.1	1234.8
57.5°	6885.5	5722.4	2508.5	1246.1	1238.5	1241.1	1253.6	1223.4	1217.2	1202.1	1194.5
60°	5537.6	4325.5	1698.7	1150.5	1170.6	1187.0	1199.6	1169.4	1160.6	1158.1	1148.0
62.5°	3548.4	2660.7	1185.7	1061.2	1091.4	1111.5	1119.1	1090.2	1083.9	1104.0	1105.3
65°	1847.1	1449.8	961.9	965.7	990.8	1021.0	1036.1	1026.0	1023.5	1044.9	1046.2
67.5°	943.0	886.5	838.7	852.5	872.6	911.6	946.8	990.8	1005.9	1008.4	1009.7
70°	803.5	778.3	754.4	763.2	784.6	806.0	839.9	861.3	836.2	829.9	827.4
72.5°	684.0	665.2	653.8	663.9	675.2	671.5	661.4	671.5	675.2	676.5	677.7
75°	531.9	518.0	509.2	510.5	510.5	496.7	477.8	466.5	453.9	443.9	443.9
77.5°	325.7	328.2	337.0	335.7	334.5	329.4	310.6	300.5	270.3	261.5	261.5
80°	186.1	189.9	198.7	201.2	201.2	194.9	176.0	164.7	150.9	144.6	143.3
82.5°	113.2	118.2	123.2	125.7	127.0	119.5	103.1	94.3	86.8	80.5	80.5
85°	59.1	61.6	66.6	67.9	64.1	56.6	47.8	44.0	36.5	35.2	35.2
87.5°	16.3	17.6	20.1	16.3	15.1	11.3	6.3	5.0	2.5	1.3	1.3
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)