

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: P637203

Luminaire Tested: GWS-SA4C-735-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

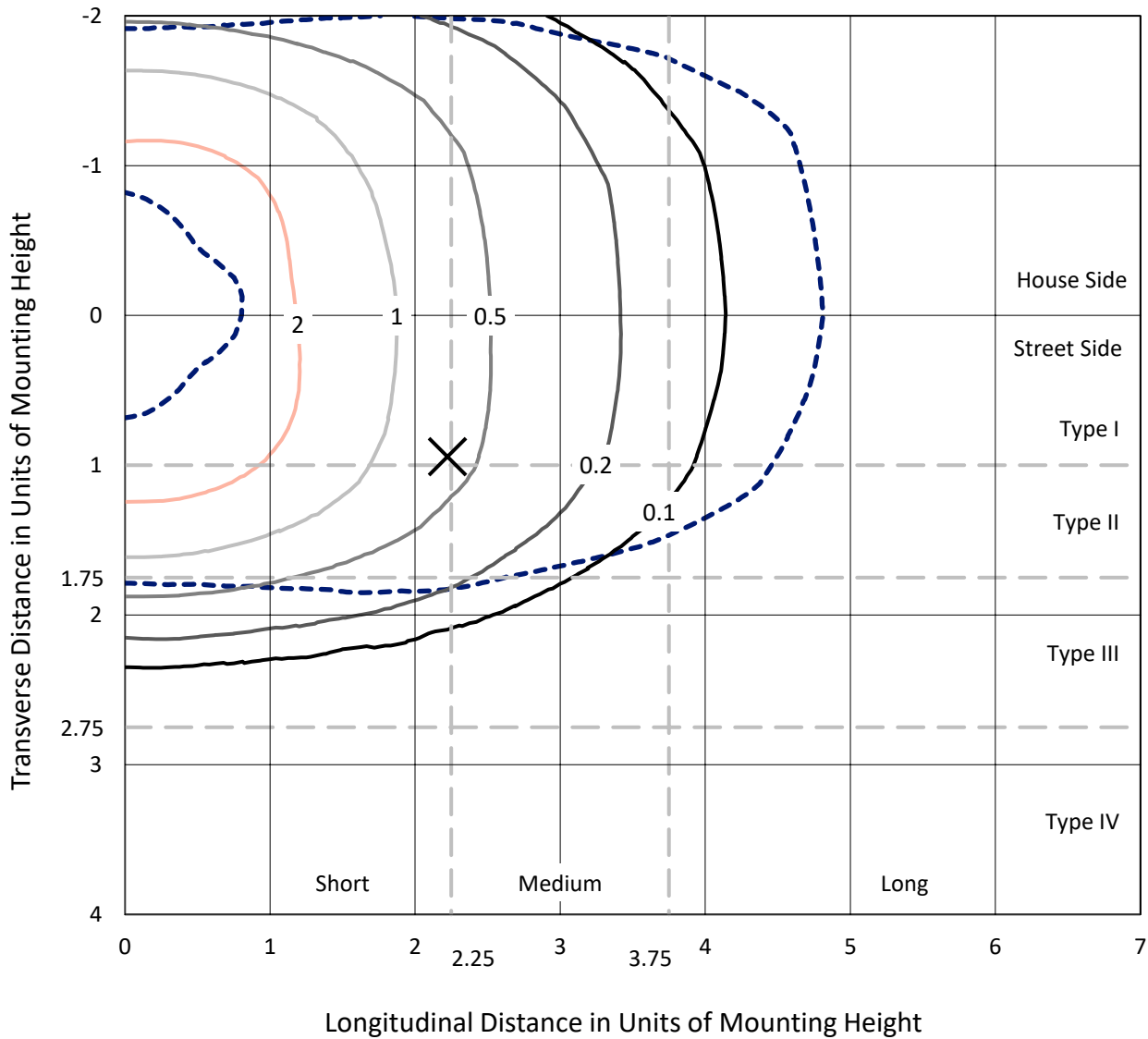
Lumens per Lamp: N/A  
Luminaire Lumens: 19709 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

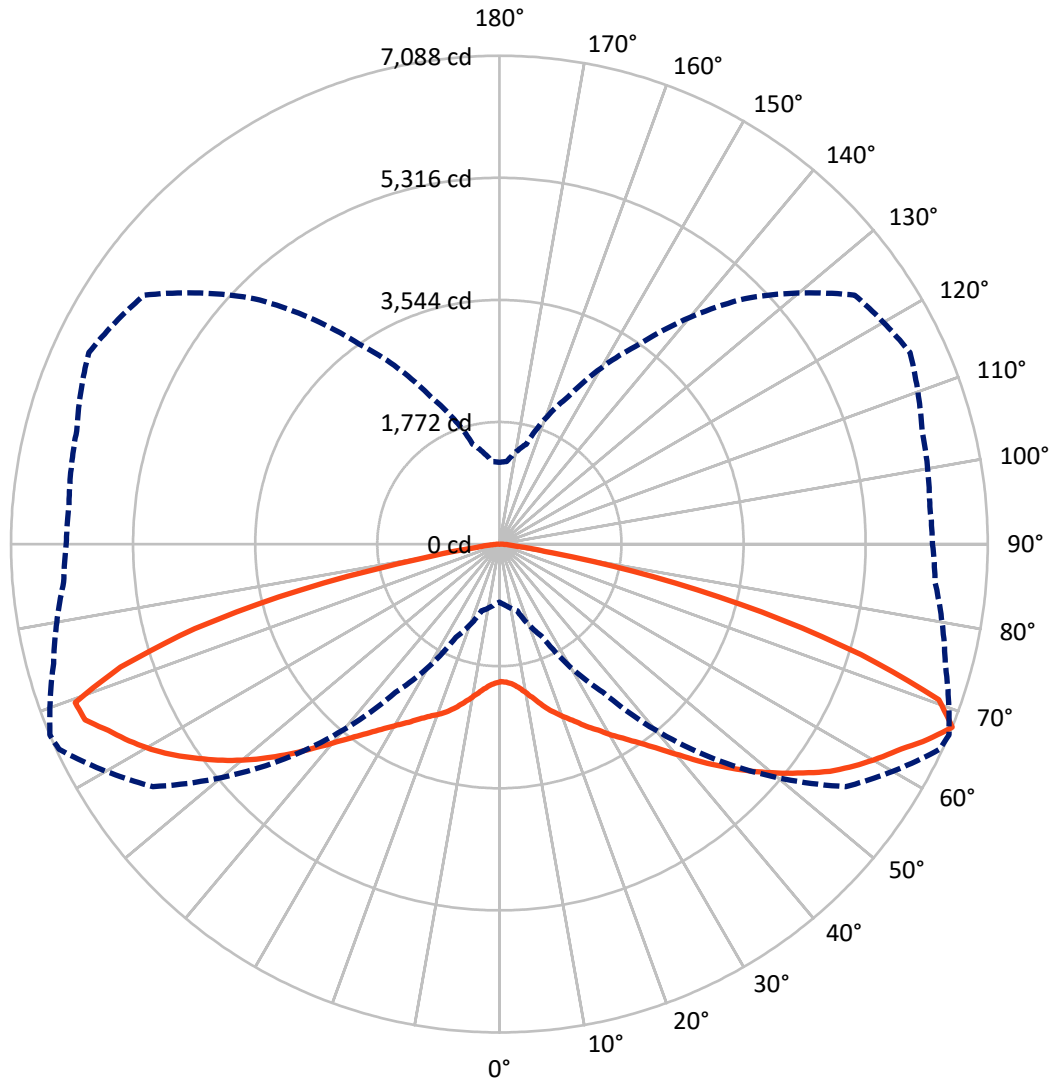
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9745.7	0.0	9745.7
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	9963.3	0.0	9963.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	19709.0	0.0	19709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	1.0
10°-20°	661.5	3.4
20°-30°	1297.8	6.6
30°-40°	2211.1	11.2
40°-50°	3550.5	18.0
50°-60°	4824.4	24.5
60°-70°	4614.9	23.4
70°-80°	2194.1	11.1
80°-90°	159.0	0.8
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°	19709.0	100.0
0°-180°	19709.0	100.0

**Coefficient of Utilization**



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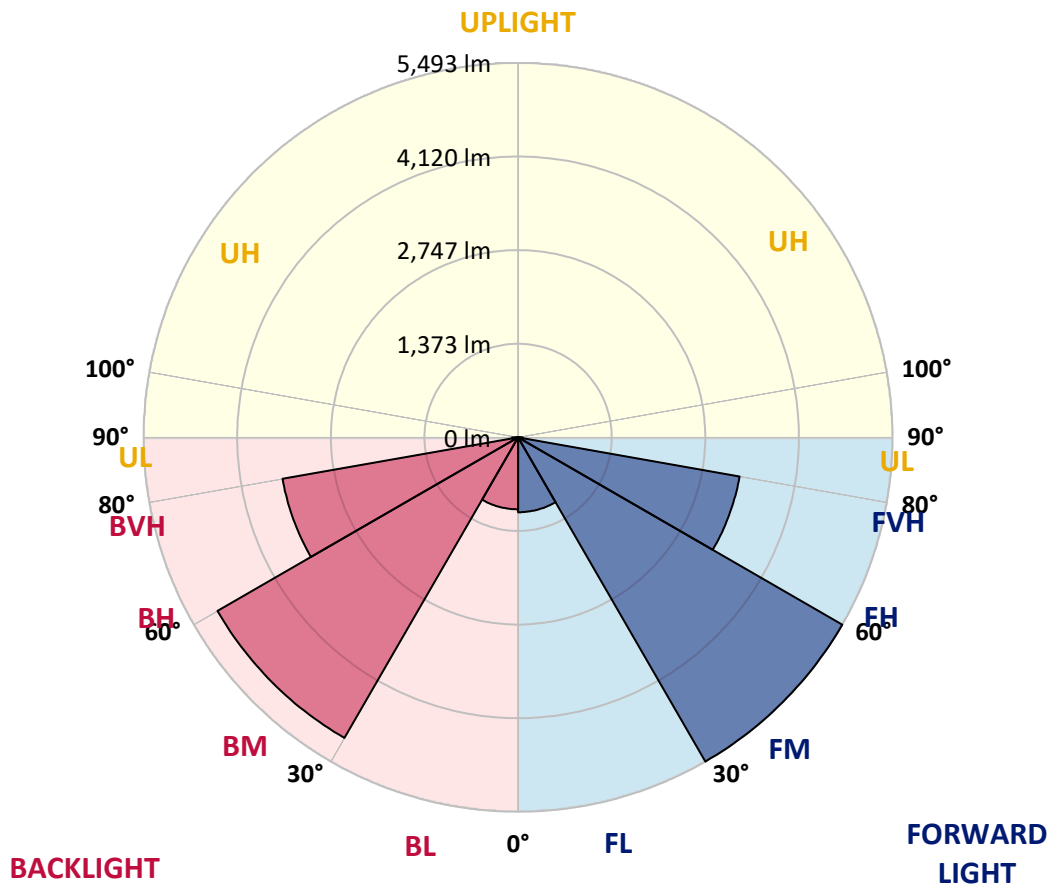
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.9	5.6			
FM (30°-60°)	5493.1	27.9			
FH (60°-80°)	3299.8	16.7			G2/5000
FVH (80°-90°)	71.5	0.4			G1/100
BL (0°-30°)	1056.2	5.4	B3/2500		
BM (30°-60°)	5092.9	25.8	B4/8500		
BH (60°-80°)	3509.1	17.8	B4/5000		G4/5000
BVH (80°-90°)	87.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	1954.5	1957.2	1961.3	1969.6	1977.8	1990.2	2002.5	2001.1	2006.6	2010.7	2014.9
5°	1943.5	1946.2	1953.1	1964.1	1976.4	1997.0	2023.1	2034.1	2042.3	2057.4	2071.1
7.5°	1966.8	1972.3	1981.9	1997.0	2016.2	2042.3	2078.0	2097.2	2109.6	2137.0	2160.3
10°	1998.4	2005.3	2024.5	2053.3	2082.1	2121.9	2167.2	2196.0	2204.3	2240.0	2283.9
12.5°	2028.6	2036.8	2068.4	2120.5	2172.7	2226.2	2279.8	2315.4	2318.2	2366.2	2415.6
15°	2076.6	2083.5	2126.0	2193.3	2272.9	2347.0	2412.9	2437.6	2448.6	2482.9	2544.7
17.5°	2182.3	2190.5	2245.4	2318.2	2401.9	2480.1	2546.0	2566.6	2566.6	2595.4	2646.2
20°	2296.2	2304.5	2377.2	2470.5	2572.1	2651.7	2702.5	2683.3	2676.4	2684.7	2720.3
22.5°	2423.9	2439.0	2509.0	2617.4	2742.3	2839.7	2865.8	2808.2	2789.0	2769.7	2778.0
25°	2587.2	2605.0	2673.7	2789.0	2911.1	3014.1	3029.2	2939.9	2929.0	2861.7	2837.0
27.5°	2775.2	2789.0	2874.1	2988.0	3101.9	3188.4	3204.8	3095.0	3058.0	2964.6	2907.0
30°	3018.2	3030.5	3104.6	3217.2	3316.0	3376.4	3397.0	3246.0	3217.2	3074.4	2985.2
32.5°	3283.1	3288.6	3364.0	3472.5	3560.3	3618.0	3589.1	3413.5	3370.9	3210.3	3088.2
35°	3586.4	3586.4	3683.8	3771.7	3841.7	3858.2	3803.3	3602.9	3553.5	3379.1	3226.8
37.5°	3884.2	3892.5	3983.1	4087.4	4149.1	4146.4	4046.2	3826.6	3770.3	3580.9	3412.1
40°	4206.8	4224.6	4315.2	4431.9	4490.9	4482.7	4328.9	4084.6	4027.0	3803.3	3638.6
42.5°	4503.2	4532.1	4637.7	4757.2	4821.7	4816.2	4655.6	4381.1	4324.8	4072.3	3907.6
45°	4739.3	4769.5	4901.3	5067.3	5170.3	5160.7	4998.7	4688.5	4619.9	4355.0	4173.8
47.5°	4946.6	4978.1	5125.0	5300.7	5464.0	5480.5	5332.2	4998.7	4926.0	4658.3	4453.8
50°	5105.8	5120.9	5285.6	5477.7	5667.1	5759.1	5630.1	5310.3	5222.4	4957.5	4727.0
52.5°	5093.4	5114.0	5317.1	5577.9	5831.8	5982.8	5893.6	5604.0	5518.9	5230.7	5005.6
55°	4842.3	4862.8	5104.4	5484.6	5923.8	6146.2	6136.5	5884.0	5822.2	5509.3	5295.2
57.5°	4475.8	4521.1	4761.3	5171.7	5803.0	6276.5	6315.0	6139.3	6074.8	5782.4	5582.0
60°	3819.7	3880.1	4157.4	4689.9	5416.0	6232.6	6505.8	6354.8	6315.0	6036.3	5841.5
62.5°	2775.2	2819.2	3188.4	3887.0	4842.3	5919.7	6666.3	6577.1	6546.9	6264.2	6076.2
65°	1662.1	1762.3	2058.8	2749.2	3906.2	5329.5	6578.5	6868.1	6836.5	6498.9	6276.5
67.5°	841.4	886.6	1003.3	1490.6	2627.0	4409.9	6137.9	7049.3	7087.7	6699.3	6347.9
70°	521.6	533.9	566.9	735.7	1312.1	2897.4	5019.3	6577.1	6765.2	6667.7	6162.6
72.5°	418.6	421.4	426.9	458.4	630.0	1354.7	3173.3	5151.1	5490.1	6227.1	5897.7
75°	347.2	348.6	350.0	359.6	392.5	553.1	1544.1	3539.7	3936.4	5292.4	5468.1
77.5°	278.6	271.8	277.2	281.4	289.6	308.8	532.5	1888.6	2290.7	3473.9	4228.7
80°	181.2	178.4	189.4	193.5	201.8	214.1	284.1	641.0	778.2	1264.1	1345.1
82.5°	97.4	92.0	115.3	111.2	115.3	124.9	167.4	234.7	263.5	381.6	322.5
85°	30.2	30.2	31.6	37.1	45.3	43.9	72.7	115.3	127.6	163.3	120.8
87.5°	5.5	5.5	5.5	5.5	5.5	6.9	15.1	23.3	31.6	56.3	42.5
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°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	2023.1	2010.7	2017.6	2021.7	2020.4	2017.6	2003.9	2001.1	1994.3	1983.3	1980.5
5°	2083.5	2069.8	2071.1	2067.0	2053.3	2035.4	2005.3	1990.2	1977.8	1964.1	1962.7
7.5°	2178.2	2163.1	2159.0	2139.8	2101.3	2060.2	2012.1	1984.7	1964.1	1946.2	1943.5
10°	2299.0	2283.9	2270.2	2224.9	2161.7	2106.8	2043.7	2003.9	1973.7	1951.7	1947.6
12.5°	2433.5	2421.1	2386.8	2320.9	2245.4	2180.9	2116.4	2067.0	2023.1	1990.2	1986.0
15°	2583.1	2555.6	2503.5	2418.4	2347.0	2294.9	2216.6	2149.4	2079.4	2035.4	2025.8
17.5°	2687.4	2664.1	2602.3	2519.9	2463.7	2418.4	2326.4	2230.3	2135.6	2071.1	2057.4
20°	2761.5	2736.8	2666.8	2606.4	2588.6	2550.1	2443.1	2331.9	2222.1	2142.5	2124.7
22.5°	2815.0	2789.0	2717.6	2687.4	2712.1	2705.2	2600.9	2474.7	2344.3	2249.6	2227.6
25°	2865.8	2841.1	2778.0	2789.0	2854.8	2875.4	2762.9	2616.0	2467.8	2356.6	2330.5
27.5°	2913.9	2882.3	2853.5	2913.9	3007.2	3045.6	2926.2	2760.1	2599.6	2485.6	2465.0
30°	2988.0	2950.9	2946.8	3034.6	3182.9	3215.8	3084.1	2918.0	2758.8	2643.5	2617.4
32.5°	3081.3	3047.0	3049.7	3181.5	3353.1	3380.5	3268.0	3112.9	2953.7	2838.4	2802.7
35°	3207.6	3165.0	3188.4	3350.3	3523.3	3574.0	3483.5	3354.4	3199.3	3081.3	3041.5
37.5°	3381.9	3320.1	3368.2	3538.4	3712.7	3788.2	3718.2	3622.1	3468.4	3349.0	3311.9
40°	3604.2	3553.5	3572.7	3760.7	3940.5	4031.1	3987.2	3892.5	3740.1	3615.2	3572.7
42.5°	3867.8	3817.0	3810.1	4010.5	4190.3	4327.6	4285.0	4198.5	4040.7	3898.0	3856.8
45°	4125.8	4079.1	4088.7	4293.2	4495.0	4644.6	4602.1	4500.5	4328.9	4164.2	4131.3
47.5°	4394.8	4356.4	4364.6	4581.5	4803.8	4953.4	4899.9	4776.4	4576.0	4400.3	4360.5
50°	4670.7	4626.8	4639.1	4867.0	5107.2	5248.5	5166.2	4983.6	4762.6	4591.1	4556.8
52.5°	4945.2	4893.0	4924.6	5140.1	5388.5	5501.1	5348.7	5127.7	4913.6	4743.4	4705.0
55°	5260.9	5206.0	5171.7	5402.2	5647.9	5694.6	5486.0	5227.9	4974.0	4780.5	4757.2
57.5°	5549.1	5502.4	5437.9	5668.5	5849.7	5815.4	5591.7	5200.5	4827.2	4578.7	4545.8
60°	5807.1	5767.3	5711.1	5907.3	5989.7	5912.8	5506.6	4875.2	4464.8	4205.4	4190.3
62.5°	6044.6	6002.0	5949.9	6117.3	6106.3	5927.9	5119.5	4375.6	3826.6	3548.0	3523.3
65°	6232.6	6194.2	6179.1	6310.9	6293.0	5632.8	4517.0	3557.6	2795.8	2481.5	2471.9
67.5°	6286.1	6271.1	6352.0	6575.8	6297.1	5039.9	3542.5	2359.4	1501.5	1203.7	1185.9
70°	6085.8	6084.4	6316.3	6636.1	5726.2	3849.9	2090.4	1063.7	754.9	669.8	658.8
72.5°	5825.0	5820.9	6004.8	5724.8	4246.6	2106.8	879.8	569.6	472.1	448.8	448.8
75°	5396.8	5385.8	5524.4	4355.0	2388.2	793.3	466.7	391.2	370.6	366.5	366.5
77.5°	4398.9	4307.0	4088.7	2691.5	833.1	389.8	308.8	307.4	295.1	293.7	293.7
80°	1446.6	1446.6	1681.3	1026.6	367.8	240.2	218.2	229.2	216.9	208.6	207.3
82.5°	236.1	325.3	462.5	293.7	199.0	149.6	134.5	142.7	149.6	119.4	119.4
85°	93.3	122.2	178.4	137.3	92.0	60.4	64.5	71.4	63.1	54.9	53.5
87.5°	35.7	43.9	63.1	32.9	19.2	11.0	6.9	6.9	5.5	5.5	5.5
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)