

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: P641933

Luminaire Tested: GWS-SA6B-830-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641933  
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-SA6B-830-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

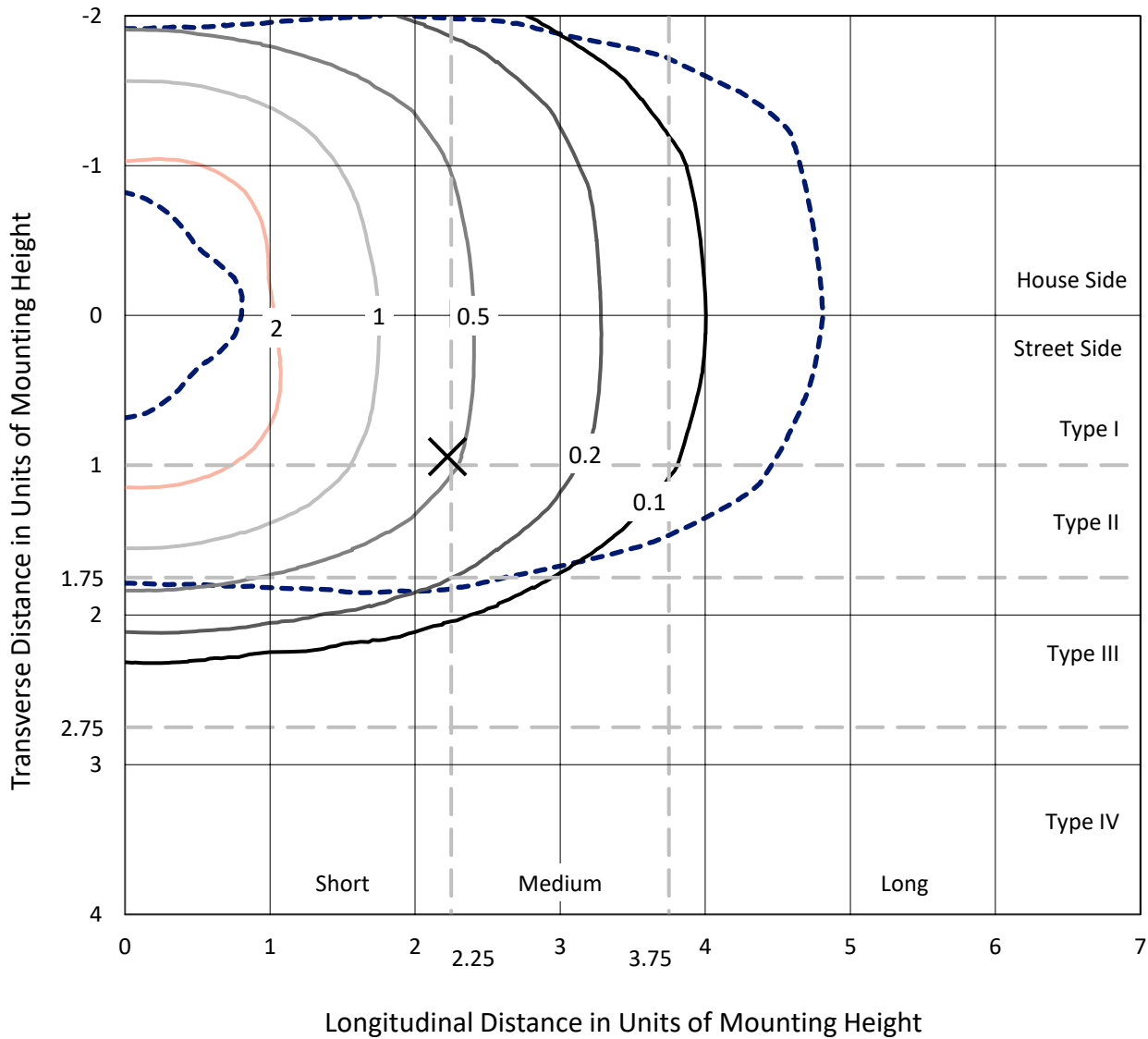
Lumens per Lamp: N/A  
Luminaire Lumens: 17314.2 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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

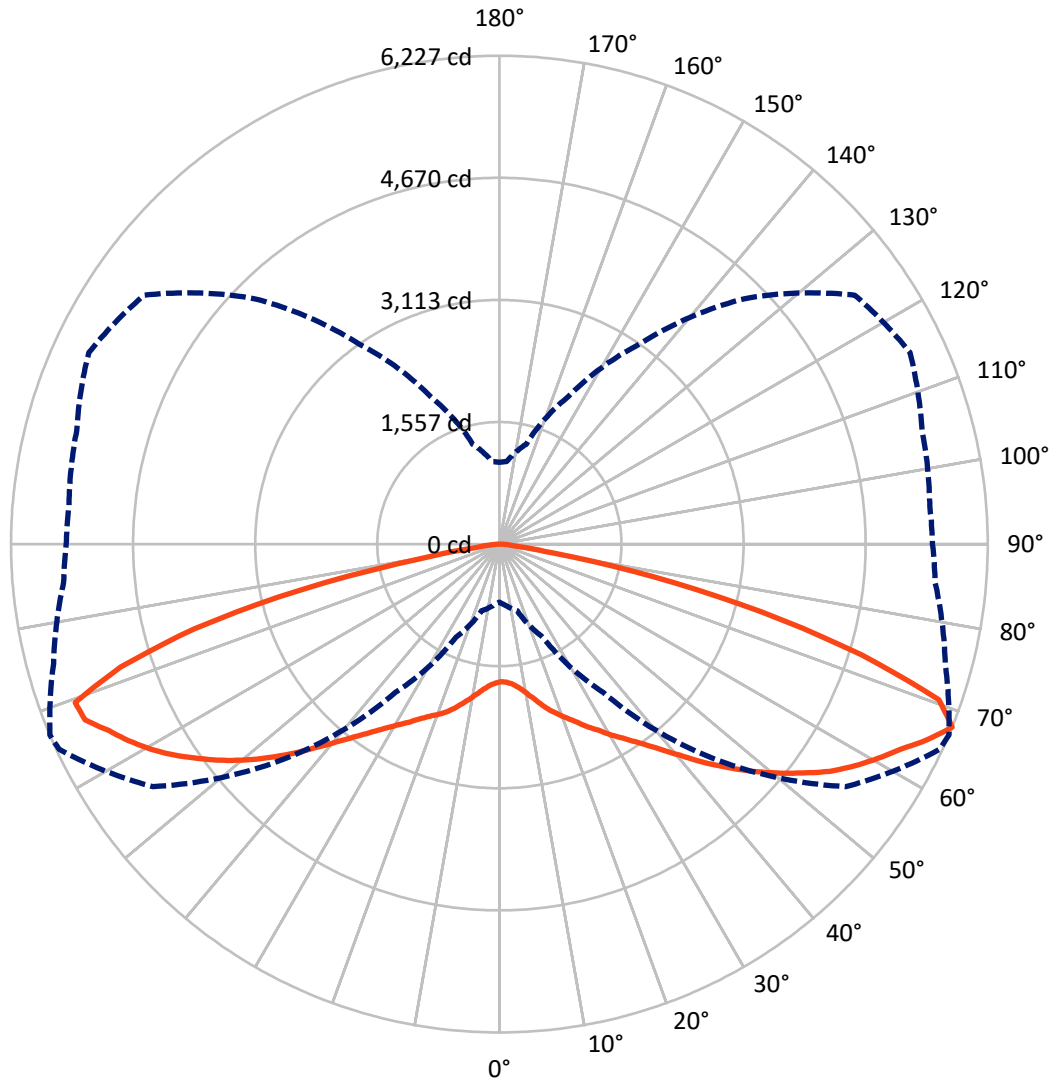
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8561.6	0.0	8561.6
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	8752.6	0.0	8752.6
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	17314.2	0.0	17314.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	1.0
10°-20°	581.1	3.4
20°-30°	1140.1	6.6
30°-40°	1942.4	11.2
40°-50°	3119.1	18.0
50°-60°	4238.2	24.5
60°-70°	4054.1	23.4
70°-80°	1927.5	11.1
80°-90°	139.7	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°	17314.2	100.0
0°-180°	17314.2	100.0

**Coefficient of Utilization**



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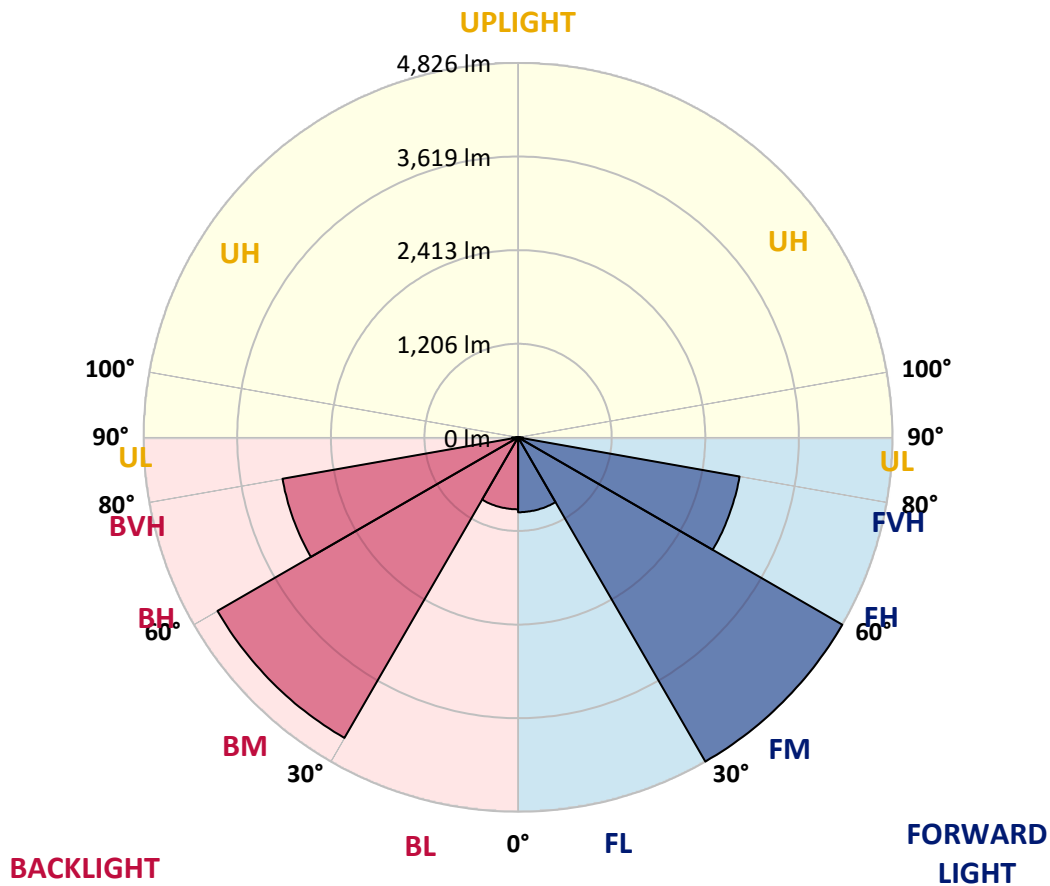
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.4	5.6			
FM (30°-60°)	4825.6	27.9			
FH (60°-80°)	2898.8	16.7			G2/5000
FVH (80°-90°)	62.8	0.4			G1/100
BL (0°-30°)	927.8	5.4	B2/1000		
BM (30°-60°)	4474.1	25.8	B3/5000		
BH (60°-80°)	3082.8	17.8	B4/5000		G4/5000
BVH (80°-90°)	76.9	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°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
2.5°	1717.0	1719.4	1723.0	1730.3	1737.5	1748.3	1759.2	1758.0	1762.8	1766.4	1770.0
5°	1707.3	1709.8	1715.8	1725.4	1736.3	1754.4	1777.3	1786.9	1794.2	1807.4	1819.5
7.5°	1727.8	1732.7	1741.1	1754.4	1771.2	1794.2	1825.5	1842.4	1853.2	1877.4	1897.8
10°	1755.6	1761.6	1778.5	1803.8	1829.1	1864.1	1903.9	1929.2	1936.4	1967.8	2006.4
12.5°	1782.1	1789.3	1817.1	1862.9	1908.7	1955.7	2002.7	2034.1	2036.5	2078.7	2122.1
15°	1824.3	1830.3	1867.7	1926.8	1996.7	2061.8	2119.7	2141.4	2151.1	2181.2	2235.5
17.5°	1917.1	1924.4	1972.6	2036.5	2110.1	2178.8	2236.7	2254.8	2254.8	2280.1	2324.7
20°	2017.2	2024.5	2088.4	2170.3	2259.6	2329.5	2374.1	2357.2	2351.2	2358.4	2389.8
22.5°	2129.4	2142.6	2204.1	2299.4	2409.1	2494.7	2517.6	2467.0	2450.1	2433.2	2440.4
25°	2272.8	2288.5	2348.8	2450.1	2557.4	2647.8	2661.1	2582.7	2573.1	2514.0	2492.3
27.5°	2438.0	2450.1	2524.8	2624.9	2725.0	2801.0	2815.4	2719.0	2686.4	2604.4	2553.8
30°	2651.4	2662.3	2727.4	2826.3	2913.1	2966.1	2984.2	2851.6	2826.3	2700.9	2622.5
32.5°	2884.2	2889.0	2955.3	3050.5	3127.7	3178.4	3153.0	2998.7	2961.3	2820.2	2712.9
35°	3150.6	3150.6	3236.2	3313.4	3374.9	3389.4	3341.1	3165.1	3121.7	2968.6	2834.7
37.5°	3412.3	3419.5	3499.1	3590.7	3645.0	3642.6	3554.5	3361.6	3312.2	3145.8	2997.5
40°	3695.6	3711.3	3790.9	3893.4	3945.2	3938.0	3802.9	3588.3	3537.7	3341.1	3196.4
42.5°	3956.1	3981.4	4074.2	4179.1	4235.8	4231.0	4089.9	3848.8	3799.3	3577.5	3432.8
45°	4163.5	4190.0	4305.7	4451.6	4542.1	4533.6	4391.3	4118.8	4058.6	3825.8	3666.7
47.5°	4345.5	4373.3	4502.3	4656.6	4800.1	4814.6	4684.3	4391.3	4327.4	4092.3	3912.7
50°	4485.4	4498.7	4643.3	4812.1	4978.5	5059.3	4946.0	4665.0	4587.9	4355.2	4152.6
52.5°	4474.5	4492.6	4671.1	4900.2	5123.2	5255.9	5177.5	4923.1	4848.3	4595.1	4397.4
55°	4253.9	4272.0	4484.2	4818.2	5204.0	5399.3	5390.9	5169.0	5114.8	4839.9	4651.8
57.5°	3931.9	3971.7	4182.7	4543.3	5097.9	5513.9	5547.7	5393.3	5336.6	5079.8	4903.8
60°	3355.6	3408.7	3652.2	4120.0	4757.9	5475.3	5715.3	5582.6	5547.7	5302.9	5131.7
62.5°	2438.0	2476.6	2801.0	3414.7	4253.9	5200.4	5856.3	5777.9	5751.4	5503.0	5337.9
65°	1460.2	1548.2	1808.6	2415.1	3431.6	4681.9	5779.2	6033.6	6005.8	5709.2	5513.9
67.5°	739.1	778.9	881.4	1309.4	2307.8	3874.1	5392.1	6192.7	6226.5	5885.3	5576.6
70°	458.2	469.0	498.0	646.3	1152.7	2545.3	4409.4	5777.9	5943.1	5857.5	5413.8
72.5°	367.8	370.2	375.0	402.7	553.4	1190.1	2787.7	4525.2	4823.0	5470.5	5181.1
75°	305.1	306.3	307.5	315.9	344.8	485.9	1356.5	3109.6	3458.1	4649.4	4803.7
77.5°	244.8	238.7	243.6	247.2	254.4	271.3	467.8	1659.1	2012.4	3051.8	3714.9
80°	159.2	156.7	166.4	170.0	177.2	188.1	249.6	563.1	683.7	1110.5	1181.6
82.5°	85.6	80.8	101.3	97.7	101.3	109.7	147.1	206.2	231.5	335.2	283.4
85°	26.5	26.5	27.7	32.6	39.8	38.6	63.9	101.3	112.1	143.5	106.1
87.5°	4.8	4.8	4.8	4.8	4.8	6.0	13.3	20.5	27.7	49.4	37.4
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°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
2.5°	1777.3	1766.4	1772.5	1776.1	1774.9	1772.5	1760.4	1758.0	1752.0	1742.3	1739.9
5°	1830.3	1818.3	1819.5	1815.9	1803.8	1788.1	1761.6	1748.3	1737.5	1725.4	1724.2
7.5°	1913.5	1900.3	1896.6	1879.8	1846.0	1809.8	1767.6	1743.5	1725.4	1709.8	1707.3
10°	2019.6	2006.4	1994.3	1954.5	1899.1	1850.8	1795.4	1760.4	1733.9	1714.6	1711.0
12.5°	2137.8	2126.9	2096.8	2038.9	1972.6	1915.9	1859.3	1815.9	1777.3	1748.3	1744.7
15°	2269.2	2245.1	2199.3	2124.5	2061.8	2016.0	1947.3	1888.2	1826.7	1788.1	1779.7
17.5°	2360.9	2340.4	2286.1	2213.8	2164.3	2124.5	2043.7	1959.3	1876.1	1819.5	1807.4
20°	2426.0	2404.3	2342.8	2289.7	2274.0	2240.3	2146.2	2048.6	1952.1	1882.2	1866.5
22.5°	2473.0	2450.1	2387.4	2360.9	2382.6	2376.5	2284.9	2174.0	2059.4	1976.2	1956.9
25°	2517.6	2495.9	2440.4	2450.1	2508.0	2526.0	2427.2	2298.2	2167.9	2070.3	2047.4
27.5°	2559.8	2532.1	2506.8	2559.8	2641.8	2675.6	2570.7	2424.8	2283.7	2183.6	2165.5
30°	2624.9	2592.4	2588.7	2665.9	2796.1	2825.1	2709.3	2563.4	2423.6	2322.3	2299.4
32.5°	2706.9	2676.8	2679.2	2794.9	2945.6	2969.8	2870.9	2734.6	2594.8	2493.5	2462.1
35°	2817.8	2780.5	2801.0	2943.2	3095.2	3139.8	3060.2	2946.9	2810.6	2706.9	2671.9
37.5°	2971.0	2916.7	2958.9	3108.4	3261.6	3327.9	3266.4	3182.0	3046.9	2942.0	2909.5
40°	3166.3	3121.7	3138.6	3303.8	3461.7	3541.3	3502.7	3419.5	3285.7	3175.9	3138.6
42.5°	3397.8	3353.2	3347.2	3523.2	3681.2	3801.7	3764.3	3688.4	3549.7	3424.3	3388.2
45°	3624.5	3583.5	3591.9	3771.6	3948.8	4080.3	4042.9	3953.7	3802.9	3658.2	3629.3
47.5°	3860.8	3827.0	3834.3	4024.8	4220.1	4351.5	4304.5	4196.0	4020.0	3865.6	3830.7
50°	4103.2	4064.6	4075.4	4275.6	4486.6	4610.8	4538.4	4378.1	4183.9	4033.2	4003.1
52.5°	4344.3	4298.5	4326.2	4515.5	4733.8	4832.6	4698.8	4504.7	4316.6	4167.1	4133.3
55°	4621.6	4573.4	4543.3	4745.8	4961.7	5002.7	4819.4	4592.7	4369.6	4199.6	4179.1
57.5°	4874.8	4833.8	4777.2	4979.7	5138.9	5108.8	4912.2	4568.6	4240.6	4022.4	3993.4
60°	5101.5	5066.6	5017.1	5189.5	5261.9	5194.4	4837.5	4282.8	3922.3	3694.4	3681.2
62.5°	5310.1	5272.7	5226.9	5374.0	5364.4	5207.6	4497.4	3843.9	3361.6	3116.9	3095.2
65°	5475.3	5441.5	5428.3	5544.0	5528.4	4948.4	3968.1	3125.3	2456.1	2180.0	2171.6
67.5°	5522.3	5509.1	5580.2	5776.7	5532.0	4427.5	3112.0	2072.7	1319.1	1057.4	1041.8
70°	5346.3	5345.1	5548.9	5829.8	5030.4	3382.1	1836.4	934.5	663.2	588.4	578.8
72.5°	5117.2	5113.6	5275.2	5029.2	3730.6	1850.8	772.9	500.4	414.8	394.3	394.3
75°	4741.0	4731.4	4853.1	3825.8	2098.0	696.9	410.0	343.6	325.6	321.9	321.9
77.5°	3864.4	3783.6	3591.9	2364.5	731.9	342.4	271.3	270.1	259.2	258.0	258.0
80°	1270.9	1270.9	1477.0	901.9	323.1	211.0	191.7	201.4	190.5	183.3	182.1
82.5°	207.4	285.8	406.3	258.0	174.8	131.4	118.2	125.4	131.4	104.9	104.9
85°	82.0	107.3	156.7	120.6	80.8	53.1	56.7	62.7	55.5	48.2	47.0
87.5°	31.3	38.6	55.5	28.9	16.9	9.6	6.0	6.0	4.8	4.8	4.8
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)