

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: P642677

Luminaire Tested: GWS-SA6D-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642677  
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-SA6D-735-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

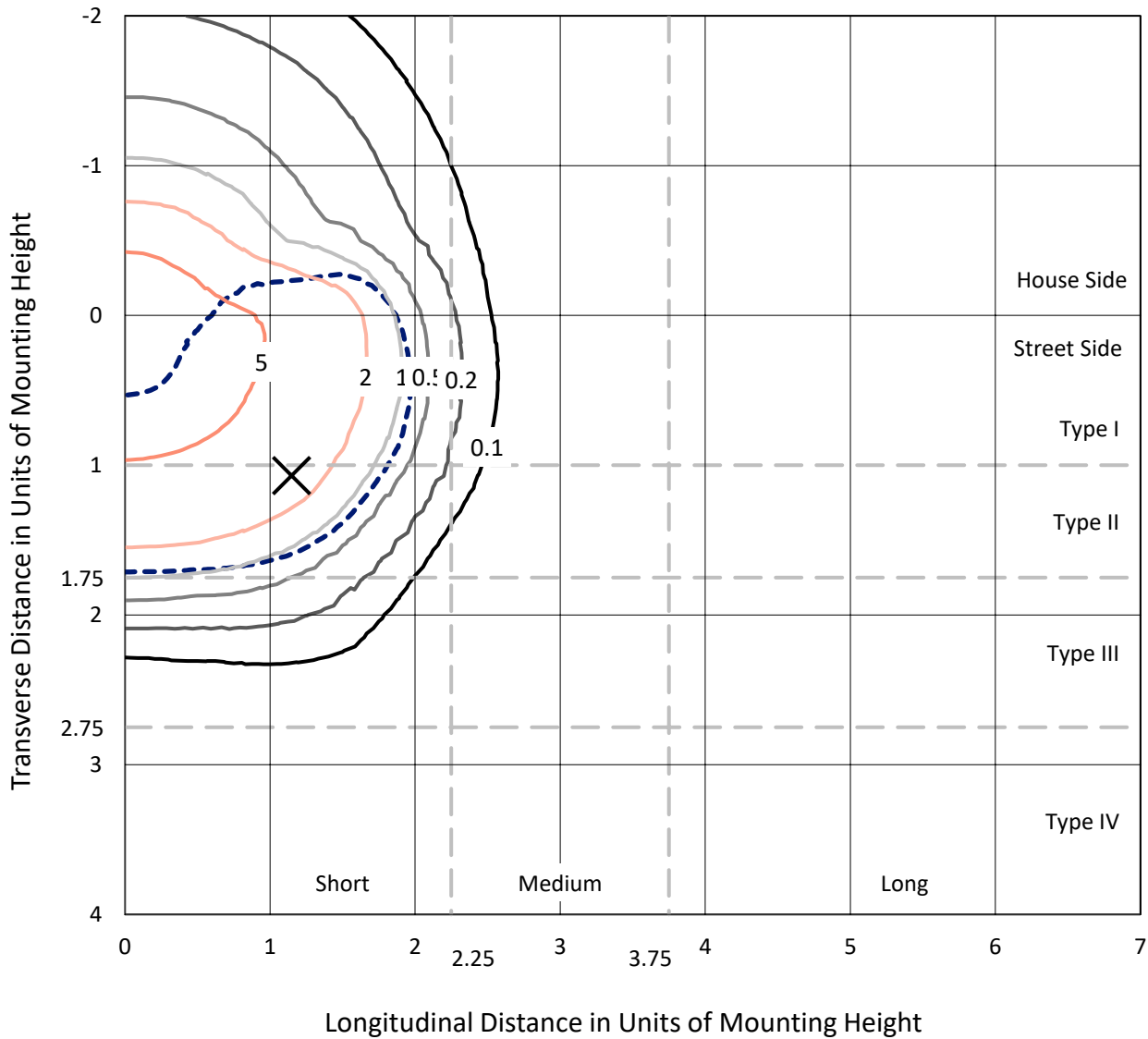
Lumens per Lamp: N/A  
Luminaire Lumens: 30155 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

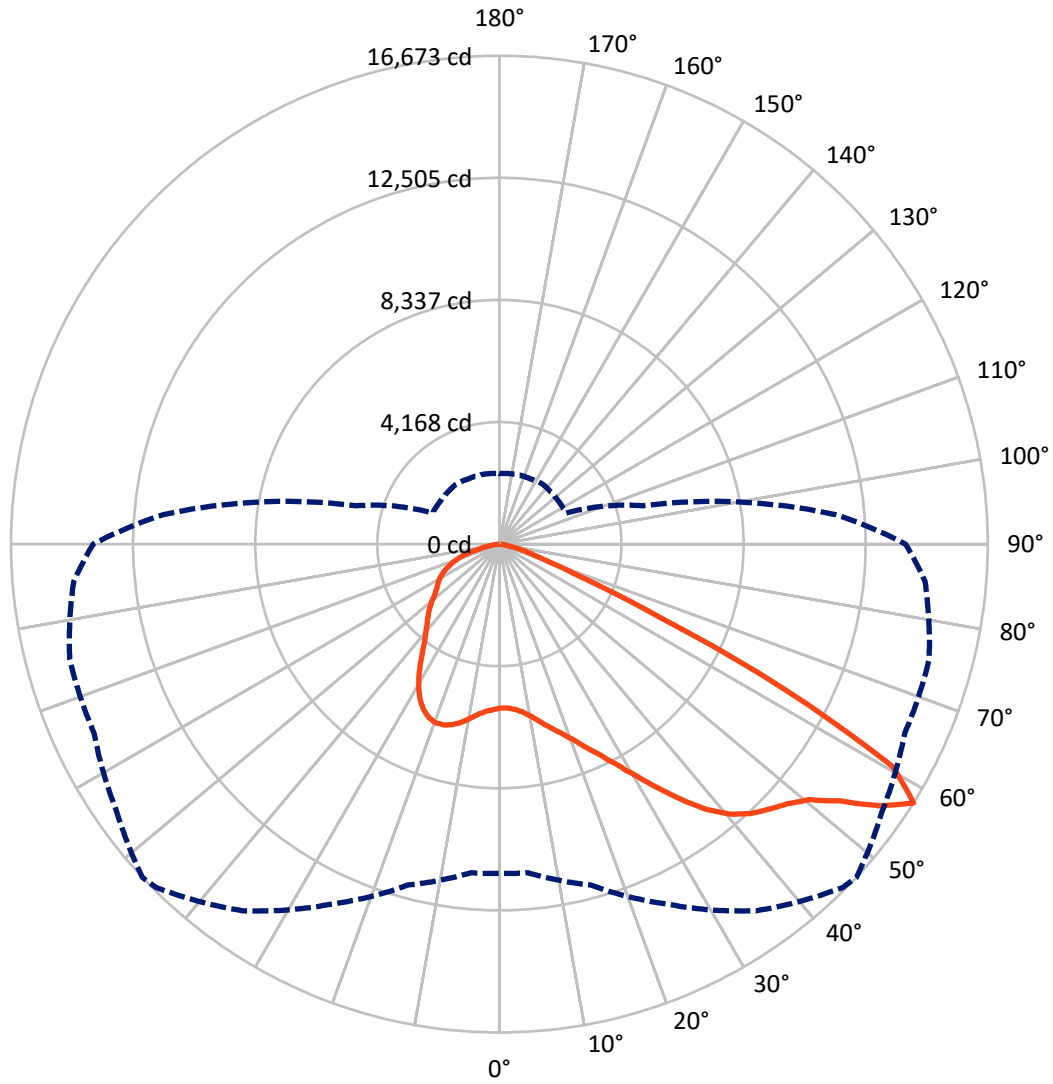
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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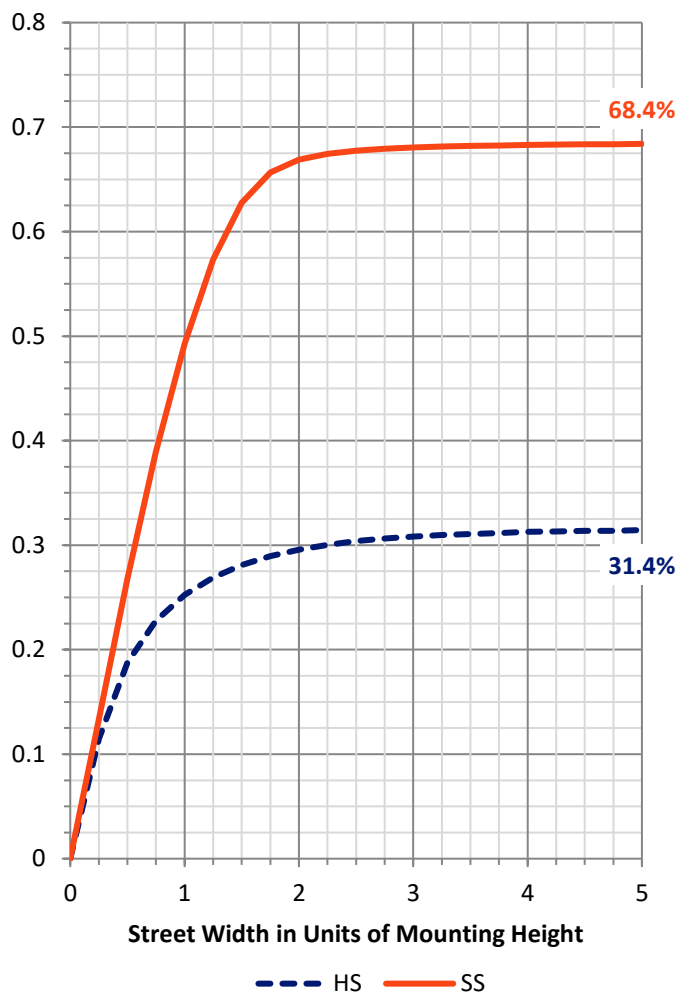
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9544.0	0.0	9544.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	20611.0	0.0	20611.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	30155.0	0.0	30155.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.6	1.8
10°-20°	1814.2	6.0
20°-30°	3266.6	10.8
30°-40°	4933.8	16.4
40°-50°	6644.0	22.0
50°-60°	7983.6	26.5
60°-70°	3888.2	12.9
70°-80°	957.9	3.2
80°-90°	115.1	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°	30155.0	100.0
0°-180°	30155.0	100.0

**Coefficient of Utilization**



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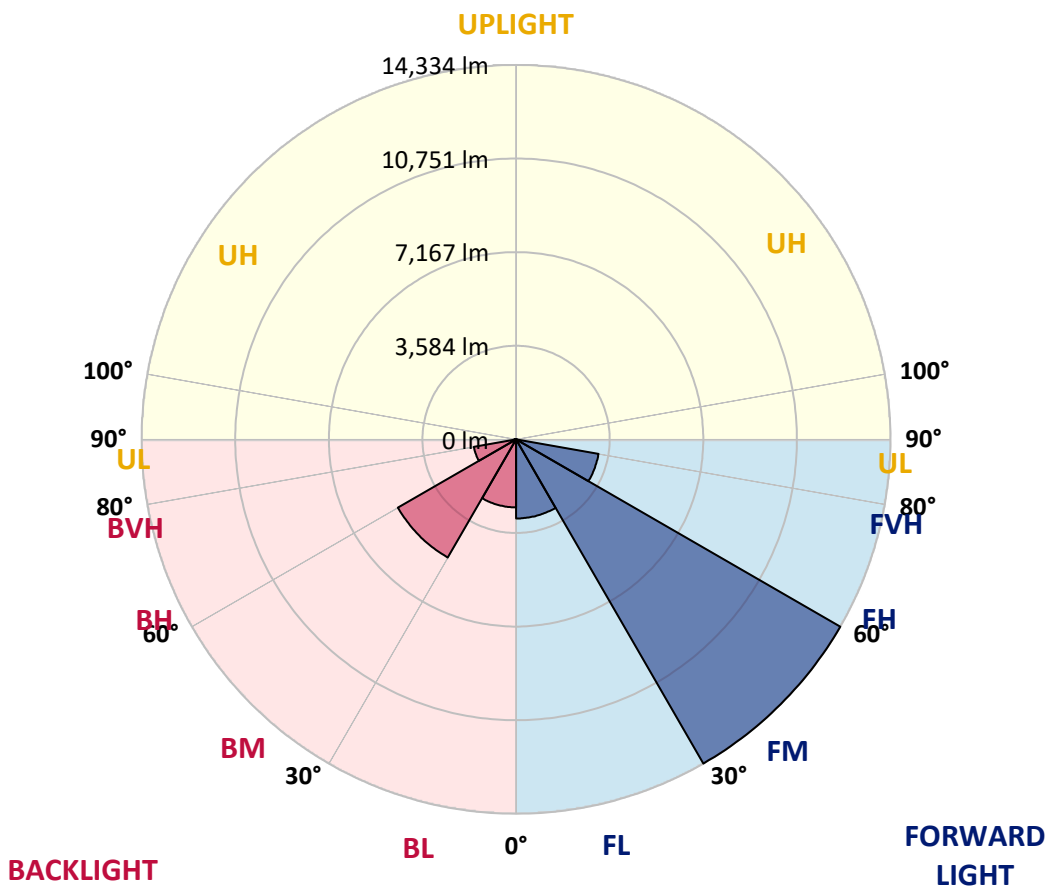
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3028.9	10.0			
FM (30°-60°)	14334.3	47.5			
FH (60°-80°)	3204.6	10.6			G2/5000
FVH (80°-90°)	43.3	0.1			G1/100
BL (0°-30°)	2603.4	8.6	B4/5000		
BM (30°-60°)	5227.2	17.3	B4/8500		
BH (60°-80°)	1641.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	71.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3
2.5°	5582.2	5579.6	5579.6	5594.8	5594.8	5599.9	5607.5	5615.1	5617.6	5605.0	5577.1
5°	5642.9	5642.9	5642.9	5655.6	5655.6	5660.7	5670.8	5673.3	5670.8	5650.5	5622.7
7.5°	5739.2	5739.2	5741.7	5756.9	5769.6	5777.2	5794.9	5792.4	5784.8	5751.9	5716.4
10°	5896.2	5903.8	5911.4	5929.1	5954.5	5972.2	5984.9	5984.9	5974.7	5924.1	5878.5
12.5°	6119.1	6129.2	6136.8	6152.0	6172.3	6202.7	6230.5	6230.5	6217.9	6154.6	6086.2
15°	6380.0	6390.1	6387.6	6392.6	6430.6	6473.7	6496.5	6511.7	6516.7	6428.1	6321.7
17.5°	6678.8	6689.0	6678.8	6663.6	6668.7	6737.1	6777.6	6833.3	6866.3	6747.2	6577.5
20°	6949.8	6939.7	6939.7	6949.8	6965.0	7048.6	7109.4	7200.6	7241.1	7096.7	6833.3
22.5°	7236.0	7258.8	7248.7	7248.7	7309.5	7448.8	7522.2	7641.3	7684.3	7496.9	7142.3
25°	7605.8	7626.1	7621.0	7626.1	7697.0	7894.5	7968.0	8188.3	8231.4	7962.9	7484.2
27.5°	8011.1	8044.0	8059.2	8054.1	8168.1	8426.4	8517.6	8824.1	8902.6	8484.7	7849.0
30°	8537.9	8573.3	8586.0	8580.9	8715.2	9067.2	9171.0	9520.6	9632.0	9102.7	8312.5
32.5°	9148.3	9183.7	9221.7	9236.9	9409.1	9768.8	9918.2	10280.4	10440.0	9816.9	8872.2
35°	9753.6	9784.0	9857.4	9976.5	10212.0	10579.3	10711.0	11068.1	11222.6	10559.0	9548.4
37.5°	10422.2	10442.5	10505.8	10670.4	11009.8	11359.3	11491.0	11833.0	11850.7	11275.8	10313.3
40°	11154.2	11154.2	11141.5	11303.6	11658.2	12010.2	12124.2	12321.8	12217.9	11827.9	11057.9
42.5°	11774.7	11764.6	11774.7	11926.7	12190.1	12476.3	12575.1	12537.1	12405.4	12250.9	11731.6
45°	12334.4	12342.0	12433.2	12549.7	12686.5	12856.2	12914.4	12699.2	12580.1	12590.2	12271.1
47.5°	12714.4	12721.9	12934.7	13129.7	13213.3	13266.5	13241.2	12942.3	12881.5	12995.5	12686.5
50°	12765.0	12805.5	13172.8	13572.9	13780.6	13788.2	13717.3	13352.6	13334.9	13464.0	12909.4
52.5°	12775.1	12815.7	13274.1	13995.9	14535.4	14649.4	14568.3	14188.4	14003.5	13874.3	13182.9
55°	12737.1	12782.7	13289.3	14279.6	15312.9	15768.8	15776.4	15239.5	14649.4	14563.3	13963.0
57.5°	11245.4	11263.1	12048.2	13557.8	15282.5	16574.2	16673.0	15943.6	15269.9	15188.8	14588.6
60°	7833.8	7904.7	8758.2	10751.5	12838.5	15115.4	15434.5	15221.8	14770.9	14180.8	12516.8
62.5°	3923.2	3984.0	4840.1	6724.4	8854.5	10652.7	10994.6	11220.0	11326.4	10693.2	8522.7
65°	1689.3	1734.9	2266.8	3512.9	5012.3	5881.0	6000.1	6271.1	6934.6	6187.5	4591.9
67.5°	1129.6	1160.0	1431.0	2142.7	2953.2	3008.9	2991.2	3049.4	3193.8	2636.6	2074.3
70°	866.2	891.5	1073.9	1570.3	2122.4	1816.0	1719.7	1560.2	1694.4	1727.3	1681.7
72.5°	628.1	648.4	785.1	1071.3	1329.7	1160.0	1144.8	1225.8	1408.2	1458.9	1431.0
75°	405.2	415.4	498.9	587.6	686.4	744.6	775.0	921.9	1106.8	1144.8	1111.9
77.5°	271.0	278.6	326.7	377.4	390.0	392.6	402.7	468.6	595.2	666.1	658.5
80°	141.8	141.8	159.6	159.6	182.4	217.8	227.9	271.0	329.3	364.7	367.2
82.5°	55.7	58.3	68.4	76.0	91.2	111.4	119.0	141.8	172.2	197.6	220.3
85°	22.8	25.3	27.9	32.9	40.5	50.7	53.2	60.8	81.0	101.3	114.0
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	7.6	10.1	12.7	22.8	30.4
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°	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3	5592.3
2.5°	5610.0	5577.1	5610.0	5620.1	5648.0	5658.1	5640.4	5637.9	5637.9	5612.6	5605.0
5°	5648.0	5617.6	5650.5	5665.7	5706.3	5731.6	5736.7	5756.9	5769.6	5759.4	5756.9
7.5°	5741.7	5703.7	5739.2	5762.0	5815.2	5855.7	5873.4	5919.0	5951.9	5946.9	5944.3
10°	5906.3	5855.7	5896.2	5934.2	5992.5	6040.6	6043.1	6068.4	6101.4	6091.2	6086.2
12.5°	6096.3	6048.2	6093.8	6131.8	6200.1	6220.4	6187.5	6177.4	6182.4	6169.8	6159.6
15°	6329.3	6260.9	6301.5	6344.5	6382.5	6359.7	6288.8	6260.9	6258.4	6240.7	6230.5
17.5°	6562.3	6476.2	6506.6	6529.4	6511.7	6440.8	6352.1	6304.0	6281.2	6245.7	6235.6
20°	6792.8	6683.9	6678.8	6661.1	6580.1	6450.9	6331.8	6235.6	6177.4	6129.2	6111.5
22.5°	7056.2	6904.2	6828.3	6747.2	6569.9	6359.7	6179.9	6043.1	5949.4	5888.6	5868.4
25°	7339.9	7124.6	6967.6	6805.5	6468.6	6164.7	5913.9	5726.5	5615.1	5549.2	5526.4
27.5°	7621.0	7324.7	7089.1	6813.1	6266.0	5883.6	5546.7	5293.4	5182.0	5128.8	5111.1
30°	8000.9	7590.6	7233.5	6714.3	6000.1	5493.5	5073.1	4817.3	4743.8	4705.8	4690.6
32.5°	8439.1	7927.5	7426.0	6506.6	5660.7	5037.6	4594.4	4417.1	4366.4	4293.0	4290.5
35°	9016.6	8408.7	7608.3	6200.1	5232.6	4548.8	4227.1	4100.5	4009.3	3892.8	3882.7
37.5°	9690.3	9009.0	7707.1	5810.1	4733.7	4146.1	3953.6	3811.8	3664.9	3510.4	3490.1
40°	10386.8	9710.5	7714.7	5349.1	4244.9	3880.2	3718.1	3533.2	3350.8	3178.6	3155.8
42.5°	11118.7	10364.0	7580.5	4817.3	3844.7	3649.7	3485.0	3252.0	3046.9	2930.4	2917.7
45°	11772.2	10890.8	7276.6	4257.5	3548.4	3457.2	3247.0	2996.2	2887.3	2803.7	2786.0
47.5°	12286.3	11240.3	6866.3	3756.1	3307.8	3259.6	2986.1	2856.9	2773.3	2697.4	2679.6
50°	12539.6	11318.8	6331.8	3348.3	3084.9	3026.6	2839.2	2740.4	2684.7	2623.9	2608.7
52.5°	12853.7	11407.5	5870.9	3006.4	2867.1	2788.5	2717.6	2639.1	2598.6	2560.6	2547.9
55°	13575.5	11741.8	5627.7	2732.8	2659.4	2623.9	2613.8	2547.9	2535.3	2509.9	2487.1
57.5°	13869.3	11526.5	5052.8	2509.9	2494.7	2499.8	2525.1	2464.4	2451.7	2421.3	2406.1
60°	11154.2	8712.6	3421.7	2317.5	2358.0	2390.9	2416.2	2355.4	2337.7	2332.7	2312.4
62.5°	7147.4	5359.3	2388.4	2137.6	2198.4	2238.9	2254.1	2195.9	2183.2	2223.7	2226.3
65°	3720.6	2920.2	1937.5	1945.1	1995.8	2056.6	2087.0	2066.7	2061.6	2104.7	2107.2
67.5°	1899.6	1785.6	1689.3	1717.2	1757.7	1836.2	1907.2	1995.8	2026.2	2031.3	2033.8
70°	1618.4	1567.8	1519.6	1537.4	1580.4	1623.5	1691.9	1734.9	1684.3	1671.6	1666.5
72.5°	1377.8	1339.8	1317.0	1337.3	1360.1	1352.5	1332.2	1352.5	1360.1	1362.6	1365.1
75°	1071.3	1043.5	1025.8	1028.3	1028.3	1000.4	962.4	939.6	914.3	894.1	894.1
77.5°	656.0	661.0	678.8	676.2	673.7	663.6	625.6	605.3	544.5	526.8	526.8
80°	374.8	382.4	400.2	405.2	405.2	392.6	354.6	331.8	303.9	291.3	288.7
82.5°	227.9	238.1	248.2	253.3	255.8	240.6	207.7	190.0	174.8	162.1	162.1
85°	119.0	124.1	134.2	136.8	129.2	114.0	96.2	88.6	73.4	70.9	70.9
87.5°	32.9	35.5	40.5	32.9	30.4	22.8	12.7	10.1	5.1	2.5	2.5
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)