

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: P643827

Luminaire Tested: GWS-SA6F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643827  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-760-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

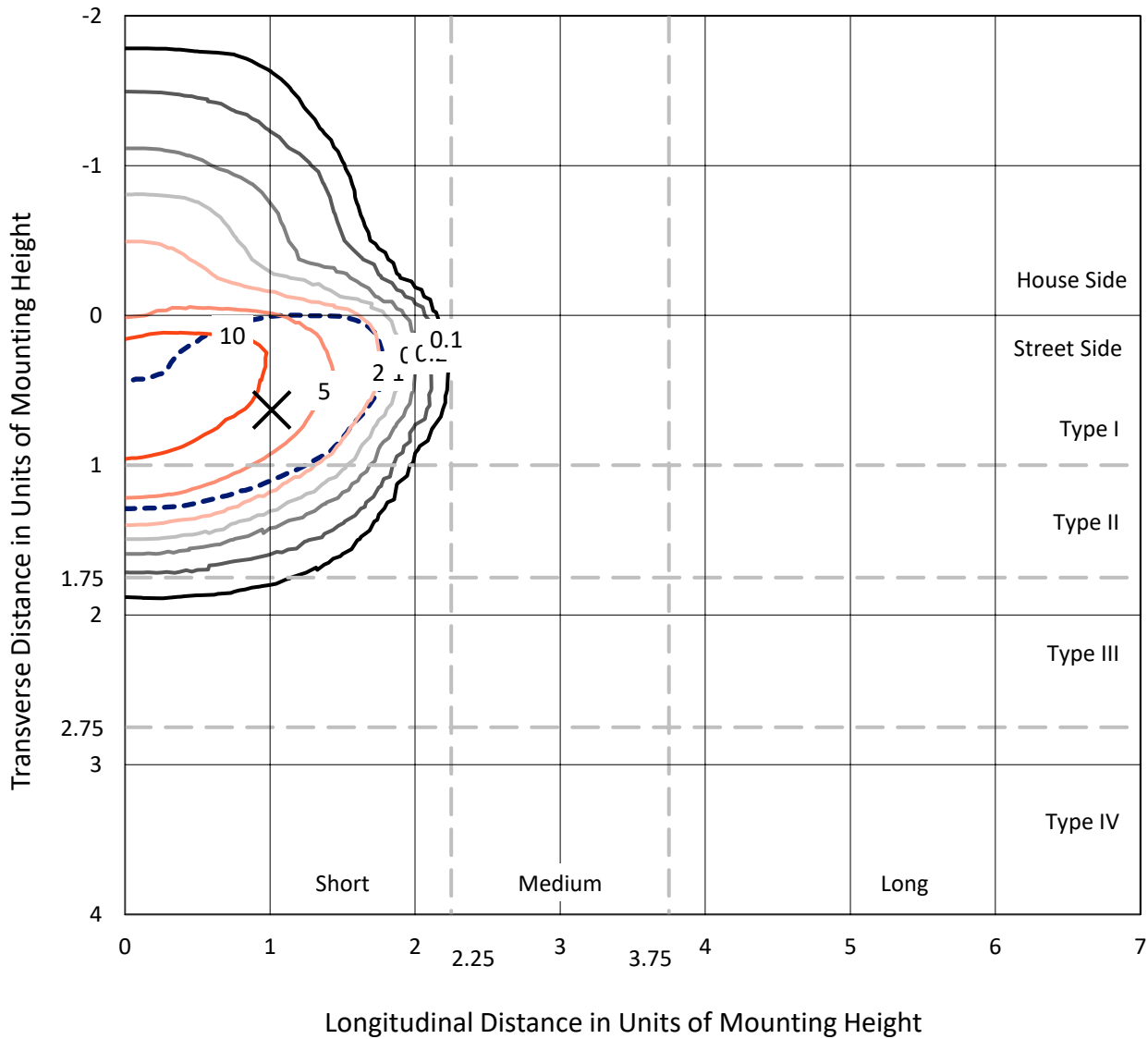
Lumens per Lamp: N/A  
Luminaire Lumens: 33660 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

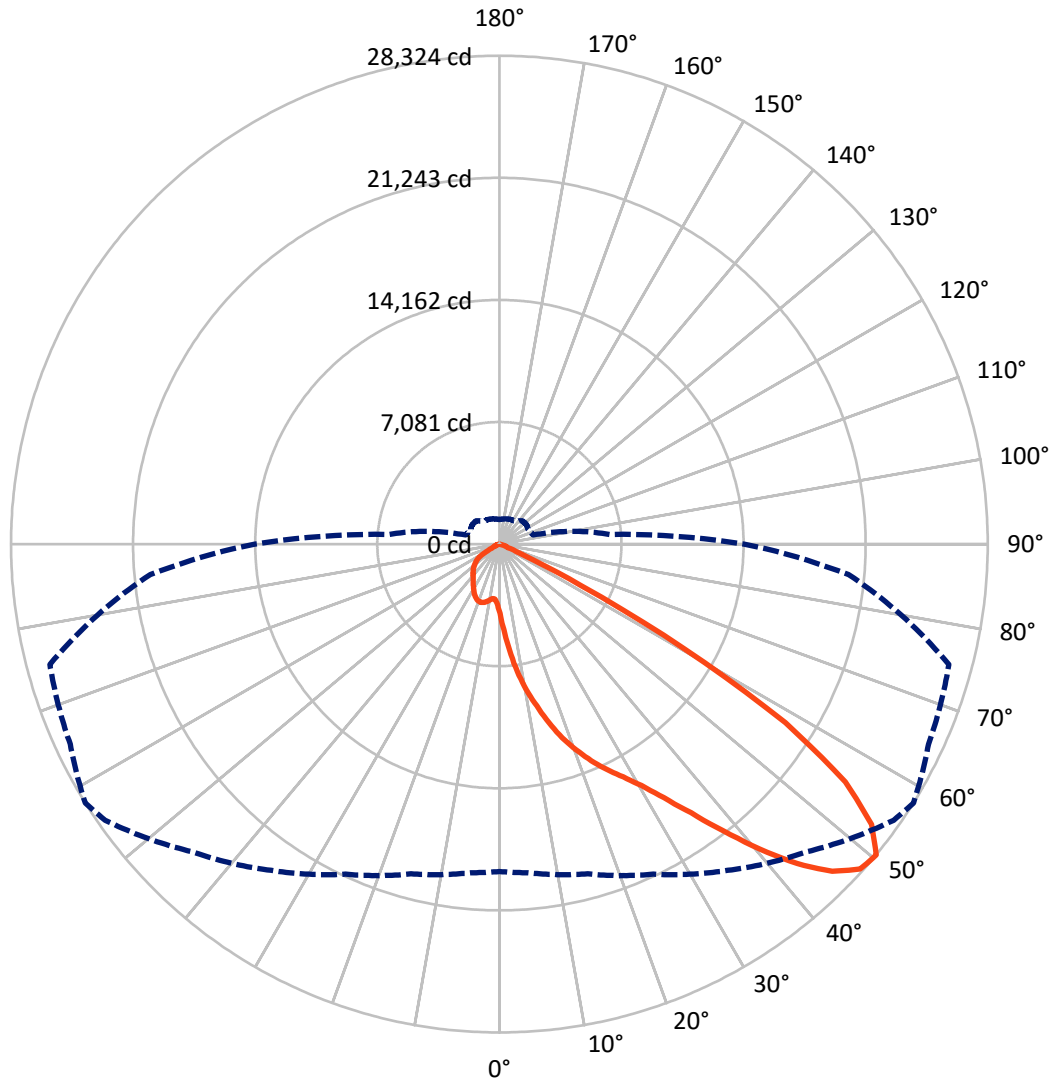
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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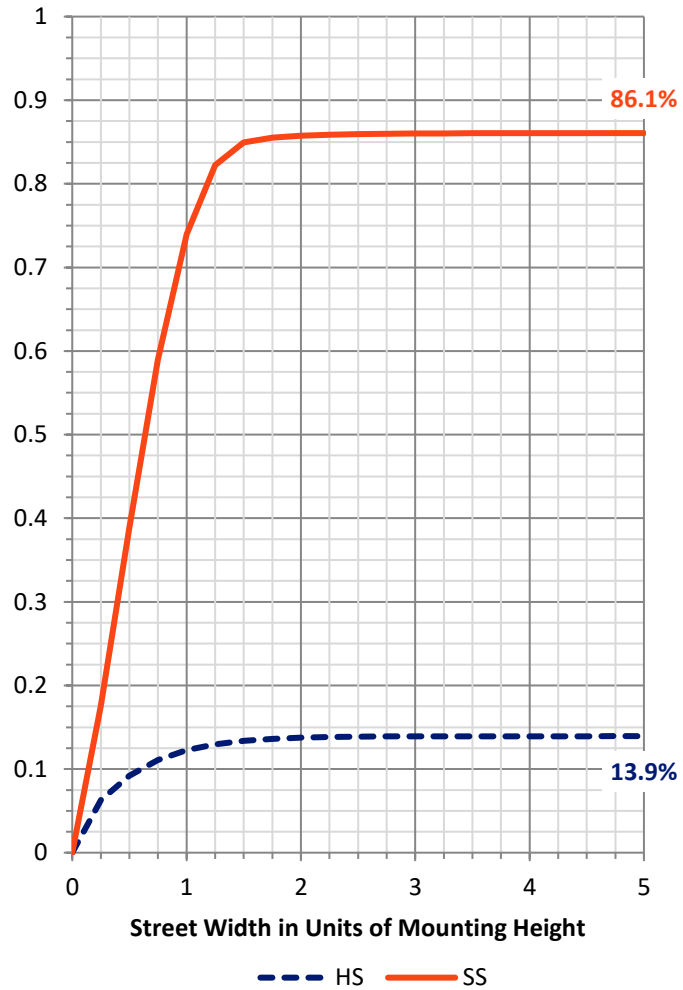
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4714.6	0.0	4714.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	28945.5	0.0	28945.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	33660.0	0.0	33660.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.1	1.5
10°-20°	1971.8	5.9
20°-30°	3990.0	11.9
30°-40°	7058.8	21.0
40°-50°	10290.2	30.6
50°-60°	8247.9	24.5
60°-70°	1485.9	4.4
70°-80°	117.1	0.3
80°-90°	0.1	0.0
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°	33660.0	100.0
0°-180°	33660.0	100.0

**Coefficient of Utilization**



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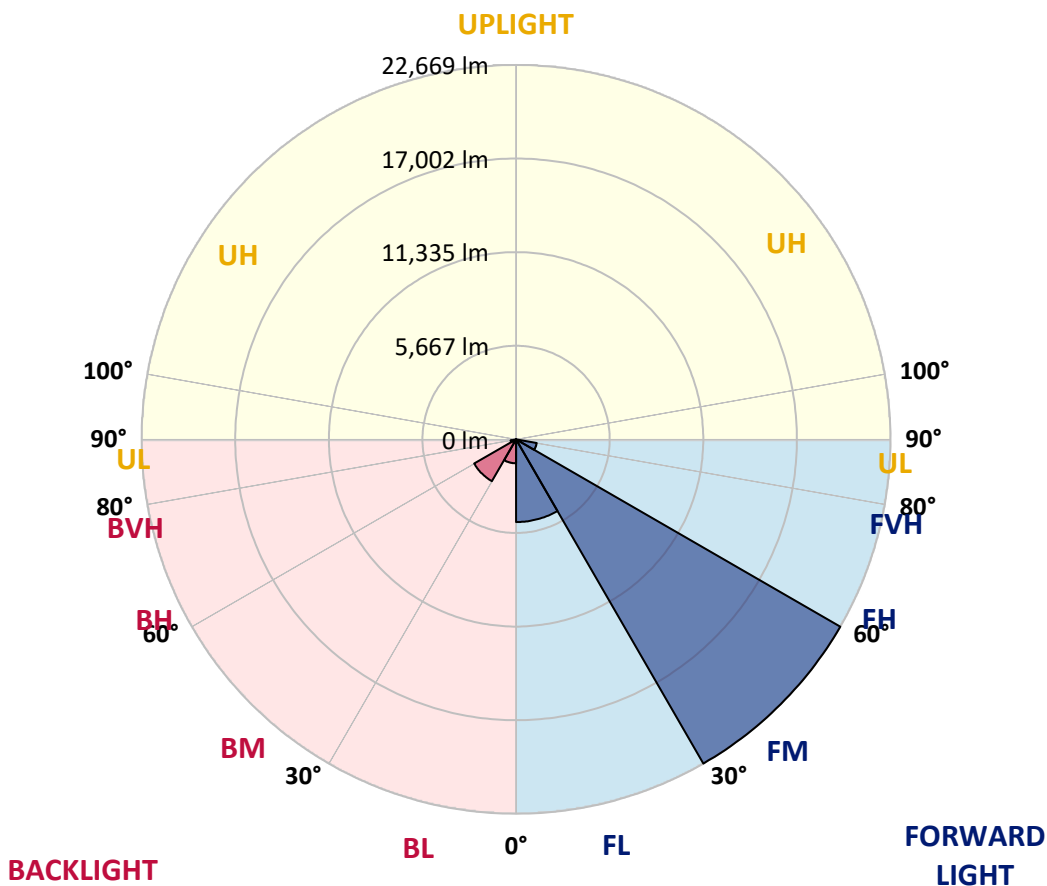
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5008.5	14.9			
FM (30°-60°)	22669.0	67.3			
FH (60°-80°)	1268.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1451.4	4.3	B3/2500		
BM (30°-60°)	2928.0	8.7	B3/5000		
BH (60°-80°)	335.1	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6
2.5°	5950.0	5856.4	5802.4	5759.2	5568.4	5266.1	5068.1	4963.7	4790.9	4499.4	4247.4
5°	7764.1	7695.7	7569.7	7483.3	7238.6	6810.2	6367.5	6191.1	5798.8	5140.1	4549.8
7.5°	8966.3	8915.9	8869.1	8754.0	8523.6	8134.8	7645.3	7461.7	6857.0	5921.2	4952.9
10°	9891.4	9851.8	9797.8	9794.2	9614.2	9265.1	8786.4	8595.6	7940.5	6770.6	5428.0
12.5°	10704.9	10672.5	10661.7	10762.5	10647.3	10388.1	9869.8	9632.2	8937.5	7638.1	5953.6
15°	11262.8	11255.6	11302.4	11500.4	11565.2	11446.4	11010.8	10755.3	9956.2	8509.2	6533.1
17.5°	11518.4	11540.0	11629.9	11971.9	12259.9	12360.6	12025.9	11809.9	10967.6	9391.1	7152.2
20°	11953.9	11946.7	12000.7	12324.7	12677.4	13037.3	12936.6	12753.0	11989.9	10323.3	7839.7
22.5°	13181.3	13076.9	12961.8	13012.2	13138.1	13559.3	13746.4	13652.9	13044.5	11280.8	8548.8
25°	15067.5	14959.5	14588.7	14228.8	13991.2	14182.0	14437.6	14484.3	14092.0	12263.5	9290.3
27.5°	17068.8	16971.6	16554.0	16014.1	15333.8	15002.7	15193.4	15287.0	15121.5	13433.3	10078.6
30°	18944.1	18814.5	18357.4	17687.9	16899.6	16392.1	16176.1	16240.9	16338.1	14819.1	11003.6
32.5°	20571.1	20473.9	19926.8	19221.3	18461.8	17932.7	17428.7	17536.7	17774.3	16514.5	12187.9
35°	21949.7	21899.3	21319.8	20617.9	19815.2	19545.2	19113.3	19134.9	19372.4	18562.6	13631.3
37.5°	23148.3	23061.9	22536.4	21884.9	21247.8	21204.6	21085.8	21096.6	21219.0	20949.0	15290.6
40°	23904.2	23825.0	23450.7	23047.5	22594.0	22601.2	23216.7	23263.5	23123.1	23292.3	17043.6
42.5°	24188.6	24131.0	23929.4	23933.0	23886.2	24098.6	25254.0	25340.4	24836.5	25131.6	18541.0
45°	23695.4	23670.2	23684.6	24203.0	24764.5	25419.6	26920.6	27071.8	26359.1	26351.9	19710.8
47.5°	22104.5	22054.1	22475.2	23357.1	24656.5	25930.7	27928.4	28162.4	27424.5	27050.2	20445.1
50°	18987.3	19131.3	19797.2	21121.8	23097.9	25228.8	27917.6	28324.4	27464.1	26989.0	20322.7
52.5°	13753.6	13724.9	15182.6	17004.0	19408.4	22982.7	26434.6	27028.6	26503.0	26387.9	20049.2
55°	7483.3	7746.1	8728.8	11140.4	14142.4	18731.7	23047.5	24343.3	24951.7	26168.3	20542.3
57.5°	2750.0	2865.2	3480.7	5186.9	7486.9	11647.9	17605.1	19559.6	21438.6	25556.4	20459.5
60°	1108.6	1130.2	1375.0	1907.7	3146.0	5928.4	10560.9	12295.9	14066.8	19563.2	15701.0
62.5°	806.3	835.1	932.3	1115.8	1591.0	2591.6	4553.4	5294.8	5788.0	9689.8	7735.3
65°	651.5	673.1	752.3	835.1	1051.1	1393.0	1468.6	1414.6	1407.4	2505.2	1774.5
67.5°	539.9	561.5	619.1	676.7	755.9	694.7	503.9	529.1	431.9	428.3	349.2
70°	395.9	421.1	478.7	539.9	453.5	187.2	291.6	431.9	327.6	273.6	266.4
72.5°	298.8	316.8	370.7	352.7	133.2	72.0	194.4	313.2	252.0	201.6	198.0
75°	223.2	234.0	187.2	57.6	14.4	18.0	72.0	129.6	140.4	115.2	115.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	10.8	14.4	18.0	21.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6	4020.6
2.5°	4103.4	3952.2	3736.3	3556.3	3419.5	3286.3	3185.5	3084.8	3081.2	3030.8	3020.0
5°	4276.2	4002.6	3606.7	3322.3	3149.6	3045.2	2973.2	2937.2	2919.2	2901.2	2894.0
7.5°	4524.6	4132.2	3585.1	3282.7	3138.8	3070.4	3020.0	2998.4	2987.6	2973.2	2969.6
10°	4830.5	4319.4	3664.3	3358.3	3232.3	3167.6	3113.6	3081.2	3063.2	3038.0	3030.8
12.5°	5197.7	4549.8	3790.3	3484.3	3351.1	3264.7	3192.7	3146.0	3120.8	3088.4	3081.2
15°	5593.6	4798.1	3930.6	3599.5	3441.1	3329.5	3239.5	3167.6	3120.8	3081.2	3070.4
17.5°	6003.9	5050.1	4056.6	3678.7	3484.3	3351.1	3221.5	3124.4	3066.8	3016.4	3002.0
20°	6464.7	5309.2	4139.4	3693.1	3469.9	3293.5	3142.4	3020.0	2962.4	2894.0	2879.6
22.5°	6947.0	5550.4	4175.4	3660.7	3390.7	3185.5	3023.6	2897.6	2814.8	2742.8	2721.2
25°	7414.9	5766.4	4157.4	3570.7	3271.9	3034.4	2868.8	2739.2	2649.2	2577.2	2559.2
27.5°	7911.7	5946.4	4092.6	3437.5	3110.0	2868.8	2710.4	2598.8	2516.0	2436.9	2418.9
30°	8469.6	6111.9	3988.2	3275.5	2919.2	2699.6	2577.2	2501.6	2411.7	2328.9	2303.7
32.5°	9142.7	6259.5	3837.1	3081.2	2750.0	2552.0	2483.6	2426.1	2321.7	2235.3	2217.3
35°	9913.0	6381.9	3646.3	2879.6	2584.4	2458.5	2444.1	2368.5	2231.7	2130.9	2109.3
37.5°	10805.7	6500.7	3419.5	2681.6	2462.1	2415.3	2418.9	2289.3	2123.7	2001.3	1986.9
40°	11766.7	6619.5	3167.6	2508.8	2350.5	2390.1	2357.7	2174.1	1904.1	1785.3	1770.9
42.5°	12767.4	6749.0	2912.0	2346.9	2256.9	2292.9	2246.1	1943.7	1749.4	1688.2	1681.0
45°	13670.9	6903.8	2634.8	2184.9	2163.3	2152.5	2073.3	1760.2	1677.4	1634.2	1630.6
47.5°	14322.4	6878.6	2339.7	2030.1	2062.5	2026.5	1785.3	1673.8	1605.4	1547.8	1533.4
50°	14203.6	6439.5	2033.7	1857.3	1932.9	1900.5	1605.4	1573.0	1511.8	1450.6	1429.0
52.5°	13901.2	5842.0	1767.3	1673.8	1792.5	1717.0	1483.0	1450.6	1396.6	1317.4	1292.2
55°	14063.2	5280.5	1558.6	1526.2	1648.6	1421.8	1346.2	1295.8	1238.2	1151.8	1141.0
57.5°	13541.3	4308.6	1252.6	1274.2	1457.8	1213.0	1180.6	1101.4	1004.3	946.7	939.5
60°	9373.1	2314.5	784.7	809.9	1054.7	1018.7	1058.2	986.3	867.5	813.5	802.7
62.5°	4305.0	928.7	428.3	410.3	554.3	691.1	907.1	899.9	752.3	665.9	658.7
65°	1043.9	424.7	306.0	288.0	313.2	413.9	590.3	709.1	608.3	507.5	496.7
67.5°	338.4	345.6	280.8	262.8	277.2	309.6	352.7	392.3	388.7	356.3	349.2
70°	270.0	313.2	259.2	237.6	237.6	248.4	237.6	190.8	165.6	180.0	187.2
72.5°	201.6	237.6	205.2	183.6	176.4	172.8	147.6	108.0	75.6	68.4	64.8
75°	118.8	133.2	126.0	108.0	100.8	90.0	72.0	46.8	25.2	18.0	10.8
77.5°	21.6	25.2	28.8	21.6	18.0	14.4	10.8	3.6	0.0	0.0	0.0
80°	0.0	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)