

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: P642432

Luminaire Tested: GWS-SA6C-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

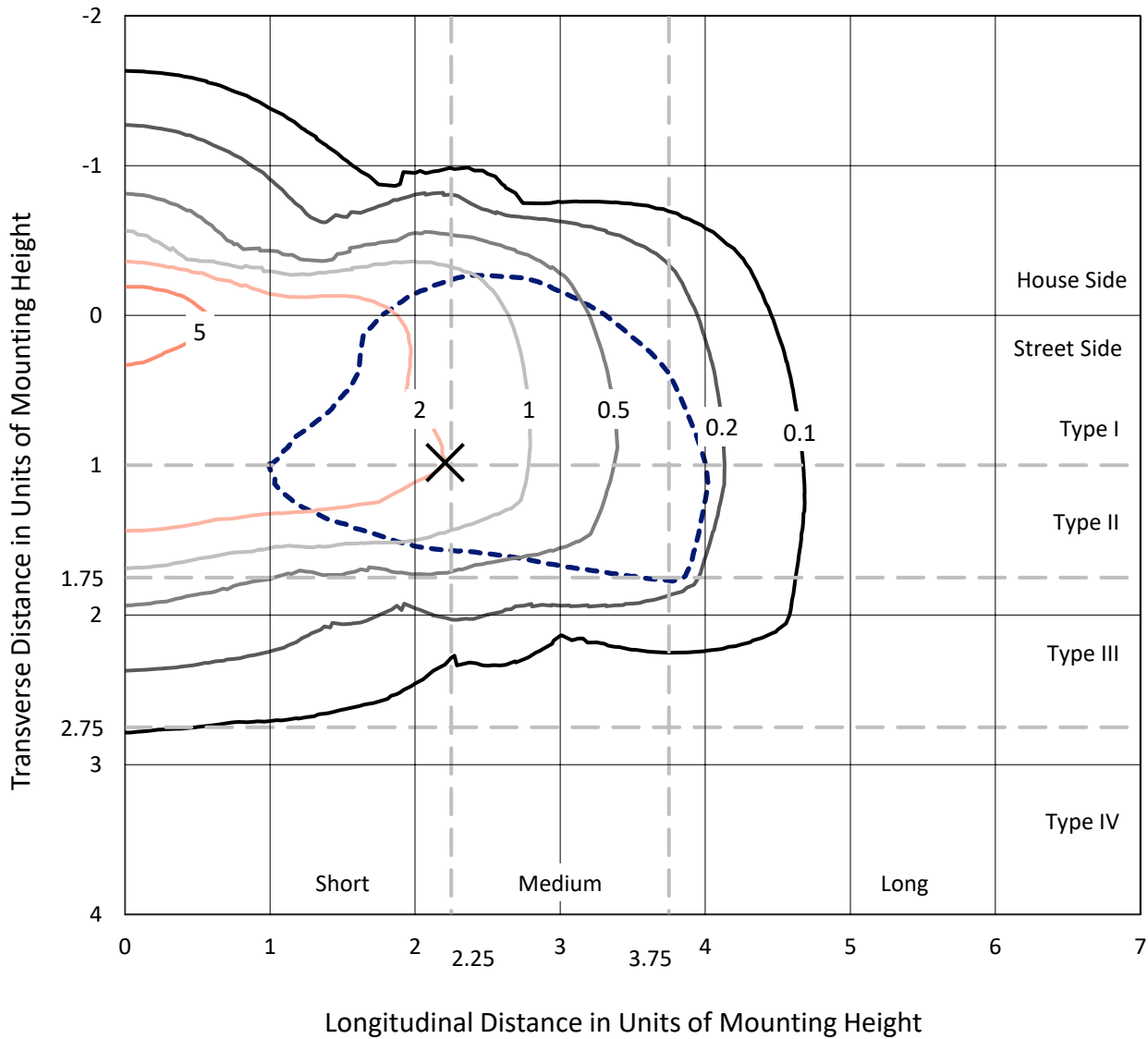
Lumens per Lamp: N/A  
Luminaire Lumens: 22165.9 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

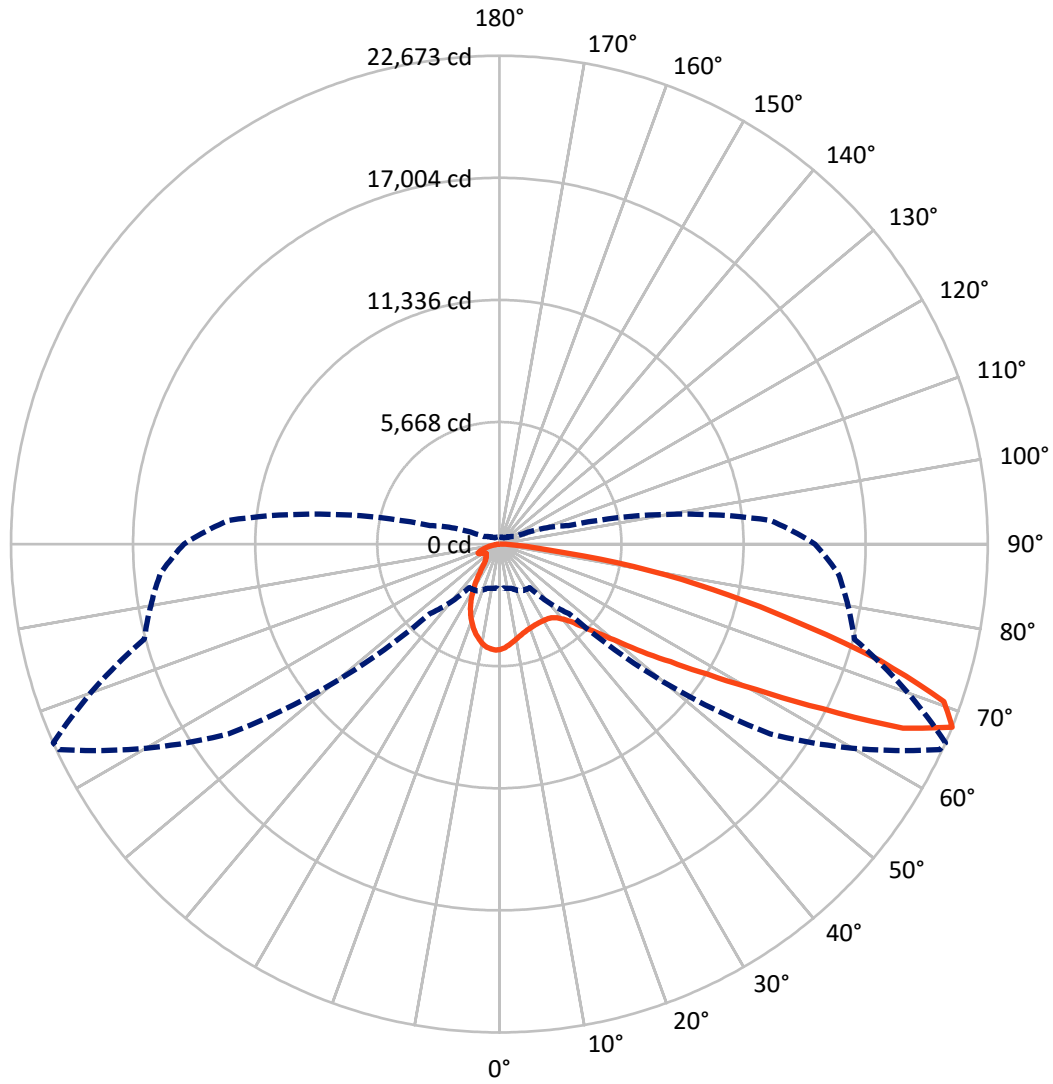
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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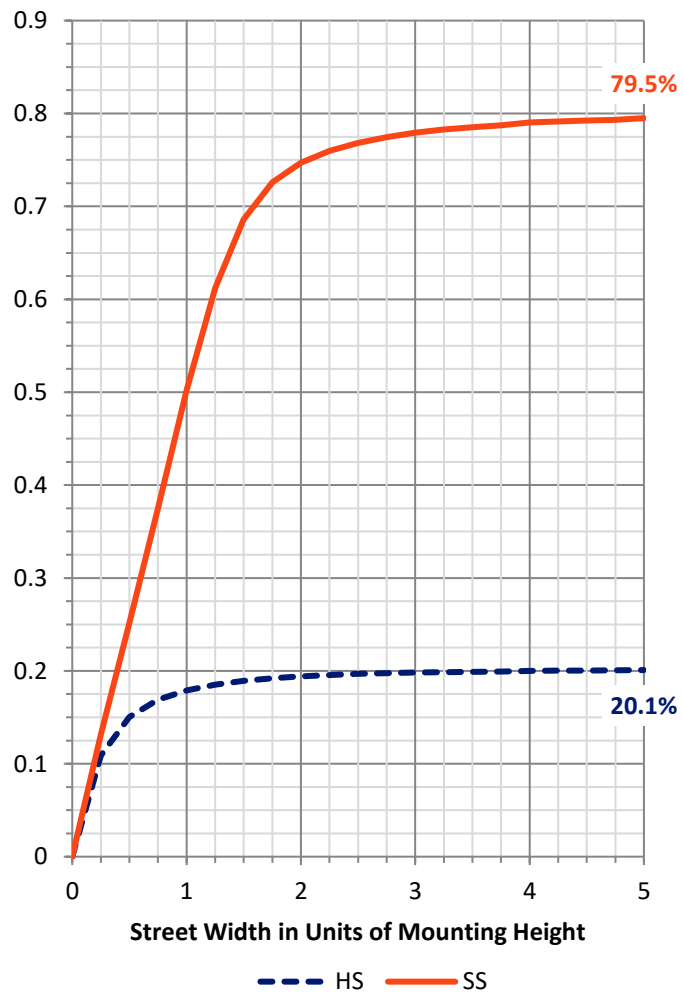
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4498.0	0.0	4498.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	17667.9	0.0	17667.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	22165.9	0.0	22165.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.9	1.9
10°-20°	1056.4	4.8
20°-30°	1452.1	6.6
30°-40°	1985.3	9.0
40°-50°	3008.2	13.6
50°-60°	4676.4	21.1
60°-70°	5693.4	25.7
70°-80°	3468.1	15.6
80°-90°	396.1	1.8
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°	22165.9	100.0
0°-180°	22165.9	100.0

**Coefficient of Utilization**



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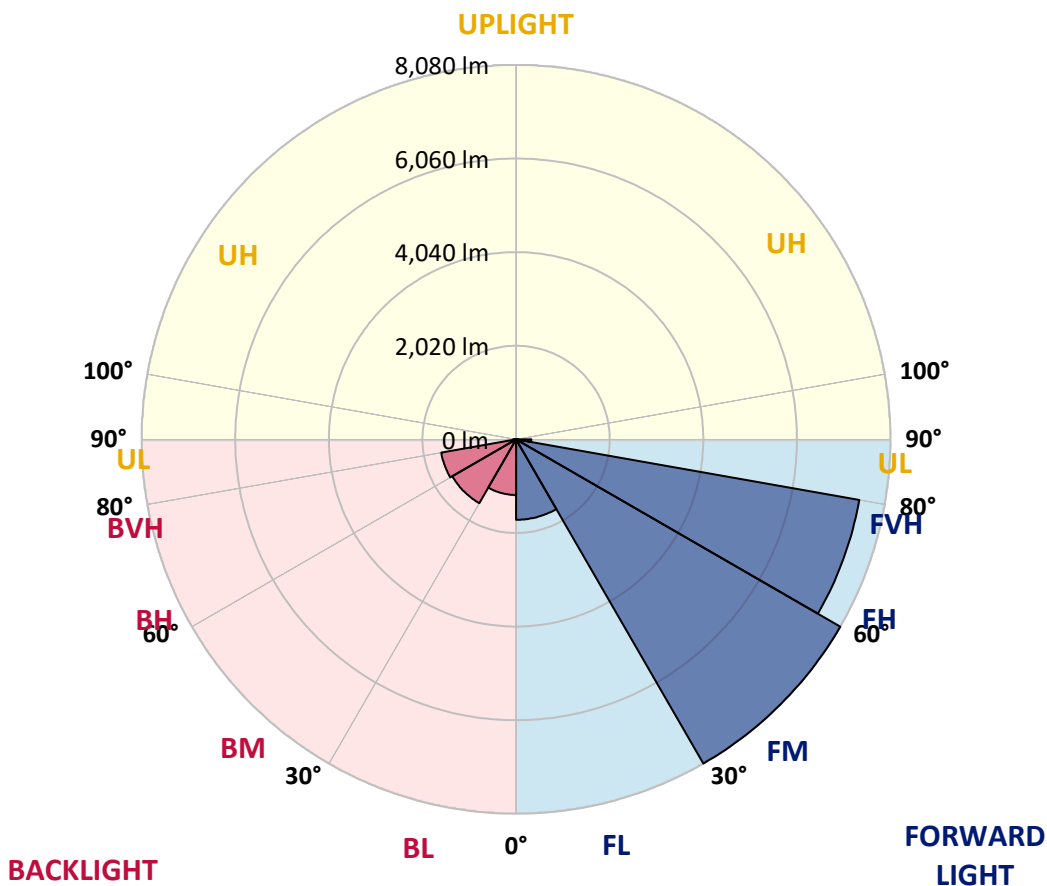
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.8	7.8			
FM (30°-60°)	8080.3	36.5			
FH (60°-80°)	7521.4	33.9			G4/12000
FVH (80°-90°)	329.4	1.5			G3/500
BL (0°-30°)	1201.6	5.4	B3/2500		
BM (30°-60°)	1589.5	7.2	B2/2500		
BH (60°-80°)	1640.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	66.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4587.6	4603.7	4594.0	4655.5	4658.7	4736.3	4780.0	4817.2	4820.4	4868.9	4901.3
5°	4273.9	4283.6	4283.6	4341.8	4380.6	4484.1	4584.3	4691.1	4699.1	4815.6	4904.5
7.5°	4020.0	4029.7	4023.2	4100.8	4151.0	4265.8	4393.5	4556.8	4573.0	4760.6	4915.8
10°	3821.1	3817.8	3834.0	3905.2	3969.8	4107.3	4249.6	4435.6	4459.8	4697.5	4928.8
12.5°	3685.2	3688.5	3698.2	3772.6	3842.1	3977.9	4125.1	4327.2	4353.1	4624.8	4922.3
15°	3620.6	3614.1	3622.2	3690.1	3756.4	3876.1	4028.1	4236.7	4262.5	4560.1	4923.9
17.5°	3606.0	3601.2	3599.5	3648.1	3698.2	3809.8	3955.3	4167.1	4194.6	4518.0	4933.6
20°	3651.3	3644.8	3627.0	3648.1	3669.1	3762.9	3903.6	4117.0	4147.7	4490.5	4953.0
22.5°	3775.8	3764.5	3737.0	3711.1	3683.6	3740.2	3871.2	4079.8	4110.5	4472.8	4972.4
25°	3965.0	3955.3	3926.2	3868.0	3767.7	3758.0	3864.7	4063.6	4094.4	4459.8	4980.5
27.5°	4225.3	4210.8	4181.7	4097.6	3934.3	3824.3	3889.0	4062.0	4091.1	4445.3	4972.4
30°	4534.2	4524.5	4508.3	4406.5	4188.2	3965.0	3944.0	4075.0	4097.6	4437.2	4956.2
32.5°	4847.9	4838.2	4851.1	4802.6	4534.2	4197.9	4063.6	4110.5	4126.7	4435.6	4941.7
35°	5124.4	5135.7	5229.5	5237.6	4974.0	4513.2	4252.8	4193.0	4196.2	4467.9	4948.2
37.5°	5413.9	5457.5	5580.4	5685.5	5465.6	4930.4	4534.2	4348.2	4345.0	4550.4	4988.6
40°	5797.1	5816.5	5973.4	6170.7	6033.2	5502.8	4933.6	4602.1	4579.5	4718.5	5096.9
42.5°	6170.7	6217.5	6468.2	6694.6	6649.3	6148.0	5436.5	4982.1	4941.7	5016.1	5320.1
45°	6646.1	6691.3	6972.7	7263.8	7346.2	6877.3	6080.1	5522.2	5481.8	5464.0	5729.2
47.5°	7121.5	7168.4	7420.6	7841.1	8130.5	7789.3	6917.7	6235.3	6169.0	6099.5	6346.9
50°	7441.6	7496.6	7737.6	8242.1	8921.2	8927.7	7910.6	7170.0	7085.9	6975.9	7216.9
52.5°	7430.3	7465.9	7695.5	8277.7	9490.4	10235.9	9239.8	8360.1	8292.2	8052.9	8263.1
55°	6846.6	6899.9	7131.2	7858.8	9551.9	11476.2	11193.2	9763.7	9642.4	9213.9	9445.2
57.5°	5674.2	5719.5	5952.3	6849.8	9007.0	12111.7	13673.7	11552.2	11385.6	10478.5	10745.3
60°	4283.6	4228.6	4338.5	5124.4	7703.6	12127.9	15863.2	13977.8	13699.6	11830.3	12053.5
62.5°	3214.7	3159.7	3184.0	3405.5	5223.1	11147.9	17111.6	17295.9	16836.7	13356.8	13313.1
65°	2540.4	2509.7	2579.2	2731.2	3044.9	8489.5	17121.3	20884.2	20594.7	15125.9	14605.2
67.5°	2069.8	2050.4	2121.6	2402.9	2469.2	4561.7	15352.2	22559.4	22672.6	17063.1	15803.4
70°	1667.2	1638.1	1749.6	2119.9	2296.2	2760.3	10997.5	21705.6	21888.3	18217.6	15465.4
72.5°	1151.3	1153.0	1209.6	1717.3	2217.0	2383.5	6220.8	18073.7	18469.9	17171.4	13596.1
75°	776.2	782.7	798.8	1133.5	2042.3	2312.4	3314.9	13683.4	13963.2	14192.8	11238.5
77.5°	468.9	472.2	509.4	685.6	1408.4	2158.8	2246.1	9919.0	10138.9	9356.2	6966.2
80°	271.7	283.0	316.9	459.2	950.8	1621.9	1738.3	6081.7	6330.7	4159.0	2213.7
82.5°	119.7	127.7	173.0	266.8	554.6	1379.3	1356.7	2402.9	2367.4	1159.4	768.1
85°	21.0	25.9	37.2	84.1	203.7	727.7	1052.7	1060.8	997.7	439.8	318.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.9	158.5	284.6	283.0	124.5	110.0
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°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4922.3	4878.6	4917.4	4922.3	4914.2	4907.7	4859.2	4817.2	4812.3	4767.1	4767.1
5°	4940.1	4899.7	4919.1	4881.9	4823.7	4763.8	4660.3	4589.2	4556.8	4498.6	4498.6
7.5°	4964.3	4922.3	4899.7	4807.5	4671.6	4540.7	4374.1	4235.0	4178.4	4096.0	4092.7
10°	4987.0	4933.6	4856.0	4676.5	4459.8	4251.2	4008.7	3811.4	3677.2	3578.5	3578.5
12.5°	4985.4	4915.8	4762.2	4497.0	4197.9	3895.5	3572.1	3274.5	3096.6	2943.0	2933.3
15°	4982.1	4886.7	4642.5	4288.4	3892.2	3473.4	3033.6	2645.5	2381.9	2231.5	2218.6
17.5°	4978.9	4849.5	4508.3	4050.7	3520.3	2949.5	2369.0	1948.5	1728.6	1636.5	1639.7
20°	4978.9	4807.5	4364.4	3777.4	3091.8	2322.1	1738.3	1432.7	1377.7	1382.6	1387.4
22.5°	4964.3	4755.7	4204.3	3479.9	2614.8	1707.6	1282.3	1178.8	1207.9	1253.2	1259.7
25°	4930.4	4670.0	4018.4	3150.0	2047.2	1243.5	1046.2	1026.8	1080.2	1136.8	1153.0
27.5°	4877.0	4571.4	3809.8	2763.5	1507.1	999.3	920.1	918.5	960.5	1002.6	1017.1
30°	4820.4	4461.4	3589.8	2333.4	1091.5	870.0	839.2	839.2	860.3	886.1	882.9
32.5°	4754.1	4349.9	3353.8	1885.5	889.4	797.2	787.5	782.7	785.9	795.6	795.6
35°	4697.5	4251.2	3111.2	1411.7	797.2	756.8	747.1	735.8	730.9	724.4	727.7
37.5°	4676.5	4173.6	2860.6	1064.0	751.9	727.7	711.5	695.3	684.0	680.8	679.2
40°	4710.5	4141.3	2609.9	876.4	719.6	696.9	679.2	658.1	648.4	648.4	648.4
42.5°	4843.1	4165.5	2354.4	792.4	696.9	671.1	645.2	625.8	622.6	625.8	627.4
45°	5085.6	4259.3	2089.2	750.3	677.5	645.2	614.5	599.9	599.9	603.2	603.2
47.5°	5519.0	4505.1	1827.3	724.4	658.1	624.2	591.8	577.3	575.7	578.9	578.9
50°	6269.3	4948.2	1591.2	706.6	643.6	608.0	575.7	556.3	551.4	549.8	549.8
52.5°	7215.3	5716.3	1440.8	693.7	625.8	590.2	557.9	532.0	522.3	517.5	517.5
55°	8358.5	6739.9	1440.8	684.0	603.2	569.2	532.0	506.1	491.6	485.1	485.1
57.5°	9653.8	7931.6	1689.8	675.9	585.4	544.9	504.5	478.6	462.5	452.8	452.8
60°	10971.7	9191.3	2305.9	664.6	569.2	514.2	473.8	449.5	428.5	417.2	415.6
62.5°	12338.1	10578.7	3117.7	671.1	557.9	485.1	441.5	414.0	396.2	384.9	383.2
65°	13589.7	11899.8	3827.5	721.2	559.5	459.2	404.3	380.0	365.5	350.9	349.3
67.5°	14652.1	12629.1	3329.5	823.1	593.5	428.5	367.1	342.8	329.9	320.2	318.6
70°	13908.2	11516.6	1888.7	886.1	640.4	396.2	325.0	308.9	295.9	289.5	287.8
72.5°	11893.4	9750.8	1262.9	782.7	583.8	354.1	286.2	273.3	263.6	255.5	253.9
75°	9634.4	7732.7	965.4	642.0	454.4	287.8	245.8	236.1	226.4	218.3	216.7
77.5°	5700.1	4467.9	711.5	507.8	320.2	224.8	203.7	195.7	186.0	179.5	177.9
80°	1819.2	1552.4	451.2	349.3	211.8	173.0	156.9	150.4	140.7	132.6	131.0
82.5°	693.7	599.9	239.3	177.9	140.7	118.0	105.1	98.6	92.2	84.1	82.5
85°	307.2	287.8	132.6	95.4	76.0	58.2	51.7	48.5	40.4	34.0	32.3
87.5°	108.3	108.3	56.6	27.5	16.2	8.1	4.9	1.6	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)