

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: P642460

Luminaire Tested: GWS-SA6C-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

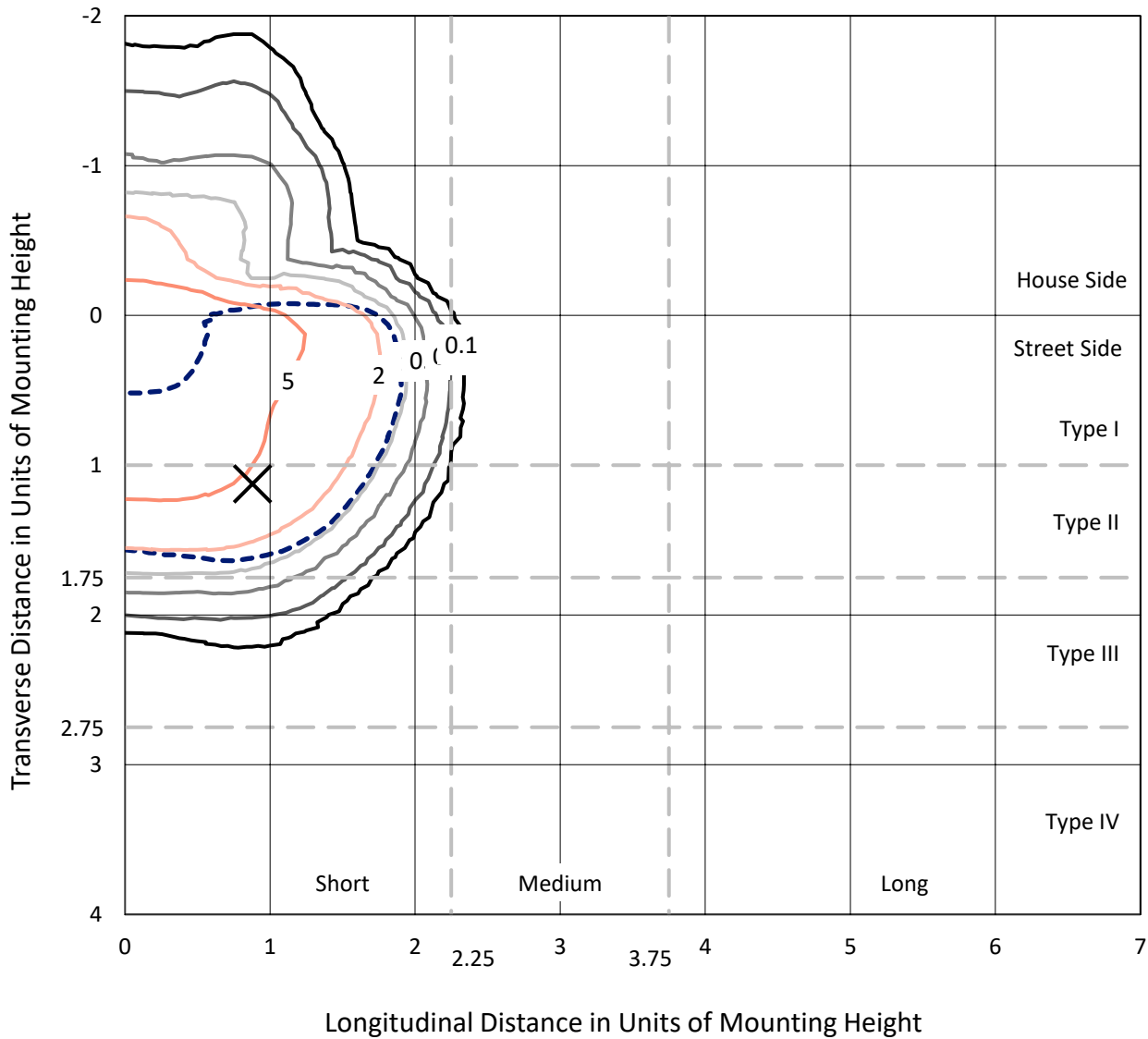
Lumens per Lamp: N/A  
Luminaire Lumens: 14147.2 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

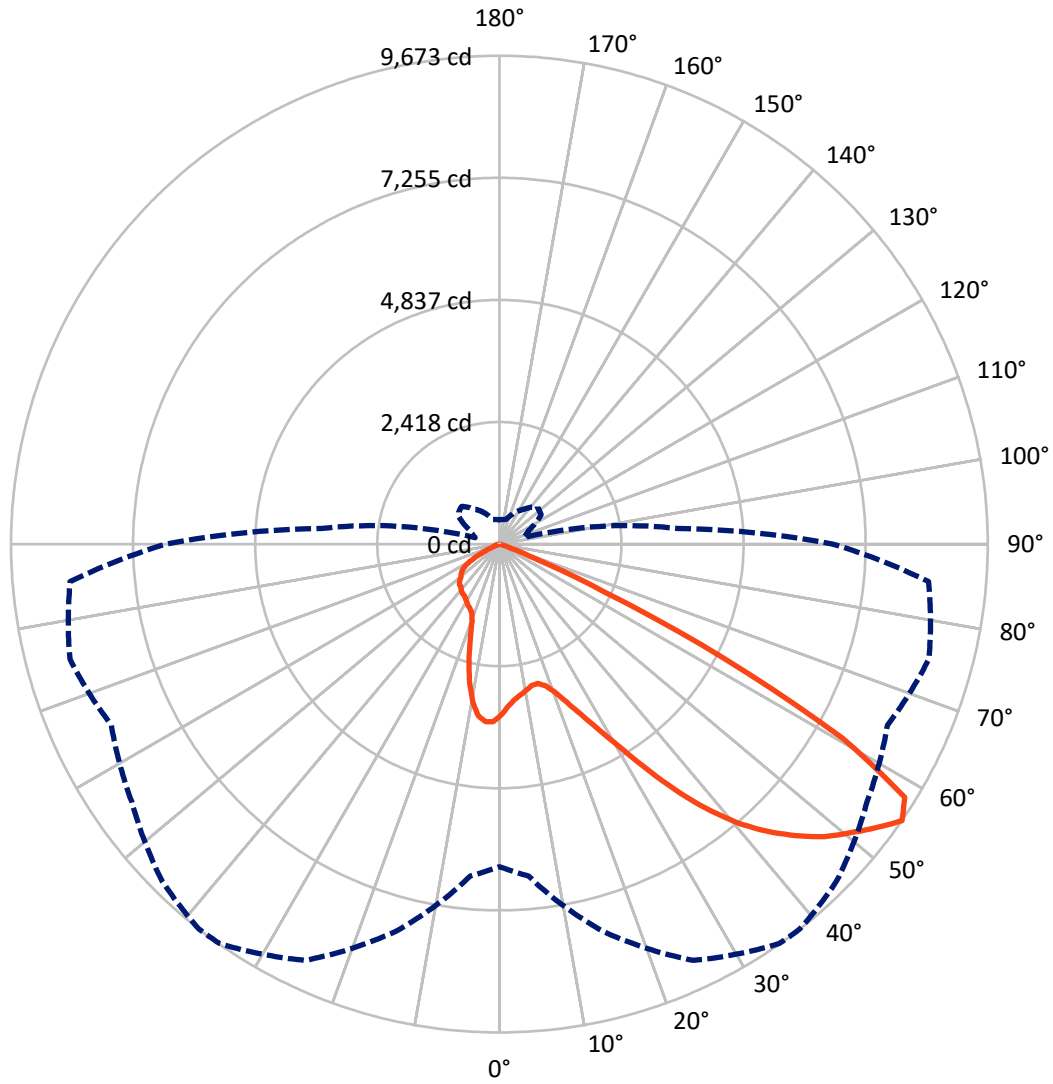
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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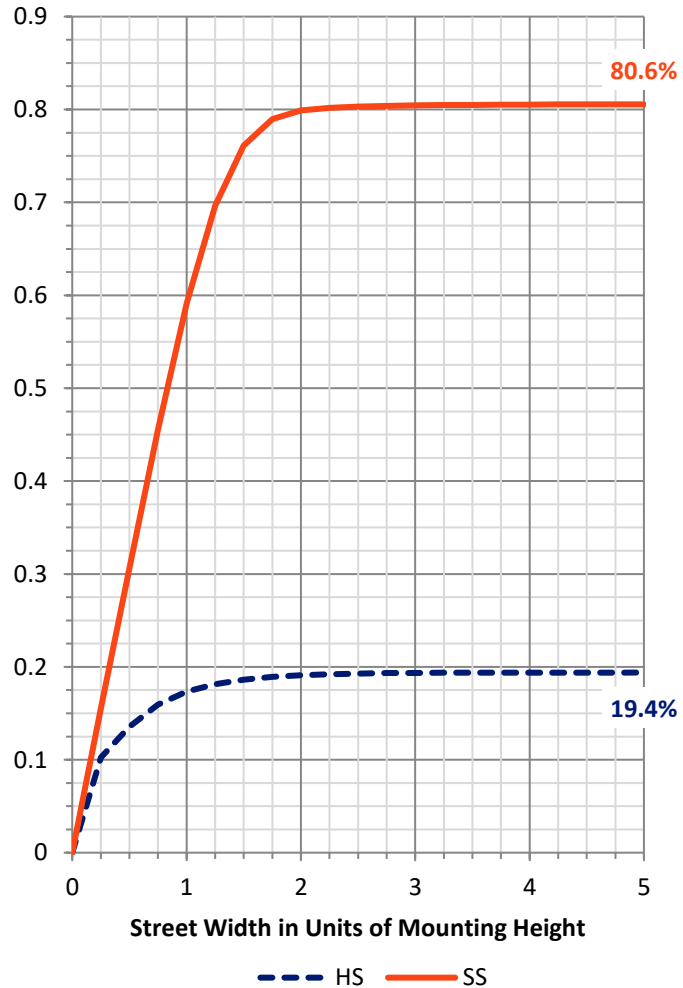
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2756.3	0.0	2756.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11390.9	0.0	11390.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14147.2	0.0	14147.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.7	2.2
10°-20°	844.5	6.0
20°-30°	1449.2	10.2
30°-40°	2403.6	17.0
40°-50°	3533.4	25.0
50°-60°	4128.9	29.2
60°-70°	1399.6	9.9
70°-80°	71.6	0.5
80°-90°	2.8	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°	14147.2	100.0
0°-180°	14147.2	100.0

**Coefficient of Utilization**



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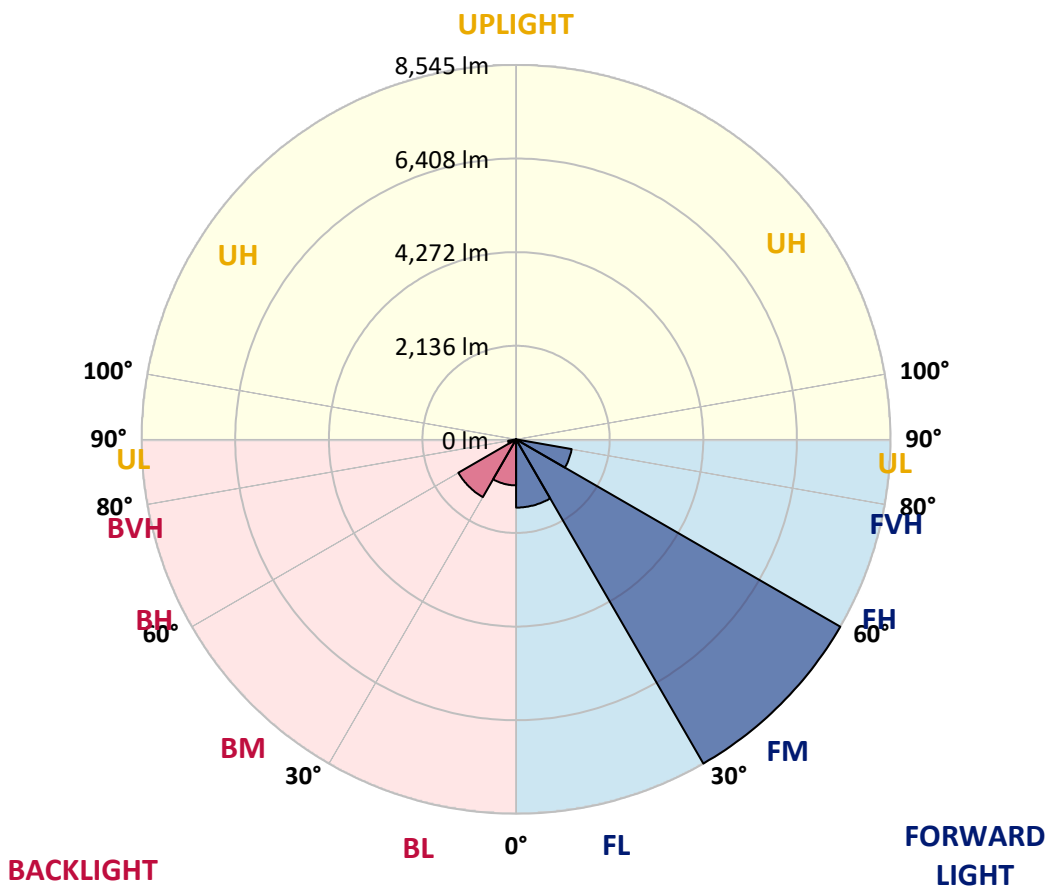
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.3	11.0			
FM (30°-60°)	8544.5	60.4			
FH (60°-80°)	1287.6	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1050.1	7.4	B3/2500		
BM (30°-60°)	1521.4	10.8	B2/2500		
BH (60°-80°)	183.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	38°	45°	55°	65°	75°	85°
0°	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6
2.5°	3159.7	3153.3	3166.2	3192.1	3216.3	3224.4	3248.7	3282.6	3303.7	3353.8	3394.2
5°	3017.4	3014.2	3027.1	3049.8	3082.1	3093.4	3130.6	3187.2	3243.8	3331.2	3416.9
7.5°	2888.1	2886.5	2905.9	2956.0	3002.9	3017.4	3062.7	3132.3	3208.3	3342.5	3468.6
10°	2718.3	2719.9	2757.1	2828.3	2914.0	2943.1	3015.8	3116.1	3214.7	3387.8	3562.4
12.5°	2663.3	2666.5	2685.9	2740.9	2834.7	2871.9	2973.8	3125.8	3251.9	3452.4	3683.7
15°	2797.5	2797.5	2781.4	2787.8	2829.9	2863.8	2970.6	3158.1	3315.0	3530.1	3803.3
17.5°	3057.9	3048.2	3007.7	2952.8	2938.2	2949.5	3035.2	3227.7	3403.9	3620.6	3939.2
20°	3410.4	3413.6	3334.4	3219.6	3127.4	3125.8	3177.5	3350.6	3531.7	3729.0	4086.3
22.5°	3837.3	3824.4	3719.3	3562.4	3402.3	3389.4	3410.4	3538.1	3716.0	3900.4	4267.4
25°	4332.1	4325.7	4176.9	3966.7	3754.8	3724.1	3724.1	3850.2	3979.6	4144.5	4484.1
27.5°	4849.6	4849.6	4705.7	4463.1	4181.7	4126.8	4118.7	4267.4	4353.1	4385.5	4666.9
30°	5381.6	5375.1	5232.8	4983.8	4683.0	4626.4	4603.8	4713.8	4775.2	4678.2	4894.9
32.5°	5921.7	5933.0	5789.1	5557.9	5289.4	5252.2	5182.7	5182.7	5232.8	5097.0	5253.9
35°	6502.2	6499.0	6385.8	6228.9	5999.3	5957.3	5842.5	5663.0	5739.0	5679.1	5750.3
37.5°	7014.8	7039.1	6984.1	6867.7	6681.7	6639.7	6450.5	6125.5	6183.7	6277.5	6340.5
40°	7535.5	7554.9	7609.9	7572.7	7338.3	7260.6	6924.3	6390.6	6455.3	6777.1	6958.2
42.5°	8046.5	8056.2	8167.8	8229.3	7915.5	7779.7	7283.3	6552.4	6620.3	7168.5	7485.4
45°	8371.6	8392.6	8576.9	8764.5	8424.9	8239.0	7595.4	6759.3	6788.4	7440.1	7875.1
47.5°	8358.6	8407.1	8753.2	9094.4	8863.1	8662.6	7970.5	7090.8	7042.3	7695.6	8132.2
50°	8098.3	8156.5	8652.9	9194.6	9178.5	8992.5	8387.7	7571.1	7419.1	7922.0	8164.6
52.5°	7558.2	7726.3	8476.7	9207.6	9432.4	9338.6	8903.6	8217.9	7928.5	8247.0	8216.3
55°	6390.6	6597.6	7941.4	9097.6	9662.0	9673.3	9445.3	8892.3	8481.5	8806.5	8534.9
57.5°	4851.2	5016.1	6112.5	8098.3	9282.0	9467.9	9655.5	9248.0	8822.7	9188.2	8609.3
60°	2923.7	3114.5	3827.6	5942.7	7496.7	7813.7	8549.4	8470.2	7957.6	8114.4	7060.1
62.5°	1185.3	1285.6	1767.5	3274.6	4718.6	5014.5	5719.6	5839.2	5713.1	5553.0	4282.0
65°	433.4	473.8	708.3	1353.5	2170.1	2278.4	2650.4	2862.2	3036.9	2585.7	1592.8
67.5°	268.4	294.3	460.9	695.3	789.1	734.1	747.1	891.0	850.6	525.5	284.6
70°	198.9	219.9	360.6	481.9	318.6	245.8	166.6	177.9	160.1	140.7	139.1
72.5°	137.5	156.9	270.1	284.6	122.9	87.3	61.4	85.7	97.0	95.4	98.6
75°	90.6	105.1	169.8	111.6	30.7	24.3	21.0	45.3	58.2	58.2	59.8
77.5°	53.4	61.4	59.8	22.6	6.5	6.5	4.9	8.1	12.9	14.6	17.8
80°	6.5	4.9	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.9	4.9
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.9	4.9
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°	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6	3392.6
2.5°	3424.9	3413.6	3460.5	3494.5	3522.0	3534.9	3517.1	3515.5	3515.5	3479.9	3470.2
5°	3465.4	3470.2	3536.5	3565.6	3570.5	3554.3	3513.9	3486.4	3470.2	3433.0	3412.0
7.5°	3543.0	3559.2	3622.2	3617.4	3573.7	3499.3	3392.6	3310.1	3256.8	3198.6	3163.0
10°	3654.6	3685.3	3724.1	3656.2	3517.1	3327.9	3108.0	2951.1	2857.4	2791.1	2750.6
12.5°	3790.4	3821.1	3808.2	3648.1	3358.6	3020.7	2737.7	2511.3	2403.0	2343.1	2301.1
15°	3927.9	3947.3	3863.2	3551.1	3078.9	2624.5	2309.2	2084.4	1951.8	1903.3	1867.7
17.5°	4068.5	4063.7	3872.9	3360.3	2705.4	2178.2	1867.7	1714.1	1676.9	1668.8	1665.6
20°	4215.7	4172.0	3834.1	3087.0	2255.8	1736.7	1560.5	1570.2	1638.1	1670.4	1676.9
22.5°	4383.9	4273.9	3737.0	2716.7	1796.6	1447.3	1465.1	1560.5	1652.6	1696.3	1702.8
25°	4563.4	4367.7	3575.3	2241.3	1416.6	1330.8	1436.0	1545.9	1644.6	1697.9	1704.4
27.5°	4681.4	4390.3	3310.1	1762.6	1216.0	1285.6	1397.1	1502.3	1604.1	1662.3	1670.4
30°	4809.2	4380.6	2949.5	1358.3	1148.1	1246.8	1343.8	1439.2	1533.0	1597.7	1604.1
32.5°	4996.7	4374.2	2509.7	1102.8	1120.6	1216.0	1287.2	1366.4	1431.1	1468.3	1463.4
35°	5242.5	4366.1	1997.1	994.5	1104.5	1191.8	1248.4	1285.6	1214.4	1191.8	1196.6
37.5°	5557.9	4385.5	1565.3	949.2	1099.6	1185.3	1233.8	1127.1	1017.1	975.1	968.6
40°	5907.1	4435.6	1193.4	931.4	1115.8	1201.5	1178.8	1002.6	866.7	784.3	766.5
42.5°	6258.0	4490.6	944.4	925.0	1143.3	1246.8	1088.3	912.0	708.3	661.4	654.9
45°	6518.4	4480.9	816.6	913.6	1167.5	1272.6	1064.0	782.7	632.3	611.3	612.9
47.5°	6649.4	4374.2	747.1	887.8	1177.2	1246.8	1004.2	729.3	580.5	603.2	622.6
50°	6579.8	4097.6	682.4	837.6	1156.2	1212.8	908.8	688.9	554.7	648.4	692.1
52.5°	6495.8	3758.1	611.3	760.0	1106.1	1165.9	871.6	677.6	538.5	625.8	658.1
55°	6607.3	3543.0	494.8	640.4	1007.4	1055.9	842.5	675.9	501.3	486.7	481.9
57.5°	6450.5	3114.5	354.1	460.9	773.0	836.0	821.5	664.6	444.7	443.1	449.5
60°	4985.4	1900.1	242.6	292.7	473.8	533.6	745.5	635.5	383.2	352.5	354.1
62.5°	2833.1	808.5	166.6	181.1	242.6	287.8	569.2	577.3	354.1	336.3	354.1
65°	986.4	289.5	129.4	121.3	134.2	153.6	326.6	446.3	321.8	291.1	294.3
67.5°	203.8	143.9	114.8	100.3	100.3	100.3	166.6	278.1	265.2	231.2	234.5
70°	129.4	122.9	100.3	85.7	82.5	76.0	95.4	153.6	182.7	168.2	169.8
72.5°	95.4	93.8	79.2	69.5	61.4	55.0	59.8	76.0	93.8	97.0	98.6
75°	58.2	59.8	51.7	43.7	38.8	34.0	35.6	35.6	35.6	32.3	35.6
77.5°	17.8	19.4	16.2	12.9	11.3	11.3	11.3	9.7	8.1	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.9	4.9	4.9	4.9	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.9	4.9	4.9	4.9	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	3.2	3.2	1.6	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)