

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: P639972

Luminaire Tested: GWS-SA5C-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

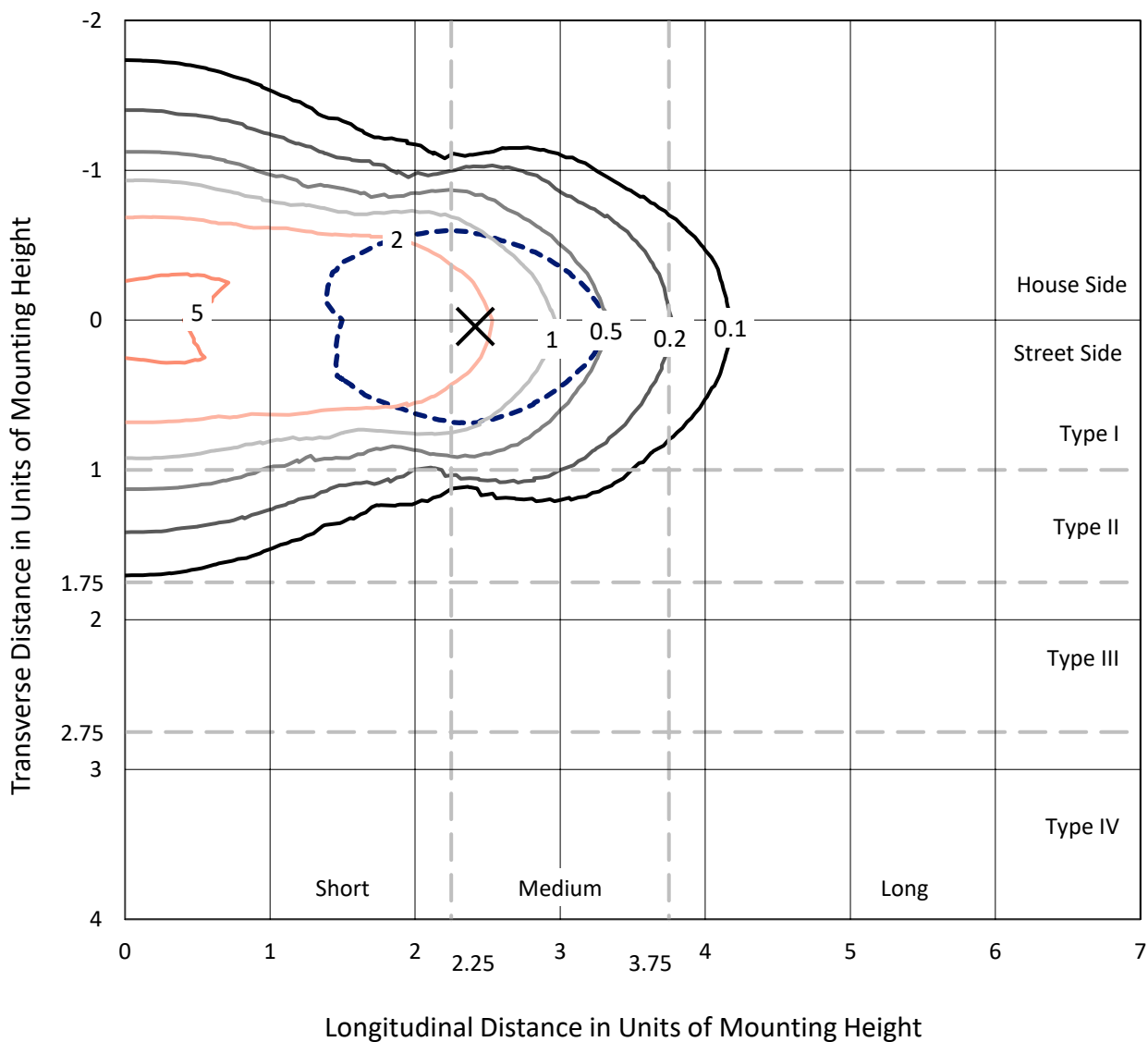
Lumens per Lamp: N/A  
Luminaire Lumens: 18881.8 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

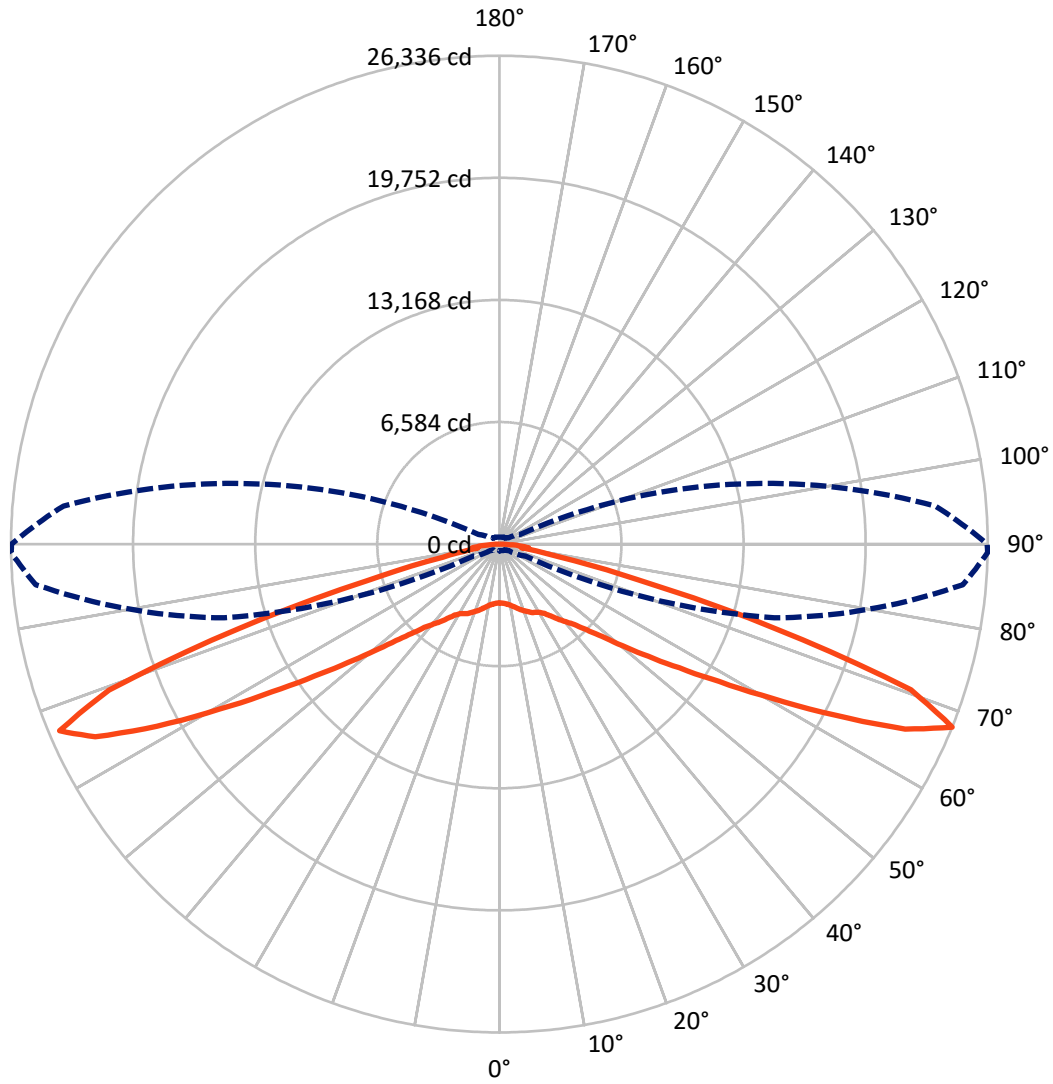
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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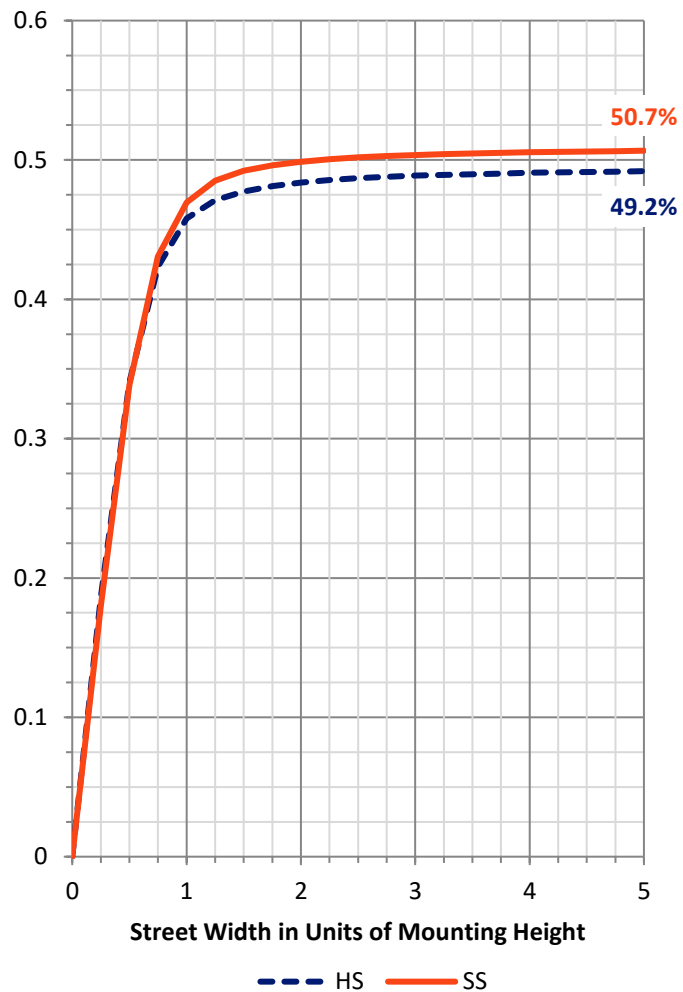
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9358.2	0.0	9358.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9523.6	0.0	9523.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	18881.8	0.0	18881.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.9	1.7
10°-20°	1035.1	5.5
20°-30°	1749.8	9.3
30°-40°	2401.4	12.7
40°-50°	3062.3	16.2
50°-60°	3842.1	20.3
60°-70°	4633.9	24.5
70°-80°	1676.4	8.9
80°-90°	163.0	0.9
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°	18881.8	100.0
0°-180°	18881.8	100.0

**Coefficient of Utilization**



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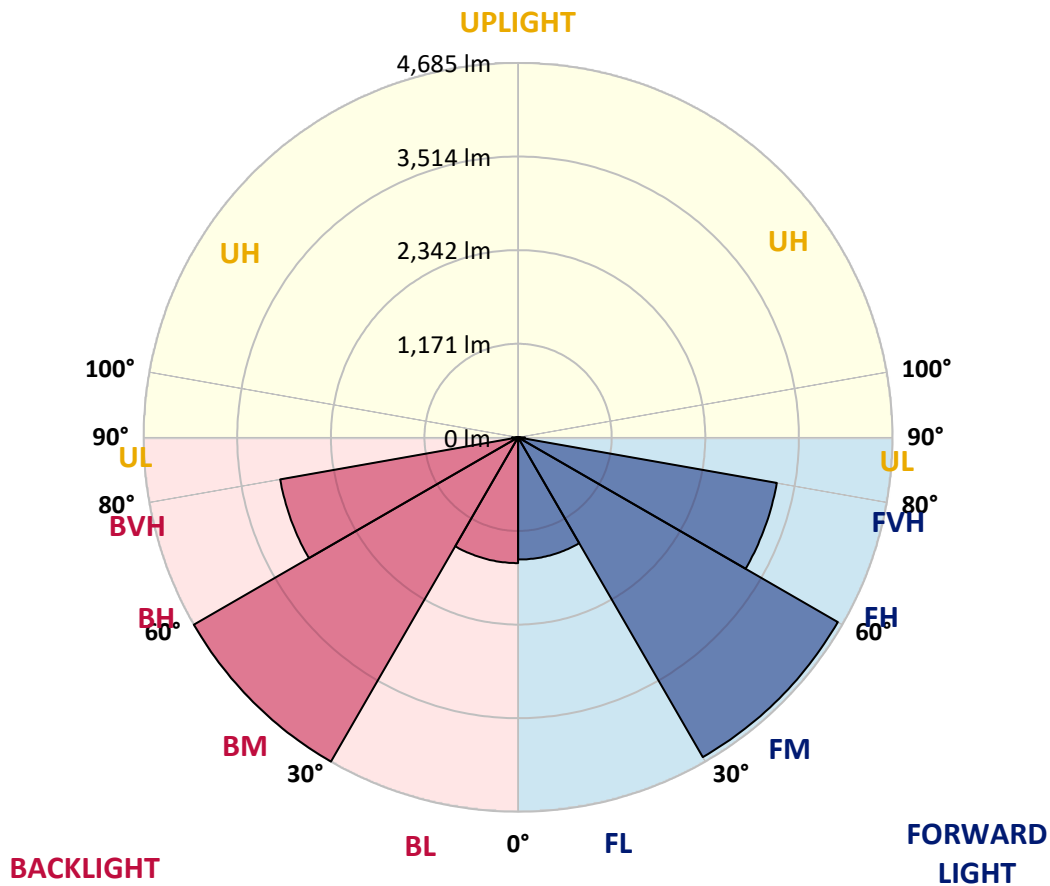
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.3	8.1			
FM (30°-60°)	4620.7	24.5			
FH (60°-80°)	3287.6	17.4			G2/5000
FVH (80°-90°)	86.0	0.5			G1/100
BL (0°-30°)	1573.5	8.3	B3/2500		
BM (30°-60°)	4685.0	24.8	B3/5000		
BH (60°-80°)	3022.7	16.0	B4/5000		G4/5000
BVH (80°-90°)	77.0	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 I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2
2.5°	3178.7	3175.9	3169.2	3189.5	3185.4	3186.8	3194.9	3189.5	3180.0	3163.7	3163.7	3186.8
5°	3268.2	3266.8	3251.9	3264.1	3250.5	3241.0	3239.7	3226.1	3215.3	3197.6	3197.6	3222.0
7.5°	3354.9	3353.6	3341.4	3363.1	3352.2	3341.4	3329.2	3302.1	3276.3	3250.5	3250.5	3277.6
10°	3421.4	3420.0	3417.3	3448.5	3451.2	3455.3	3449.9	3403.8	3359.0	3327.8	3327.8	3354.9
12.5°	3459.4	3463.4	3470.2	3527.2	3555.6	3582.8	3589.5	3551.6	3477.0	3432.2	3432.2	3464.8
15°	3433.6	3441.7	3475.6	3578.7	3657.3	3718.4	3744.1	3712.9	3616.7	3542.1	3542.1	3578.7
17.5°	3310.2	3317.0	3383.4	3540.7	3714.3	3855.3	3897.4	3878.4	3771.3	3680.4	3680.4	3715.7
20°	3139.3	3154.2	3226.1	3445.8	3704.8	3950.3	4062.8	4056.0	3939.4	3799.7	3799.7	3841.8
22.5°	2984.7	3002.4	3078.3	3321.0	3641.1	3974.7	4229.6	4247.2	4092.6	3919.1	3919.1	3953.0
25°	2811.2	2827.4	2925.1	3173.2	3531.2	3955.7	4372.0	4452.0	4266.2	4056.0	4056.0	4087.2
27.5°	2633.5	2645.7	2742.0	3006.4	3387.5	3920.4	4484.6	4677.1	4437.1	4151.0	4151.0	4172.7
30°	2477.6	2493.8	2582.0	2839.6	3230.2	3849.9	4576.8	4917.1	4633.7	4258.1	4258.1	4275.7
32.5°	2327.0	2340.6	2436.9	2675.5	3063.4	3741.4	4659.5	5199.2	4925.3	4457.4	4457.4	4457.4
35°	2137.2	2161.6	2270.1	2518.2	2906.1	3597.7	4719.2	5527.4	5324.0	4751.7	4751.7	4753.1
37.5°	1962.2	1975.8	2089.7	2340.6	2740.6	3434.9	4724.6	5867.8	5828.4	5126.0	5126.0	5128.7
40°	1762.9	1780.5	1902.6	2150.7	2550.8	3264.1	4673.1	6185.1	6357.3	5511.1	5511.1	5496.2
42.5°	1560.8	1586.6	1703.2	1946.0	2346.0	3055.2	4536.1	6487.5	7028.6	5957.3	5957.3	5920.6
45°	1365.6	1381.8	1498.5	1727.6	2111.4	2805.7	4316.4	6777.7	7825.9	6635.3	6635.3	6582.4
47.5°	1145.9	1152.7	1273.4	1493.0	1868.7	2527.7	4001.8	7036.7	8702.0	7533.0	7533.0	7442.2
50°	950.6	960.1	1055.0	1243.5	1571.7	2198.2	3609.9	7188.6	9818.0	8757.6	8757.6	8600.3
52.5°	768.9	778.4	854.3	1004.9	1299.1	1822.6	3124.4	7153.3	10950.3	10277.7	10277.7	10048.5
55°	621.1	627.9	679.4	797.4	1022.5	1449.6	2550.8	6837.4	12207.4	12263.0	12263.0	11769.4
57.5°	524.8	527.5	562.8	634.6	798.7	1117.4	1969.0	6091.5	13525.5	14796.2	14796.2	13985.2
60°	469.2	470.6	486.8	531.6	630.6	853.0	1442.9	4903.6	14891.1	17965.3	17965.3	16853.4
62.5°	433.9	433.9	447.5	473.3	523.4	656.3	1060.5	3521.7	15871.6	21413.9	21413.9	20308.6
65°	400.0	400.0	409.5	431.2	458.4	535.7	796.0	2271.4	16353.0	24296.9	24296.9	24051.4
67.5°	356.6	358.0	364.8	387.8	412.2	447.5	603.5	1536.4	15353.5	25094.3	25094.3	26336.4
70°	316.0	317.3	326.8	341.7	362.1	386.5	471.9	1059.1	11175.5	20899.9	20899.9	23548.3
72.5°	271.2	276.6	283.4	299.7	311.9	329.5	385.1	686.2	6502.4	13444.2	13444.2	15566.4
75°	222.4	229.2	237.3	253.6	261.7	268.5	317.3	489.5	3128.5	6812.9	6812.9	7758.1
77.5°	172.2	179.0	188.5	203.4	208.8	217.0	242.7	353.9	1498.5	3020.0	3020.0	3255.9
80°	115.3	118.0	126.1	143.7	153.2	158.7	179.0	241.4	650.9	1212.3	1212.3	1201.5
82.5°	70.5	71.9	74.6	85.4	89.5	94.9	116.6	147.8	310.5	1377.8	1377.8	1579.8
85°	25.8	24.4	23.1	29.8	35.3	40.7	54.2	74.6	135.6	946.5	946.5	1059.1
87.5°	0.0	0.0	0.0	1.4	2.7	2.7	5.4	10.8	32.5	353.9	353.9	242.7
90°	0.0	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°	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2
2.5°	3180.0	3165.1	3184.1	3197.6	3227.5	3238.3	3241.0	3231.5	3231.5	3215.3	3218.0
5°	3216.6	3207.1	3238.3	3261.4	3304.8	3321.0	3331.9	3325.1	3329.2	3318.3	3321.0
7.5°	3272.2	3264.1	3318.3	3363.1	3407.8	3426.8	3436.3	3430.9	3432.2	3418.7	3422.7
10°	3349.5	3352.2	3417.3	3475.6	3535.3	3554.3	3558.4	3542.1	3528.5	3504.1	3505.5
12.5°	3455.3	3468.9	3561.1	3626.2	3687.2	3714.3	3684.5	3624.8	3569.2	3527.2	3521.7
15°	3570.6	3595.0	3727.9	3810.6	3877.0	3863.5	3775.3	3641.1	3531.2	3468.9	3456.6
17.5°	3708.9	3745.5	3912.3	4011.3	4068.2	3981.4	3797.0	3596.3	3443.1	3359.0	3342.7
20°	3839.1	3897.4	4107.6	4236.4	4243.2	4047.9	3787.5	3505.5	3312.9	3209.8	3188.1
22.5°	3958.4	4033.0	4312.3	4476.4	4388.3	4077.7	3729.2	3376.6	3155.6	3034.9	3015.9
25°	4088.6	4194.4	4551.0	4704.2	4533.4	4065.5	3607.2	3216.6	2965.7	2842.3	2828.8
27.5°	4178.1	4311.0	4791.0	4937.5	4652.7	3996.4	3449.9	3041.7	2792.2	2675.5	2656.6
30°	4281.1	4450.7	5055.5	5191.1	4725.9	3894.7	3281.7	2879.0	2630.8	2504.7	2491.1
32.5°	4468.3	4681.2	5383.6	5459.6	4749.0	3768.5	3120.3	2721.7	2462.6	2336.5	2317.5
35°	4769.3	5018.9	5844.7	5759.3	4731.4	3630.2	2967.1	2537.2	2290.4	2172.4	2153.5
37.5°	5149.0	5459.6	6358.7	6029.1	4682.5	3478.3	2785.4	2382.6	2135.8	2016.5	2005.6
40°	5503.0	5885.4	6935.0	6262.4	4583.5	3291.2	2610.5	2221.3	1969.0	1842.9	1818.5
42.5°	5946.4	6454.9	7602.2	6464.4	4420.8	3067.5	2413.8	2021.9	1760.2	1646.3	1616.4
45°	6620.4	7252.3	8377.9	6658.4	4178.1	2792.2	2167.0	1779.2	1531.0	1414.4	1391.3
47.5°	7461.1	8249.0	9218.6	6773.6	3809.2	2502.0	1887.7	1522.9	1274.7	1143.2	1132.3
50°	8642.3	9698.7	10120.4	6753.3	3397.0	2157.5	1573.1	1217.8	1010.3	915.4	900.4
52.5°	10081.1	11518.5	11095.4	6509.2	2959.0	1765.6	1225.9	956.0	801.4	733.6	721.4
55°	11886.0	13697.8	12122.0	5985.7	2405.7	1352.0	962.8	754.0	648.2	607.5	602.1
57.5°	14120.9	16519.8	13110.6	5104.3	1809.0	1032.0	741.8	622.4	572.3	547.9	546.5
60°	17070.3	19515.3	13969.0	3966.5	1295.1	789.2	612.9	556.0	516.7	500.4	499.0
62.5°	20577.2	22235.6	14503.3	2701.3	973.7	629.2	539.7	504.5	481.4	471.9	470.6
65°	24181.6	23955.1	14248.3	1769.7	739.1	534.3	484.1	465.1	444.8	435.3	435.3
67.5°	26310.7	23591.7	12291.5	1228.6	585.8	469.2	436.7	419.0	385.1	377.0	377.0
70°	23304.2	19116.7	8056.5	899.1	474.6	410.9	379.7	355.3	341.7	333.6	332.2
72.5°	15413.2	12439.3	4283.9	623.8	396.0	349.9	321.4	311.9	295.6	287.5	286.1
75°	7671.3	6533.6	2195.5	450.2	329.5	280.7	268.5	264.4	250.9	240.0	237.3
77.5°	3197.6	2908.8	1023.8	326.8	250.9	226.5	215.6	215.6	200.7	188.5	183.1
80°	1205.6	1074.0	484.1	223.8	185.8	168.2	161.4	155.9	143.7	128.8	120.7
82.5°	1612.4	1053.7	237.3	139.7	122.0	108.5	99.0	94.9	88.1	81.4	75.9
85°	1044.2	748.6	107.1	71.9	61.0	46.1	40.7	38.0	33.9	29.8	27.1
87.5°	212.9	250.9	32.5	13.6	8.1	4.1	4.1	1.4	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)