

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: P637642

Luminaire Tested: GWS-SA4D-730-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

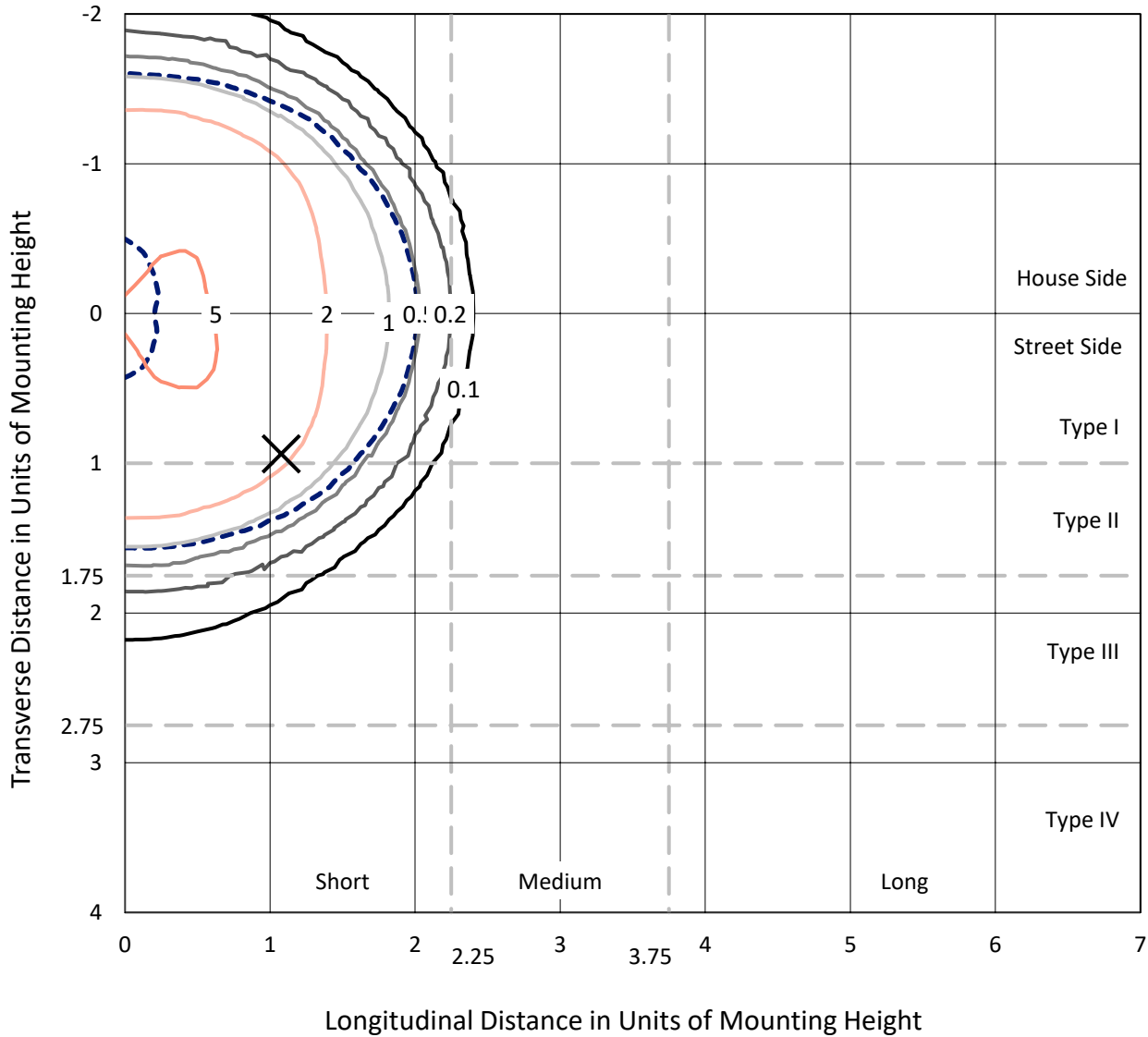
Lumens per Lamp: N/A  
Luminaire Lumens: 19658.3 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

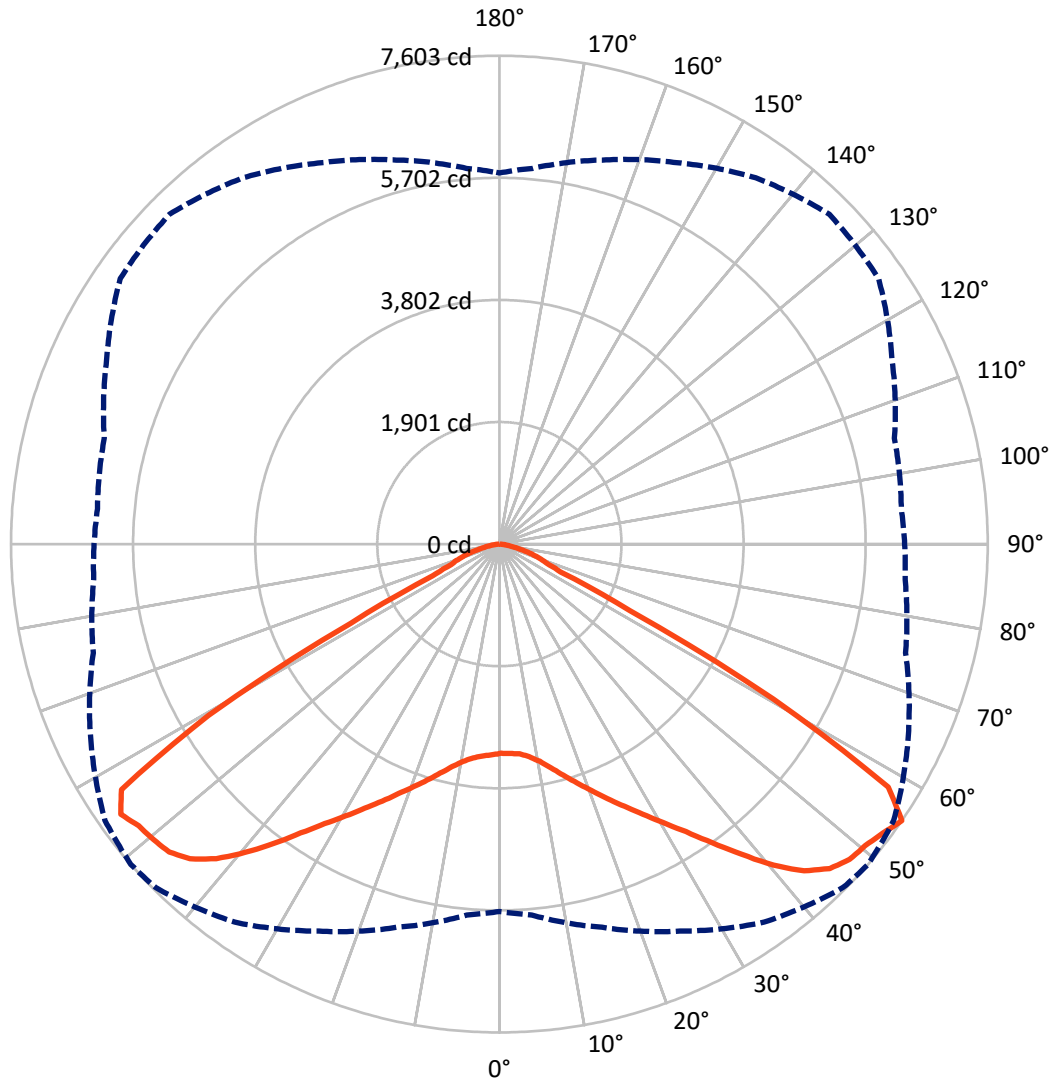
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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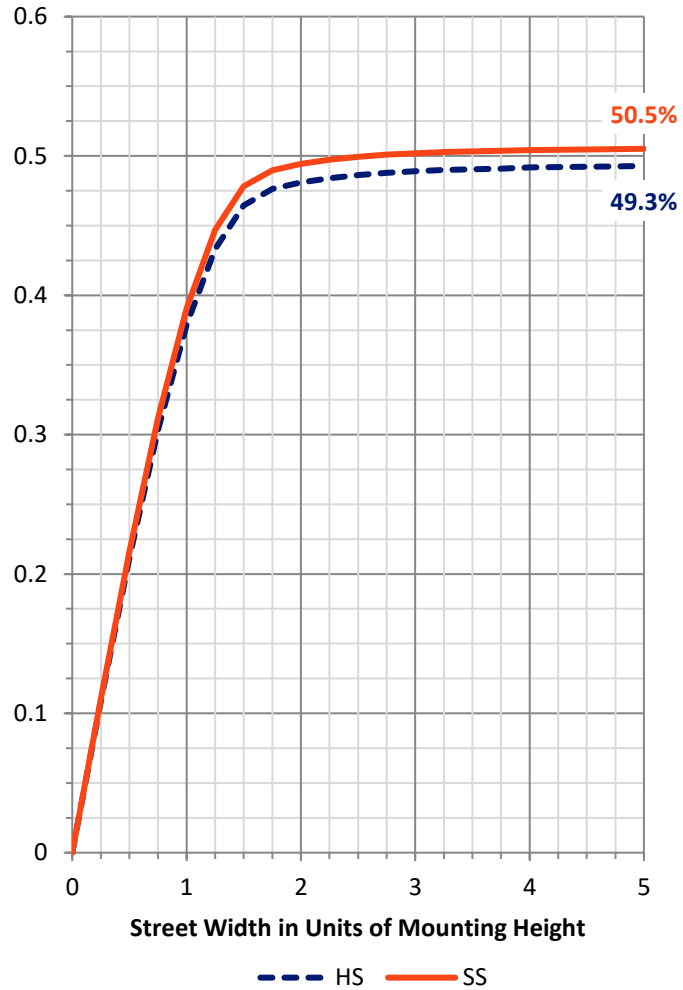
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9732.7	0.0	9732.7
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	9925.6	0.0	9925.6
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	19658.3	0.0	19658.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.7	1.6
10°-20°	1047.8	5.3
20°-30°	1995.8	10.2
30°-40°	3383.3	17.2
40°-50°	5091.6	25.9
50°-60°	5573.3	28.4
60°-70°	1762.3	9.0
70°-80°	423.0	2.2
80°-90°	63.5	0.3
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°	19658.3	100.0
0°-180°	19658.3	100.0

**Coefficient of Utilization**



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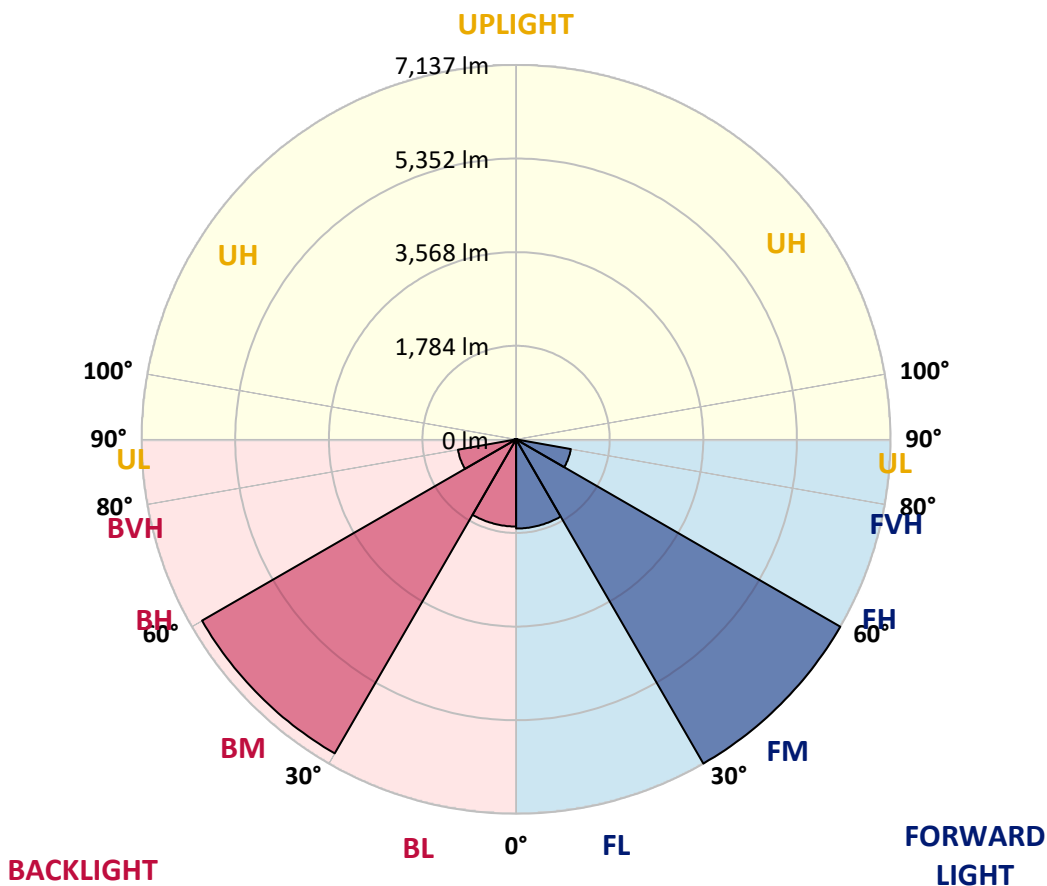
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.6	8.6			
FM (30°-60°)	7136.5	36.3			
FH (60°-80°)	1060.1	5.4			G1/1800
FVH (80°-90°)	29.4	0.1			G1/100
BL (0°-30°)	1661.7	8.5	B3/2500		
BM (30°-60°)	6911.8	35.2	B4/8500		
BH (60°-80°)	1125.2	5.7	B3/2500		G1/1800
BVH (80°-90°)	34.1	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3208.6	3211.8	3218.1	3229.3	3240.5	3256.5	3262.9	3270.9	3269.3	3278.9	3278.9
5°	3192.6	3197.4	3207.0	3222.9	3242.1	3272.5	3280.5	3299.7	3318.9	3342.8	3350.8
7.5°	3211.8	3218.1	3229.3	3254.9	3283.7	3323.7	3339.6	3371.6	3408.4	3451.6	3469.1
10°	3248.5	3256.5	3275.7	3317.3	3363.6	3424.4	3438.8	3478.7	3537.9	3597.0	3632.2
12.5°	3290.1	3302.9	3338.0	3403.6	3472.3	3552.3	3574.7	3624.2	3688.2	3764.9	3812.9
15°	3338.0	3349.2	3403.6	3496.3	3603.4	3708.9	3734.5	3782.5	3854.4	3929.6	3996.7
17.5°	3438.8	3458.0	3521.9	3629.0	3753.7	3878.4	3907.2	3961.5	4019.1	4078.2	4142.2
20°	3576.3	3592.2	3673.8	3806.5	3953.5	4067.0	4095.8	4143.8	4171.0	4201.3	4255.7
22.5°	3713.7	3736.1	3828.8	3985.5	4158.2	4281.3	4303.7	4348.4	4329.2	4319.6	4354.8
25°	3884.8	3915.2	4006.3	4177.4	4353.2	4505.1	4522.7	4561.0	4529.1	4479.5	4477.9
27.5°	4097.4	4124.6	4218.9	4394.8	4569.0	4727.3	4760.9	4812.0	4741.7	4680.9	4637.8
30°	4350.0	4367.6	4471.5	4658.6	4837.6	4987.9	5031.1	5082.2	5029.5	4928.7	4885.6
32.5°	4644.2	4668.2	4788.1	4984.7	5144.6	5294.8	5338.0	5401.9	5344.4	5230.9	5176.5
35°	4997.5	5021.5	5147.8	5362.0	5525.0	5680.1	5710.5	5763.3	5691.3	5560.2	5517.1
37.5°	5381.2	5411.5	5571.4	5774.4	5945.5	6126.2	6127.8	6143.7	6041.4	5878.4	5830.4
40°	5812.8	5852.8	6012.6	6223.7	6429.9	6577.0	6575.4	6530.6	6358.0	6105.4	6031.8
42.5°	6239.7	6271.6	6433.1	6650.5	6856.8	6995.8	6954.3	6845.6	6596.2	6252.4	6154.9
45°	6548.2	6572.2	6741.6	6986.2	7195.7	7282.0	7206.9	7075.8	6738.4	6345.2	6201.3
47.5°	6693.7	6725.7	6896.7	7139.7	7376.3	7425.9	7336.4	7213.3	6821.6	6431.5	6238.1
50°	6615.3	6656.9	6850.4	7075.8	7342.7	7445.1	7381.1	7258.0	6909.5	6516.2	6303.6
52.5°	6412.3	6452.3	6696.9	6970.3	7272.4	7475.4	7473.8	7373.1	7010.2	6540.2	6306.8
55°	5718.5	5796.8	6177.3	6648.9	7186.1	7565.0	7603.3	7496.2	7026.2	6546.6	6340.4
57.5°	3721.7	3859.2	4220.5	4834.4	5911.9	6880.7	7139.7	7165.3	6911.1	6519.4	6346.8
60°	1553.9	1664.2	1950.4	2358.1	3248.5	4401.2	4903.2	5406.7	6014.2	6234.9	6287.6
62.5°	965.6	975.2	1004.0	1096.7	1394.1	1956.8	2279.7	2751.3	3654.6	4423.6	4778.5
65°	871.3	876.1	882.5	876.1	890.5	959.2	1045.5	1210.2	1577.9	1960.0	2414.0
67.5°	767.4	773.8	778.6	773.8	778.6	781.8	791.3	805.7	872.9	927.2	968.8
70°	620.3	629.9	637.9	634.7	653.9	653.9	663.5	674.6	708.2	748.2	777.0
72.5°	473.2	465.2	474.8	478.0	495.6	505.2	519.6	532.4	570.7	594.7	631.5
75°	306.9	299.0	313.3	321.3	345.3	358.1	370.9	383.7	410.9	426.8	462.0
77.5°	166.3	164.7	179.1	190.2	215.8	231.8	241.4	251.0	273.4	278.2	300.6
80°	95.9	95.9	105.5	113.5	129.5	147.1	156.7	164.7	180.7	185.4	195.0
82.5°	52.8	52.8	57.6	62.3	75.1	84.7	92.7	99.1	113.5	118.3	123.1
85°	25.6	24.0	27.2	30.4	35.2	40.0	44.8	48.0	59.2	62.3	68.7
87.5°	3.2	3.2	3.2	4.8	6.4	9.6	11.2	11.2	17.6	20.8	24.0
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°	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5	3256.5
2.5°	3288.5	3267.7	3280.5	3285.3	3285.3	3280.5	3259.7	3253.3	3243.7	3229.3	3229.3
5°	3362.0	3346.0	3349.2	3341.2	3322.1	3298.1	3259.7	3240.5	3224.5	3207.0	3205.4
7.5°	3488.3	3467.5	3464.3	3434.0	3382.8	3331.7	3274.1	3238.9	3215.0	3192.6	3191.0
10°	3653.0	3633.8	3609.8	3549.1	3473.9	3398.8	3320.5	3272.5	3237.3	3205.4	3203.8
12.5°	3836.8	3814.5	3769.7	3680.2	3585.8	3512.3	3422.8	3349.2	3296.5	3253.3	3245.3
15°	4036.7	4004.7	3928.0	3822.5	3729.7	3651.4	3555.5	3450.0	3370.0	3301.3	3293.3
17.5°	4190.1	4148.6	4065.5	3966.3	3889.6	3811.3	3686.6	3553.9	3438.8	3352.4	3339.6
20°	4295.7	4262.1	4167.8	4094.2	4049.5	3980.7	3835.2	3685.0	3555.5	3446.8	3440.4
22.5°	4393.2	4353.2	4260.5	4217.3	4217.3	4171.0	4031.9	3854.4	3702.5	3576.3	3560.3
25°	4503.5	4460.3	4390.0	4385.2	4407.6	4386.8	4218.9	4028.7	3851.2	3708.9	3683.4
27.5°	4657.0	4609.0	4567.4	4596.2	4628.2	4605.8	4418.8	4198.1	4011.1	3867.2	3844.8
30°	4901.6	4842.4	4804.0	4839.2	4901.6	4836.0	4633.0	4399.6	4210.9	4052.7	4041.5
32.5°	5186.1	5119.0	5079.0	5135.0	5190.9	5088.6	4887.2	4663.4	4465.1	4298.9	4279.7
35°	5528.2	5443.5	5384.4	5459.5	5517.1	5416.3	5216.5	5003.9	4783.3	4610.6	4585.0
37.5°	5832.0	5729.7	5689.7	5795.2	5872.0	5806.4	5589.0	5389.2	5147.8	4959.1	4947.9
40°	6052.6	5951.9	5923.1	6097.4	6231.7	6215.7	6020.6	5792.0	5565.0	5347.6	5326.8
42.5°	6148.5	6078.2	6084.6	6319.6	6527.4	6629.7	6455.5	6210.9	5991.9	5766.4	5752.1
45°	6169.3	6126.2	6177.3	6471.5	6744.8	6954.3	6805.6	6601.0	6353.2	6135.7	6129.3
47.5°	6191.7	6167.7	6246.1	6557.8	6882.3	7125.3	7042.2	6831.2	6580.2	6367.6	6351.6
50°	6244.5	6234.9	6322.8	6618.5	6947.9	7171.7	7077.4	6867.9	6610.6	6401.1	6362.8
52.5°	6260.4	6244.5	6370.8	6712.9	7056.6	7170.1	6967.1	6693.7	6434.7	6201.3	6161.3
55°	6310.0	6281.2	6367.6	6748.0	7206.9	7262.8	6960.7	6551.4	6190.1	5872.0	5777.6
57.5°	6322.8	6290.8	6346.8	6690.5	7043.8	6994.2	6118.2	5286.8	4605.8	4252.5	4292.5
60°	6254.0	6263.6	6167.7	6129.3	5649.7	4987.9	3745.7	2994.3	2351.7	2079.9	2139.0
62.5°	4760.9	4800.8	4473.1	3889.6	2991.1	2370.8	1568.3	1218.2	1031.2	983.2	991.2
65°	2402.8	2457.2	2116.7	1750.6	1301.3	1051.9	909.7	880.9	871.3	860.1	860.1
67.5°	951.2	967.2	954.4	893.7	831.3	808.9	802.5	799.3	788.2	781.8	783.4
70°	764.2	777.0	757.8	719.4	693.8	692.2	689.0	682.6	674.6	674.6	679.4
72.5°	623.5	636.3	609.1	585.1	565.9	551.5	543.6	538.8	527.6	527.6	532.4
75°	458.8	466.8	444.4	441.2	420.5	406.1	393.3	386.9	372.5	366.1	370.9
77.5°	305.3	303.7	292.6	292.6	284.6	267.0	252.6	238.2	219.0	206.2	209.4
80°	198.2	198.2	193.4	193.4	185.4	171.1	153.5	139.1	127.9	118.3	118.3
82.5°	126.3	124.7	123.1	121.5	118.3	103.9	91.1	81.5	73.5	67.1	68.7
85°	70.3	70.3	67.1	67.1	60.7	52.8	46.4	40.0	35.2	33.6	33.6
87.5°	24.0	24.0	22.4	22.4	19.2	14.4	11.2	9.6	8.0	6.4	8.0
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)