

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: P640007

Luminaire Tested: GWS-SA5D-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640007  
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-SA5D-722-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

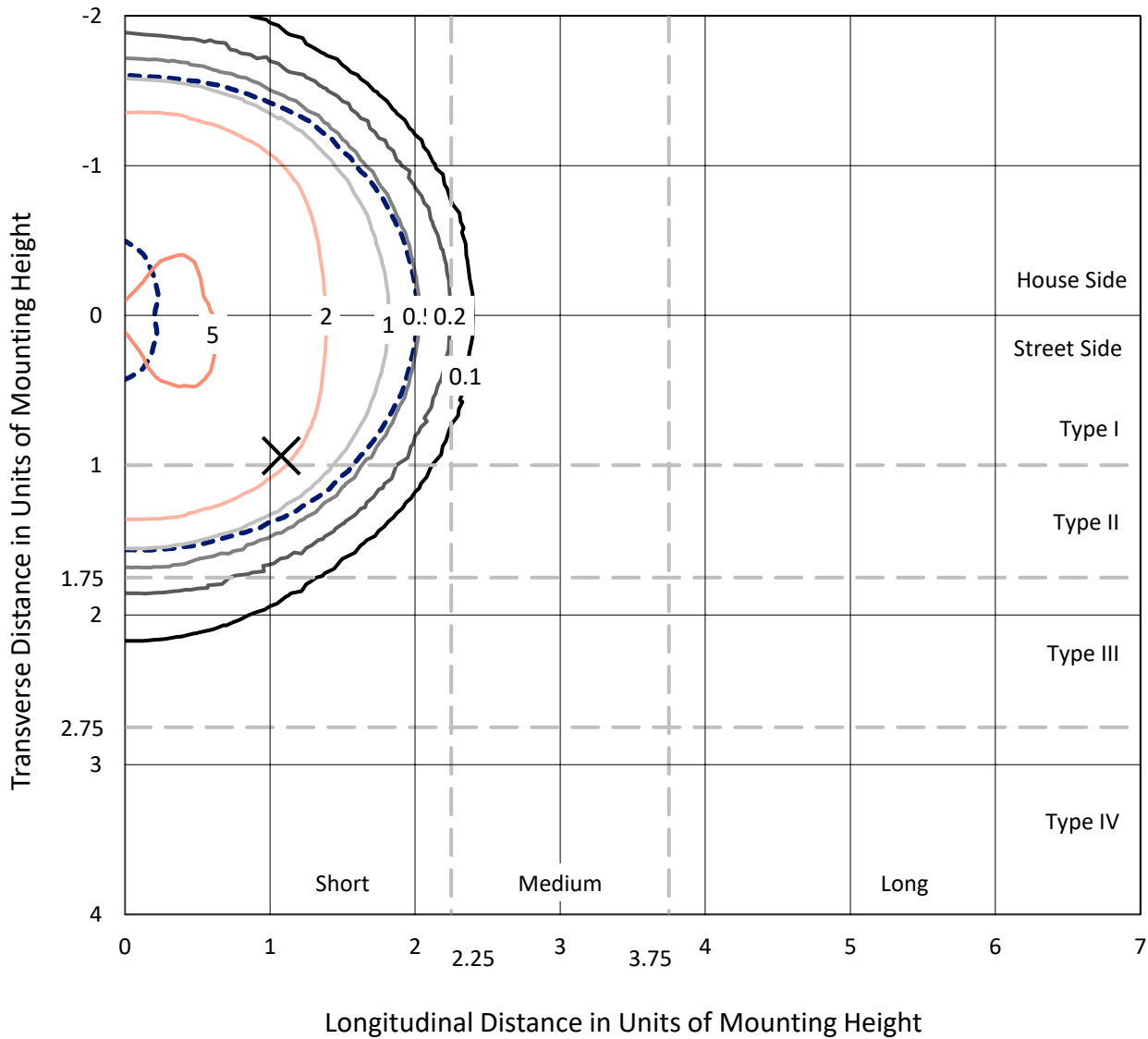
Lumens per Lamp: N/A  
Luminaire Lumens: 19506.7 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

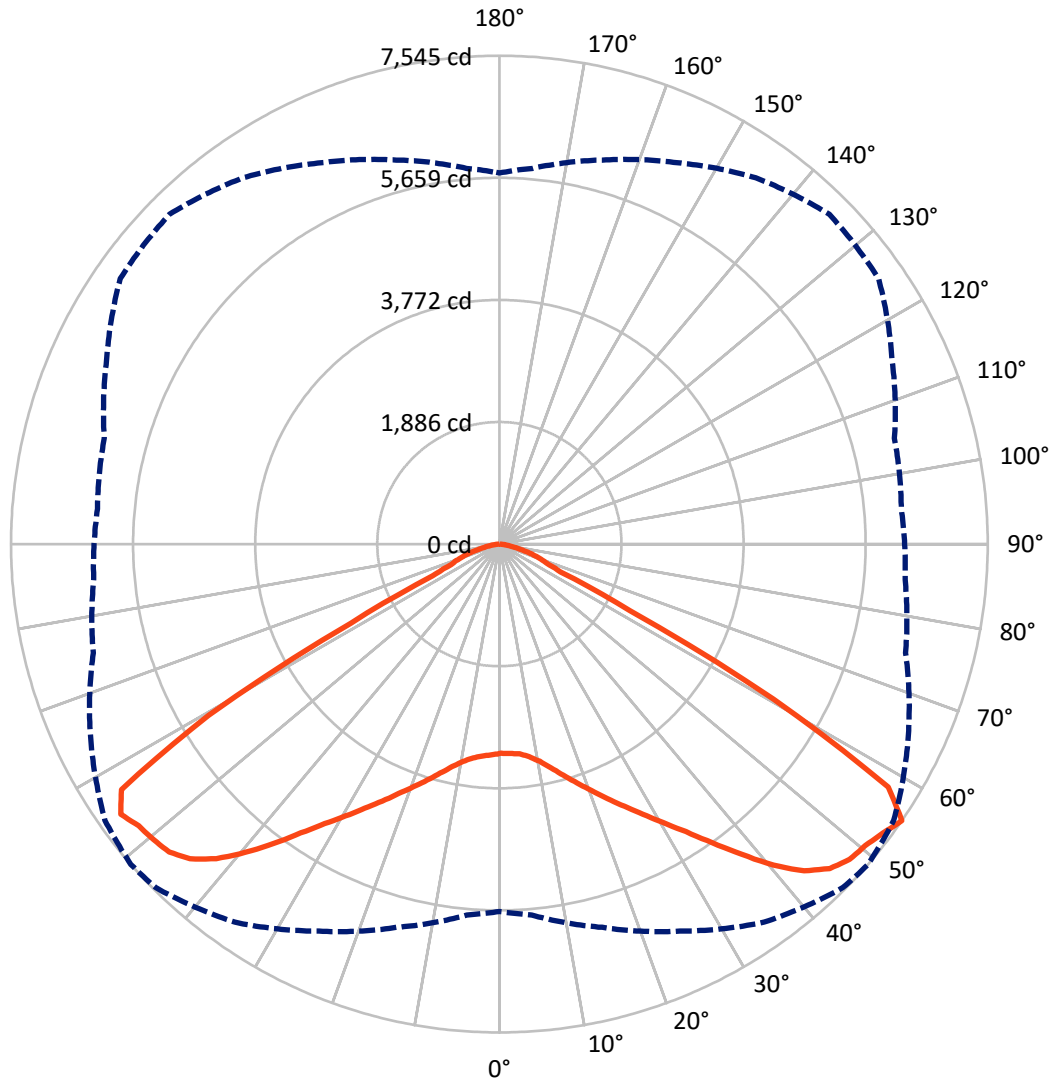
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	9657.7	0.0	9657.7
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	9849.0	0.0	9849.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	19506.7	0.0	19506.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.2	1.6
10°-20°	1039.7	5.3
20°-30°	1980.4	10.2
30°-40°	3357.2	17.2
40°-50°	5052.4	25.9
50°-60°	5530.3	28.4
60°-70°	1748.7	9.0
70°-80°	419.7	2.2
80°-90°	63.0	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°	19506.7	100.0
0°-180°	19506.7	100.0

**Coefficient of Utilization**



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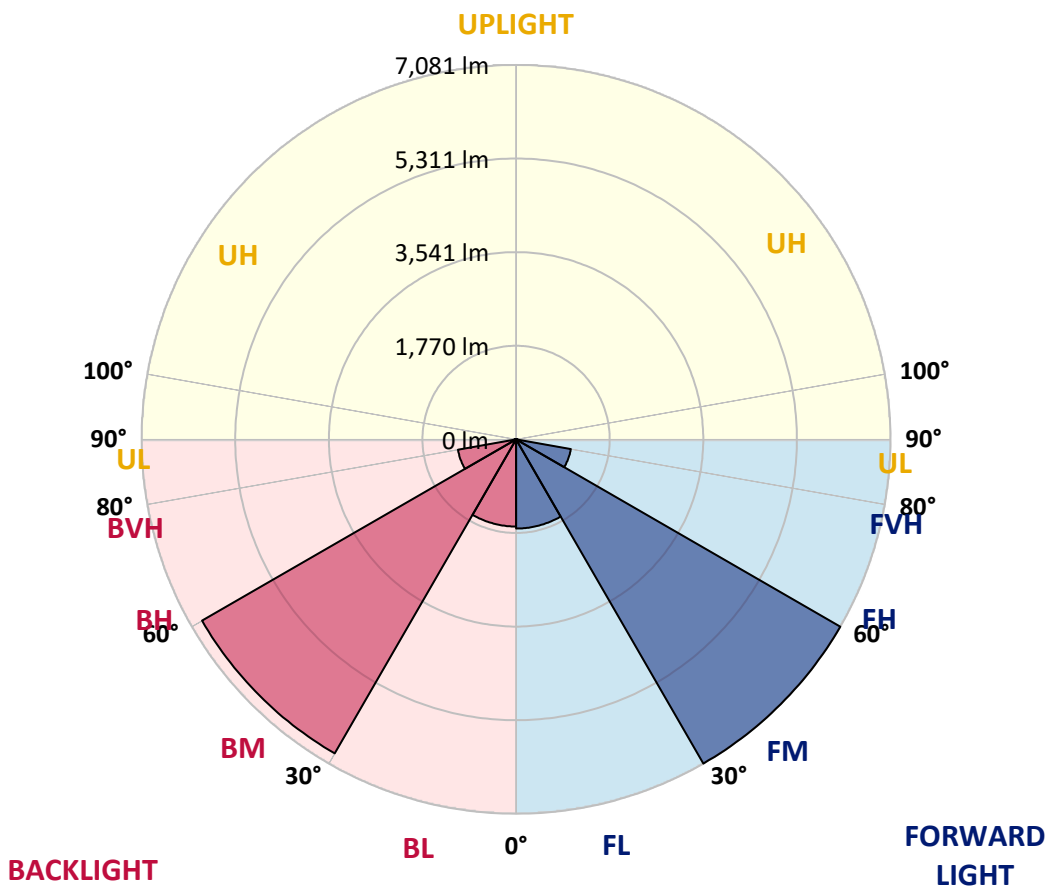
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.5	8.6			
FM (30°-60°)	7081.5	36.3			
FH (60°-80°)	1051.9	5.4			G1/1800
FVH (80°-90°)	29.2	0.1			G1/100
BL (0°-30°)	1648.9	8.5	B3/2500		
BM (30°-60°)	6858.5	35.2	B4/8500		
BH (60°-80°)	1116.5	5.7	B3/2500		G1/1800
BVH (80°-90°)	33.8	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°	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4
2.5°	3183.8	3187.0	3193.3	3204.4	3215.5	3231.4	3237.7	3245.7	3244.1	3253.6	3253.6
5°	3167.9	3172.7	3182.2	3198.1	3217.1	3247.3	3255.2	3274.2	3293.3	3317.1	3325.0
7.5°	3187.0	3193.3	3204.4	3229.8	3258.4	3298.0	3313.9	3345.6	3382.1	3424.9	3442.4
10°	3223.5	3231.4	3250.4	3291.7	3337.7	3398.0	3412.2	3451.9	3510.6	3569.3	3604.2
12.5°	3264.7	3277.4	3312.3	3377.3	3445.6	3524.9	3547.1	3596.3	3659.7	3735.9	3783.5
15°	3312.3	3323.4	3377.3	3469.4	3575.6	3680.3	3705.7	3753.3	3824.7	3899.3	3965.9
17.5°	3412.2	3431.3	3494.7	3601.0	3724.8	3848.5	3877.0	3931.0	3988.1	4046.8	4110.2
20°	3548.7	3564.5	3645.4	3777.1	3923.1	4035.7	4064.2	4111.8	4138.8	4168.9	4222.9
22.5°	3685.1	3707.3	3799.3	3954.8	4126.1	4248.3	4270.5	4314.9	4295.8	4286.3	4321.2
25°	3854.8	3885.0	3975.4	4145.1	4319.6	4470.3	4487.8	4525.9	4494.1	4445.0	4443.4
27.5°	4065.8	4092.8	4186.4	4360.9	4533.8	4690.8	4724.2	4774.9	4705.1	4644.8	4602.0
30°	4316.5	4333.9	4437.0	4622.6	4800.3	4949.4	4992.3	5043.0	4990.7	4890.7	4847.9
32.5°	4608.4	4632.2	4751.1	4946.3	5104.9	5254.0	5296.8	5360.3	5303.2	5190.6	5136.6
35°	4958.9	4982.7	5108.1	5320.6	5482.4	5636.3	5666.5	5718.8	5647.4	5517.3	5474.5
37.5°	5339.7	5369.8	5528.4	5729.9	5899.7	6078.9	6080.5	6096.4	5994.8	5833.0	5785.4
40°	5768.0	5807.6	5966.3	6175.7	6380.3	6526.3	6524.7	6480.3	6308.9	6058.3	5985.3
42.5°	6191.5	6223.3	6383.5	6599.2	6803.9	6941.9	6900.6	6792.8	6545.3	6204.2	6107.5
45°	6497.7	6521.5	6689.7	6932.4	7140.2	7225.8	7151.3	7021.2	6686.5	6296.2	6153.5
47.5°	6642.1	6673.8	6843.5	7084.7	7319.4	7368.6	7279.8	7157.6	6769.0	6381.9	6190.0
50°	6564.3	6605.6	6797.5	7021.2	7286.1	7387.7	7324.2	7202.0	6856.2	6466.0	6255.0
52.5°	6362.9	6402.5	6645.2	6916.5	7216.3	7417.8	7416.2	7316.3	6956.2	6489.8	6258.2
55°	5674.4	5752.1	6129.7	6597.6	7130.7	7506.6	7544.7	7438.4	6972.0	6496.1	6291.5
57.5°	3693.0	3829.5	4188.0	4797.1	5866.3	6827.7	7084.7	7110.0	6857.8	6469.2	6297.8
60°	1541.9	1651.4	1935.4	2339.9	3223.5	4367.2	4865.3	5365.0	5967.9	6186.8	6239.1
62.5°	958.2	967.7	996.2	1088.2	1383.3	1941.7	2262.1	2730.1	3626.4	4389.4	4741.6
65°	864.6	869.3	875.7	869.3	883.6	951.8	1037.5	1200.9	1565.7	1944.9	2395.4
67.5°	761.4	767.8	772.6	767.8	772.6	775.7	785.2	799.5	866.1	920.1	961.3
70°	615.5	625.0	633.0	629.8	648.8	648.8	658.3	669.4	702.8	742.4	771.0
72.5°	469.6	461.6	471.1	474.3	491.8	501.3	515.6	528.3	566.3	590.1	626.6
75°	304.6	296.6	310.9	318.9	342.7	355.3	368.0	380.7	407.7	423.6	458.5
77.5°	165.0	163.4	177.7	188.8	214.2	230.0	239.5	249.1	271.3	276.0	298.2
80°	95.2	95.2	104.7	112.6	128.5	145.9	155.5	163.4	179.3	184.0	193.5
82.5°	52.3	52.3	57.1	61.9	74.6	84.1	92.0	98.4	112.6	117.4	122.1
85°	25.4	23.8	27.0	30.1	34.9	39.7	44.4	47.6	58.7	61.9	68.2
87.5°	3.2	3.2	3.2	4.8	6.3	9.5	11.1	11.1	17.4	20.6	23.8
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°	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4	3231.4
2.5°	3263.1	3242.5	3255.2	3260.0	3260.0	3255.2	3234.6	3228.2	3218.7	3204.4	3204.4
5°	3336.1	3320.2	3323.4	3315.5	3296.4	3272.6	3234.6	3215.5	3199.7	3182.2	3180.6
7.5°	3461.4	3440.8	3437.6	3407.5	3356.7	3306.0	3248.9	3214.0	3190.2	3167.9	3166.4
10°	3624.8	3605.8	3582.0	3521.7	3447.1	3372.6	3294.9	3247.3	3212.4	3180.6	3179.1
12.5°	3807.2	3785.0	3740.6	3651.8	3558.2	3485.2	3396.4	3323.4	3271.1	3228.2	3220.3
15°	4005.5	3973.8	3897.7	3793.0	3701.0	3623.2	3528.1	3423.4	3344.0	3275.8	3267.9
17.5°	4157.8	4116.6	4034.1	3935.7	3859.6	3781.9	3658.1	3526.5	3412.2	3326.6	3313.9
20°	4262.5	4229.2	4135.6	4062.7	4018.2	3950.0	3805.7	3656.5	3528.1	3420.2	3413.8
22.5°	4359.3	4319.6	4227.6	4184.8	4184.8	4138.8	4000.8	3824.7	3674.0	3548.7	3532.8
25°	4468.8	4425.9	4356.1	4351.4	4373.6	4353.0	4186.4	3997.6	3821.5	3680.3	3655.0
27.5°	4621.0	4573.5	4532.2	4560.8	4592.5	4570.3	4384.7	4165.8	3980.2	3837.4	3815.2
30°	4863.8	4805.1	4767.0	4801.9	4863.8	4798.7	4597.3	4365.6	4178.5	4021.4	4010.3
32.5°	5146.1	5079.5	5039.8	5095.4	5150.9	5049.4	4849.5	4627.4	4430.7	4265.7	4246.7
35°	5485.6	5401.5	5342.8	5417.4	5474.5	5374.6	5176.3	4965.3	4746.4	4575.0	4549.7
37.5°	5787.0	5685.5	5645.8	5750.5	5826.7	5761.6	5545.9	5347.6	5108.1	4920.9	4909.8
40°	6005.9	5906.0	5877.4	6050.4	6183.6	6167.7	5974.2	5747.4	5522.1	5306.4	5285.7
42.5°	6101.1	6031.3	6037.7	6270.9	6477.1	6578.6	6405.7	6163.0	5945.7	5722.0	5707.7
45°	6121.7	6078.9	6129.7	6421.6	6692.8	6900.6	6753.1	6550.1	6304.2	6088.4	6082.1
47.5°	6143.9	6120.2	6197.9	6507.2	6829.3	7070.4	6987.9	6778.5	6529.4	6318.4	6302.6
50°	6196.3	6186.8	6274.0	6567.5	6894.3	7116.4	7022.8	6815.0	6559.6	6351.8	6313.7
52.5°	6212.2	6196.3	6321.6	6661.1	7002.2	7114.8	6913.3	6642.1	6385.1	6153.5	6113.8
55°	6261.3	6232.8	6318.4	6696.0	7151.3	7206.8	6907.0	6500.9	6142.4	5826.7	5733.1
57.5°	6274.0	6242.3	6297.8	6638.9	6989.5	6940.3	6071.0	5246.1	4570.3	4219.7	4259.4
60°	6205.8	6215.3	6120.2	6082.1	5606.2	4949.4	3716.8	2971.2	2333.5	2063.8	2122.5
62.5°	4724.2	4763.8	4438.6	3859.6	2968.1	2352.6	1556.2	1208.8	1023.2	975.6	983.5
65°	2384.3	2438.2	2100.3	1737.1	1291.3	1043.8	902.6	874.1	864.6	853.5	853.5
67.5°	943.9	959.7	947.1	886.8	824.9	802.7	796.3	793.2	782.1	775.7	777.3
70°	758.3	771.0	751.9	713.9	688.5	686.9	683.7	677.4	669.4	669.4	674.2
72.5°	618.7	631.4	604.4	580.6	561.6	547.3	539.4	534.6	523.5	523.5	528.3
75°	455.3	463.2	441.0	437.8	417.2	402.9	390.2	383.9	369.6	363.3	368.0
77.5°	303.0	301.4	290.3	290.3	282.4	264.9	250.6	236.4	217.3	204.6	207.8
80°	196.7	196.7	191.9	191.9	184.0	169.7	152.3	138.0	126.9	117.4	117.4
82.5°	125.3	123.7	122.1	120.6	117.4	103.1	90.4	80.9	73.0	66.6	68.2
85°	69.8	69.8	66.6	66.6	60.3	52.3	46.0	39.7	34.9	33.3	33.3
87.5°	23.8	23.8	22.2	22.2	19.0	14.3	11.1	9.5	7.9	6.3	7.9
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)