

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: P640173

Luminaire Tested: GWS-SA5D-735-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

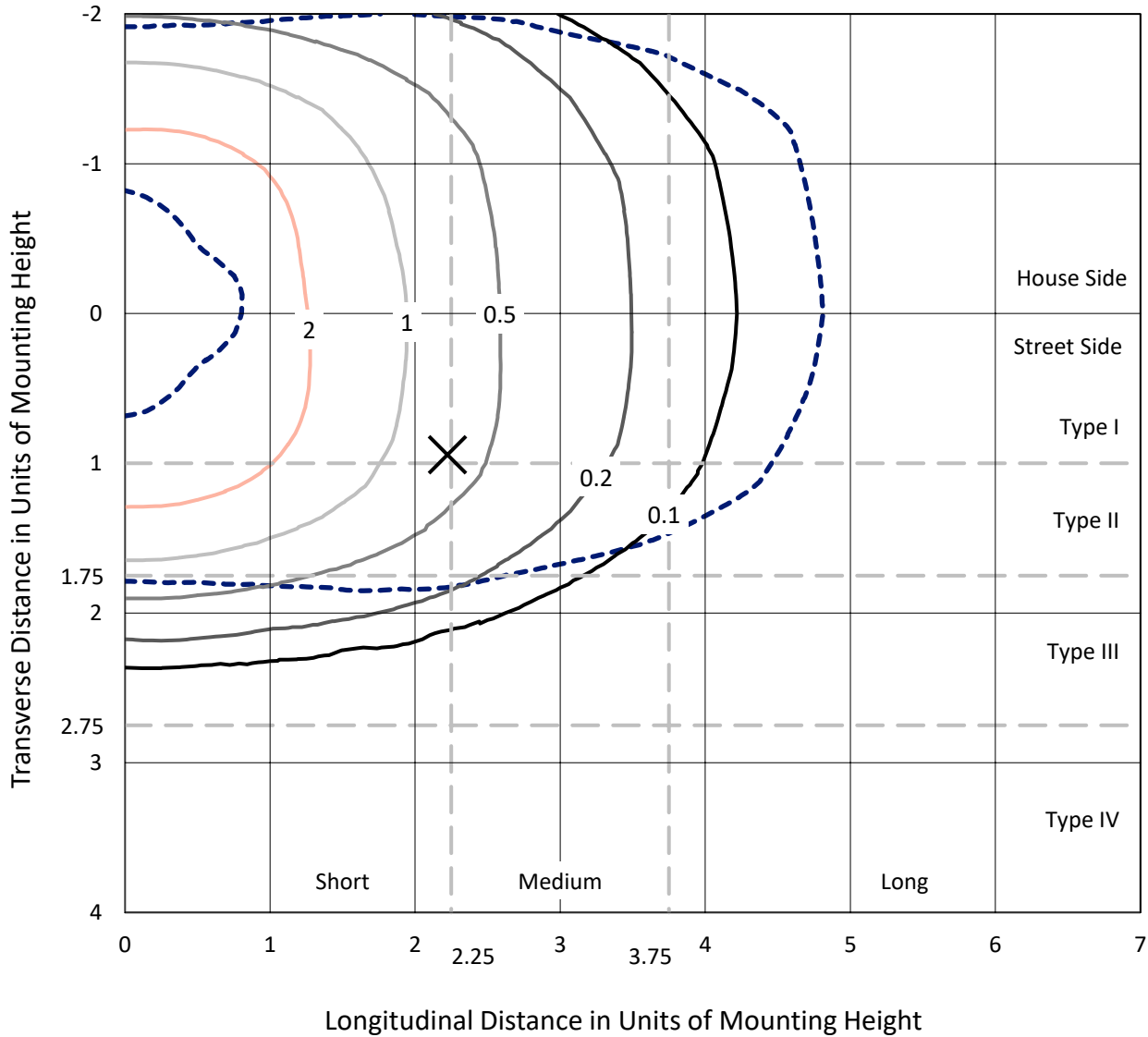
Lumens per Lamp: N/A  
Luminaire Lumens: 30501.1 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

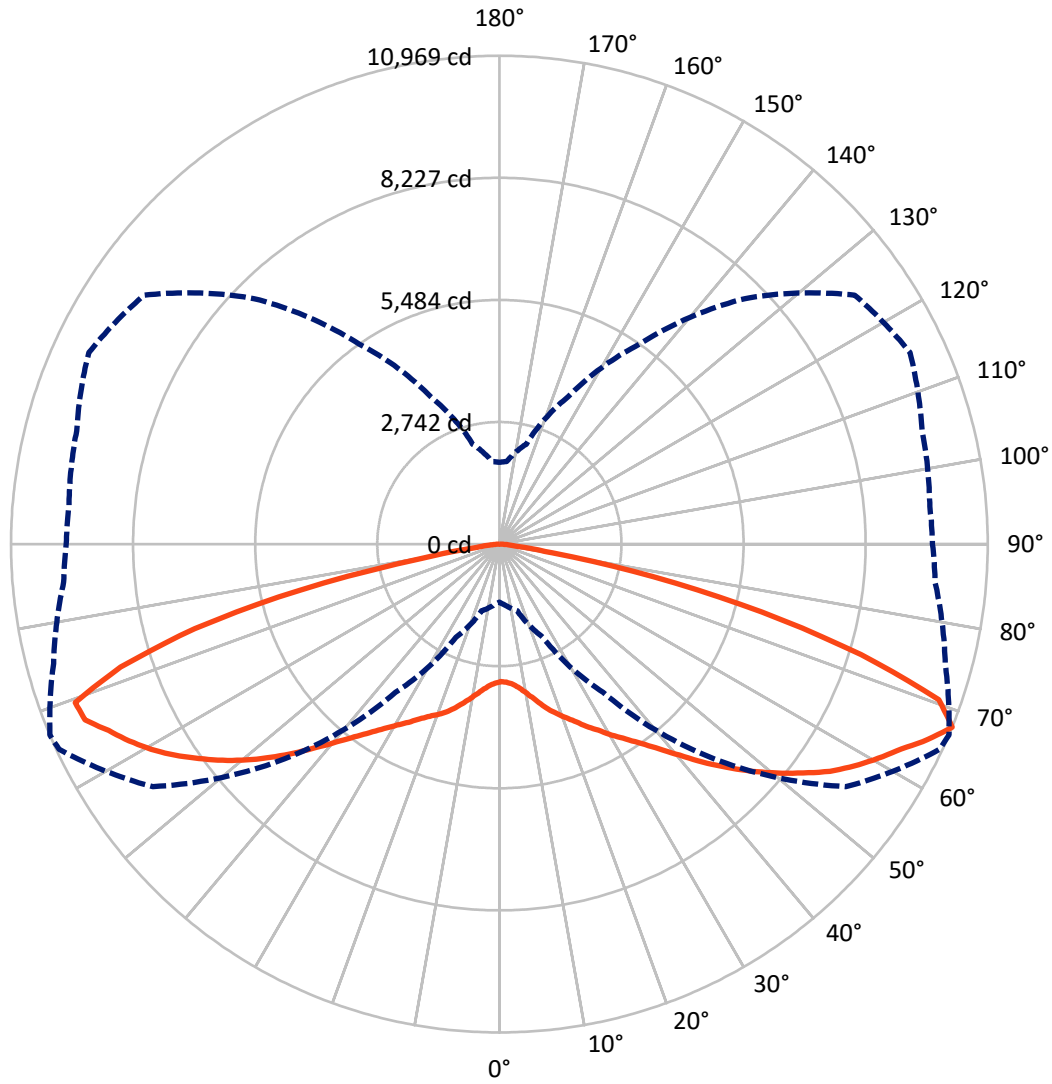
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15082.2	0.0	15082.2
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	15418.9	0.0	15418.9
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	30501.1	0.0	30501.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.0	1.0
10°-20°	1023.7	3.4
20°-30°	2008.5	6.6
30°-40°	3421.8	11.2
40°-50°	5494.7	18.0
50°-60°	7466.1	24.5
60°-70°	7141.8	23.4
70°-80°	3395.5	11.1
80°-90°	246.1	0.8
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°	30501.1	100.0
0°-180°	30501.1	100.0

**Coefficient of Utilization**



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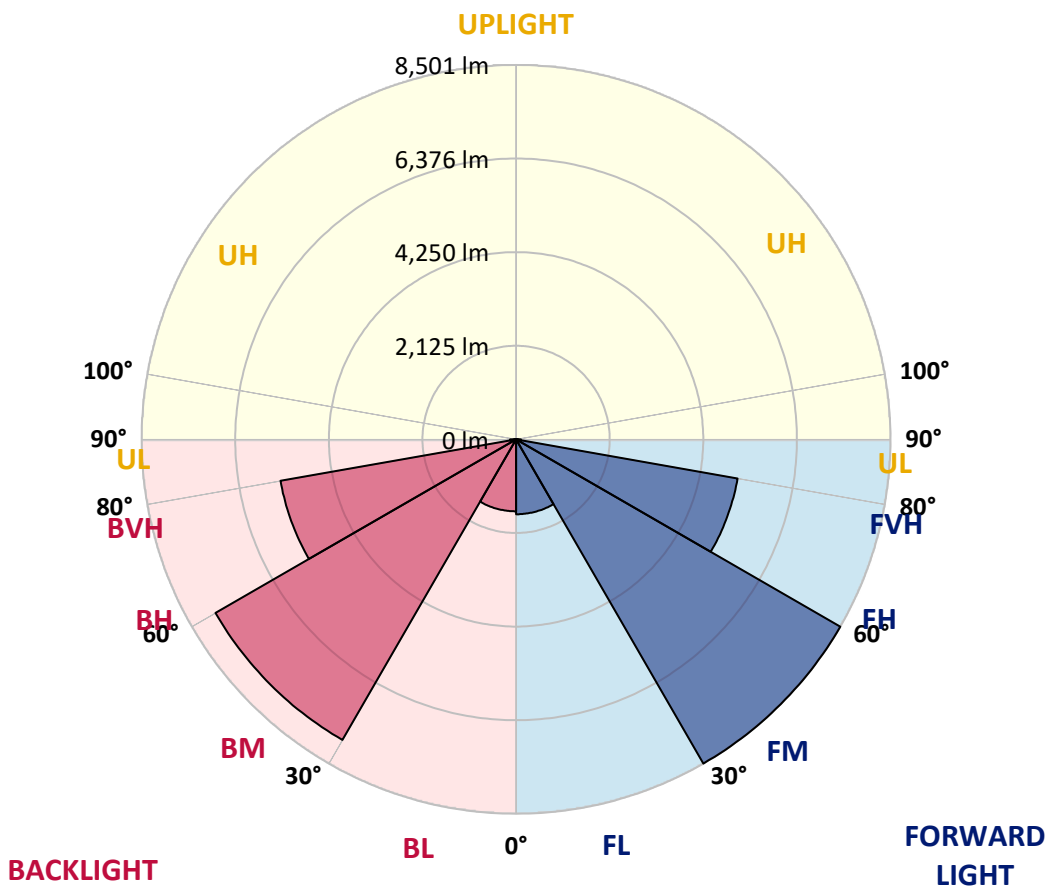
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.7	5.6			
FM (30°-60°)	8500.9	27.9			
FH (60°-80°)	5106.7	16.7			G3/7500
FVH (80°-90°)	110.6	0.4			G2/225
BL (0°-30°)	1634.5	5.4	B3/2500		
BM (30°-60°)	7881.6	25.8	B4/8500		
BH (60°-80°)	5430.6	17.8	B5		G5
BVH (80°-90°)	135.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4
2.5°	3024.7	3028.9	3035.3	3048.0	3060.8	3079.9	3099.0	3096.9	3105.4	3111.8	3118.1
5°	3007.7	3011.9	3022.6	3039.6	3058.7	3090.5	3130.9	3147.9	3160.6	3184.0	3205.2
7.5°	3043.8	3052.3	3067.2	3090.5	3120.3	3160.6	3215.9	3245.6	3264.7	3307.2	3343.3
10°	3092.7	3103.3	3133.0	3177.6	3222.2	3283.8	3353.9	3398.5	3411.3	3466.5	3534.5
12.5°	3139.4	3152.1	3201.0	3281.7	3362.4	3445.3	3528.1	3583.3	3587.6	3661.9	3738.4
15°	3213.7	3224.3	3290.2	3394.3	3517.5	3632.2	3734.1	3772.4	3789.4	3842.5	3938.0
17.5°	3377.3	3390.0	3475.0	3587.6	3717.1	3838.2	3940.2	3972.0	3972.0	4016.6	4095.2
20°	3553.6	3566.3	3678.9	3823.3	3980.5	4103.7	4182.3	4152.6	4141.9	4154.7	4209.9
22.5°	3751.1	3774.5	3882.8	4050.6	4243.9	4394.7	4435.1	4345.9	4316.1	4286.4	4299.1
25°	4003.9	4031.5	4137.7	4316.1	4505.2	4664.5	4687.8	4549.8	4532.8	4428.7	4390.5
27.5°	4294.9	4316.1	4447.8	4624.1	4800.4	4934.2	4959.7	4789.8	4732.4	4588.0	4498.8
30°	4670.8	4690.0	4804.7	4978.8	5131.8	5225.2	5257.1	5023.4	4978.8	4757.9	4619.9
32.5°	5080.8	5089.3	5206.1	5373.9	5509.9	5599.1	5554.5	5282.6	5216.7	4968.2	4779.2
35°	5550.2	5550.2	5701.0	5837.0	5945.3	5970.8	5885.8	5575.7	5499.2	5229.5	4993.7
37.5°	6011.1	6023.9	6164.1	6325.5	6421.1	6416.8	6261.8	5921.9	5834.8	5541.7	5280.5
40°	6510.3	6537.9	6678.1	6858.6	6950.0	6937.2	6699.3	6321.2	6232.0	5885.8	5630.9
42.5°	6969.1	7013.7	7177.3	7362.0	7461.9	7453.4	7204.9	6780.1	6693.0	6302.1	6047.2
45°	7334.4	7381.2	7585.1	7842.1	8001.4	7986.5	7735.9	7255.8	7149.6	6739.7	6459.3
47.5°	7655.2	7704.0	7931.3	8203.2	8455.9	8481.4	8252.0	7735.9	7623.3	7209.1	6892.6
50°	7901.6	7924.9	8179.8	8477.2	8770.3	8912.6	8713.0	8218.0	8082.1	7672.2	7315.3
52.5°	7882.4	7914.3	8228.7	8632.2	9025.2	9258.8	9120.8	8672.6	8540.9	8094.9	7746.5
55°	7493.7	7525.6	7899.4	8487.8	9167.5	9511.6	9496.7	9105.9	9010.3	8526.0	8194.7
57.5°	6926.6	6996.7	7368.4	8003.5	8980.6	9713.4	9772.9	9501.0	9401.2	8948.7	8638.6
60°	5911.3	6004.8	6433.8	7258.0	8381.6	9645.4	10068.1	9834.5	9772.9	9341.7	9040.1
62.5°	4294.9	4362.9	4934.2	6015.4	7493.7	9161.1	10316.6	10178.6	10131.8	9694.3	9403.3
65°	2572.3	2727.3	3186.1	4254.5	6045.1	8247.8	10180.7	10628.9	10580.0	10057.5	9713.4
67.5°	1302.1	1372.2	1552.7	2306.7	4065.5	6824.7	9498.9	10909.3	10968.7	10367.6	9823.9
70°	807.1	826.3	877.2	1138.5	2030.6	4483.9	7767.7	10178.6	10469.6	10318.8	9537.1
72.5°	647.8	652.1	660.6	709.4	975.0	2096.5	4910.9	7971.7	8496.3	9636.9	9127.2
75°	537.4	539.5	541.6	556.5	607.5	856.0	2389.6	5478.0	6091.8	8190.4	8462.3
77.5°	431.2	420.6	429.1	435.4	448.2	477.9	824.1	2922.7	3545.1	5376.0	6544.3
80°	280.4	276.1	293.1	299.5	312.2	331.4	439.7	991.9	1204.4	1956.3	2081.6
82.5°	150.8	142.3	178.4	172.1	178.4	193.3	259.1	363.2	407.8	590.5	499.2
85°	46.7	46.7	48.9	57.4	70.1	68.0	112.6	178.4	197.5	252.8	186.9
87.5°	8.5	8.5	8.5	8.5	8.5	10.6	23.4	36.1	48.9	87.1	65.8
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°	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4	3088.4
2.5°	3130.9	3111.8	3122.4	3128.8	3126.6	3122.4	3101.2	3096.9	3086.3	3069.3	3065.0
5°	3224.3	3203.1	3205.2	3198.9	3177.6	3150.0	3103.3	3079.9	3060.8	3039.6	3037.4
7.5°	3370.9	3347.5	3341.2	3311.4	3252.0	3188.2	3113.9	3071.4	3039.6	3011.9	3007.7
10°	3557.8	3534.5	3513.2	3443.1	3345.4	3260.5	3162.7	3101.2	3054.4	3020.4	3014.1
12.5°	3766.0	3746.9	3693.8	3591.8	3475.0	3375.2	3275.3	3198.9	3130.9	3079.9	3073.5
15°	3997.5	3955.0	3874.3	3742.6	3632.2	3551.5	3430.4	3326.3	3218.0	3150.0	3135.1
17.5°	4158.9	4122.8	4027.2	3899.8	3812.7	3742.6	3600.3	3451.6	3305.1	3205.2	3184.0
20°	4273.6	4235.4	4127.1	4033.6	4006.0	3946.5	3780.9	3608.8	3438.9	3315.7	3288.1
22.5°	4356.5	4316.1	4205.7	4158.9	4197.2	4186.6	4025.1	3829.7	3627.9	3481.4	3447.4
25°	4435.1	4396.8	4299.1	4316.1	4418.1	4449.9	4275.8	4048.5	3819.1	3647.0	3606.7
27.5°	4509.4	4460.6	4416.0	4509.4	4653.9	4713.3	4528.5	4271.5	4023.0	3846.7	3814.8
30°	4624.1	4566.8	4560.4	4696.3	4925.7	4976.7	4772.8	4515.8	4269.4	4091.0	4050.6
32.5°	4768.6	4715.4	4719.7	4923.6	5189.1	5231.6	5057.4	4817.4	4571.0	4392.6	4337.4
35°	4964.0	4898.1	4934.2	5184.9	5452.5	5531.1	5390.9	5191.2	4951.2	4768.6	4707.0
37.5°	5233.7	5138.1	5212.5	5475.9	5745.6	5862.4	5754.1	5605.4	5367.5	5182.7	5125.4
40°	5577.8	5499.2	5529.0	5820.0	6098.2	6238.4	6170.4	6023.9	5788.1	5594.8	5529.0
42.5°	5985.6	5907.1	5896.4	6206.5	6484.8	6697.2	6631.4	6497.5	6253.3	6032.4	5968.7
45°	6385.0	6312.8	6327.6	6644.1	6956.3	7187.9	7122.0	6964.8	6699.3	6444.4	6393.5
47.5°	6801.3	6741.8	6754.6	7090.2	7434.3	7665.8	7583.0	7391.8	7081.7	6809.8	6748.2
50°	7228.2	7160.3	7179.4	7532.0	7903.7	8122.5	7995.0	7712.5	7370.5	7105.0	7051.9
52.5°	7653.0	7572.3	7621.2	7954.7	8339.1	8513.3	8277.5	7935.5	7604.2	7340.8	7281.3
55°	8141.6	8056.6	8003.5	8360.4	8740.6	8812.8	8489.9	8090.6	7697.7	7398.2	7362.0
57.5°	8587.6	8515.4	8415.6	8772.4	9052.8	8999.7	8653.5	8048.1	7470.4	7085.9	7034.9
60°	8987.0	8925.4	8838.3	9142.0	9269.5	9150.5	8521.8	7544.7	6909.6	6508.2	6484.8
62.5°	9354.4	9288.6	9207.9	9467.0	9450.0	9173.9	7922.8	6771.6	5921.9	5490.7	5452.5
65°	9645.4	9586.0	9562.6	9766.5	9738.9	8717.2	6990.3	5505.6	4326.7	3840.3	3825.5
67.5°	9728.3	9704.9	9830.2	10176.4	9745.3	7799.6	5482.2	3651.3	2323.7	1862.8	1835.2
70°	9418.2	9416.0	9775.0	10269.9	8861.6	5958.0	3235.0	1646.2	1168.2	1036.5	1019.6
72.5°	9014.6	9008.2	9292.8	8859.5	6571.9	3260.5	1361.5	881.5	730.7	694.6	694.6
75°	8351.9	8334.9	8549.4	6739.7	3695.9	1227.7	722.2	605.4	573.5	567.1	567.1
77.5°	6807.7	6665.4	6327.6	4165.3	1289.3	603.2	477.9	475.8	456.7	454.6	454.6
80°	2238.8	2238.8	2602.0	1588.8	569.3	371.7	337.7	354.7	335.6	322.9	320.7
82.5°	365.3	503.4	715.8	454.6	308.0	231.5	208.2	220.9	231.5	184.8	184.8
85°	144.4	189.0	276.1	212.4	142.3	93.5	99.8	110.5	97.7	85.0	82.8
87.5°	55.2	68.0	97.7	51.0	29.7	17.0	10.6	10.6	8.5	8.5	8.5
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)