

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: P639842

Luminaire Tested: GWS-SA5C-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639842  
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

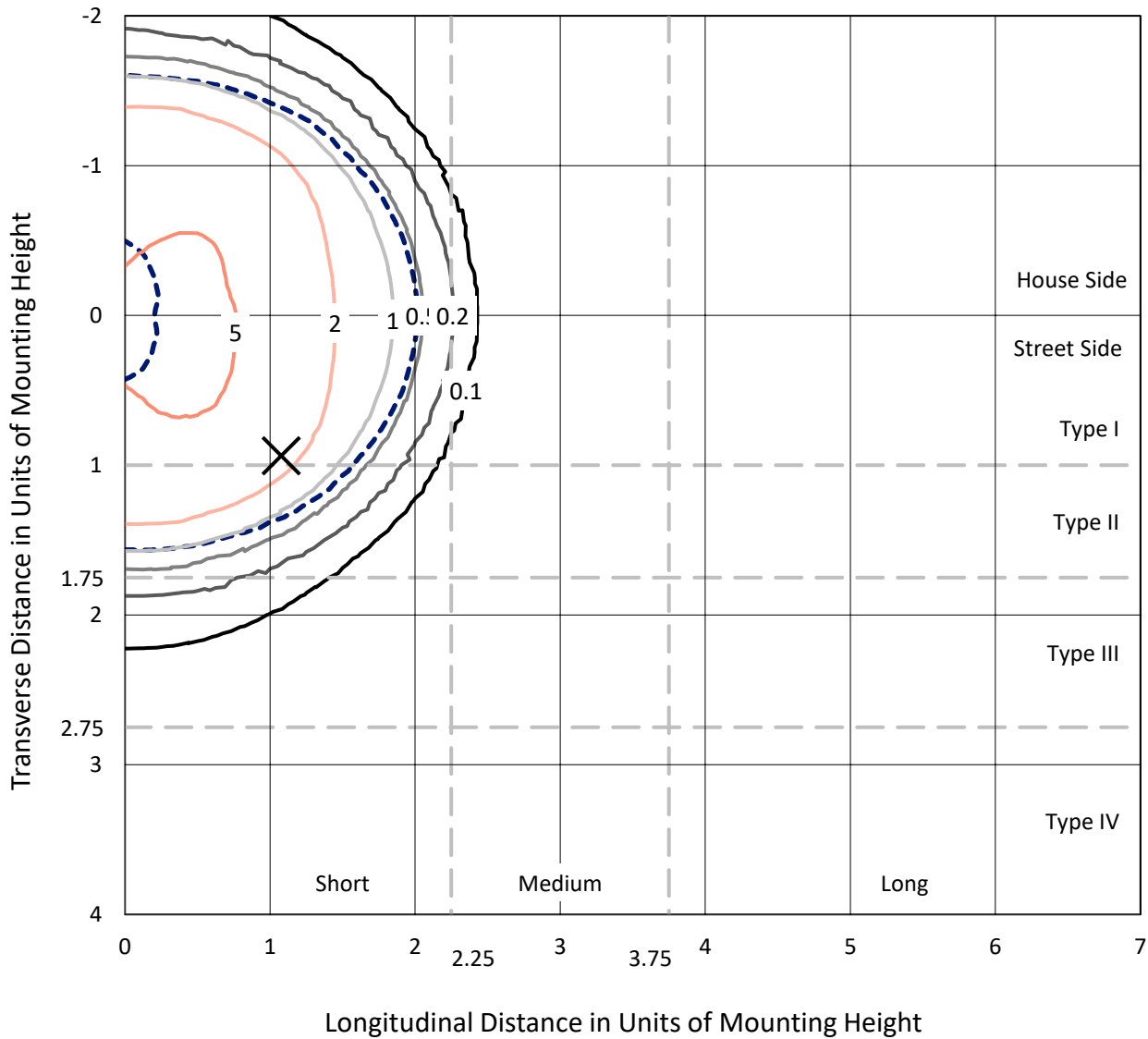
Lumens per Lamp: N/A  
Luminaire Lumens: 21178.3 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

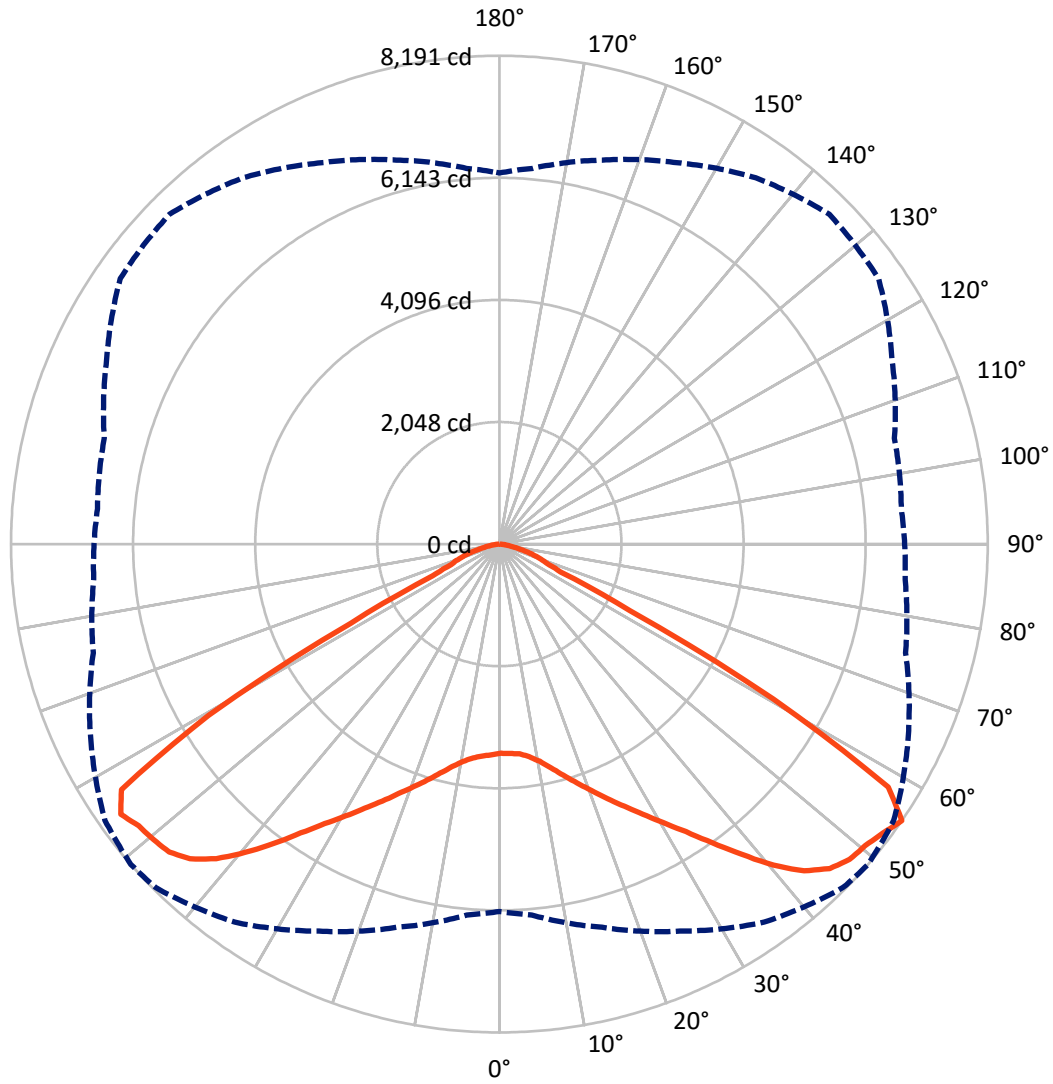
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	10485.3	0.0	10485.3
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	10693.0	0.0	10693.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	21178.3	0.0	21178.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.2	1.6
10°-20°	1128.8	5.3
20°-30°	2150.1	10.2
30°-40°	3644.9	17.2
40°-50°	5485.3	25.9
50°-60°	6004.2	28.4
60°-70°	1898.6	9.0
70°-80°	455.7	2.2
80°-90°	68.4	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°	21178.3	100.0
0°-180°	21178.3	100.0

**Coefficient of Utilization**



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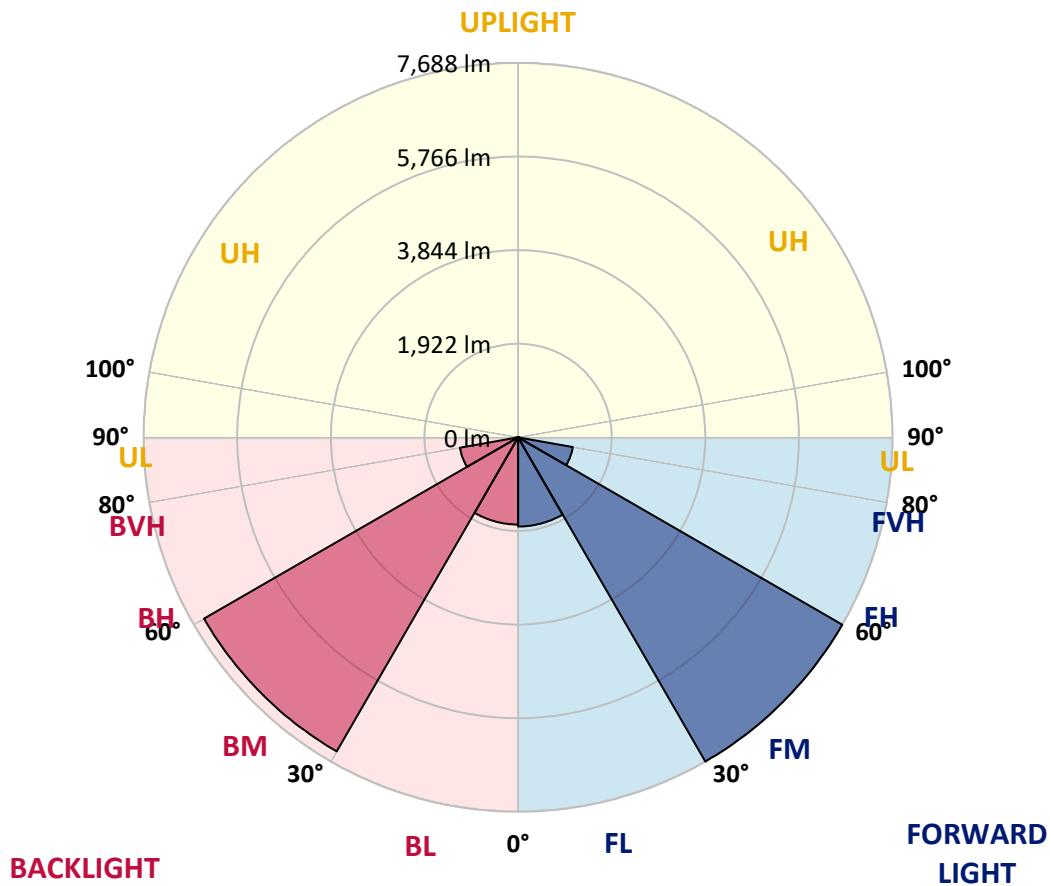
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.1	8.6			
FM (30°-60°)	7688.3	36.3			
FH (60°-80°)	1142.0	5.4			G1/1800
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	1790.1	8.5	B3/2500		
BM (30°-60°)	7446.2	35.2	B4/8500		
BH (60°-80°)	1212.2	5.7	B3/2500		G1/1800
BVH (80°-90°)	36.7	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°	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3
2.5°	3456.6	3460.1	3467.0	3479.0	3491.1	3508.3	3515.2	3523.8	3522.1	3532.4	3532.4
5°	3439.4	3444.6	3454.9	3472.1	3492.8	3525.5	3534.1	3554.8	3575.5	3601.3	3609.9
7.5°	3460.1	3467.0	3479.0	3506.6	3537.6	3580.7	3597.9	3632.3	3671.9	3718.4	3737.4
10°	3499.7	3508.3	3529.0	3573.8	3623.7	3689.2	3704.7	3747.7	3811.4	3875.2	3913.1
12.5°	3544.5	3558.3	3596.2	3666.8	3740.8	3826.9	3851.1	3904.4	3973.3	4056.0	4107.7
15°	3596.2	3608.2	3666.8	3766.7	3882.1	3995.7	4023.3	4074.9	4152.5	4233.4	4305.7
17.5°	3704.7	3725.3	3794.2	3909.6	4043.9	4178.3	4209.3	4267.8	4329.8	4393.6	4462.5
20°	3852.8	3870.0	3957.8	4100.8	4259.2	4381.5	4412.5	4464.2	4493.5	4526.2	4584.7
22.5°	4000.9	4025.0	4124.9	4293.7	4479.7	4612.3	4636.4	4684.6	4664.0	4653.6	4691.5
25°	4185.2	4217.9	4316.1	4500.4	4689.8	4853.4	4872.4	4913.7	4879.3	4825.9	4824.1
27.5°	4414.2	4443.5	4545.1	4734.6	4922.3	5092.8	5129.0	5184.1	5108.3	5042.9	4996.4
30°	4686.4	4705.3	4817.3	5018.8	5211.7	5373.6	5420.1	5475.2	5418.3	5309.8	5263.3
32.5°	5003.3	5029.1	5158.3	5370.1	5542.3	5704.2	5750.7	5819.6	5757.6	5635.3	5576.8
35°	5383.9	5409.7	5545.8	5776.6	5952.2	6119.3	6152.0	6208.9	6131.4	5990.1	5943.6
37.5°	5797.2	5830.0	6002.2	6220.9	6405.2	6599.8	6601.6	6618.8	6508.6	6332.9	6281.2
40°	6262.3	6305.3	6477.5	6704.9	6927.1	7085.5	7083.8	7035.6	6849.6	6577.4	6498.2
42.5°	6722.1	6756.6	6930.5	7164.7	7386.9	7536.8	7492.0	7374.9	7106.2	6735.9	6630.8
45°	7054.5	7080.4	7262.9	7526.4	7752.0	7845.1	7764.1	7622.9	7259.5	6835.8	6680.8
47.5°	7211.2	7245.7	7430.0	7691.8	7946.7	8000.1	7903.6	7771.0	7349.0	6928.8	6720.4
50°	7126.9	7171.6	7380.0	7622.9	7910.5	8020.7	7951.8	7819.2	7443.8	7020.1	6791.0
52.5°	6908.1	6951.2	7214.7	7509.2	7834.7	8053.4	8051.7	7943.2	7552.3	7045.9	6794.5
55°	6160.6	6245.0	6654.9	7163.0	7741.7	8149.9	8191.2	8075.8	7569.5	7052.8	6830.6
57.5°	4009.5	4157.6	4546.9	5208.2	6369.0	7412.8	7691.8	7719.3	7445.5	7023.5	6837.5
60°	1674.1	1792.9	2101.2	2540.4	3499.7	4741.5	5282.3	5824.8	6479.3	6716.9	6773.8
62.5°	1040.3	1050.6	1081.6	1181.5	1501.8	2108.1	2456.0	2964.1	3937.2	4765.6	5147.9
65°	938.7	943.8	950.7	943.8	959.3	1033.4	1126.4	1303.8	1699.9	2111.5	2600.7
67.5°	826.7	833.6	838.8	833.6	838.8	842.2	852.5	868.0	940.4	998.9	1043.7
70°	668.3	678.6	687.2	683.8	704.4	704.4	714.8	726.8	763.0	806.0	837.0
72.5°	509.8	501.2	511.5	515.0	533.9	544.2	559.7	573.5	614.9	640.7	680.3
75°	330.7	322.1	337.6	346.2	372.0	385.8	399.6	413.4	442.6	459.9	497.7
77.5°	179.1	177.4	192.9	205.0	232.5	249.7	260.1	270.4	294.5	299.7	323.8
80°	103.3	103.3	113.7	122.3	139.5	158.5	168.8	177.4	194.6	199.8	210.1
82.5°	56.8	56.8	62.0	67.2	80.9	91.3	99.9	106.8	122.3	127.4	132.6
85°	27.6	25.8	29.3	32.7	37.9	43.1	48.2	51.7	63.7	67.2	74.1
87.5°	3.4	3.4	3.4	5.2	6.9	10.3	12.1	12.1	18.9	22.4	25.8
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°	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3	3508.3
2.5°	3542.8	3520.4	3534.1	3539.3	3539.3	3534.1	3511.8	3504.9	3494.5	3479.0	3479.0
5°	3622.0	3604.8	3608.2	3599.6	3578.9	3553.1	3511.8	3491.1	3473.9	3454.9	3453.2
7.5°	3758.0	3735.7	3732.2	3699.5	3644.4	3589.3	3527.3	3489.4	3463.5	3439.4	3437.7
10°	3935.4	3914.8	3888.9	3823.5	3742.5	3661.6	3577.2	3525.5	3487.6	3453.2	3451.5
12.5°	4133.5	4109.4	4061.2	3964.7	3863.1	3783.9	3687.4	3608.2	3551.4	3504.9	3496.3
15°	4348.8	4314.3	4231.7	4118.0	4018.1	3933.7	3830.4	3716.7	3630.6	3556.5	3547.9
17.5°	4514.1	4469.4	4379.8	4273.0	4190.3	4106.0	3971.6	3828.7	3704.7	3611.7	3597.9
20°	4627.8	4591.6	4490.0	4410.8	4362.6	4288.5	4131.8	3969.9	3830.4	3713.3	3706.4
22.5°	4732.9	4689.8	4589.9	4543.4	4543.4	4493.5	4343.6	4152.5	3988.8	3852.8	3835.5
25°	4851.7	4805.2	4729.4	4724.3	4748.4	4726.0	4545.1	4340.2	4149.0	3995.7	3968.2
27.5°	5017.0	4965.4	4920.6	4951.6	4986.0	4961.9	4760.4	4522.7	4321.2	4166.2	4142.1
30°	5280.6	5216.8	5175.5	5213.4	5280.6	5209.9	4991.2	4739.8	4536.5	4366.0	4354.0
32.5°	5587.1	5514.8	5471.7	5532.0	5592.3	5482.1	5265.1	5023.9	4810.4	4631.2	4610.6
35°	5955.7	5864.4	5800.7	5881.6	5943.6	5835.1	5619.8	5390.8	5153.1	4967.1	4939.5
37.5°	6282.9	6172.7	6129.6	6243.3	6326.0	6255.4	6021.1	5805.9	5545.8	5342.6	5330.5
40°	6520.6	6412.1	6381.1	6568.8	6713.5	6696.3	6486.2	6239.9	5995.3	5761.1	5738.7
42.5°	6623.9	6548.2	6555.1	6808.2	7032.1	7142.4	6954.6	6691.1	6455.2	6212.3	6196.8
45°	6646.3	6599.8	6654.9	6971.8	7266.4	7492.0	7331.8	7111.4	6844.4	6610.2	6603.3
47.5°	6670.4	6644.6	6729.0	7064.9	7414.5	7676.3	7586.7	7359.4	7089.0	6859.9	6842.7
50°	6727.3	6716.9	6811.7	7130.3	7485.1	7726.2	7624.6	7399.0	7121.7	6896.1	6854.7
52.5°	6744.5	6727.3	6863.3	7231.9	7602.2	7724.5	7505.8	7211.2	6932.2	6680.8	6637.7
55°	6797.9	6766.9	6859.9	7269.8	7764.1	7824.4	7498.9	7058.0	6668.7	6326.0	6224.4
57.5°	6811.7	6777.2	6837.5	7207.8	7588.4	7535.0	6591.2	5695.6	4961.9	4581.3	4624.4
60°	6737.6	6747.9	6644.6	6603.3	6086.6	5373.6	4035.3	3225.9	2533.5	2240.7	2304.4
62.5°	5129.0	5172.1	4819.0	4190.3	3222.4	2554.2	1689.6	1312.4	1110.9	1059.2	1067.8
65°	2588.6	2647.2	2280.3	1885.9	1401.9	1133.3	980.0	949.0	938.7	926.6	926.6
67.5°	1024.8	1042.0	1028.2	962.8	895.6	871.5	864.6	861.1	849.1	842.2	843.9
70°	823.3	837.0	816.4	775.0	747.5	745.8	742.3	735.4	726.8	726.8	732.0
72.5°	671.7	685.5	656.2	630.4	609.7	594.2	585.6	580.4	568.4	568.4	573.5
75°	494.3	502.9	478.8	475.4	453.0	437.5	423.7	416.8	401.3	394.4	399.6
77.5°	329.0	327.2	315.2	315.2	306.6	287.6	272.1	256.6	236.0	222.2	225.6
80°	213.6	213.6	208.4	208.4	199.8	184.3	165.3	149.8	137.8	127.4	127.4
82.5°	136.1	134.3	132.6	130.9	127.4	111.9	98.2	87.8	79.2	72.3	74.1
85°	75.8	75.8	72.3	72.3	65.4	56.8	49.9	43.1	37.9	36.2	36.2
87.5°	25.8	25.8	24.1	24.1	20.7	15.5	12.1	10.3	8.6	6.9	8.6
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)