

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: P639732

Luminaire Tested: GWS-SA5C-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639732  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

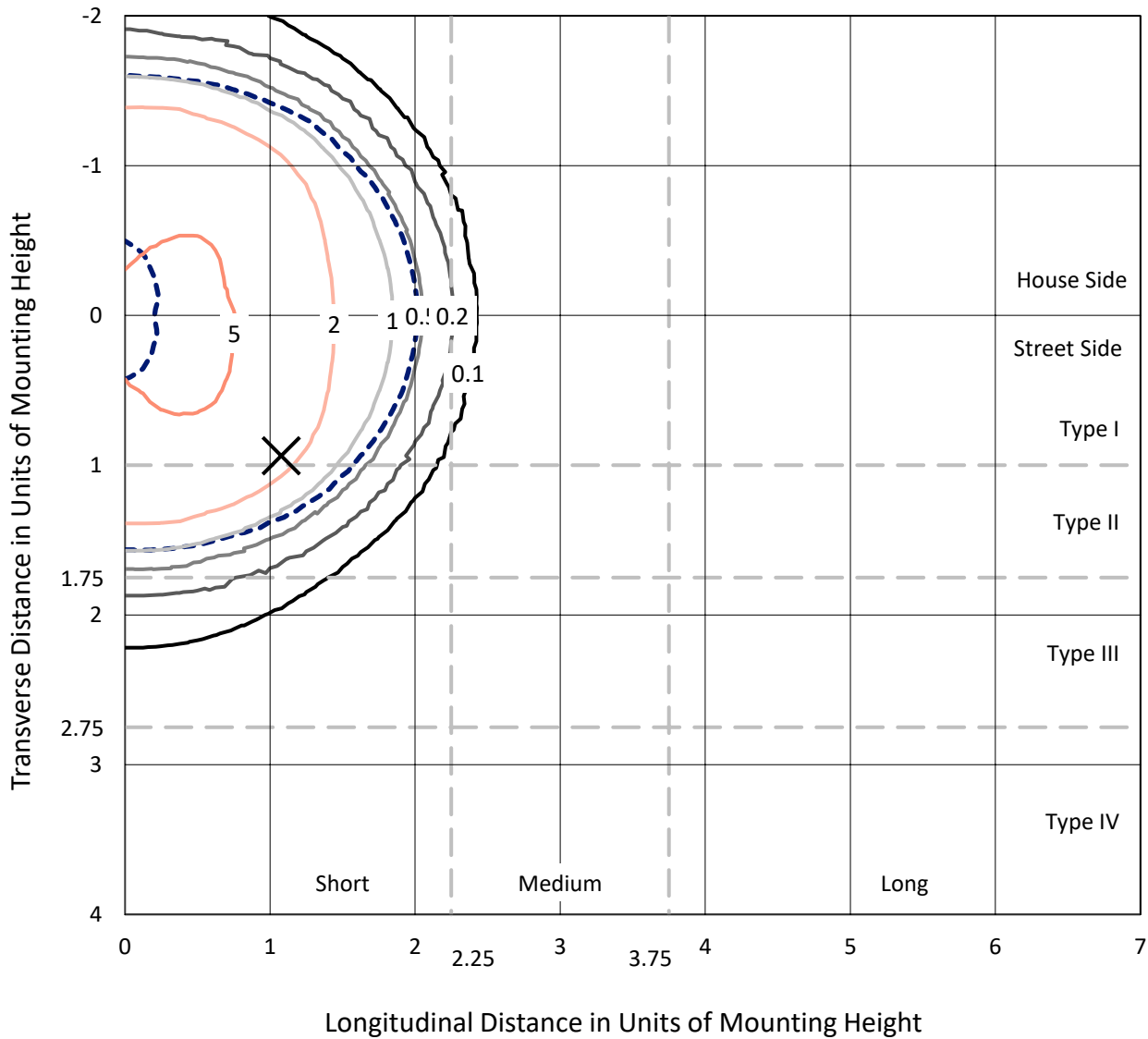
Lumens per Lamp: N/A  
Luminaire Lumens: 20991.6 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

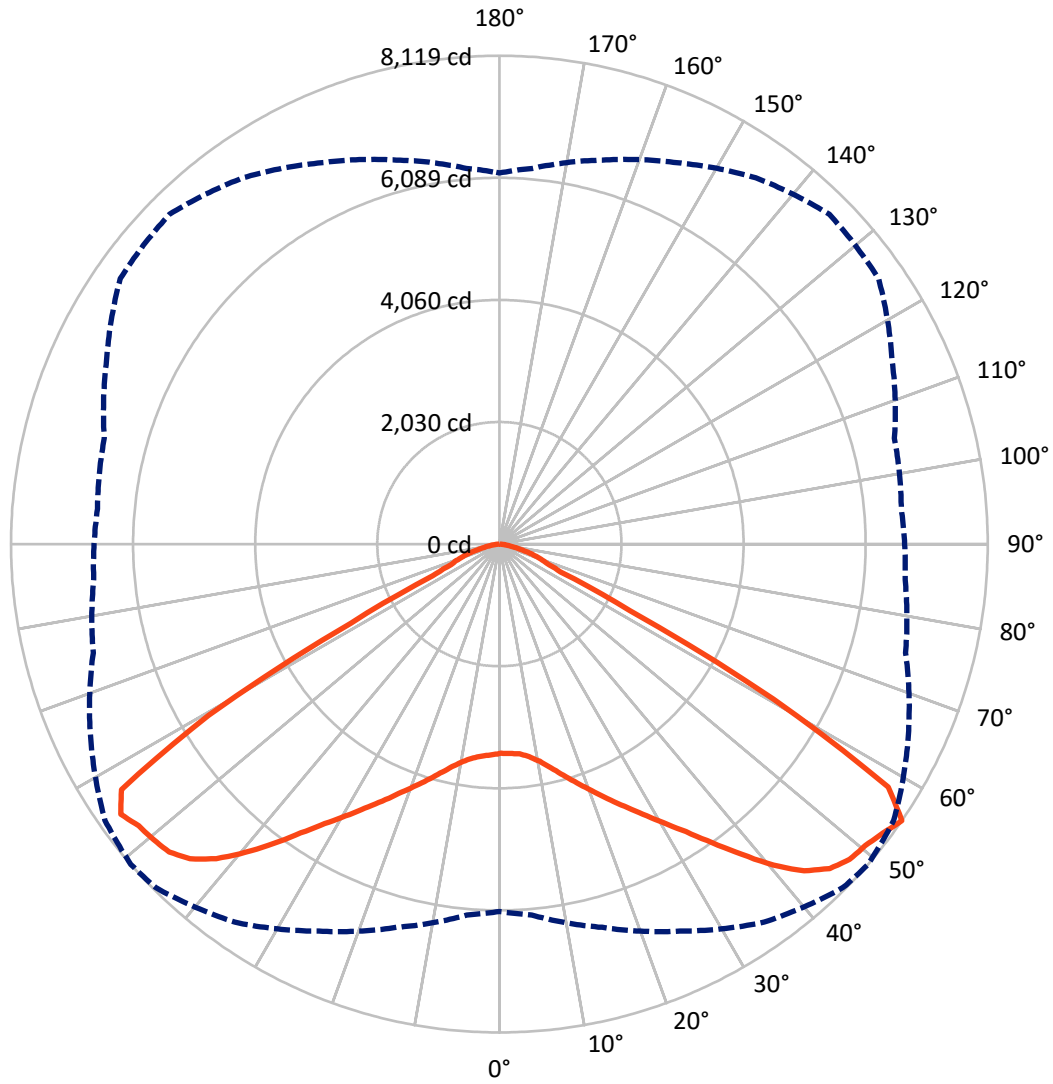
✕ Max cd  
 - - - 1/2 Max cd



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	10392.8	0.0	10392.8
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	10598.8	0.0	10598.8
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	20991.6	0.0	20991.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.2	1.6
10°-20°	1118.9	5.3
20°-30°	2131.2	10.2
30°-40°	3612.8	17.2
40°-50°	5437.0	25.9
50°-60°	5951.3	28.4
60°-70°	1881.8	9.0
70°-80°	451.6	2.2
80°-90°	67.8	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°	20991.6	100.0
0°-180°	20991.6	100.0

**Coefficient of Utilization**



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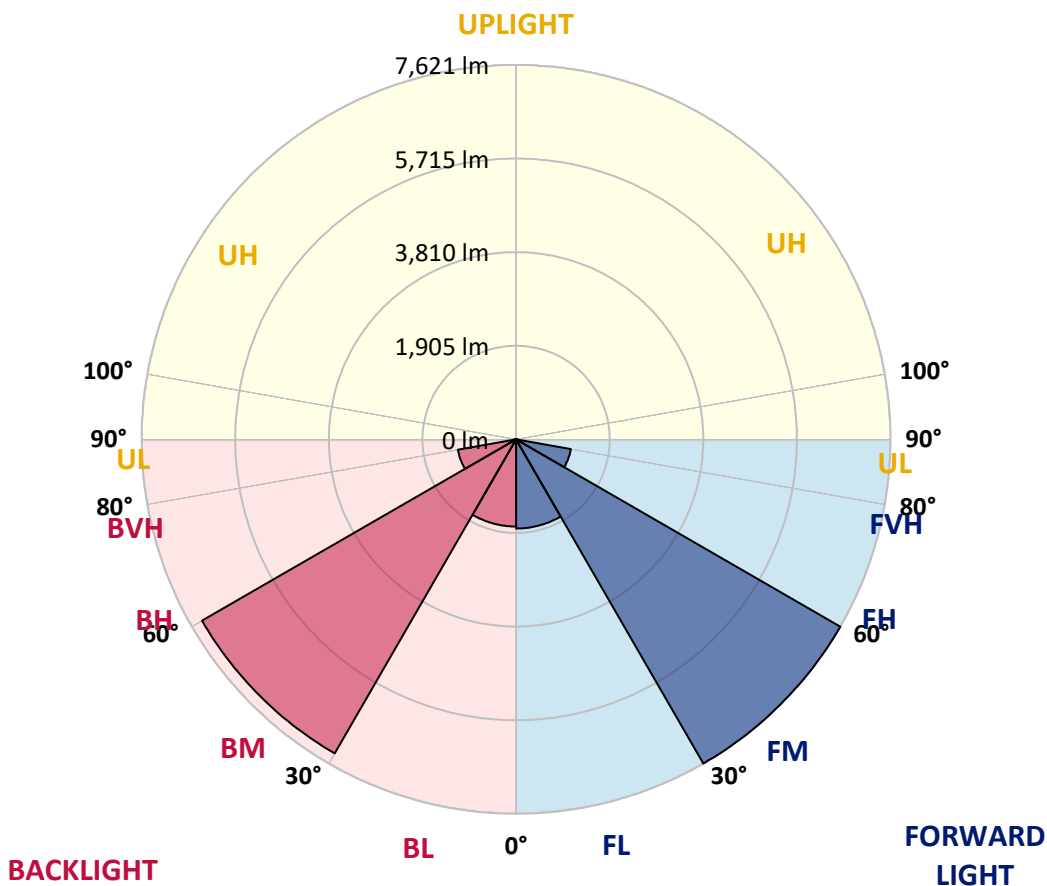
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.9	8.6			
FM (30°-60°)	7620.5	36.3			
FH (60°-80°)	1131.9	5.4			G1/1800
FVH (80°-90°)	31.4	0.1			G1/100
BL (0°-30°)	1774.4	8.5	B3/2500		
BM (30°-60°)	7380.5	35.2	B4/8500		
BH (60°-80°)	1201.5	5.7	B3/2500		G1/1800
BVH (80°-90°)	36.4	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°	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4
2.5°	3426.2	3429.6	3436.4	3448.4	3460.3	3477.4	3484.2	3492.7	3491.0	3501.3	3501.3
5°	3409.1	3414.2	3424.5	3441.5	3462.0	3494.5	3503.0	3523.5	3544.0	3569.6	3578.1
7.5°	3429.6	3436.4	3448.4	3475.7	3506.4	3549.1	3566.2	3600.3	3639.6	3685.7	3704.4
10°	3468.9	3477.4	3497.9	3542.3	3591.8	3656.6	3672.0	3714.7	3777.8	3841.0	3878.6
12.5°	3513.2	3526.9	3564.4	3634.4	3707.8	3793.2	3817.1	3870.0	3938.3	4020.2	4071.5
15°	3564.4	3576.4	3634.4	3733.5	3847.8	3960.5	3987.8	4039.0	4115.8	4196.1	4267.8
17.5°	3672.0	3692.5	3760.8	3875.1	4008.3	4141.5	4172.2	4230.2	4291.7	4354.8	4423.1
20°	3818.8	3835.9	3922.9	4064.6	4221.7	4342.9	4373.6	4424.8	4453.9	4486.3	4544.3
22.5°	3965.6	3989.5	4088.5	4255.8	4440.2	4571.6	4595.5	4643.3	4622.9	4612.6	4650.2
25°	4148.3	4180.7	4278.0	4460.7	4648.5	4810.6	4829.4	4870.4	4836.2	4783.3	4781.6
27.5°	4375.3	4404.3	4505.1	4692.8	4878.9	5047.9	5083.8	5138.4	5063.3	4998.4	4952.3
30°	4645.1	4663.8	4774.8	4974.5	5165.7	5326.2	5372.3	5426.9	5370.6	5263.0	5216.9
32.5°	4959.2	4984.8	5112.8	5322.8	5493.5	5654.0	5700.0	5768.3	5706.9	5585.7	5527.6
35°	5336.4	5362.0	5496.9	5725.7	5899.8	6065.4	6097.8	6154.1	6077.3	5937.3	5891.2
37.5°	5746.1	5778.6	5949.3	6166.1	6348.7	6541.7	6543.4	6560.4	6451.2	6277.0	6225.8
40°	6207.1	6249.7	6420.4	6645.8	6866.0	7023.1	7021.3	6973.5	6789.2	6519.5	6440.9
42.5°	6662.9	6697.0	6869.4	7101.6	7321.8	7470.3	7425.9	7309.9	7043.5	6676.5	6572.4
45°	6992.3	7017.9	7198.9	7460.1	7683.7	7775.9	7695.7	7555.7	7195.5	6775.5	6621.9
47.5°	7147.7	7181.8	7364.5	7624.0	7876.6	7929.5	7833.9	7702.5	7284.2	6867.7	6661.1
50°	7064.0	7108.4	7315.0	7555.7	7840.8	7950.0	7881.7	7750.3	7378.1	6958.2	6731.1
52.5°	6847.2	6889.9	7151.1	7443.0	7765.6	7982.5	7980.7	7873.2	7485.7	6983.8	6734.6
55°	6106.3	6190.0	6596.3	7099.9	7673.5	8078.1	8119.0	8004.6	7502.8	6990.6	6770.4
57.5°	3974.2	4121.0	4506.8	5162.3	6312.9	7347.4	7624.0	7651.3	7379.8	6961.6	6777.2
60°	1659.3	1777.1	2082.7	2518.0	3468.9	4699.7	5235.7	5773.5	6422.2	6657.7	6714.1
62.5°	1031.1	1041.3	1072.1	1171.1	1488.6	2089.5	2434.3	2937.9	3902.5	4723.6	5102.6
65°	930.4	935.5	942.3	935.5	950.9	1024.3	1116.5	1292.3	1684.9	2092.9	2577.7
67.5°	819.4	826.2	831.4	826.2	831.4	834.8	845.0	860.4	932.1	990.1	1034.5
70°	662.4	672.6	681.1	677.7	698.2	698.2	708.5	720.4	756.3	798.9	829.7
72.5°	505.3	496.8	507.0	510.4	529.2	539.4	554.8	568.5	609.4	635.0	674.3
75°	327.8	319.2	334.6	343.1	368.7	382.4	396.0	409.7	438.7	455.8	493.4
77.5°	177.5	175.8	191.2	203.1	230.5	247.5	257.8	268.0	291.9	297.0	320.9
80°	102.4	102.4	112.7	121.2	138.3	157.1	167.3	175.8	192.9	198.0	208.3
82.5°	56.3	56.3	61.5	66.6	80.2	90.5	99.0	105.8	121.2	126.3	131.4
85°	27.3	25.6	29.0	32.4	37.6	42.7	47.8	51.2	63.2	66.6	73.4
87.5°	3.4	3.4	3.4	5.1	6.8	10.2	11.9	11.9	18.8	22.2	25.6
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°	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4	3477.4
2.5°	3511.5	3489.3	3503.0	3508.1	3508.1	3503.0	3480.8	3474.0	3463.7	3448.4	3448.4
5°	3590.1	3573.0	3576.4	3567.9	3547.4	3521.8	3480.8	3460.3	3443.2	3424.5	3422.8
7.5°	3724.9	3702.7	3699.3	3666.9	3612.2	3557.6	3496.2	3458.6	3433.0	3409.1	3407.4
10°	3900.7	3880.3	3854.7	3789.8	3709.6	3629.3	3545.7	3494.5	3456.9	3422.8	3421.1
12.5°	4097.1	4073.2	4025.4	3929.8	3829.1	3750.5	3654.9	3576.4	3520.1	3474.0	3465.4
15°	4310.5	4276.3	4194.4	4081.7	3982.7	3899.0	3796.6	3683.9	3598.6	3525.2	3516.6
17.5°	4474.3	4430.0	4341.2	4235.3	4153.4	4069.8	3936.6	3794.9	3672.0	3579.8	3566.2
20°	4587.0	4551.2	4450.4	4371.9	4324.1	4250.7	4095.4	3934.9	3796.6	3680.5	3673.7
22.5°	4691.1	4648.5	4549.5	4503.4	4503.4	4453.9	4305.3	4115.8	3953.7	3818.8	3801.7
25°	4808.9	4762.8	4687.7	4682.6	4706.5	4684.3	4505.1	4301.9	4112.4	3960.5	3933.2
27.5°	4972.8	4921.6	4877.2	4907.9	4942.1	4918.2	4718.5	4482.9	4283.1	4129.5	4105.6
30°	5234.0	5170.8	5129.9	5167.4	5234.0	5164.0	4947.2	4698.0	4496.5	4327.5	4315.6
32.5°	5537.9	5466.2	5423.5	5483.2	5543.0	5433.7	5218.6	4979.6	4768.0	4590.4	4569.9
35°	5903.2	5812.7	5749.6	5829.8	5891.2	5783.7	5570.3	5343.3	5107.7	4923.3	4896.0
37.5°	6227.5	6118.3	6075.6	6188.3	6270.2	6200.2	5968.1	5754.7	5496.9	5295.5	5283.5
40°	6463.1	6355.6	6324.8	6510.9	6654.3	6637.2	6429.0	6184.9	5942.5	5710.3	5688.1
42.5°	6565.6	6490.4	6497.3	6748.2	6970.1	7079.4	6893.3	6632.1	6398.3	6157.6	6142.2
45°	6587.7	6541.7	6596.3	6910.4	7202.3	7425.9	7267.2	7048.7	6784.1	6551.9	6545.1
47.5°	6611.6	6586.0	6669.7	7002.6	7349.1	7608.6	7519.8	7294.5	7026.5	6799.4	6782.4
50°	6668.0	6657.7	6751.6	7067.4	7419.1	7658.1	7557.4	7333.8	7058.9	6835.3	6794.3
52.5°	6685.0	6668.0	6802.8	7168.2	7535.2	7656.4	7439.6	7147.7	6871.1	6621.9	6579.2
55°	6738.0	6707.2	6799.4	7205.7	7695.7	7755.4	7432.8	6995.7	6609.9	6270.2	6169.5
57.5°	6751.6	6717.5	6777.2	7144.3	7521.5	7468.6	6533.1	5645.4	4918.2	4540.9	4583.6
60°	6678.2	6688.5	6586.0	6545.1	6032.9	5326.2	3999.8	3197.4	2511.2	2221.0	2284.1
62.5°	5083.8	5126.5	4776.5	4153.4	3194.0	2531.6	1674.7	1300.8	1101.1	1049.9	1058.4
65°	2565.8	2623.8	2260.2	1869.3	1389.6	1123.3	971.3	940.6	930.4	918.4	918.4
67.5°	1015.7	1032.8	1019.1	954.3	887.7	863.8	857.0	853.6	841.6	834.8	836.5
70°	816.0	829.7	809.2	768.2	740.9	739.2	735.8	728.9	720.4	720.4	725.5
72.5°	665.8	679.4	650.4	624.8	604.3	589.0	580.4	575.3	563.3	563.3	568.5
75°	489.9	498.5	474.6	471.2	449.0	433.6	419.9	413.1	397.8	390.9	396.0
77.5°	326.1	324.4	312.4	312.4	303.9	285.1	269.7	254.4	233.9	220.2	223.6
80°	211.7	211.7	206.6	206.6	198.0	182.7	163.9	148.5	136.6	126.3	126.3
82.5°	134.9	133.2	131.4	129.7	126.3	111.0	97.3	87.1	78.5	71.7	73.4
85°	75.1	75.1	71.7	71.7	64.9	56.3	49.5	42.7	37.6	35.8	35.8
87.5°	25.6	25.6	23.9	23.9	20.5	15.4	11.9	10.2	8.5	6.8	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)