

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: P638522

Luminaire Tested: GWS-SA4F-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638522  
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-SA4F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22093.4 lumens  
Efficiency: N/A  
Efficacy: 98.1 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): 225.3  
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

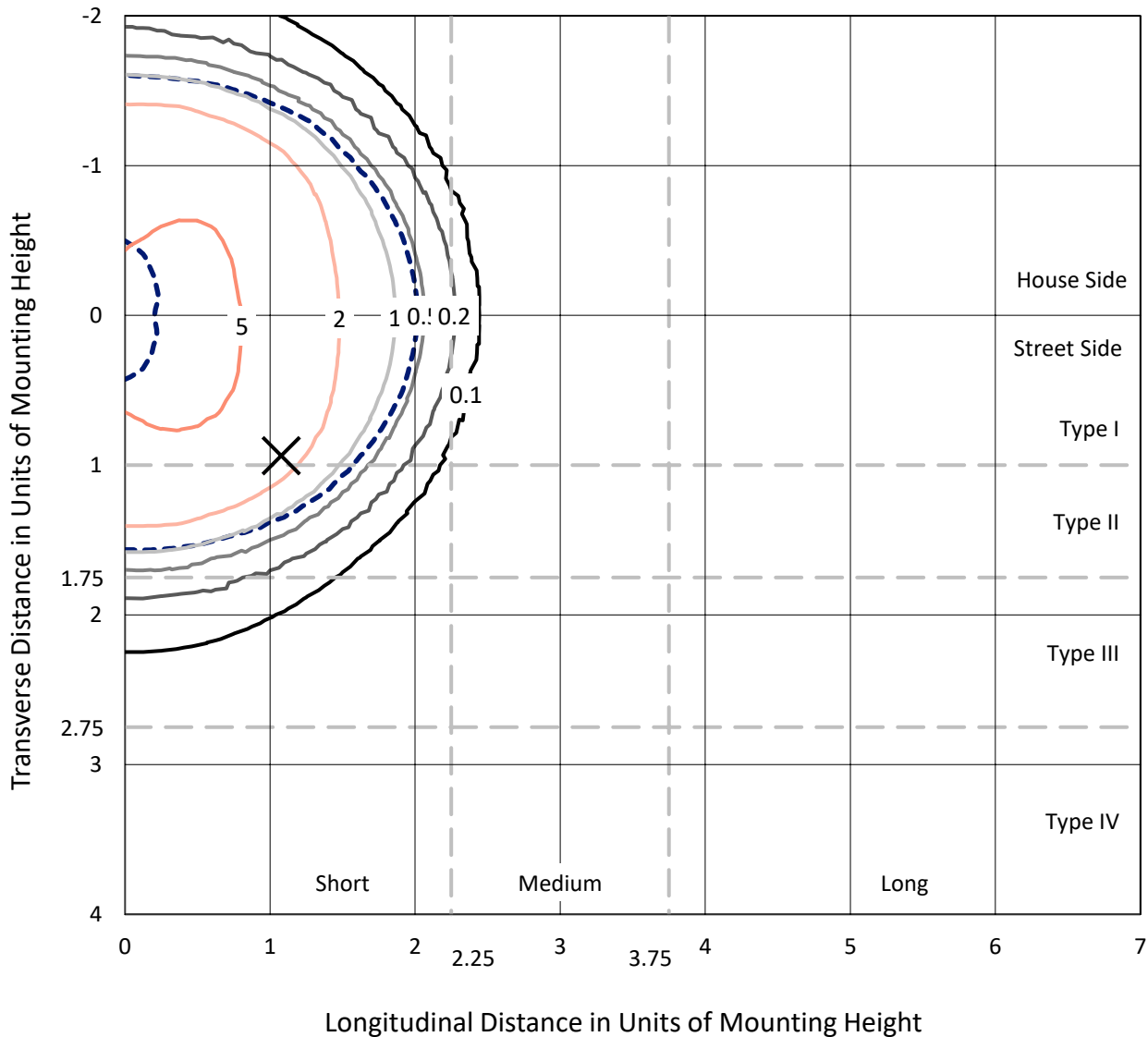


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### Iso-Footcandle Lines of Horizontal Illumination

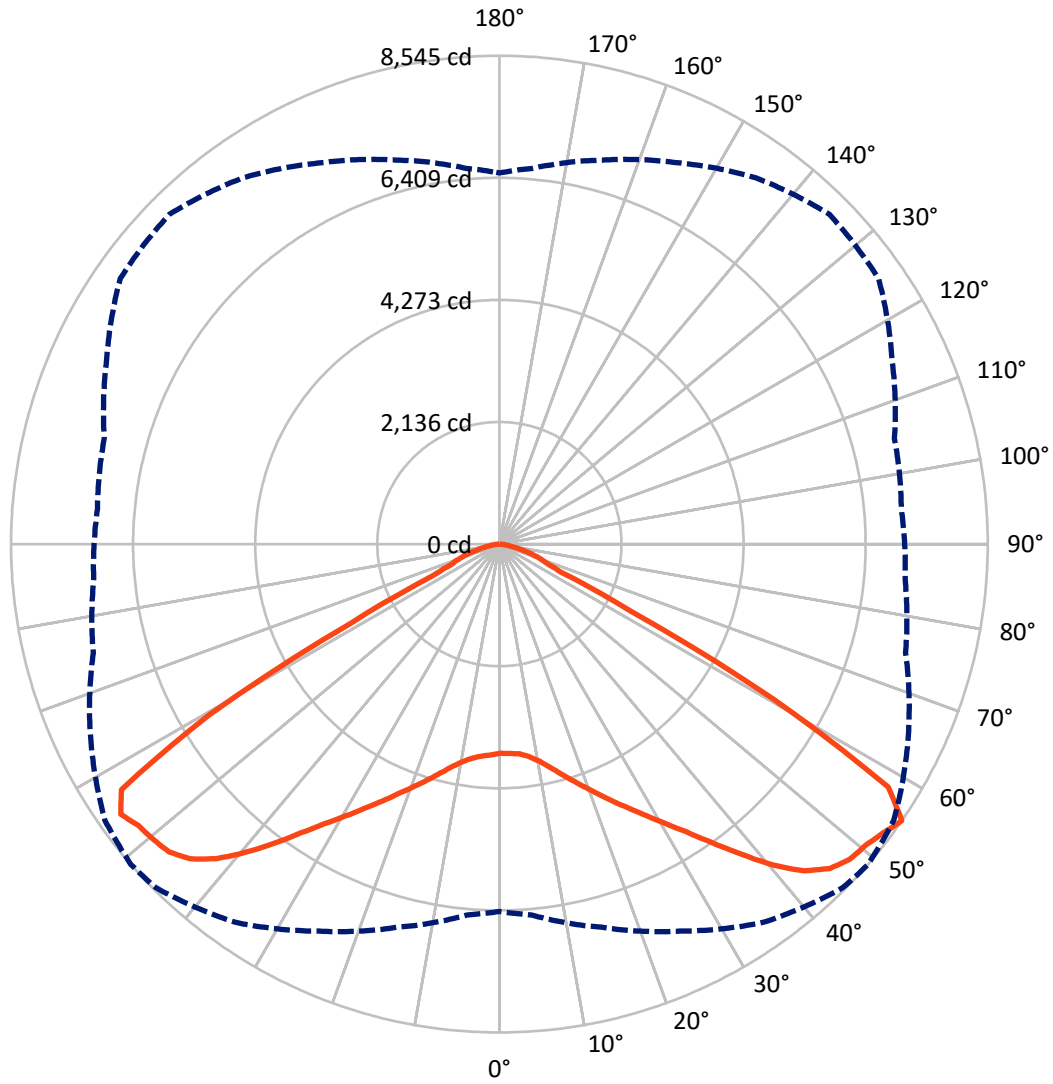
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	10938.3	0.0	10938.3
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	11155.1	0.0	11155.1
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	22093.4	0.0	22093.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.0	1.6
10°-20°	1177.6	5.3
20°-30°	2243.0	10.2
30°-40°	3802.4	17.2
40°-50°	5722.3	25.9
50°-60°	6263.7	28.4
60°-70°	1980.6	9.0
70°-80°	475.3	2.2
80°-90°	71.3	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°	22093.4	100.0
0°-180°	22093.4	100.0

**Coefficient of Utilization**



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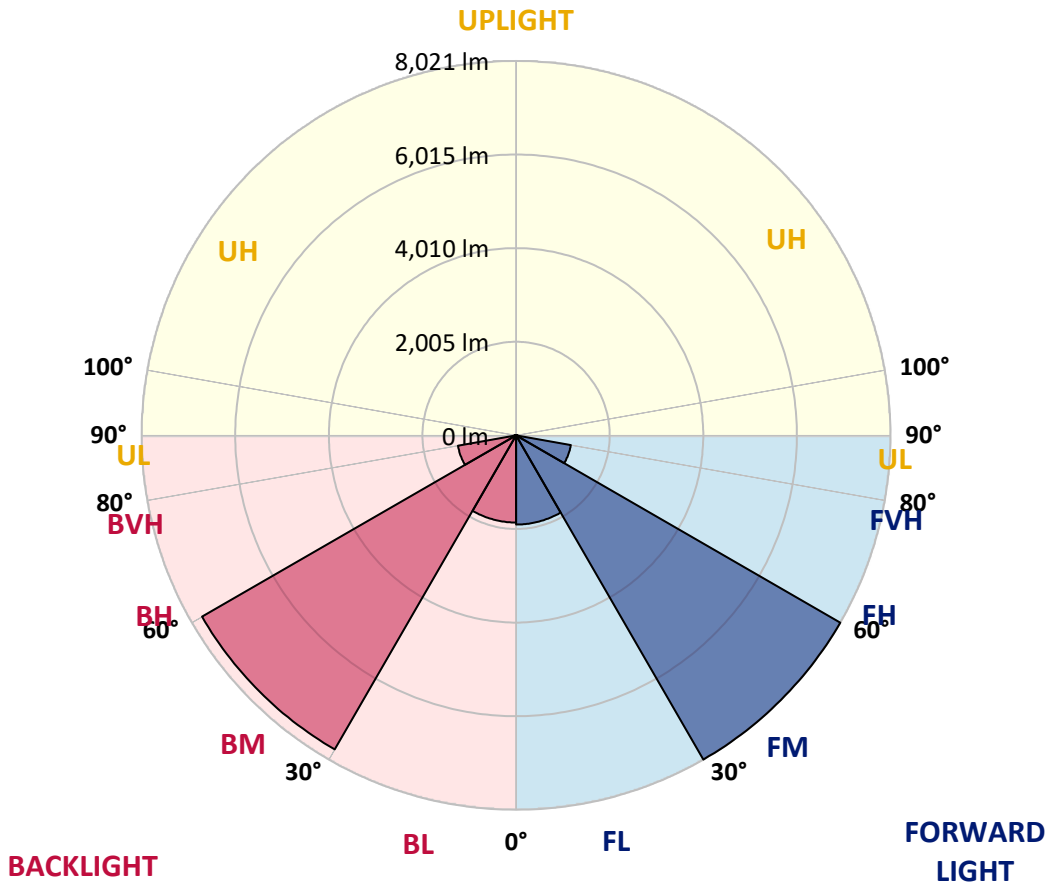
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.2	8.6			
FM (30°-60°)	8020.5	36.3			
FH (60°-80°)	1191.4	5.4			G1/1800
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	1867.5	8.5	B3/2500		
BM (30°-60°)	7767.9	35.2	B4/8500		
BH (60°-80°)	1264.6	5.7	B3/2500		G1/1800
BVH (80°-90°)	38.3	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°	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9
2.5°	3606.0	3609.6	3616.8	3629.4	3641.9	3659.9	3667.1	3676.1	3674.3	3685.1	3685.1
5°	3588.0	3593.4	3604.2	3622.2	3643.7	3677.9	3686.9	3708.4	3730.0	3756.9	3765.9
7.5°	3609.6	3616.8	3629.4	3658.1	3690.4	3735.4	3753.3	3789.3	3830.6	3879.1	3898.9
10°	3650.9	3659.9	3681.5	3728.2	3780.3	3848.6	3864.7	3909.6	3976.1	4042.6	4082.1
12.5°	3697.6	3712.0	3751.5	3825.2	3902.5	3992.3	4017.5	4073.1	4145.0	4231.3	4285.2
15°	3751.5	3764.1	3825.2	3929.4	4049.8	4168.4	4197.1	4251.0	4331.9	4416.3	4491.8
17.5°	3864.7	3886.3	3958.2	4078.5	4218.7	4358.8	4391.2	4452.3	4516.9	4583.4	4655.3
20°	4019.2	4037.2	4128.8	4278.0	4443.3	4570.8	4603.2	4657.1	4687.6	4721.8	4782.9
22.5°	4173.8	4198.9	4303.1	4479.2	4673.3	4811.6	4836.8	4887.1	4865.5	4854.7	4894.2
25°	4366.0	4400.2	4502.6	4694.8	4892.5	5063.1	5082.9	5126.0	5090.1	5034.4	5032.6
27.5°	4605.0	4635.5	4741.5	4939.2	5135.0	5312.9	5350.6	5408.1	5329.1	5260.8	5212.3
30°	4888.9	4908.6	5025.4	5235.6	5436.9	5605.7	5654.3	5711.8	5652.5	5539.3	5490.8
32.5°	5219.5	5246.4	5381.2	5602.2	5781.8	5950.7	5999.2	6071.1	6006.4	5878.8	5817.8
35°	5616.5	5643.5	5785.4	6026.2	6209.4	6383.7	6417.9	6477.2	6396.3	6249.0	6200.5
37.5°	6047.7	6081.9	6261.5	6489.7	6682.0	6885.0	6886.8	6904.8	6789.8	6606.5	6552.6
40°	6532.9	6577.8	6757.4	6994.6	7226.4	7391.7	7389.9	7339.6	7145.5	6861.6	6779.0
42.5°	7012.6	7048.5	7230.0	7474.3	7706.1	7862.4	7815.7	7693.5	7413.2	7026.9	6917.3
45°	7359.3	7386.3	7576.7	7851.6	8087.0	8184.0	8099.6	7952.3	7573.1	7131.2	6969.5
47.5°	7522.8	7558.8	7751.0	8024.1	8290.0	8345.7	8245.1	8106.8	7666.6	7228.2	7010.8
50°	7434.8	7481.5	7698.9	7952.3	8252.3	8367.3	8295.4	8157.1	7765.4	7323.4	7084.4
52.5°	7206.6	7251.5	7526.4	7833.7	8173.3	8401.4	8399.6	8286.4	7878.6	7350.4	7088.0
55°	6426.8	6514.9	6942.5	7472.5	8076.2	8502.0	8545.2	8424.8	7896.6	7357.5	7125.8
57.5°	4182.7	4337.3	4743.3	5433.3	6644.2	7733.1	8024.1	8052.9	7767.2	7327.0	7133.0
60°	1746.4	1870.4	2192.0	2650.2	3650.9	4946.4	5510.5	6076.5	6759.2	7007.2	7066.5
62.5°	1085.2	1096.0	1128.3	1232.5	1566.7	2199.2	2562.1	3092.1	4107.3	4971.5	5370.4
65°	979.2	984.6	991.8	984.6	1000.8	1078.0	1175.1	1360.1	1773.4	2202.8	2713.0
67.5°	862.4	869.6	875.0	869.6	875.0	878.6	889.4	905.5	981.0	1042.1	1088.8
70°	697.1	707.9	716.9	713.3	734.9	734.9	745.6	758.2	795.9	840.9	873.2
72.5°	531.8	522.8	533.6	537.2	557.0	567.8	583.9	598.3	641.4	668.4	709.7
75°	345.0	336.0	352.2	361.1	388.1	402.5	416.8	431.2	461.8	479.7	519.3
77.5°	186.9	185.1	201.2	213.8	242.6	260.5	271.3	282.1	307.2	312.6	337.8
80°	107.8	107.8	118.6	127.6	145.5	165.3	176.1	185.1	203.0	208.4	219.2
82.5°	59.3	59.3	64.7	70.1	84.4	95.2	104.2	111.4	127.6	133.0	138.3
85°	28.7	27.0	30.5	34.1	39.5	44.9	50.3	53.9	66.5	70.1	77.3
87.5°	3.6	3.6	3.6	5.4	7.2	10.8	12.6	12.6	19.8	23.4	27.0
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°	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9	3659.9
2.5°	3695.8	3672.5	3686.9	3692.2	3692.2	3686.9	3663.5	3656.3	3645.5	3629.4	3629.4
5°	3778.5	3760.5	3764.1	3755.1	3733.6	3706.6	3663.5	3641.9	3624.0	3604.2	3602.4
7.5°	3920.4	3897.1	3893.5	3859.3	3801.8	3744.4	3679.7	3640.1	3613.2	3588.0	3586.2
10°	4105.5	4083.9	4057.0	3988.7	3904.3	3819.8	3731.8	3677.9	3638.3	3602.4	3600.6
12.5°	4312.1	4287.0	4236.7	4136.0	4030.0	3947.4	3846.8	3764.1	3704.8	3656.3	3647.3
15°	4536.7	4500.8	4414.5	4295.9	4191.7	4103.7	3995.9	3877.3	3787.5	3710.2	3701.2
17.5°	4709.2	4662.5	4569.0	4457.6	4371.4	4283.4	4143.2	3994.1	3864.7	3767.7	3753.3
20°	4827.8	4790.0	4684.0	4601.4	4551.1	4473.8	4310.3	4141.4	3995.9	3873.7	3866.5
22.5°	4937.4	4892.5	4788.2	4739.7	4739.7	4687.6	4531.3	4331.9	4161.2	4019.2	4001.3
25°	5061.3	5012.8	4933.8	4928.4	4953.5	4930.2	4741.5	4527.7	4328.3	4168.4	4139.6
27.5°	5233.8	5179.9	5133.2	5165.6	5201.5	5176.3	4966.1	4718.2	4508.0	4346.3	4321.1
30°	5508.7	5442.2	5399.1	5438.7	5508.7	5435.1	5206.9	4944.6	4732.5	4554.7	4542.1
32.5°	5828.5	5753.1	5708.2	5771.0	5833.9	5718.9	5492.6	5241.0	5018.2	4831.4	4809.8
35°	6213.0	6117.8	6051.3	6135.8	6200.5	6087.3	5862.7	5623.7	5375.8	5181.7	5153.0
37.5°	6554.4	6439.4	6394.5	6513.1	6599.3	6525.7	6281.3	6056.7	5785.4	5573.4	5560.8
40°	6802.4	6689.2	6656.8	6852.7	7003.6	6985.6	6766.4	6509.5	6254.4	6010.0	5986.6
42.5°	6910.2	6831.1	6838.3	7102.4	7336.0	7451.0	7255.1	6980.2	6734.1	6480.7	6464.6
45°	6933.5	6885.0	6942.5	7273.1	7580.3	7815.7	7648.6	7418.6	7140.1	6895.8	6888.6
47.5°	6958.7	6931.7	7019.8	7370.1	7734.9	8008.0	7914.5	7677.4	7395.3	7156.3	7138.3
50°	7018.0	7007.2	7106.0	7438.4	7808.5	8060.1	7954.1	7718.7	7429.4	7194.0	7150.9
52.5°	7035.9	7018.0	7159.9	7544.4	7930.7	8058.3	7830.1	7522.8	7231.8	6969.5	6924.5
55°	7091.6	7059.3	7156.3	7583.9	8099.6	8162.5	7822.9	7362.9	6956.9	6599.3	6493.3
57.5°	7106.0	7070.1	7133.0	7519.2	7916.3	7860.6	6876.0	5941.7	5176.3	4779.3	4824.2
60°	7028.7	7039.5	6931.7	6888.6	6349.6	5605.7	4209.7	3365.2	2643.0	2337.5	2404.0
62.5°	5350.6	5395.5	5027.2	4371.4	3361.7	2664.5	1762.6	1369.1	1158.9	1105.0	1114.0
65°	2700.5	2761.5	2378.8	1967.4	1462.5	1182.2	1022.3	990.0	979.2	966.6	966.6
67.5°	1069.0	1087.0	1072.6	1004.4	934.3	909.1	902.0	898.4	885.8	878.6	880.4
70°	858.8	873.2	851.6	808.5	779.8	778.0	774.4	767.2	758.2	758.2	763.6
72.5°	700.7	715.1	684.5	657.6	636.0	619.9	610.9	605.5	592.9	592.9	598.3
75°	515.7	524.6	499.5	495.9	472.5	456.4	442.0	434.8	418.6	411.4	416.8
77.5°	343.2	341.4	328.8	328.8	319.8	300.1	283.9	267.7	246.1	231.8	235.4
80°	222.8	222.8	217.4	217.4	208.4	192.2	172.5	156.3	143.7	133.0	133.0
82.5°	141.9	140.1	138.3	136.6	133.0	116.8	102.4	91.6	82.6	75.5	77.3
85°	79.1	79.1	75.5	75.5	68.3	59.3	52.1	44.9	39.5	37.7	37.7
87.5°	27.0	27.0	25.2	25.2	21.6	16.2	12.6	10.8	9.0	7.2	9.0
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)