

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: P636322

Luminaire Tested: GWS-SA3F-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636322  
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-SA3F-750-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

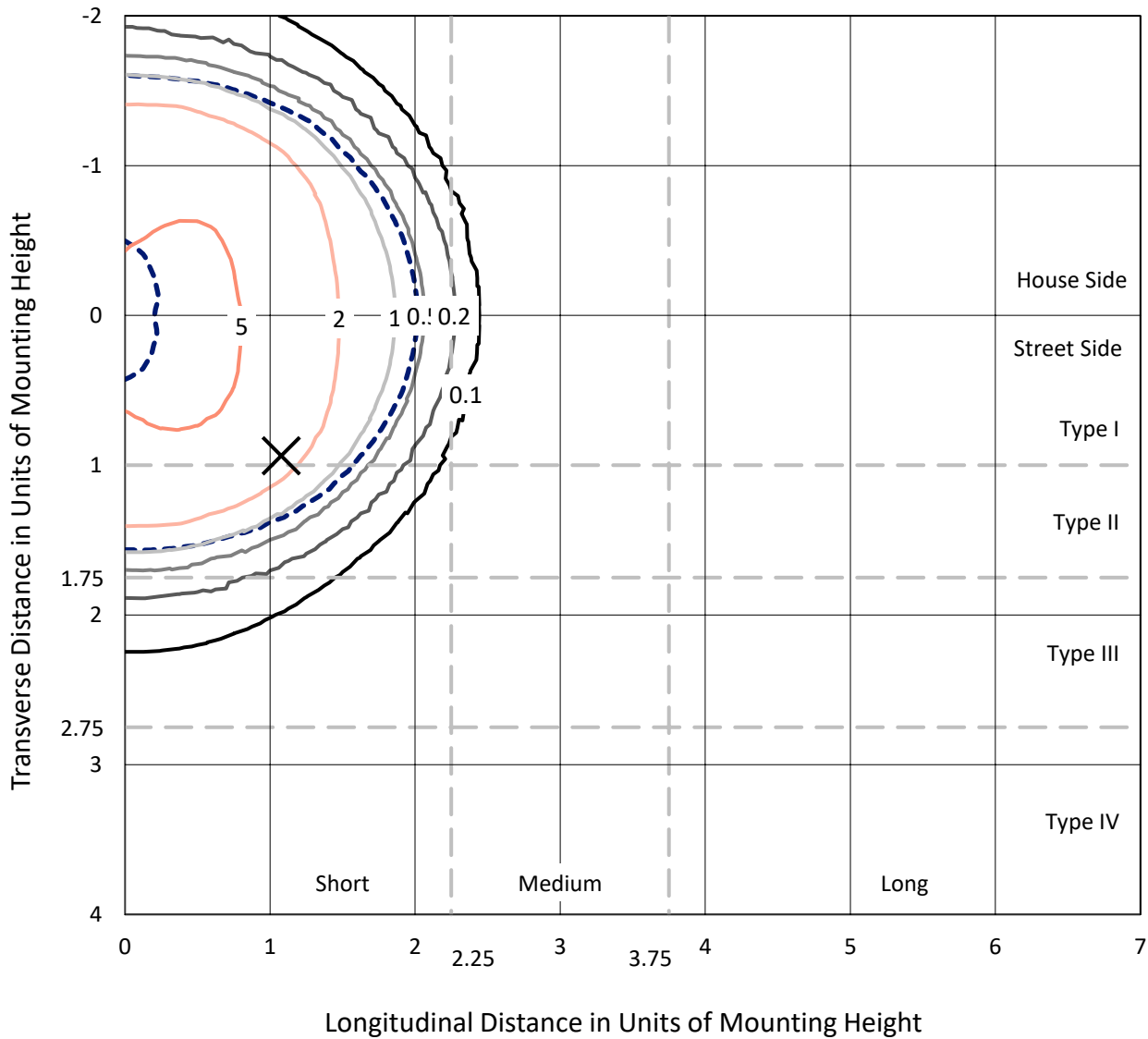
Lumens per Lamp: N/A  
Luminaire Lumens: 22048 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

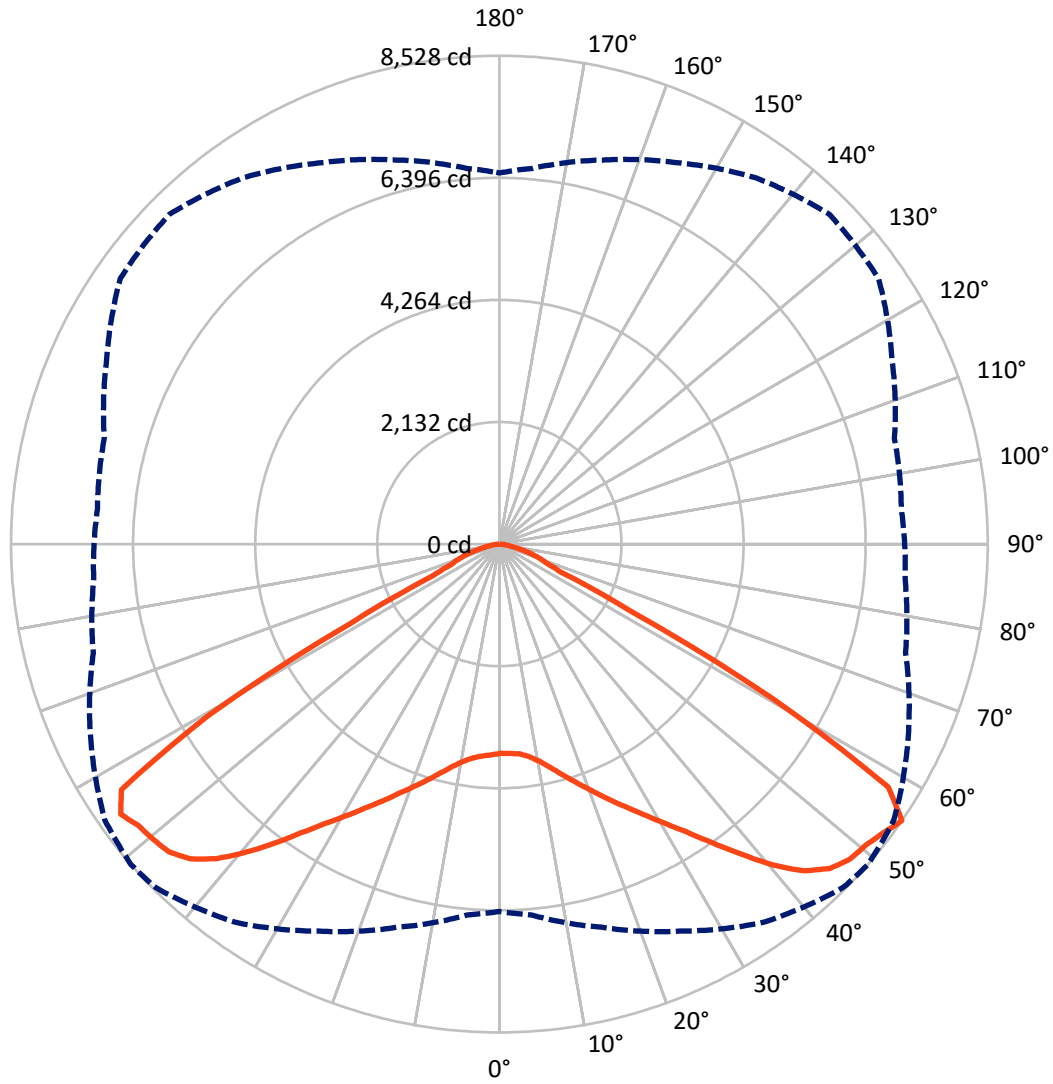
✕ Max cd  
 - - - 1/2 Max cd



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	10915.9	0.0	10915.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	11132.1	0.0	11132.1
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	22048.0	0.0	22048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.3	1.6
10°-20°	1175.2	5.3
20°-30°	2238.4	10.2
30°-40°	3794.6	17.2
40°-50°	5710.6	25.9
50°-60°	6250.8	28.4
60°-70°	1976.5	9.0
70°-80°	474.4	2.2
80°-90°	71.2	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°	22048.0	100.0
0°-180°	22048.0	100.0

**Coefficient of Utilization**



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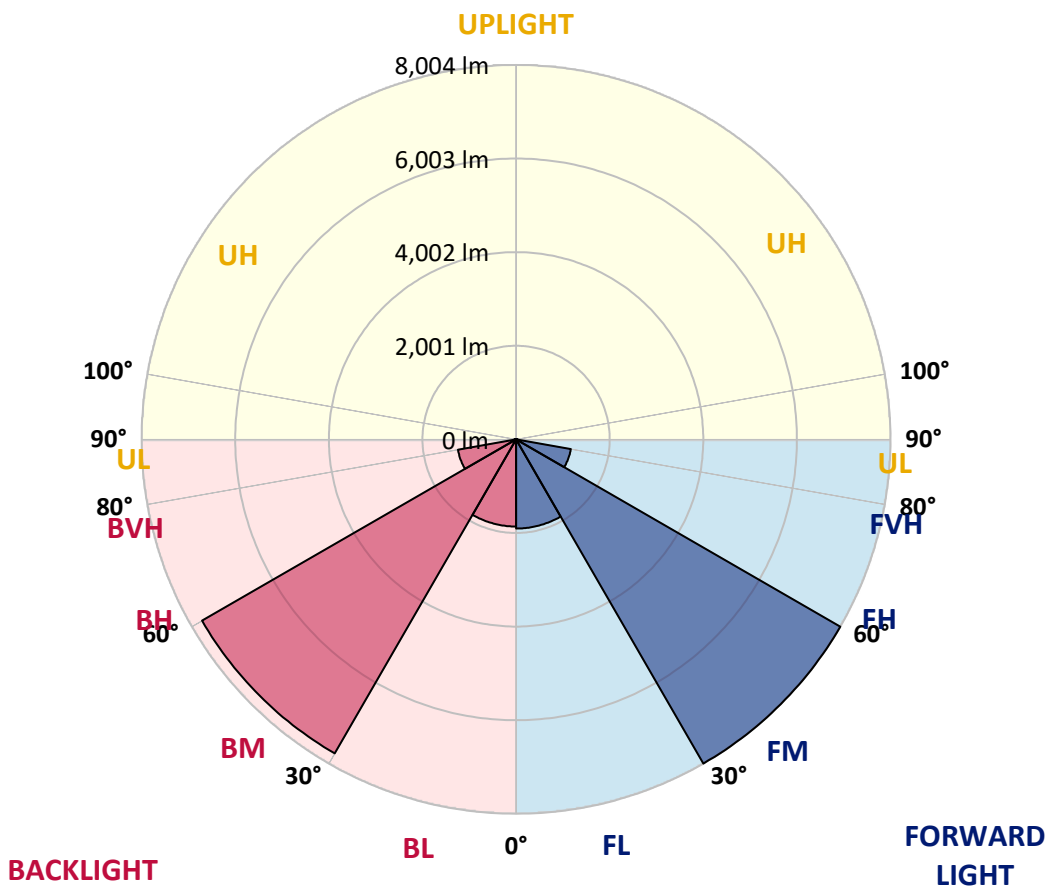
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.2	8.6			
FM (30°-60°)	8004.0	36.3			
FH (60°-80°)	1188.9	5.4			G1/1800
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	1863.7	8.5	B3/2500		
BM (30°-60°)	7752.0	35.2	B4/8500		
BH (60°-80°)	1262.0	5.7	B3/2500		G1/1800
BVH (80°-90°)	38.2	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°	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4
2.5°	3598.6	3602.2	3609.4	3621.9	3634.5	3652.4	3659.6	3668.5	3666.7	3677.5	3677.5
5°	3580.7	3586.0	3596.8	3614.7	3636.2	3670.3	3679.3	3700.8	3722.3	3749.2	3758.2
7.5°	3602.2	3609.4	3621.9	3650.6	3682.9	3727.7	3745.6	3781.5	3822.7	3871.1	3890.9
10°	3643.4	3652.4	3673.9	3720.5	3772.5	3840.7	3856.8	3901.6	3968.0	4034.3	4073.7
12.5°	3690.0	3704.4	3743.8	3817.3	3894.4	3984.1	4009.2	4064.8	4136.5	4222.6	4276.4
15°	3743.8	3756.4	3817.3	3921.3	4041.5	4159.8	4188.5	4242.3	4323.0	4407.2	4482.6
17.5°	3856.8	3878.3	3950.0	4070.2	4210.0	4349.9	4382.1	4443.1	4507.7	4574.0	4645.7
20°	4011.0	4028.9	4120.4	4269.2	4434.1	4561.4	4593.7	4647.5	4678.0	4712.1	4773.0
22.5°	4165.2	4190.3	4294.3	4470.0	4663.6	4801.7	4826.8	4877.0	4855.5	4844.7	4884.2
25°	4357.0	4391.1	4493.3	4685.2	4882.4	5052.7	5072.5	5115.5	5079.6	5024.0	5022.3
27.5°	4595.5	4626.0	4731.8	4929.0	5124.5	5302.0	5339.6	5397.0	5318.1	5250.0	5201.6
30°	4878.8	4898.5	5015.1	5224.9	5425.7	5594.2	5642.6	5700.0	5640.8	5527.9	5479.5
32.5°	5208.7	5235.6	5370.1	5590.6	5769.9	5938.5	5986.9	6058.6	5994.1	5866.8	5805.8
35°	5605.0	5631.9	5773.5	6013.8	6196.7	6370.6	6404.7	6463.8	6383.2	6236.1	6187.7
37.5°	6035.3	6069.4	6248.7	6476.4	6668.2	6870.9	6872.7	6890.6	6775.8	6592.9	6539.1
40°	6519.4	6564.3	6743.6	6980.2	7211.5	7376.5	7374.7	7324.5	7130.8	6847.5	6765.1
42.5°	6998.2	7034.0	7215.1	7459.0	7690.3	7846.3	7799.6	7677.7	7398.0	7012.5	6903.1
45°	7344.2	7371.1	7561.2	7835.5	8070.4	8167.2	8082.9	7935.9	7557.6	7116.5	6955.1
47.5°	7507.4	7543.2	7735.1	8007.6	8273.0	8328.6	8228.2	8090.1	7650.8	7213.3	6996.4
50°	7419.5	7466.1	7683.1	7935.9	8235.3	8350.1	8278.4	8140.3	7749.4	7308.4	7069.9
52.5°	7191.8	7236.6	7511.0	7817.6	8156.5	8384.2	8382.4	8269.4	7862.4	7335.3	7073.5
55°	6413.6	6501.5	6928.2	7457.2	8059.6	8484.6	8527.6	8407.5	7880.3	7342.4	7111.1
57.5°	4174.2	4328.4	4733.6	5422.1	6630.6	7717.2	8007.6	8036.3	7751.2	7311.9	7118.3
60°	1742.8	1866.5	2187.5	2644.7	3643.4	4936.2	5499.2	6064.0	6745.3	6992.8	7052.0
62.5°	1083.0	1093.7	1126.0	1230.0	1563.5	2194.7	2556.8	3085.8	4098.8	4961.3	5359.3
65°	977.2	982.6	989.7	982.6	998.7	1075.8	1172.6	1357.3	1769.7	2198.2	2707.5
67.5°	860.7	867.8	873.2	867.8	873.2	876.8	887.5	903.7	979.0	1040.0	1086.6
70°	695.7	706.5	715.4	711.8	733.3	733.3	744.1	756.7	794.3	839.1	871.4
72.5°	530.7	521.8	532.5	536.1	555.8	566.6	582.7	597.1	640.1	667.0	708.2
75°	344.3	335.3	351.4	360.4	387.3	401.6	416.0	430.3	460.8	478.7	518.2
77.5°	186.5	184.7	200.8	213.4	242.1	260.0	270.7	281.5	306.6	312.0	337.1
80°	107.6	107.6	118.3	127.3	145.2	165.0	175.7	184.7	202.6	208.0	218.7
82.5°	59.2	59.2	64.5	69.9	84.3	95.0	104.0	111.2	127.3	132.7	138.1
85°	28.7	26.9	30.5	34.1	39.4	44.8	50.2	53.8	66.3	69.9	77.1
87.5°	3.6	3.6	3.6	5.4	7.2	10.8	12.6	12.6	19.7	23.3	26.9
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°	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4
2.5°	3688.2	3664.9	3679.3	3684.7	3684.7	3679.3	3656.0	3648.8	3638.0	3621.9	3621.9
5°	3770.7	3752.8	3756.4	3747.4	3725.9	3699.0	3656.0	3634.5	3616.5	3596.8	3595.0
7.5°	3912.4	3889.1	3885.5	3851.4	3794.0	3736.7	3672.1	3632.7	3605.8	3580.7	3578.9
10°	4097.1	4075.5	4048.6	3980.5	3896.2	3812.0	3724.1	3670.3	3630.9	3595.0	3593.2
12.5°	4303.3	4278.1	4227.9	4127.5	4021.7	3939.3	3838.9	3756.4	3697.2	3648.8	3639.8
15°	4527.4	4491.5	4405.5	4287.1	4183.1	4095.3	3987.7	3869.3	3779.7	3702.6	3693.6
17.5°	4699.5	4652.9	4559.7	4448.5	4362.4	4274.6	4134.7	3985.9	3856.8	3760.0	3745.6
20°	4817.8	4780.2	4674.4	4591.9	4541.7	4464.6	4301.5	4132.9	3987.7	3865.8	3858.6
22.5°	4927.2	4882.4	4778.4	4730.0	4730.0	4678.0	4522.0	4323.0	4152.6	4011.0	3993.1
25°	5050.9	5002.5	4923.6	4918.3	4943.4	4920.1	4731.8	4518.4	4319.4	4159.8	4131.1
27.5°	5223.1	5169.3	5122.7	5154.9	5190.8	5165.7	4955.9	4708.5	4498.7	4337.3	4312.2
30°	5497.4	5431.1	5388.0	5427.5	5497.4	5423.9	5196.2	4934.4	4722.8	4545.3	4532.8
32.5°	5816.6	5741.3	5696.4	5759.2	5821.9	5707.2	5481.3	5230.2	5007.9	4821.4	4799.9
35°	6200.3	6105.2	6038.9	6123.2	6187.7	6074.8	5850.6	5612.2	5364.7	5171.1	5142.4
37.5°	6540.9	6426.2	6381.4	6499.7	6585.8	6512.3	6268.4	6044.3	5773.5	5562.0	5549.4
40°	6788.4	6675.4	6643.1	6838.6	6989.2	6971.3	6752.5	6496.1	6241.5	5997.7	5974.3
42.5°	6896.0	6817.1	6824.2	7087.8	7320.9	7435.7	7240.2	6965.9	6720.2	6467.4	6451.3
45°	6919.3	6870.9	6928.2	7258.2	7564.8	7799.6	7632.9	7403.4	7125.5	6881.6	6874.4
47.5°	6944.4	6917.5	7005.3	7355.0	7719.0	7991.5	7898.3	7661.6	7380.1	7141.6	7123.7
50°	7003.5	6992.8	7091.4	7423.1	7792.5	8043.5	7937.7	7702.8	7414.1	7179.3	7136.2
52.5°	7021.5	7003.5	7145.2	7528.9	7914.4	8041.7	7814.0	7507.4	7216.9	6955.1	6910.3
55°	7077.1	7044.8	7141.6	7568.3	8082.9	8145.7	7806.8	7347.8	6942.6	6585.8	6480.0
57.5°	7091.4	7055.5	7118.3	7503.8	7900.1	7844.5	6861.9	5929.5	5165.7	4769.4	4814.3
60°	7014.3	7025.1	6917.5	6874.4	6336.5	5594.2	4201.0	3358.3	2637.5	2332.7	2399.1
62.5°	5339.6	5384.4	5016.9	4362.4	3354.7	2659.1	1759.0	1366.3	1156.5	1102.7	1111.7
65°	2694.9	2755.9	2374.0	1963.4	1459.5	1179.8	1020.2	988.0	977.2	964.6	964.6
67.5°	1066.8	1084.8	1070.4	1002.3	932.4	907.3	900.1	896.5	884.0	876.8	878.6
70°	857.1	871.4	849.9	806.9	778.2	776.4	772.8	765.6	756.7	756.7	762.0
72.5°	699.3	713.6	683.1	656.2	634.7	618.6	609.6	604.2	591.7	591.7	597.1
75°	514.6	523.6	498.5	494.9	471.6	455.4	441.1	433.9	417.8	410.6	416.0
77.5°	342.5	340.7	328.1	328.1	319.2	299.4	283.3	267.2	245.6	231.3	234.9
80°	222.3	222.3	217.0	217.0	208.0	191.9	172.1	156.0	143.4	132.7	132.7
82.5°	141.6	139.9	138.1	136.3	132.7	116.5	102.2	91.4	82.5	75.3	77.1
85°	78.9	78.9	75.3	75.3	68.1	59.2	52.0	44.8	39.4	37.7	37.7
87.5°	26.9	26.9	25.1	25.1	21.5	16.1	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)