

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: P640502

Luminaire Tested: GWS-SA5E-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640502  
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

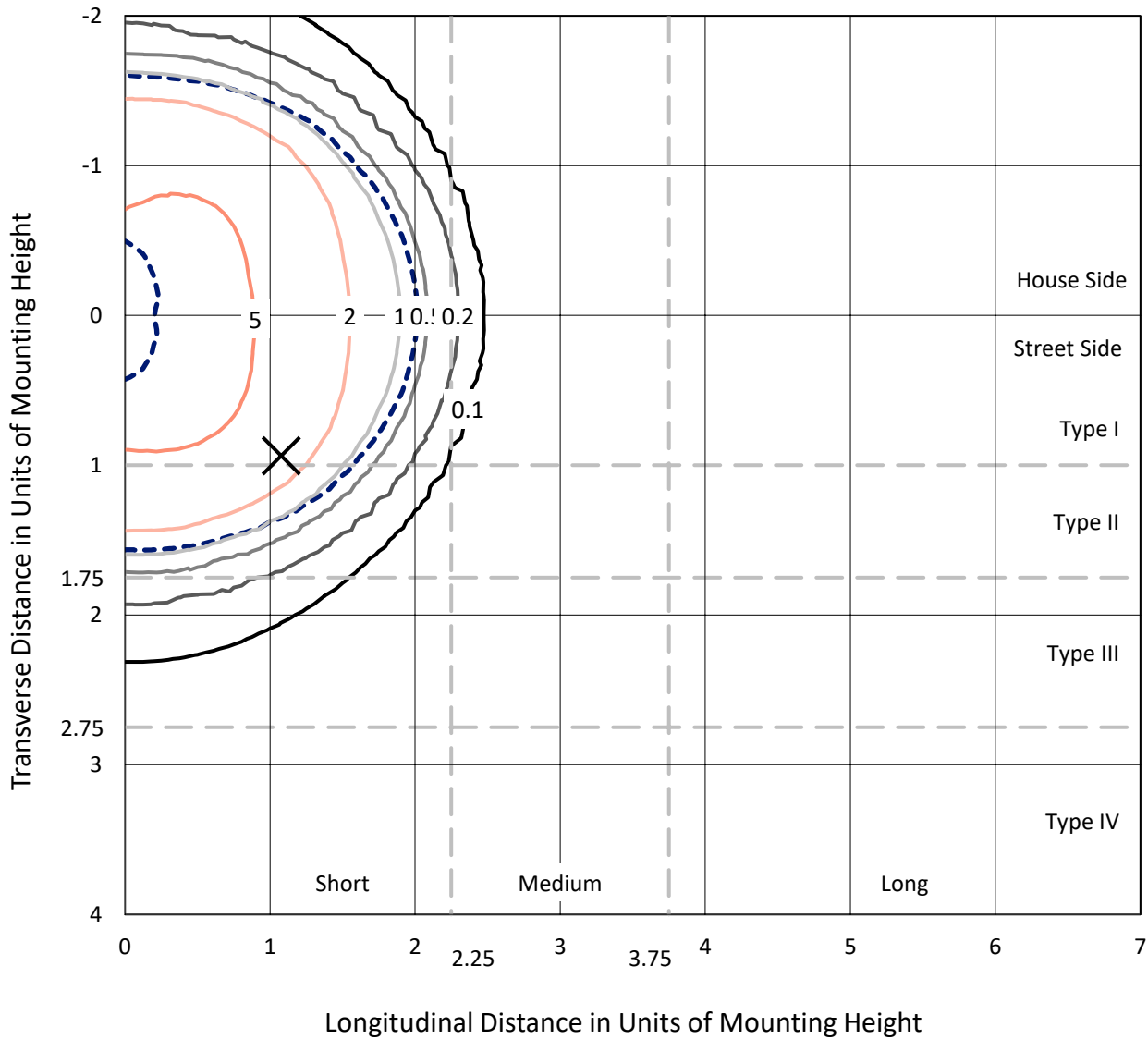
Lumens per Lamp: N/A  
Luminaire Lumens: 24376.5 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

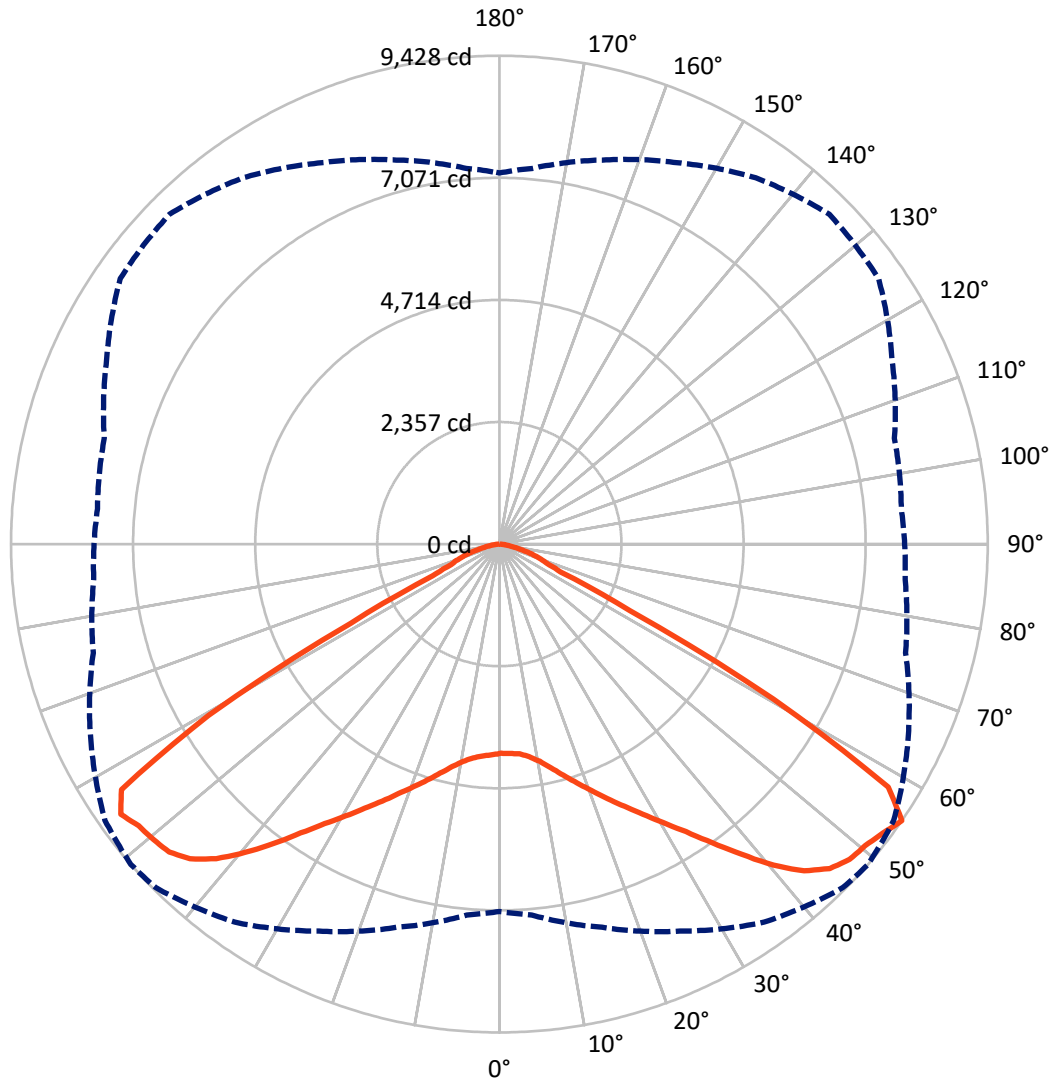
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	12068.7	0.0	12068.7
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	12307.8	0.0	12307.8
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	24376.5	0.0	24376.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.9	1.6
10°-20°	1299.3	5.3
20°-30°	2474.8	10.2
30°-40°	4195.3	17.2
40°-50°	6313.7	25.9
50°-60°	6911.0	28.4
60°-70°	2185.3	9.0
70°-80°	524.5	2.2
80°-90°	78.7	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°	24376.5	100.0
0°-180°	24376.5	100.0

**Coefficient of Utilization**



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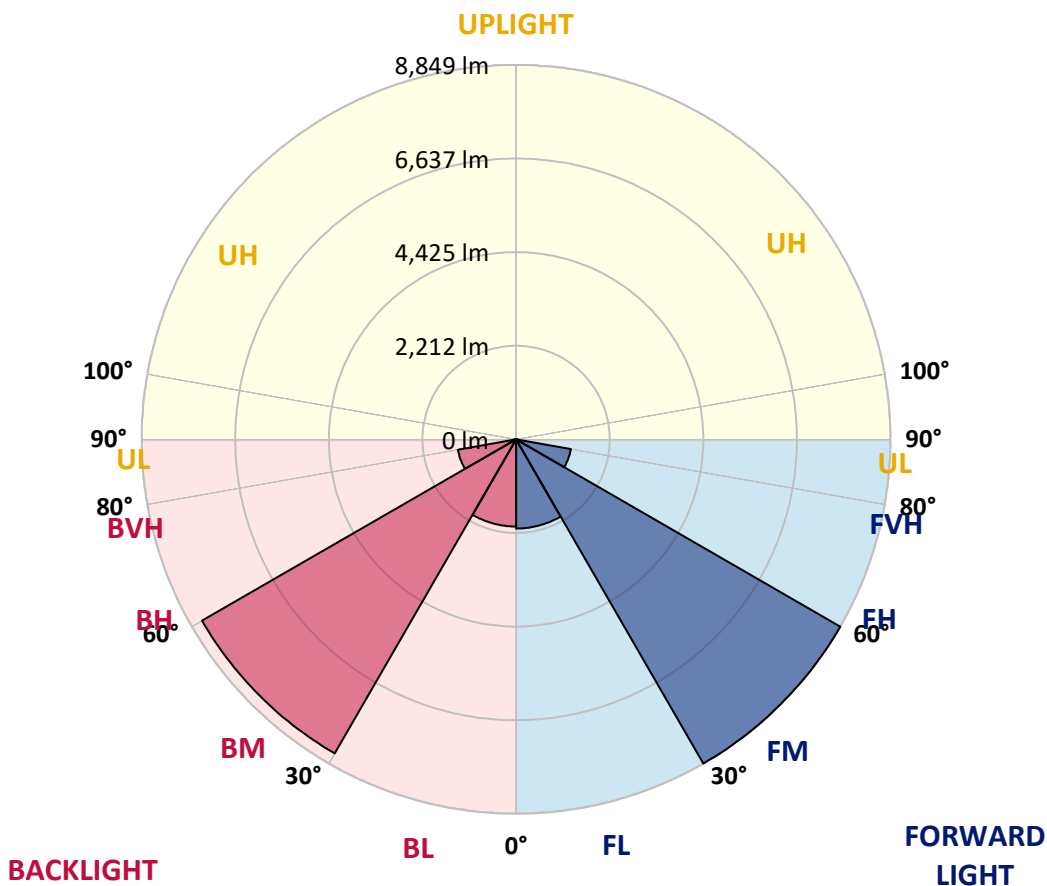
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.6	8.6			
FM (30°-60°)	8849.3	36.3			
FH (60°-80°)	1314.5	5.4			G1/1800
FVH (80°-90°)	36.4	0.1			G1/100
BL (0°-30°)	2060.5	8.5	B3/2500		
BM (30°-60°)	8570.6	35.2	B5		
BH (60°-80°)	1395.3	5.7	B3/2500		G1/1800
BVH (80°-90°)	42.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1
2.5°	3978.6	3982.6	3990.5	4004.4	4018.3	4038.1	4046.0	4056.0	4054.0	4065.9	4065.9
5°	3958.8	3964.8	3976.7	3996.5	4020.3	4057.9	4067.9	4091.6	4115.4	4145.2	4155.1
7.5°	3982.6	3990.5	4004.4	4036.1	4071.8	4121.4	4141.2	4180.8	4226.4	4280.0	4301.8
10°	4028.2	4038.1	4061.9	4113.4	4170.9	4246.3	4264.1	4313.7	4387.0	4460.4	4504.0
12.5°	4079.7	4095.6	4139.2	4220.5	4305.7	4404.9	4432.6	4494.1	4573.4	4668.5	4728.0
15°	4139.2	4153.1	4220.5	4335.5	4468.3	4599.1	4630.8	4690.3	4779.5	4872.7	4956.0
17.5°	4264.1	4287.9	4367.2	4500.0	4654.6	4809.3	4844.9	4912.3	4983.7	5057.1	5136.4
20°	4434.6	4454.4	4555.5	4720.1	4902.4	5043.2	5078.9	5138.3	5172.0	5209.7	5277.1
22.5°	4605.1	4632.8	4747.8	4942.1	5156.2	5308.8	5336.6	5392.1	5368.3	5356.4	5400.0
25°	4817.2	4854.9	4967.9	5180.0	5398.0	5586.4	5608.2	5655.7	5616.1	5554.6	5552.7
27.5°	5080.8	5114.5	5231.5	5449.6	5665.7	5861.9	5903.5	5967.0	5879.7	5804.4	5750.9
30°	5394.1	5415.9	5544.7	5776.7	5998.7	6185.0	6238.6	6302.0	6236.6	6111.7	6058.2
32.5°	5758.8	5788.6	5937.2	6181.1	6379.3	6565.7	6619.2	6698.5	6627.1	6486.4	6419.0
35°	6196.9	6226.7	6383.3	6648.9	6851.1	7043.4	7081.1	7146.5	7057.3	6894.7	6841.2
37.5°	6672.7	6710.4	6908.6	7160.4	7372.5	7596.5	7598.5	7618.3	7491.4	7289.2	7229.8
40°	7207.9	7257.5	7455.7	7717.4	7973.1	8155.5	8153.5	8098.0	7883.9	7570.7	7479.5
42.5°	7737.2	7776.9	7977.1	8246.7	8502.4	8674.9	8623.4	8488.6	8179.3	7753.1	7632.2
45°	8119.8	8149.6	8359.7	8663.0	8922.7	9029.8	8936.6	8774.0	8355.7	7868.1	7689.7
47.5°	8300.2	8339.9	8552.0	8853.3	9146.7	9208.2	9097.2	8944.5	8458.8	7975.1	7735.3
50°	8203.1	8254.6	8494.5	8774.0	9105.1	9232.0	9152.7	9000.0	8567.9	8080.2	7816.5
52.5°	7951.3	8000.9	8304.2	8643.2	9017.9	9269.6	9267.6	9142.8	8692.8	8109.9	7820.5
55°	7091.0	7188.1	7659.9	8244.7	8910.8	9380.6	9428.2	9295.4	8712.6	8117.9	7862.1
57.5°	4615.0	4785.5	5233.5	5994.7	7330.9	8532.2	8853.3	8885.0	8569.8	8084.2	7870.1
60°	1926.9	2063.7	2418.5	2924.0	4028.2	5457.5	6080.0	6704.4	7457.7	7731.3	7796.7
62.5°	1197.4	1209.3	1244.9	1359.9	1728.6	2426.4	2826.9	3411.7	4531.7	5485.3	5925.3
65°	1080.4	1086.3	1094.3	1086.3	1104.2	1189.4	1296.5	1500.7	1956.6	2430.4	2993.4
67.5°	951.5	959.5	965.4	959.5	965.4	969.4	981.3	999.1	1082.4	1149.8	1201.3
70°	769.2	781.1	791.0	787.0	810.8	810.8	822.7	836.6	878.2	927.8	963.4
72.5°	586.8	576.9	588.8	592.7	614.5	626.4	644.3	660.1	707.7	737.4	783.0
75°	380.6	370.7	388.5	398.5	428.2	444.1	459.9	475.8	509.5	529.3	572.9
77.5°	206.2	204.2	222.0	235.9	267.6	287.4	299.3	311.2	339.0	344.9	372.7
80°	118.9	118.9	130.8	140.7	160.6	182.4	194.3	204.2	224.0	230.0	241.9
82.5°	65.4	65.4	71.4	77.3	93.2	105.1	115.0	122.9	140.7	146.7	152.6
85°	31.7	29.7	33.7	37.7	43.6	49.6	55.5	59.5	73.3	77.3	85.2
87.5°	4.0	4.0	4.0	5.9	7.9	11.9	13.9	13.9	21.8	25.8	29.7
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°	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1	4038.1
2.5°	4077.8	4052.0	4067.9	4073.8	4073.8	4067.9	4042.1	4034.2	4022.3	4004.4	4004.4
5°	4169.0	4149.1	4153.1	4143.2	4119.4	4089.7	4042.1	4018.3	3998.5	3976.7	3974.7
7.5°	4325.6	4299.8	4295.8	4258.2	4194.7	4131.3	4059.9	4016.3	3986.6	3958.8	3956.8
10°	4529.7	4506.0	4476.2	4400.9	4307.7	4214.5	4117.4	4057.9	4014.3	3974.7	3972.7
12.5°	4757.7	4730.0	4674.5	4563.4	4446.5	4355.3	4244.3	4153.1	4087.7	4034.2	4024.2
15°	5005.5	4965.9	4870.7	4739.9	4624.9	4527.8	4408.8	4278.0	4178.9	4093.6	4083.7
17.5°	5195.8	5144.3	5041.2	4918.3	4823.1	4726.0	4571.4	4406.8	4264.1	4157.1	4141.2
20°	5326.7	5285.0	5168.1	5076.9	5021.4	4936.1	4755.7	4569.4	4408.8	4274.0	4266.1
22.5°	5447.6	5398.0	5283.1	5229.5	5229.5	5172.0	4999.6	4779.5	4591.2	4434.6	4414.8
25°	5584.4	5530.8	5443.6	5437.7	5465.4	5439.7	5231.5	4995.6	4775.6	4599.1	4567.4
27.5°	5774.7	5715.2	5663.7	5699.4	5739.0	5711.2	5479.3	5205.7	4973.8	4795.4	4767.6
30°	6078.0	6004.6	5957.1	6000.7	6078.0	5996.7	5744.9	5455.5	5221.6	5025.3	5011.5
32.5°	6430.9	6347.6	6298.0	6367.4	6436.8	6309.9	6060.1	5782.6	5536.8	5330.6	5306.8
35°	6855.1	6750.0	6676.7	6769.8	6841.2	6716.3	6468.5	6204.9	5931.3	5717.2	5685.5
37.5°	7231.7	7104.9	7055.3	7186.1	7281.3	7200.0	6930.4	6682.6	6383.3	6149.4	6135.5
40°	7505.3	7380.4	7344.7	7560.8	7727.3	7707.5	7465.7	7182.2	6900.7	6631.1	6605.3
42.5°	7624.2	7537.0	7545.0	7836.4	8094.1	8220.9	8004.9	7701.6	7430.0	7150.5	7132.6
45°	7650.0	7596.5	7659.9	8024.7	8363.7	8623.4	8439.0	8185.3	7878.0	7608.4	7600.5
47.5°	7677.8	7648.0	7745.2	8131.7	8534.2	8835.5	8732.4	8470.7	8159.5	7895.8	7876.0
50°	7743.2	7731.3	7840.3	8207.1	8615.4	8893.0	8776.0	8516.3	8197.2	7937.5	7889.9
52.5°	7763.0	7743.2	7899.8	8324.0	8750.2	8891.0	8639.2	8300.2	7979.1	7689.7	7640.1
55°	7824.5	7788.8	7895.8	8367.6	8936.6	9006.0	8631.3	8123.8	7675.8	7281.3	7164.3
57.5°	7840.3	7800.7	7870.1	8296.3	8734.4	8672.9	7586.6	6555.7	5711.2	5273.1	5322.7
60°	7755.1	7767.0	7648.0	7600.5	7005.7	6185.0	4644.7	3713.0	2916.1	2579.1	2652.4
62.5°	5903.5	5953.1	5546.7	4823.1	3709.0	2939.9	1944.7	1510.6	1278.6	1219.2	1229.1
65°	2979.5	3046.9	2624.7	2170.7	1613.7	1304.4	1128.0	1092.3	1080.4	1066.5	1066.5
67.5°	1179.5	1199.3	1183.5	1108.2	1030.8	1003.1	995.2	991.2	977.3	969.4	971.4
70°	947.6	963.4	939.6	892.1	860.4	858.4	854.4	846.5	836.6	836.6	842.5
72.5°	773.1	789.0	755.3	725.6	701.8	683.9	674.0	668.1	654.2	654.2	660.1
75°	568.9	578.9	551.1	547.1	521.4	503.5	487.7	479.7	461.9	454.0	459.9
77.5°	378.6	376.7	362.8	362.8	352.9	331.1	313.2	295.4	271.6	255.7	259.7
80°	245.8	245.8	239.9	239.9	230.0	212.1	190.3	172.5	158.6	146.7	146.7
82.5°	156.6	154.6	152.6	150.7	146.7	128.9	113.0	101.1	91.2	83.3	85.2
85°	87.2	87.2	83.3	83.3	75.3	65.4	57.5	49.6	43.6	41.6	41.6
87.5°	29.7	29.7	27.8	27.8	23.8	17.8	13.9	11.9	9.9	7.9	9.9
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)