

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: P640337

Luminaire Tested: GWS-SA5D-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640337  
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-SA5D-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**

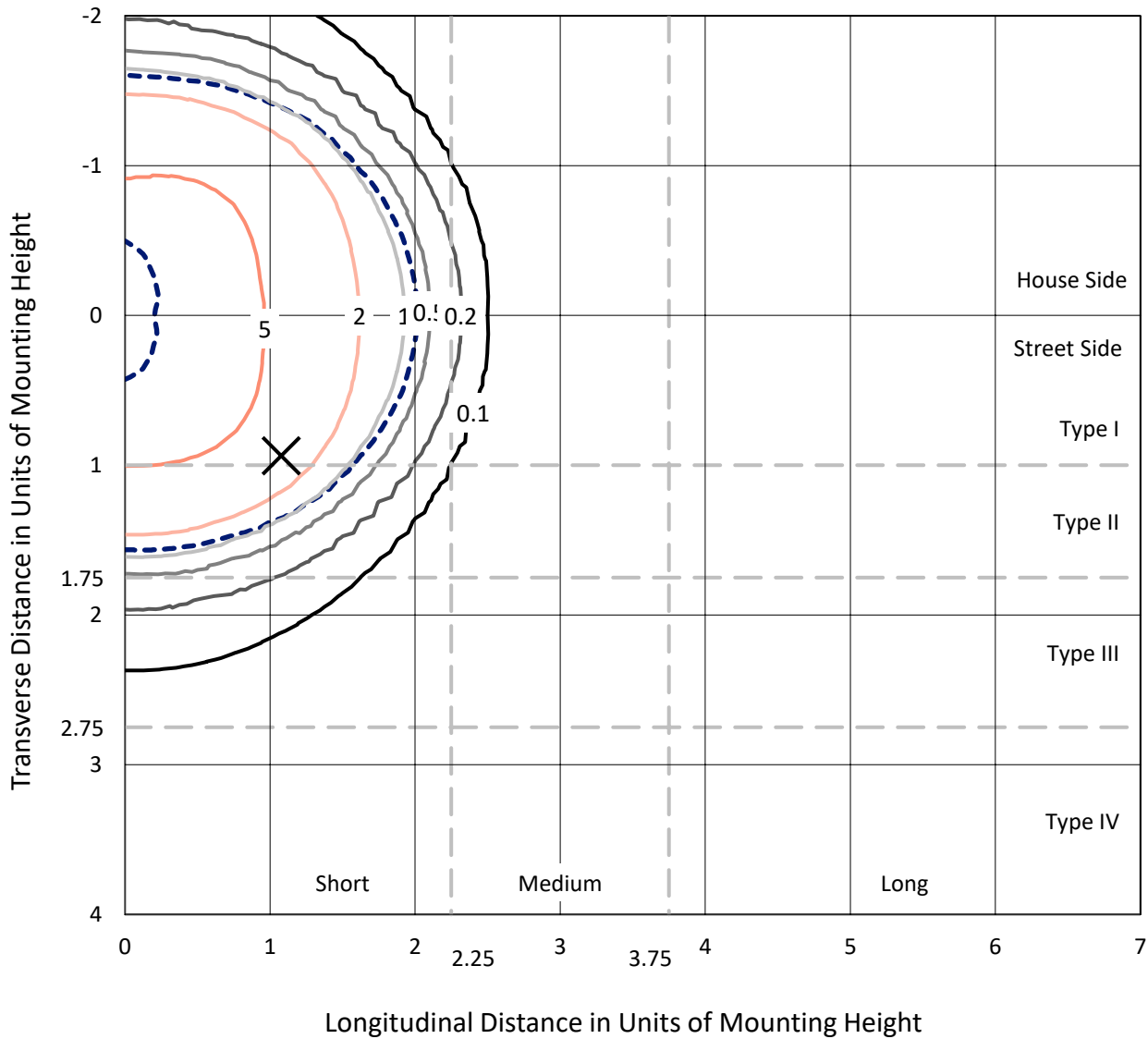
Lumens per Lamp: N/A  
Luminaire Lumens: 26717.8 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

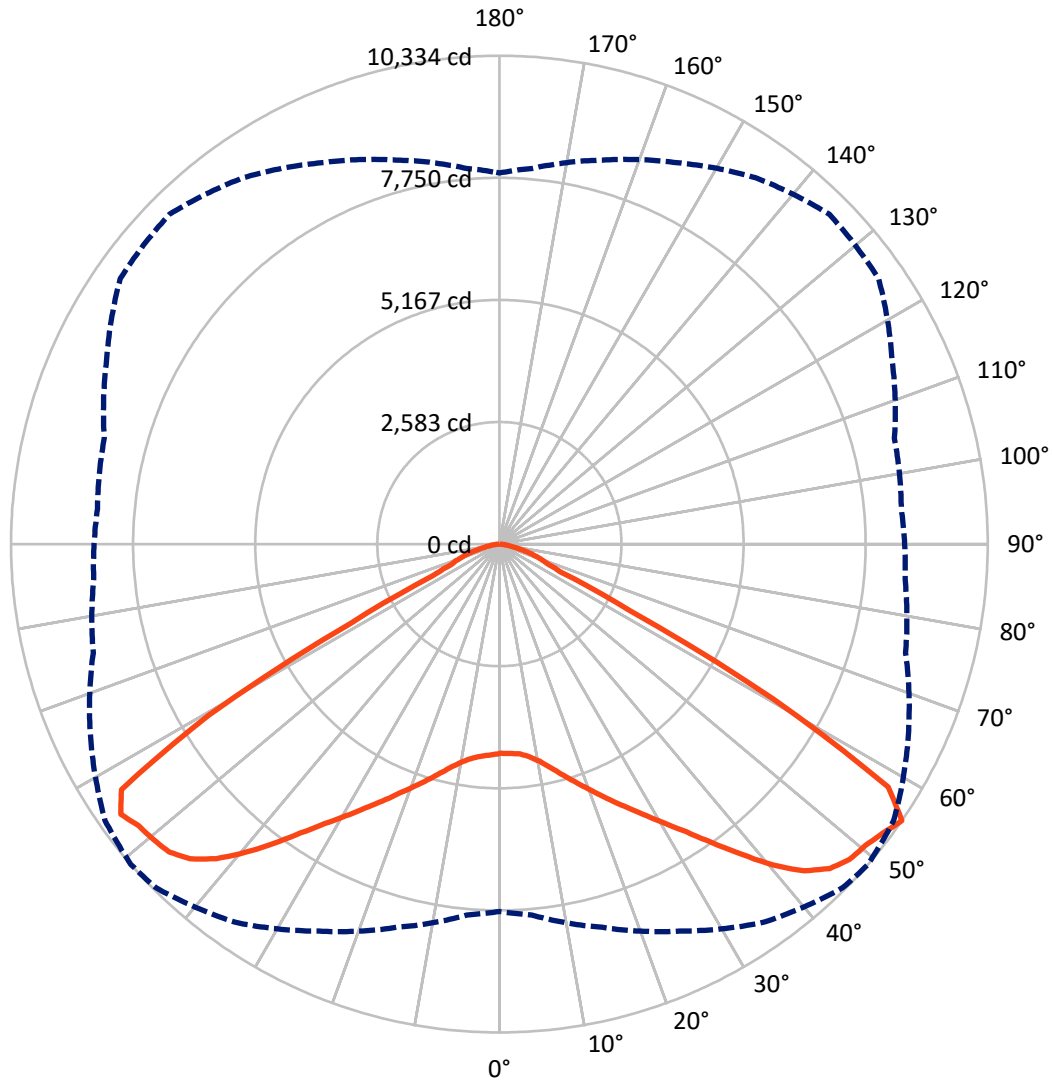
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13227.8	0.0	13227.8
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	13490.0	0.0	13490.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	26717.8	0.0	26717.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.7	1.6
10°-20°	1424.1	5.3
20°-30°	2712.5	10.2
30°-40°	4598.3	17.2
40°-50°	6920.1	25.9
50°-60°	7574.7	28.4
60°-70°	2395.2	9.0
70°-80°	574.8	2.2
80°-90°	86.3	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°	26717.8	100.0
0°-180°	26717.8	100.0

**Coefficient of Utilization**



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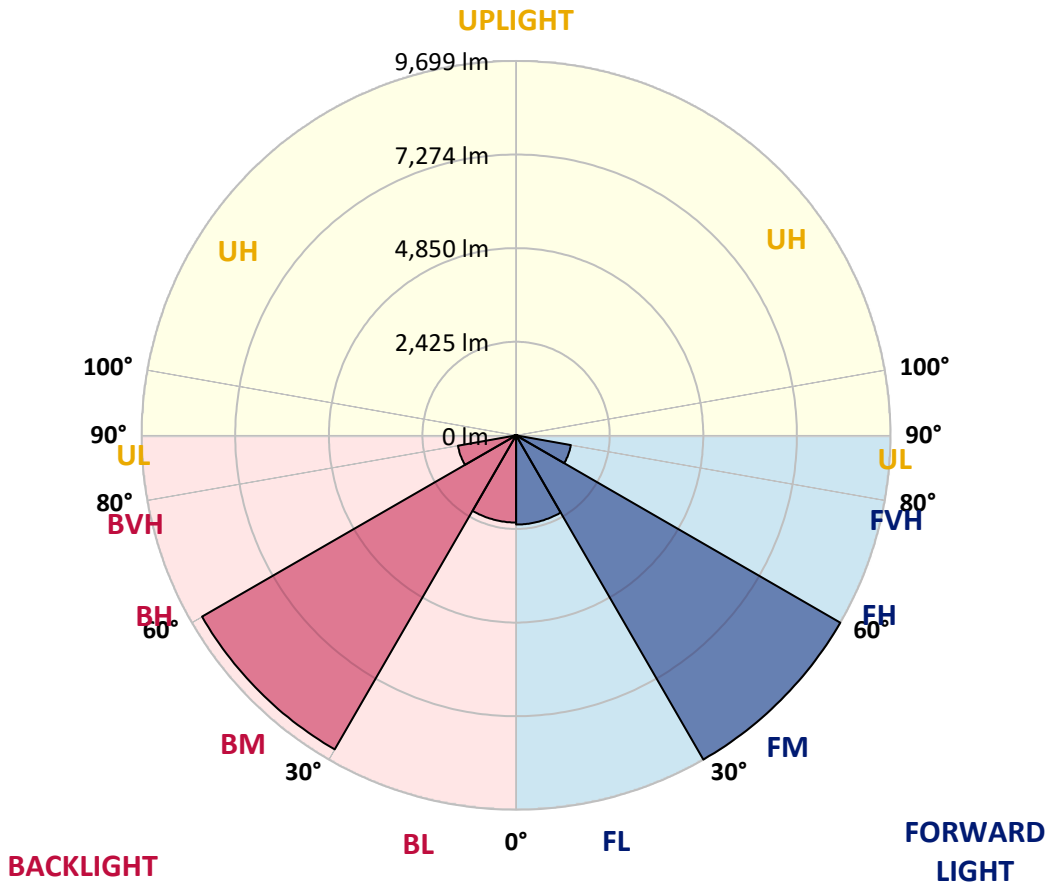
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.0	8.6			
FM (30°-60°)	9699.3	36.3			
FH (60°-80°)	1440.7	5.4			G1/1800
FVH (80°-90°)	39.9	0.1			G1/100
BL (0°-30°)	2258.4	8.5	B3/2500		
BM (30°-60°)	9393.8	35.2	B5		
BH (60°-80°)	1529.3	5.7	B3/2500		G1/1800
BVH (80°-90°)	46.3	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°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	4360.8	4365.1	4373.8	4389.0	4404.2	4426.0	4434.7	4445.5	4443.3	4456.4	4456.4
5°	4339.1	4345.6	4358.6	4380.3	4406.4	4447.7	4458.6	4484.6	4510.7	4543.3	4554.2
7.5°	4365.1	4373.8	4389.0	4423.8	4462.9	4517.2	4539.0	4582.4	4632.4	4691.0	4714.9
10°	4415.1	4426.0	4452.0	4508.5	4571.5	4654.1	4673.7	4728.0	4808.4	4888.8	4936.6
12.5°	4471.6	4489.0	4536.8	4625.9	4719.3	4827.9	4858.4	4925.7	5012.6	5116.9	5182.1
15°	4536.8	4552.0	4625.9	4751.9	4897.5	5040.9	5075.6	5140.8	5238.6	5340.7	5432.0
17.5°	4673.7	4699.7	4786.6	4932.2	5101.7	5271.2	5310.3	5384.2	5462.4	5542.8	5629.7
20°	4860.5	4882.3	4993.1	5173.4	5373.3	5527.6	5566.7	5631.9	5668.8	5710.1	5784.0
22.5°	5047.4	5077.8	5203.8	5416.8	5651.4	5818.7	5849.1	5910.0	5883.9	5870.9	5918.7
25°	5279.9	5321.2	5445.0	5677.5	5916.5	6122.9	6146.8	6199.0	6155.5	6088.1	6086.0
27.5°	5568.9	5605.8	5734.0	5973.0	6209.8	6424.9	6470.6	6540.1	6444.5	6361.9	6303.3
30°	5912.2	5936.1	6077.3	6331.5	6574.9	6779.1	6837.8	6907.3	6835.6	6698.7	6640.0
32.5°	6311.9	6344.5	6507.5	6774.7	6992.0	7196.3	7254.9	7341.8	7263.6	7109.4	7035.5
35°	6792.1	6824.7	6996.4	7287.5	7509.1	7719.9	7761.2	7832.9	7735.1	7557.0	7498.3
37.5°	7313.6	7354.9	7572.2	7848.1	8080.6	8326.1	8328.3	8350.0	8211.0	7989.3	7924.2
40°	7900.3	7954.6	8171.8	8458.7	8738.9	8938.8	8936.7	8875.8	8641.2	8297.9	8197.9
42.5°	8480.4	8523.8	8743.3	9038.8	9319.1	9508.1	9451.6	9303.9	8964.9	8497.8	8365.2
45°	8899.7	8932.3	9162.6	9495.1	9779.7	9897.0	9794.9	9616.8	9158.3	8623.8	8428.2
47.5°	9097.5	9140.9	9373.4	9703.7	10025.2	10092.6	9970.9	9803.6	9271.3	8741.1	8478.2
50°	8991.0	9047.5	9310.4	9616.8	9979.6	10118.7	10031.8	9864.4	9390.8	8856.3	8567.3
52.5°	8715.0	8769.4	9101.8	9473.3	9884.0	10159.9	10157.8	10020.9	9527.7	8888.9	8571.6
55°	7772.1	7878.5	8395.6	9036.6	9766.7	10281.6	10333.8	10188.2	9549.4	8897.6	8617.3
57.5°	5058.2	5245.1	5736.2	6570.5	8035.0	9351.7	9703.7	9738.4	9393.0	8860.6	8626.0
60°	2111.9	2261.9	2650.8	3204.9	4415.1	5981.7	6663.9	7348.4	8174.0	8473.9	8545.6
62.5°	1312.4	1325.4	1364.5	1490.5	1894.7	2659.5	3098.4	3739.4	4967.0	6012.1	6494.5
65°	1184.2	1190.7	1199.4	1190.7	1210.2	1303.7	1421.0	1644.8	2144.5	2663.8	3280.9
67.5°	1042.9	1051.6	1058.1	1051.6	1058.1	1062.5	1075.5	1095.1	1186.3	1260.2	1316.7
70°	843.0	856.1	866.9	862.6	888.7	888.7	901.7	916.9	962.5	1016.9	1056.0
72.5°	643.1	632.3	645.3	649.7	673.6	686.6	706.2	723.5	775.7	808.3	858.3
75°	417.2	406.3	425.9	436.7	469.3	486.7	504.1	521.5	558.4	580.1	627.9
77.5°	226.0	223.8	243.4	258.6	293.3	315.1	328.1	341.1	371.5	378.1	408.5
80°	130.4	130.4	143.4	154.3	176.0	199.9	212.9	223.8	245.5	252.0	265.1
82.5°	71.7	71.7	78.2	84.7	102.1	115.2	126.0	134.7	154.3	160.8	167.3
85°	34.8	32.6	36.9	41.3	47.8	54.3	60.8	65.2	80.4	84.7	93.4
87.5°	4.3	4.3	4.3	6.5	8.7	13.0	15.2	15.2	23.9	28.2	32.6
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°	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0	4426.0
2.5°	4469.4	4441.2	4458.6	4465.1	4465.1	4458.6	4430.3	4421.6	4408.6	4389.0	4389.0
5°	4569.4	4547.6	4552.0	4541.1	4515.0	4482.5	4430.3	4404.2	4382.5	4358.6	4356.4
7.5°	4741.0	4712.8	4708.4	4667.1	4597.6	4528.1	4449.9	4402.1	4369.5	4339.1	4336.9
10°	4964.8	4938.7	4906.2	4823.6	4721.5	4619.3	4512.9	4447.7	4399.9	4356.4	4354.3
12.5°	5214.7	5184.3	5123.4	5001.8	4873.6	4773.6	4651.9	4552.0	4480.3	4421.6	4410.8
15°	5486.3	5442.8	5338.5	5195.1	5069.1	4962.6	4832.3	4688.9	4580.2	4486.8	4475.9
17.5°	5694.9	5638.4	5525.4	5390.7	5286.4	5179.9	5010.4	4830.1	4673.7	4556.3	4539.0
20°	5838.3	5792.6	5664.5	5564.5	5503.7	5410.2	5212.5	5008.3	4832.3	4684.5	4675.8
22.5°	5970.8	5916.5	5790.5	5731.8	5731.8	5668.8	5479.8	5238.6	5032.2	4860.5	4838.8
25°	6120.7	6062.1	5966.5	5960.0	5990.4	5962.1	5734.0	5475.4	5234.2	5040.9	5006.1
27.5°	6329.3	6264.1	6207.7	6246.8	6290.2	6259.8	6005.6	5705.7	5451.5	5256.0	5225.6
30°	6661.8	6581.4	6529.2	6577.0	6661.8	6572.7	6296.7	5979.5	5723.1	5508.0	5492.8
32.5°	7048.5	6957.3	6902.9	6979.0	7055.0	6916.0	6642.2	6338.0	6068.6	5842.6	5816.5
35°	7513.5	7398.3	7317.9	7420.1	7498.3	7361.4	7089.8	6800.8	6501.0	6266.3	6231.6
37.5°	7926.3	7787.3	7732.9	7876.4	7980.6	7891.6	7596.1	7324.5	6996.4	6740.0	6724.8
40°	8226.2	8089.3	8050.2	8287.0	8469.5	8447.8	8182.7	7872.0	7563.5	7268.0	7239.7
42.5°	8356.5	8260.9	8269.6	8589.0	8871.5	9010.5	8773.7	8441.3	8143.6	7837.2	7817.7
45°	8384.8	8326.1	8395.6	8795.4	9167.0	9451.6	9249.6	8971.4	8634.7	8339.2	8330.5
47.5°	8415.2	8382.6	8489.1	8912.8	9353.8	9684.1	9571.1	9284.3	8943.2	8654.2	8632.5
50°	8486.9	8473.9	8593.4	8995.3	9442.9	9747.1	9618.9	9334.3	8984.5	8699.8	8647.7
52.5°	8508.6	8486.9	8658.6	9123.5	9590.7	9744.9	9469.0	9097.5	8745.5	8428.2	8373.9
55°	8576.0	8536.9	8654.2	9171.3	9794.9	9871.0	9460.3	8904.1	8413.0	7980.6	7852.4
57.5°	8593.4	8549.9	8626.0	9093.1	9573.3	9505.9	8315.3	7185.4	6259.8	5779.6	5833.9
60°	8499.9	8513.0	8382.6	8330.5	7678.6	6779.1	5090.8	4069.6	3196.2	2826.8	2907.2
62.5°	6470.6	6524.9	6079.5	5286.4	4065.3	3222.2	2131.5	1655.7	1401.4	1336.3	1347.1
65°	3265.7	3339.6	2876.8	2379.2	1768.6	1429.7	1236.3	1197.2	1184.2	1169.0	1169.0
67.5°	1292.8	1314.5	1297.2	1214.6	1129.8	1099.4	1090.7	1086.4	1071.2	1062.5	1064.7
70°	1038.6	1056.0	1029.9	977.8	943.0	940.8	936.5	927.8	916.9	916.9	923.4
72.5°	847.4	864.8	827.8	795.2	769.2	749.6	738.7	732.2	717.0	717.0	723.5
75°	623.6	634.5	604.0	599.7	571.4	551.9	534.5	525.8	506.3	497.6	504.1
77.5°	415.0	412.8	397.6	397.6	386.8	362.9	343.3	323.7	297.7	280.3	284.6
80°	269.4	269.4	262.9	262.9	252.0	232.5	208.6	189.0	173.8	160.8	160.8
82.5°	171.7	169.5	167.3	165.1	160.8	141.2	123.8	110.8	99.9	91.3	93.4
85°	95.6	95.6	91.3	91.3	82.6	71.7	63.0	54.3	47.8	45.6	45.6
87.5°	32.6	32.6	30.4	30.4	26.1	19.6	15.2	13.0	10.9	8.7	10.9
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)