

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: P640227

Luminaire Tested: GWS-SA5D-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640227  
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-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**

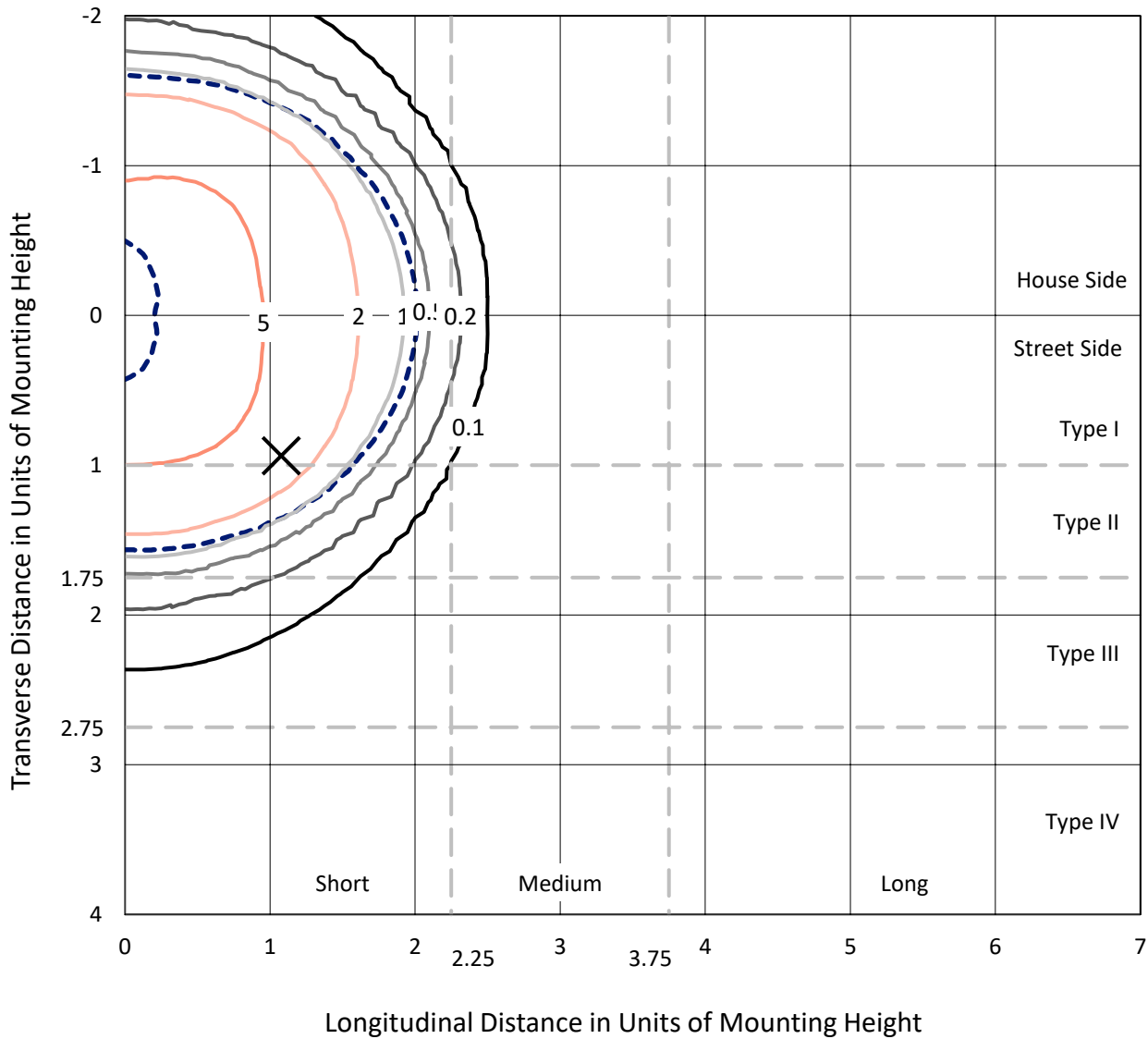
Lumens per Lamp: N/A  
Luminaire Lumens: 26482.2 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

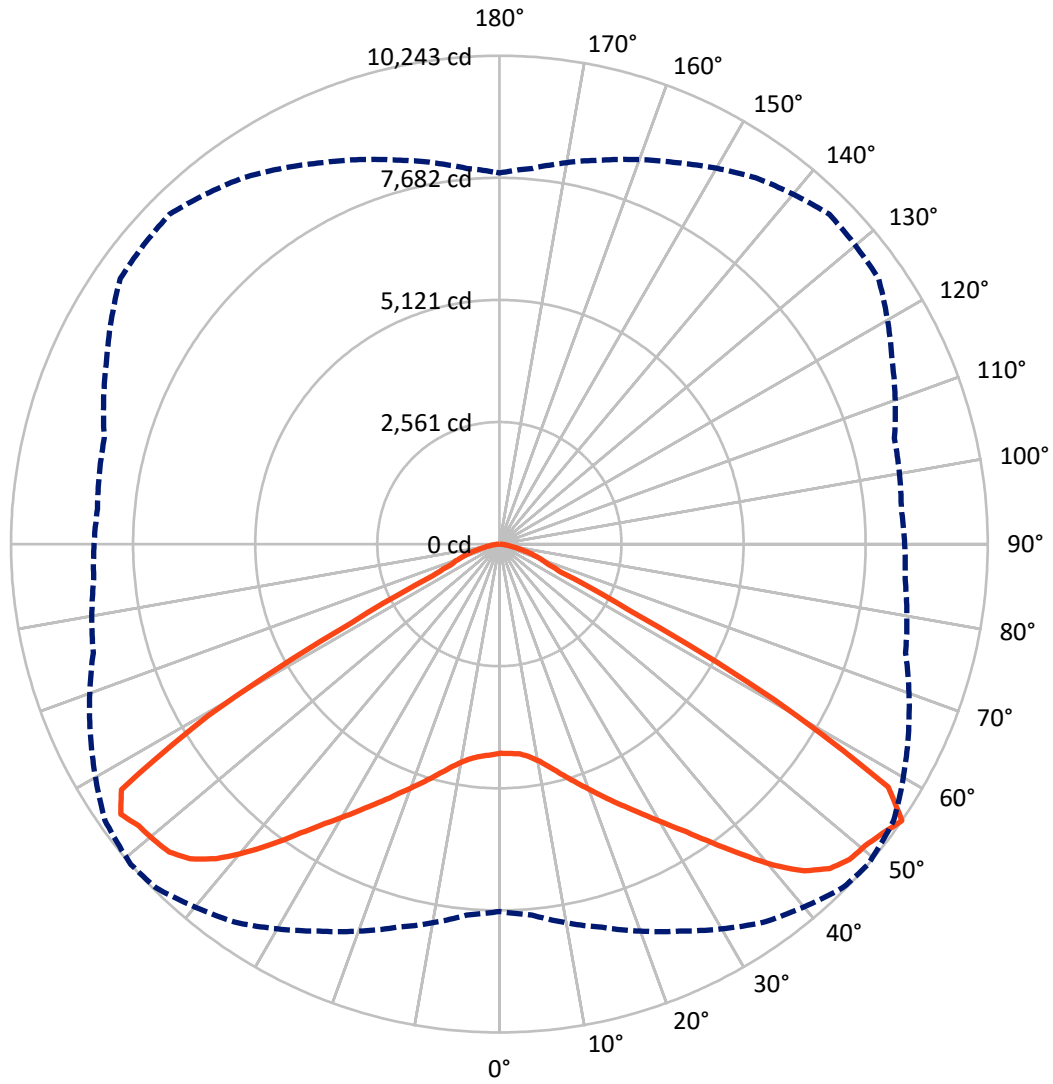
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	13111.2	0.0	13111.2
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	13371.0	0.0	13371.0
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	26482.2	0.0	26482.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.9	1.6
10°-20°	1411.6	5.3
20°-30°	2688.6	10.2
30°-40°	4557.8	17.2
40°-50°	6859.1	25.9
50°-60°	7507.9	28.4
60°-70°	2374.0	9.0
70°-80°	569.8	2.2
80°-90°	85.5	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°	26482.2	100.0
0°-180°	26482.2	100.0

**Coefficient of Utilization**



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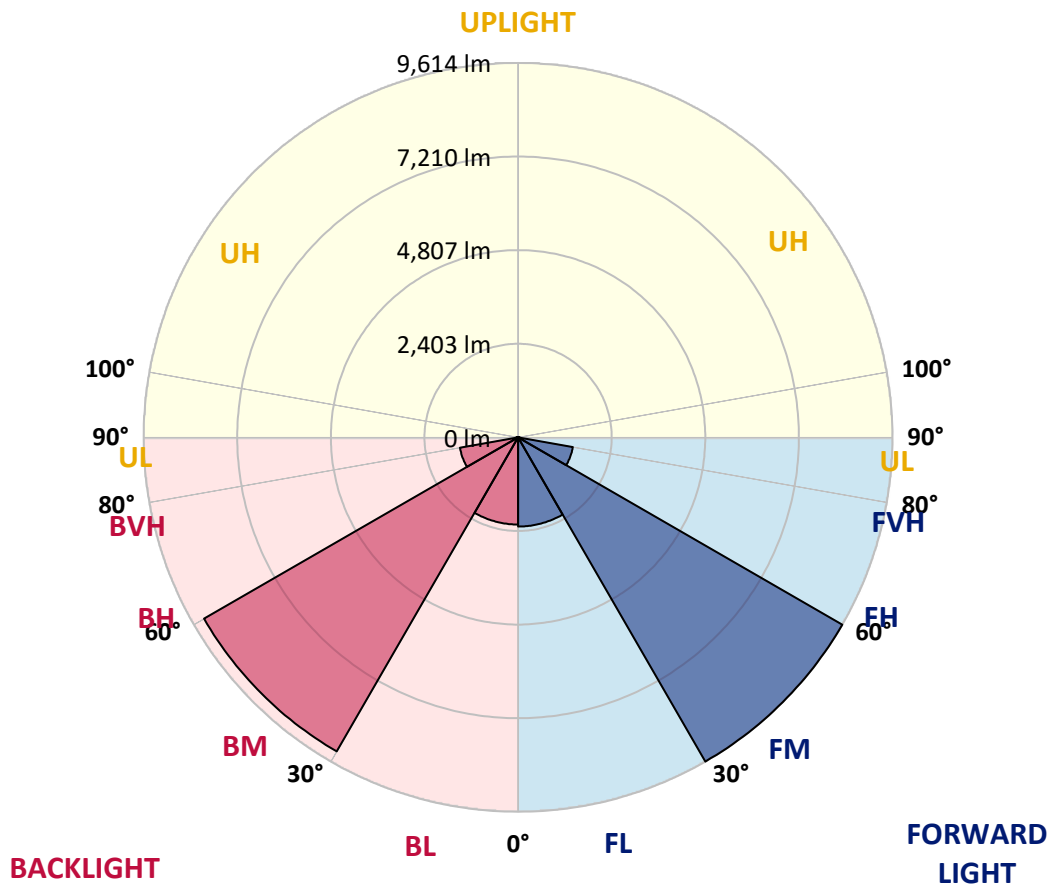
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.6	8.6			
FM (30°-60°)	9613.8	36.3			
FH (60°-80°)	1428.0	5.4			G1/1800
FVH (80°-90°)	39.6	0.1			G1/100
BL (0°-30°)	2238.5	8.5	B3/2500		
BM (30°-60°)	9311.0	35.2	B5		
BH (60°-80°)	1515.8	5.7	B3/2500		G1/1800
BVH (80°-90°)	45.9	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°	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9
2.5°	4322.3	4326.6	4335.3	4350.3	4365.4	4386.9	4395.6	4406.3	4404.2	4417.1	4417.1
5°	4300.8	4307.3	4320.2	4341.7	4367.6	4408.5	4419.2	4445.1	4470.9	4503.2	4514.0
7.5°	4326.6	4335.3	4350.3	4384.8	4423.5	4477.4	4498.9	4542.0	4591.5	4649.7	4673.4
10°	4376.2	4386.9	4412.8	4468.8	4531.2	4613.1	4632.5	4686.3	4766.0	4845.7	4893.0
12.5°	4432.2	4449.4	4496.8	4585.1	4677.7	4785.4	4815.5	4882.3	4968.4	5071.8	5136.4
15°	4496.8	4511.8	4585.1	4710.0	4854.3	4996.4	5030.9	5095.5	5192.4	5293.6	5384.1
17.5°	4632.5	4658.3	4744.4	4888.7	5056.7	5224.7	5263.5	5336.7	5414.2	5493.9	5580.0
20°	4817.7	4839.2	4949.0	5127.8	5325.9	5478.8	5517.6	5582.2	5618.8	5659.7	5733.0
22.5°	5002.9	5033.0	5157.9	5369.0	5601.6	5767.4	5797.6	5857.9	5832.0	5819.1	5866.5
25°	5233.3	5274.2	5397.0	5627.4	5864.3	6068.9	6092.6	6144.3	6101.2	6034.5	6032.3
27.5°	5519.7	5556.4	5683.4	5920.3	6155.1	6368.3	6413.5	6482.4	6387.7	6305.8	6247.7
30°	5860.0	5883.7	6023.7	6275.7	6516.9	6719.3	6777.5	6846.4	6775.3	6639.6	6581.5
32.5°	6256.3	6288.6	6450.1	6715.0	6930.4	7132.8	7191.0	7277.1	7199.6	7046.7	6973.4
35°	6732.2	6764.5	6934.7	7223.3	7442.9	7651.8	7692.8	7763.8	7666.9	7490.3	7432.2
37.5°	7249.1	7290.0	7505.4	7778.9	8009.3	8252.7	8254.9	8276.4	8138.6	7918.9	7854.3
40°	7830.6	7884.4	8099.8	8384.1	8661.9	8860.0	8857.9	8797.6	8565.0	8224.7	8125.6
42.5°	8405.6	8448.7	8666.2	8959.1	9236.9	9424.3	9368.3	9221.8	8885.9	8422.8	8291.5
45°	8821.3	8853.6	9081.8	9411.3	9693.5	9809.8	9708.5	9532.0	9077.5	8547.7	8353.9
47.5°	9017.2	9060.3	9290.7	9618.1	9936.8	10003.6	9883.0	9717.2	9189.5	8664.0	8403.5
50°	8911.7	8967.7	9228.3	9532.0	9891.6	10029.4	9943.3	9777.5	9308.0	8778.2	8491.7
52.5°	8638.2	8692.0	9021.5	9389.8	9796.8	10070.4	10068.2	9932.5	9443.7	8810.5	8496.1
55°	7703.5	7809.0	8321.6	8956.9	9680.6	10191.0	10242.6	10098.4	9465.2	8819.1	8541.3
57.5°	5013.6	5198.9	5685.6	6512.6	7964.1	9269.2	9618.1	9652.6	9310.1	8782.5	8549.9
60°	2093.3	2241.9	2627.4	3176.6	4376.2	5928.9	6605.2	7283.6	8101.9	8399.1	8470.2
62.5°	1300.8	1313.7	1352.5	1477.4	1878.0	2636.0	3071.1	3706.4	4923.2	5959.1	6437.2
65°	1173.7	1180.2	1188.8	1180.2	1199.6	1292.2	1408.5	1630.3	2125.6	2640.3	3252.0
67.5°	1033.7	1042.4	1048.8	1042.4	1048.8	1053.1	1066.0	1085.4	1175.9	1249.1	1305.1
70°	835.6	848.5	859.3	855.0	880.8	880.8	893.8	908.8	954.1	1007.9	1046.7
72.5°	637.5	626.7	639.6	643.9	667.6	680.5	699.9	717.2	768.8	801.1	850.7
75°	413.5	402.7	422.1	432.9	465.2	482.4	499.6	516.9	553.5	575.0	622.4
77.5°	224.0	221.8	241.2	256.3	290.7	312.3	325.2	338.1	368.3	374.7	404.9
80°	129.2	129.2	142.1	152.9	174.4	198.1	211.1	221.8	243.4	249.8	262.7
82.5°	71.1	71.1	77.5	84.0	101.2	114.1	124.9	133.5	152.9	159.4	165.8
85°	34.5	32.3	36.6	40.9	47.4	53.8	60.3	64.6	79.7	84.0	92.6
87.5°	4.3	4.3	4.3	6.5	8.6	12.9	15.1	15.1	23.7	28.0	32.3
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°	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9	4386.9
2.5°	4430.0	4402.0	4419.2	4425.7	4425.7	4419.2	4391.2	4382.6	4369.7	4350.3	4350.3
5°	4529.1	4507.5	4511.8	4501.1	4475.2	4442.9	4391.2	4365.4	4343.9	4320.2	4318.0
7.5°	4699.2	4671.2	4666.9	4626.0	4557.1	4488.2	4410.6	4363.2	4330.9	4300.8	4298.6
10°	4921.0	4895.2	4862.9	4781.1	4679.8	4578.6	4473.1	4408.5	4361.1	4318.0	4315.9
12.5°	5168.7	5138.6	5078.3	4957.6	4830.6	4731.5	4610.9	4511.8	4440.8	4382.6	4371.9
15°	5437.9	5394.8	5291.5	5149.3	5024.4	4918.9	4789.7	4647.5	4539.8	4447.2	4436.5
17.5°	5644.7	5588.7	5476.7	5343.1	5239.8	5134.2	4966.3	4787.5	4632.5	4516.2	4498.9
20°	5786.8	5741.6	5614.5	5515.4	5455.1	5362.5	5166.5	4964.1	4789.7	4643.2	4634.6
22.5°	5918.2	5864.3	5739.4	5681.3	5681.3	5618.8	5431.4	5192.4	4987.8	4817.7	4796.1
25°	6066.8	6008.6	5913.9	5907.4	5937.5	5909.6	5683.4	5427.1	5188.1	4996.4	4962.0
27.5°	6273.5	6208.9	6152.9	6191.7	6234.7	6204.6	5952.6	5655.4	5403.4	5209.6	5179.5
30°	6603.0	6523.3	6471.6	6519.0	6603.0	6514.7	6241.2	5926.8	5672.7	5459.4	5444.4
32.5°	6986.4	6895.9	6842.1	6917.4	6992.8	6855.0	6583.6	6282.1	6015.1	5791.1	5765.3
35°	7447.2	7333.1	7253.4	7354.6	7432.2	7296.5	7027.3	6740.9	6443.7	6211.1	6176.6
37.5°	7856.4	7718.6	7664.8	7806.9	7910.3	7822.0	7529.1	7259.9	6934.7	6680.5	6665.5
40°	8153.6	8018.0	7979.2	8213.9	8394.8	8373.3	8110.6	7802.6	7496.8	7203.9	7175.9
42.5°	8282.8	8188.1	8196.7	8513.3	8793.3	8931.1	8696.3	8366.8	8071.8	7768.1	7748.7
45°	8310.8	8252.7	8321.6	8717.9	9086.1	9368.3	9168.0	8892.3	8558.5	8265.6	8257.0
47.5°	8341.0	8308.7	8414.2	8834.2	9271.4	9598.7	9486.7	9202.4	8864.3	8577.9	8556.4
50°	8412.1	8399.1	8517.6	8916.0	9359.7	9661.2	9534.1	9252.0	8905.2	8623.1	8571.4
52.5°	8433.6	8412.1	8582.2	9043.1	9506.1	9659.0	9385.5	9017.2	8668.3	8353.9	8300.1
55°	8500.4	8461.6	8577.9	9090.5	9708.5	9783.9	9376.9	8825.6	8338.8	7910.3	7783.2
57.5°	8517.6	8474.5	8549.9	9012.9	9488.9	9422.1	8241.9	7122.0	6204.6	5728.6	5782.5
60°	8425.0	8437.9	8308.7	8257.0	7610.9	6719.3	5045.9	4033.7	3168.0	2801.9	2881.6
62.5°	6413.5	6467.3	6025.8	5239.8	4029.4	3193.8	2112.7	1641.1	1389.1	1324.5	1335.2
65°	3236.9	3310.1	2851.4	2358.2	1753.1	1417.1	1225.4	1186.6	1173.7	1158.7	1158.7
67.5°	1281.4	1302.9	1285.7	1203.9	1119.9	1089.7	1081.1	1076.8	1061.7	1053.1	1055.3
70°	1029.4	1046.7	1020.8	969.1	934.7	932.5	928.2	919.6	908.8	908.8	915.3
72.5°	839.9	857.1	820.5	788.2	762.4	743.0	732.2	725.8	710.7	710.7	717.2
75°	618.1	628.9	598.7	594.4	566.4	547.0	529.8	521.2	501.8	493.2	499.6
77.5°	411.3	409.2	394.1	394.1	383.3	359.7	340.3	320.9	295.0	277.8	282.1
80°	267.0	267.0	260.6	260.6	249.8	230.4	206.7	187.4	172.3	159.4	159.4
82.5°	170.1	168.0	165.8	163.7	159.4	140.0	122.8	109.8	99.1	90.5	92.6
85°	94.8	94.8	90.5	90.5	81.8	71.1	62.5	53.8	47.4	45.2	45.2
87.5°	32.3	32.3	30.2	30.2	25.8	19.4	15.1	12.9	10.8	8.6	10.8
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)