

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: P642647

Luminaire Tested: GWS-SA6D-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642647
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-SA6D-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31145.3 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

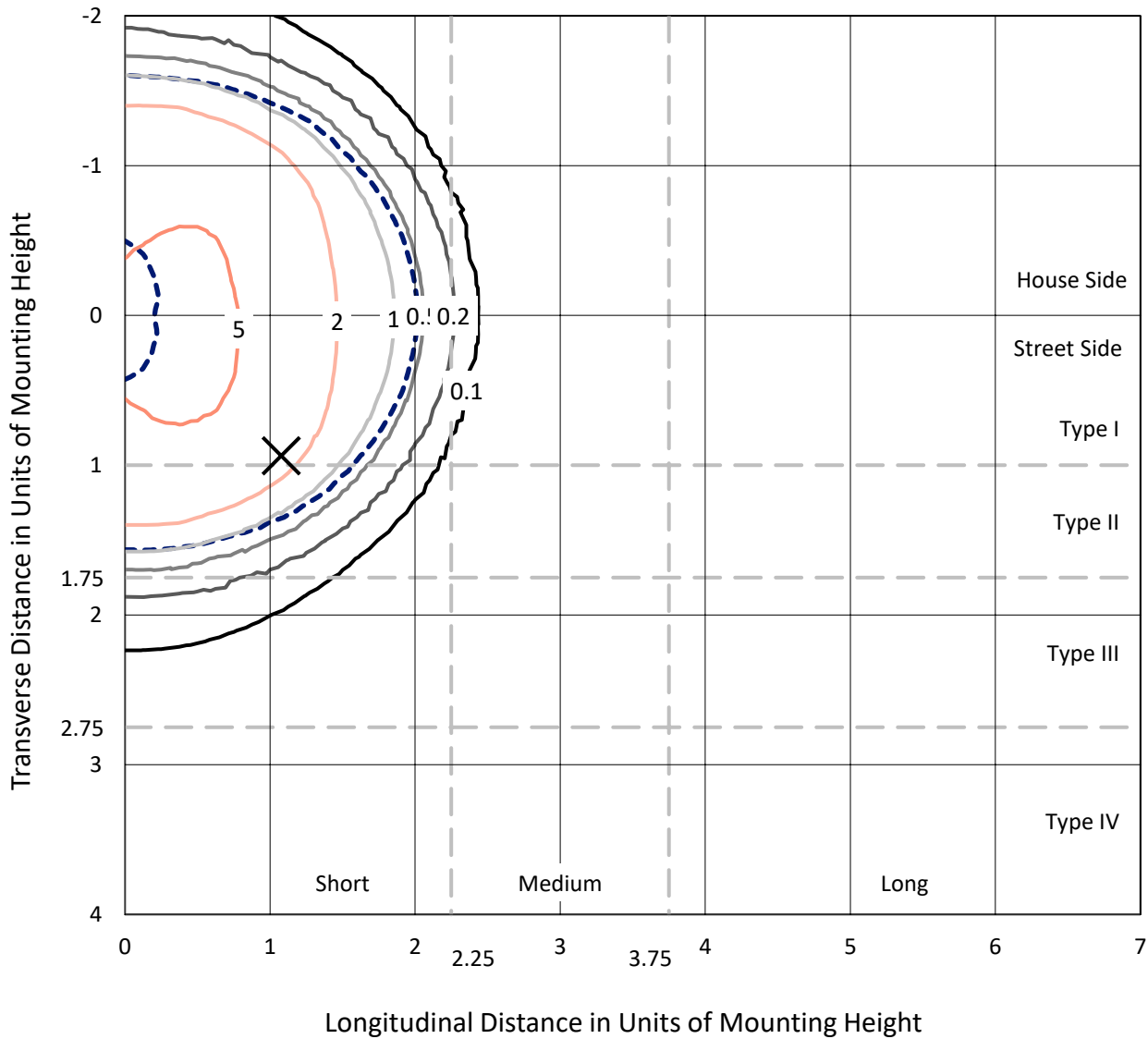
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

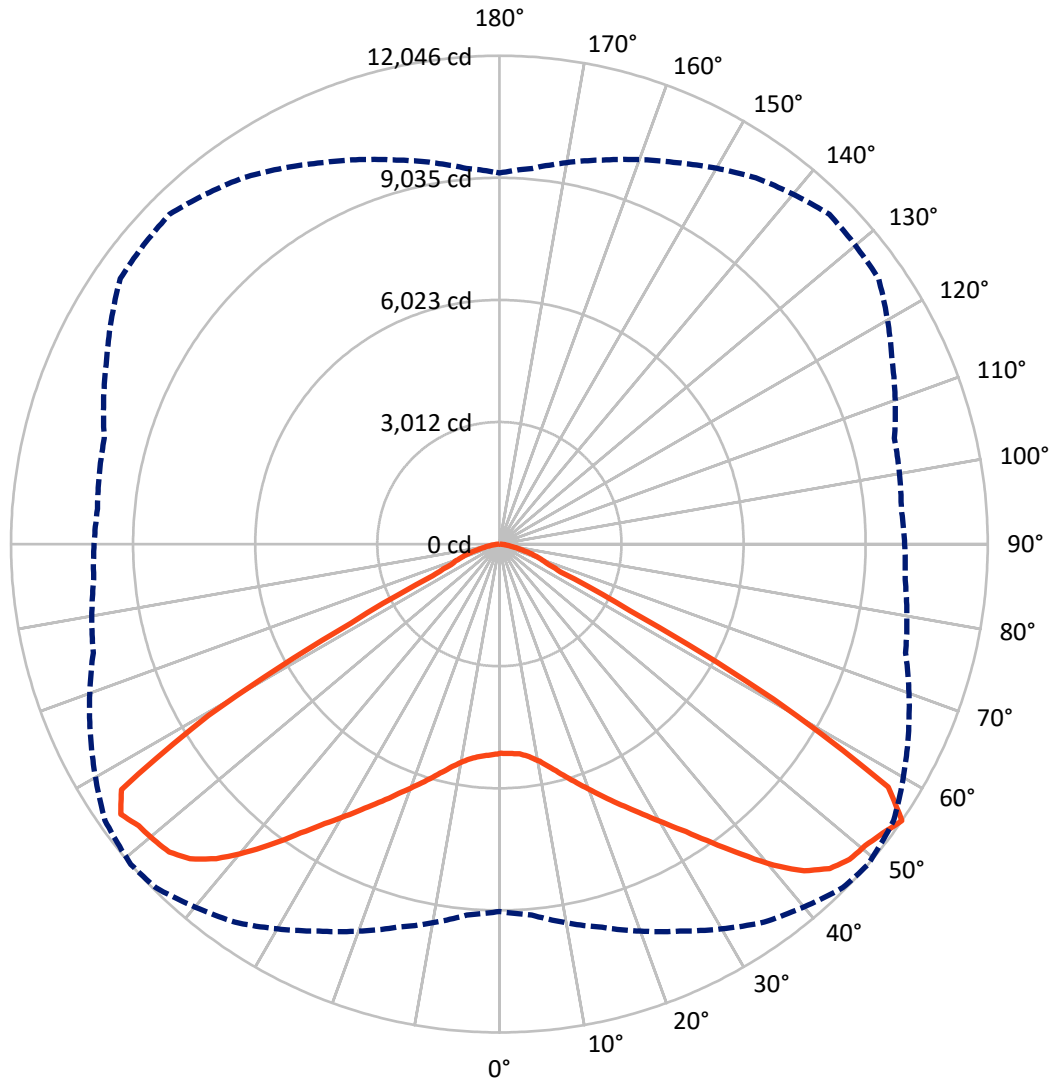
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	15419.9	0.0	15419.9
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	15725.4	0.0	15725.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	31145.3	0.0	31145.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.3	1.6
10°-20°	1660.1	5.3
20°-30°	3162.0	10.2
30°-40°	5360.3	17.2
40°-50°	8066.9	25.9
50°-60°	8830.0	28.4
60°-70°	2792.1	9.0
70°-80°	670.1	2.2
80°-90°	100.6	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°	31145.3	100.0
0°-180°	31145.3	100.0

Coefficient of Utilization



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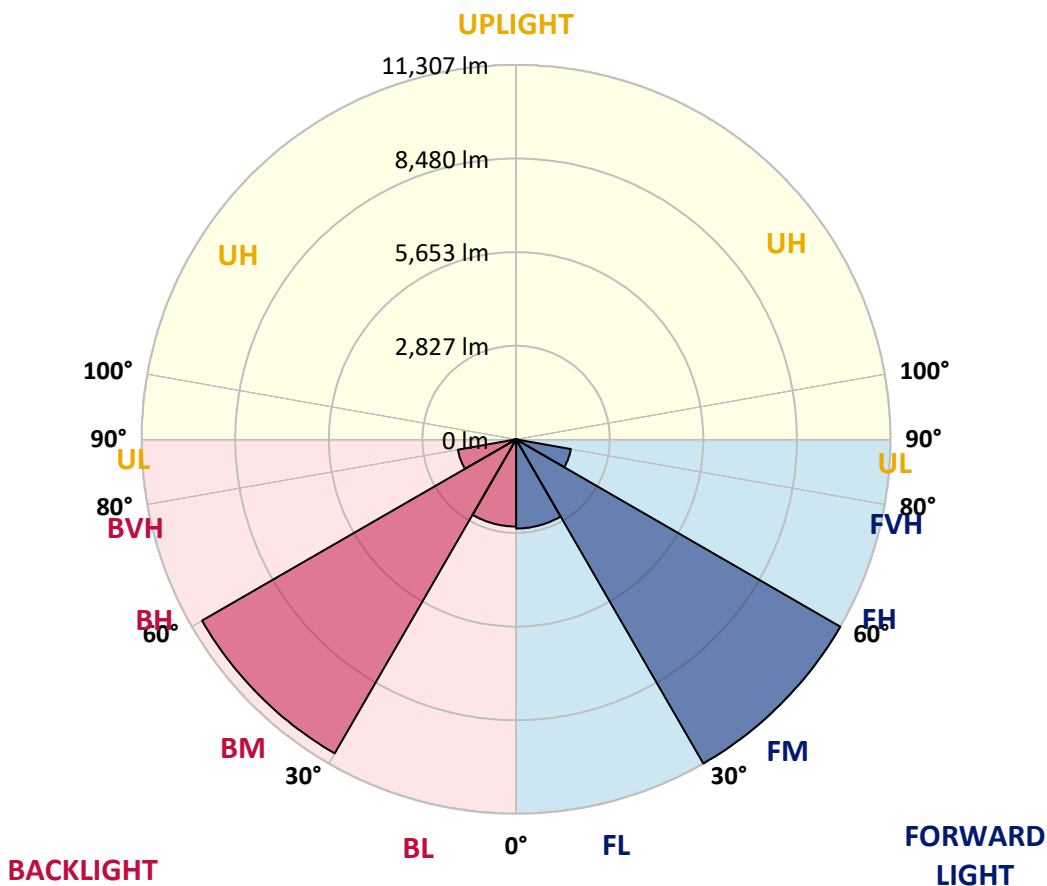
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2692.8	8.6			
FM (30°-60°)	11306.6	36.3			
FH (60°-80°)	1679.5	5.4			G1/1800
FVH (80°-90°)	46.6	0.1			G1/100
BL (0°-30°)	2632.6	8.5	B4/5000		
BM (30°-60°)	10950.5	35.2	B5		
BH (60°-80°)	1782.7	5.7	B3/2500		G1/1800
BVH (80°-90°)	54.0	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°	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4
2.5°	5083.4	5088.5	5098.6	5116.3	5134.1	5159.4	5169.5	5182.2	5179.7	5194.9	5194.9
5°	5058.1	5065.7	5080.9	5106.2	5136.6	5184.7	5197.4	5227.8	5258.2	5296.2	5308.8
7.5°	5088.5	5098.6	5116.3	5156.9	5202.5	5265.8	5291.1	5341.8	5400.0	5468.4	5496.3
10°	5146.7	5159.4	5189.8	5255.7	5329.1	5425.4	5448.2	5511.5	5605.2	5698.9	5754.6
12.5°	5212.6	5232.9	5288.6	5392.4	5501.3	5628.0	5663.4	5742.0	5843.3	5964.9	6040.8
15°	5288.6	5306.3	5392.4	5539.3	5709.0	5876.2	5916.7	5992.7	6106.7	6225.7	6332.1
17.5°	5448.2	5478.5	5579.9	5749.6	5947.1	6144.7	6190.3	6276.4	6367.6	6461.3	6562.6
20°	5666.0	5691.3	5820.5	6030.7	6263.7	6443.6	6489.2	6565.1	6608.2	6656.3	6742.4
22.5°	5883.8	5919.3	6066.2	6314.4	6587.9	6783.0	6818.4	6889.3	6858.9	6843.8	6899.5
25°	6154.8	6202.9	6347.3	6618.3	6896.9	7137.6	7165.4	7226.2	7175.6	7097.0	7094.5
27.5°	6491.7	6534.7	6684.2	6962.8	7238.9	7489.6	7542.8	7623.9	7512.4	7416.2	7347.8
30°	6891.9	6919.7	7084.4	7380.7	7664.4	7902.5	7970.9	8051.9	7968.3	7808.8	7740.4
32.5°	7357.9	7395.9	7585.9	7897.4	8150.7	8388.8	8457.2	8558.5	8467.3	8287.5	8201.4
35°	7917.7	7955.7	8155.8	8495.2	8753.5	8999.2	9047.3	9130.9	9016.9	8809.2	8740.9
37.5°	8525.6	8573.7	8827.0	9148.6	9419.7	9705.9	9708.4	9733.7	9571.6	9313.3	9237.3
40°	9209.4	9272.8	9526.0	9860.4	10187.1	10420.1	10417.6	10346.7	10073.1	9672.9	9556.4
42.5°	9885.7	9936.4	10192.2	10536.6	10863.4	11083.7	11017.9	10845.6	10450.5	9906.0	9751.5
45°	10374.5	10412.5	10681.0	11068.5	11400.3	11537.1	11418.1	11210.4	10675.9	10052.9	9824.9
47.5°	10605.0	10655.7	10926.7	11311.7	11686.6	11765.1	11623.2	11428.2	10807.7	10189.6	9883.2
50°	10480.9	10546.8	10853.2	11210.4	11633.4	11795.5	11694.2	11499.1	10947.0	10323.9	9987.0
52.5°	10159.2	10222.6	10610.1	11043.2	11521.9	11843.6	11841.1	11681.5	11106.5	10361.9	9992.1
55°	9060.0	9184.1	9786.9	10534.1	11385.1	11985.4	12046.2	11876.5	11131.9	10372.0	10045.3
57.5°	5896.5	6114.3	6686.7	7659.3	9366.5	10901.4	11311.7	11352.2	10949.5	10328.9	10055.4
60°	2461.9	2636.7	3090.1	3735.9	5146.7	6972.9	7768.2	8566.1	9528.6	9878.1	9961.7
62.5°	1529.8	1545.0	1590.6	1737.5	2208.6	3100.2	3611.8	4359.0	5790.1	7008.4	7570.7
65°	1380.4	1388.0	1398.1	1388.0	1410.8	1519.7	1656.5	1917.4	2499.9	3105.3	3824.6
67.5°	1215.8	1225.9	1233.5	1225.9	1233.5	1238.6	1253.8	1276.6	1382.9	1469.1	1534.9
70°	982.7	997.9	1010.6	1005.5	1035.9	1035.9	1051.1	1068.9	1122.1	1185.4	1231.0
72.5°	749.7	737.1	752.3	757.3	785.2	800.4	823.2	843.4	904.2	942.2	1000.5
75°	486.3	473.6	496.4	509.1	547.1	567.4	587.6	607.9	650.9	676.3	732.0
77.5°	263.4	260.9	283.7	301.4	341.9	367.3	382.5	397.7	433.1	440.7	476.2
80°	152.0	152.0	167.2	179.8	205.2	233.0	248.2	260.9	286.2	293.8	309.0
82.5°	83.6	83.6	91.2	98.8	119.0	134.2	146.9	157.0	179.8	187.4	195.0
85°	40.5	38.0	43.1	48.1	55.7	63.3	70.9	76.0	93.7	98.8	108.9
87.5°	5.1	5.1	5.1	7.6	10.1	15.2	17.7	17.7	27.9	32.9	38.0
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°	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4	5159.4
2.5°	5210.1	5177.1	5197.4	5205.0	5205.0	5197.4	5164.5	5154.3	5139.1	5116.3	5116.3
5°	5326.6	5301.2	5306.3	5293.6	5263.3	5225.3	5164.5	5134.1	5108.8	5080.9	5078.4
7.5°	5526.7	5493.7	5488.7	5440.6	5359.5	5278.5	5187.3	5131.5	5093.6	5058.1	5055.6
10°	5787.6	5757.2	5719.2	5622.9	5503.9	5384.8	5260.7	5184.7	5129.0	5078.4	5075.8
12.5°	6078.8	6043.4	5972.5	5830.6	5681.2	5564.7	5422.8	5306.3	5222.7	5154.3	5141.7
15°	6395.4	6344.8	6223.2	6056.0	5909.1	5785.0	5633.1	5465.9	5339.2	5230.3	5217.7
17.5°	6638.6	6572.7	6441.0	6284.0	6162.4	6038.3	5840.7	5630.5	5448.2	5311.4	5291.1
20°	6805.8	6752.6	6603.1	6486.6	6415.7	6306.8	6076.3	5838.2	5633.1	5460.8	5450.7
22.5°	6960.3	6896.9	6750.0	6681.6	6681.6	6608.2	6387.8	6106.7	5866.1	5666.0	5640.6
25°	7135.0	7066.6	6955.2	6947.6	6983.1	6950.1	6684.2	6382.8	6101.6	5876.2	5835.7
27.5°	7378.2	7302.2	7236.3	7281.9	7332.6	7297.1	7000.8	6651.3	6354.9	6127.0	6091.5
30°	7765.7	7672.0	7611.2	7666.9	7765.7	7661.9	7340.2	6970.4	6671.5	6420.8	6403.0
32.5°	8216.6	8110.2	8046.9	8135.5	8224.2	8062.0	7742.9	7388.3	7074.2	6810.8	6780.4
35°	8758.6	8624.3	8530.6	8649.7	8740.9	8581.3	8264.7	7927.8	7578.3	7304.7	7264.2
37.5°	9239.8	9077.7	9014.4	9181.6	9303.1	9199.3	8854.8	8538.2	8155.8	7856.9	7839.2
40°	9589.4	9429.8	9384.2	9660.3	9873.0	9847.7	9538.7	9176.5	8816.8	8472.4	8439.4
42.5°	9741.3	9629.9	9640.0	10012.3	10341.6	10503.7	10227.6	9840.1	9493.1	9136.0	9113.2
45°	9774.3	9705.9	9786.9	10253.0	10686.1	11017.9	10782.3	10458.1	10065.5	9721.1	9710.9
47.5°	9809.7	9771.7	9895.8	10389.7	10903.9	11288.9	11157.2	10822.9	10425.2	10088.3	10063.0
50°	9893.3	9878.1	10017.4	10486.0	11007.7	11362.3	11212.9	10881.1	10473.3	10141.5	10080.7
52.5°	9918.6	9893.3	10093.4	10635.4	11180.0	11359.8	11038.1	10605.0	10194.7	9824.9	9761.6
55°	9997.1	9951.6	10088.3	10691.1	11418.1	11506.7	11028.0	10379.6	9807.2	9303.1	9153.7
57.5°	10017.4	9966.8	10055.4	10600.0	11159.7	11081.2	9693.2	8376.1	7297.1	6737.4	6800.7
60°	9908.5	9923.7	9771.7	9710.9	8951.1	7902.5	5934.5	4744.0	3725.8	3295.2	3388.9
62.5°	7542.8	7606.1	7086.9	6162.4	4739.0	3756.2	2484.7	1930.0	1633.7	1557.7	1570.4
65°	3806.9	3893.0	3353.5	2773.5	2061.7	1666.6	1441.2	1395.6	1380.4	1362.7	1362.7
67.5°	1507.0	1532.4	1512.1	1415.9	1317.1	1281.6	1271.5	1266.4	1248.7	1238.6	1241.1
70°	1210.7	1231.0	1200.6	1139.8	1099.3	1096.7	1091.7	1081.5	1068.9	1068.9	1076.5
72.5°	987.8	1008.1	965.0	927.0	896.6	873.8	861.2	853.6	835.8	835.8	843.4
75°	726.9	739.6	704.1	699.1	666.1	643.3	623.1	612.9	590.2	580.0	587.6
77.5°	483.8	481.2	463.5	463.5	450.8	423.0	400.2	377.4	347.0	326.7	331.8
80°	314.1	314.1	306.5	306.5	293.8	271.0	243.2	220.4	202.6	187.4	187.4
82.5°	200.1	197.6	195.0	192.5	187.4	164.6	144.4	129.2	116.5	106.4	108.9
85°	111.4	111.4	106.4	106.4	96.2	83.6	73.5	63.3	55.7	53.2	53.2
87.5°	38.0	38.0	35.5	35.5	30.4	22.8	17.7	15.2	12.7	10.1	12.7
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)