

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: P640667

Luminaire Tested: GWS-SA5E-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640667
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32639.9 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

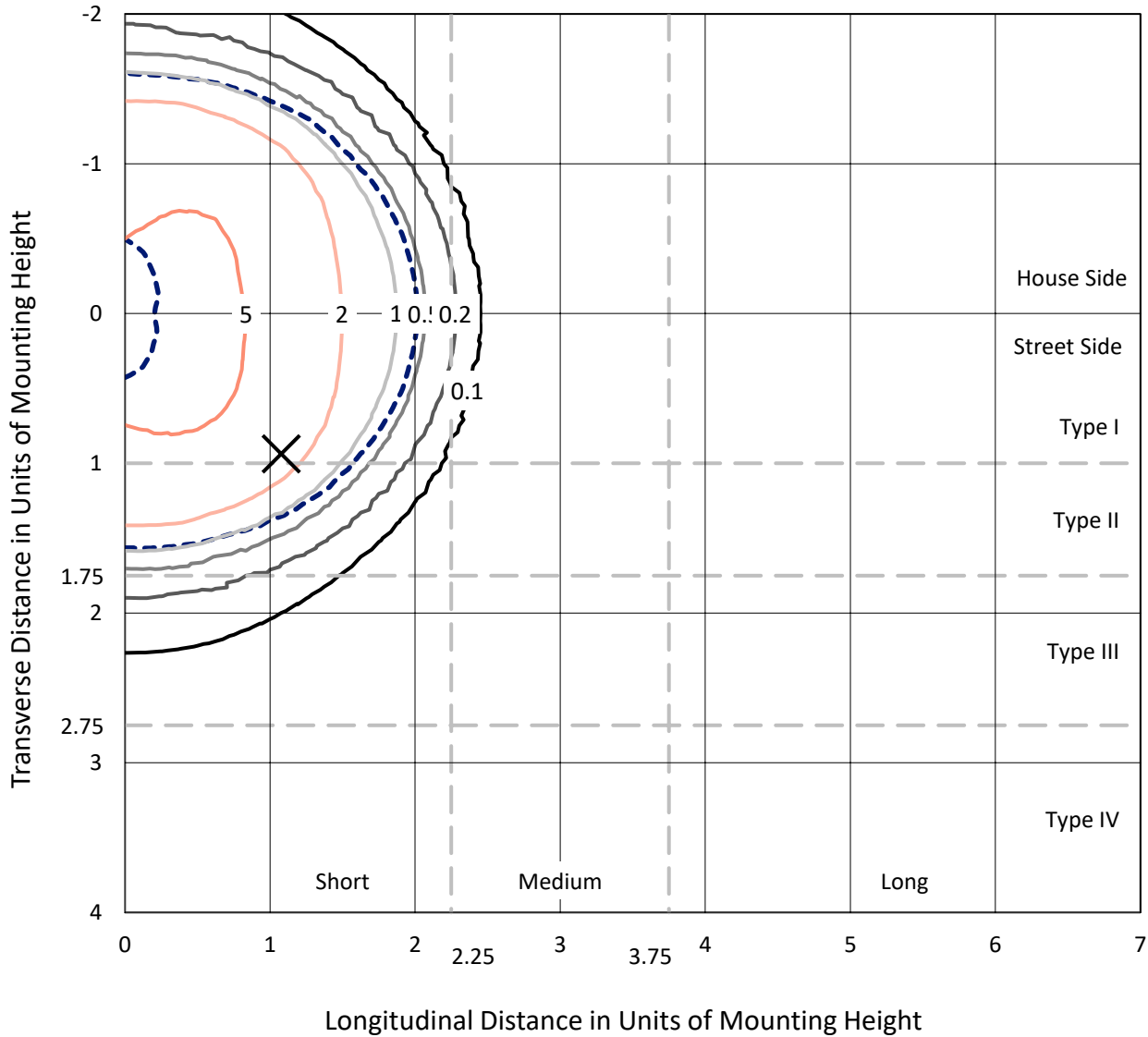
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

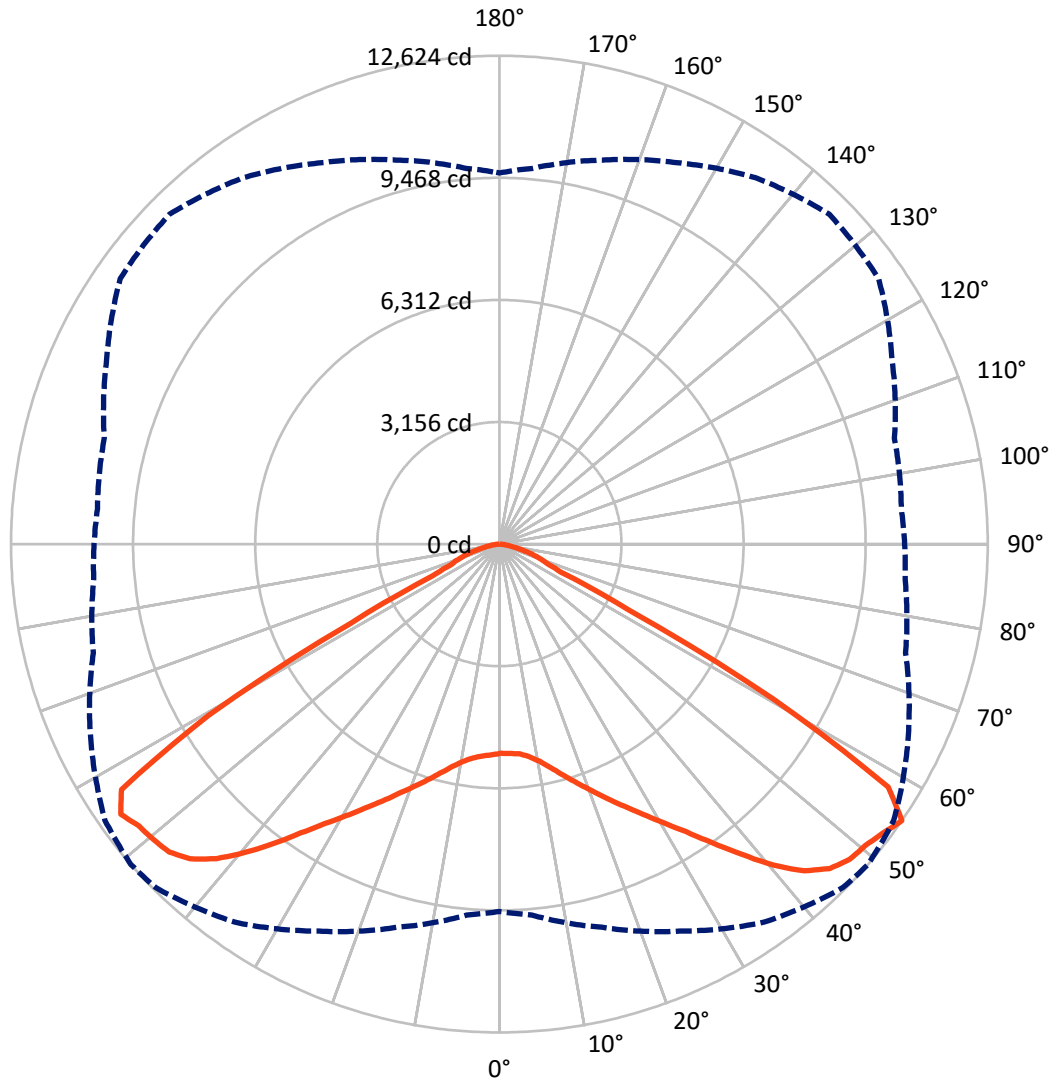
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	16159.8	0.0	16159.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	16480.1	0.0	16480.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	32639.9	0.0	32639.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.4	1.6
10°-20°	1739.8	5.3
20°-30°	3313.8	10.2
30°-40°	5617.5	17.2
40°-50°	8454.0	25.9
50°-60°	9253.7	28.4
60°-70°	2926.1	9.0
70°-80°	702.3	2.2
80°-90°	105.4	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°	32639.9	100.0
0°-180°	32639.9	100.0

Coefficient of Utilization



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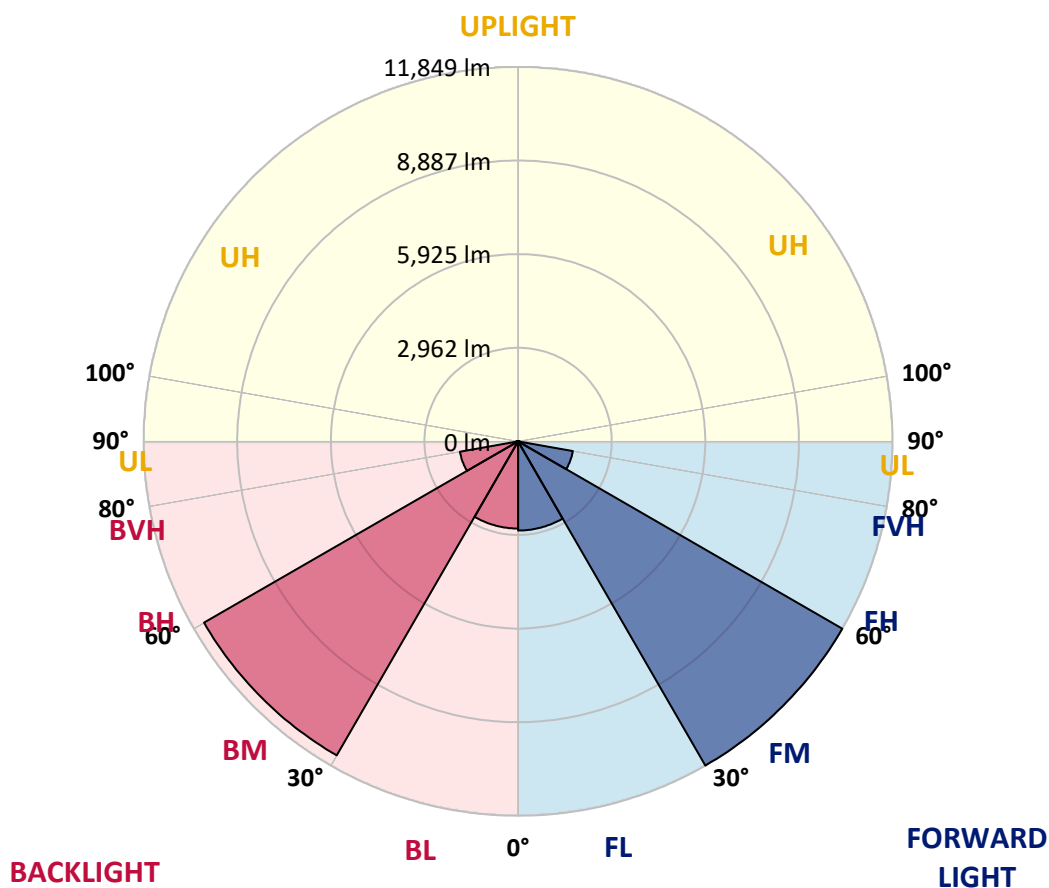
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.0	8.6			
FM (30°-60°)	11849.2	36.3			
FH (60°-80°)	1760.1	5.4			G1/1800
FVH (80°-90°)	48.8	0.1			G1/100
BL (0°-30°)	2759.0	8.5	B4/5000		
BM (30°-60°)	11476.0	35.2	B5		
BH (60°-80°)	1868.3	5.7	B3/2500		G2/5000
BVH (80°-90°)	56.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0
2.5°	5327.4	5332.7	5343.3	5361.9	5380.5	5407.0	5417.6	5430.9	5428.2	5444.2	5444.2
5°	5300.8	5308.8	5324.7	5351.3	5383.1	5433.5	5446.8	5478.7	5510.5	5550.3	5563.6
7.5°	5332.7	5343.3	5361.9	5404.3	5452.1	5518.5	5545.0	5598.1	5659.2	5730.8	5760.0
10°	5393.7	5407.0	5438.9	5507.9	5584.8	5685.7	5709.6	5776.0	5874.2	5972.4	6030.8
12.5°	5462.7	5484.0	5542.4	5651.2	5765.3	5898.1	5935.2	6017.5	6123.7	6251.1	6330.7
15°	5542.4	5561.0	5651.2	5805.2	5983.0	6158.2	6200.7	6280.3	6399.7	6524.5	6636.0
17.5°	5709.6	5741.5	5847.6	6025.5	6232.5	6439.6	6487.3	6577.6	6673.1	6771.4	6877.5
20°	5937.9	5964.4	6099.8	6320.1	6564.3	6752.8	6800.6	6880.2	6925.3	6975.7	7066.0
22.5°	6166.2	6203.3	6357.3	6617.4	6904.1	7108.5	7145.6	7219.9	7188.1	7172.2	7230.6
25°	6450.2	6500.6	6651.9	6935.9	7227.9	7480.1	7509.3	7573.0	7519.9	7437.6	7435.0
27.5°	6803.2	6848.3	7004.9	7296.9	7586.3	7849.0	7904.8	7989.7	7872.9	7772.1	7700.4
30°	7222.6	7251.8	7424.3	7734.9	8032.2	8281.7	8353.4	8438.3	8350.7	8183.5	8111.8
32.5°	7711.0	7750.8	7949.9	8276.4	8541.8	8791.3	8863.0	8969.2	8873.6	8685.2	8594.9
35°	8297.6	8337.4	8547.1	8902.8	9173.6	9431.1	9481.5	9569.1	9449.6	9232.0	9160.3
37.5°	8934.7	8985.1	9250.6	9587.7	9871.7	10171.6	10174.3	10200.8	10030.9	9760.2	9680.6
40°	9651.4	9717.7	9983.2	10333.5	10676.0	10920.2	10917.5	10843.2	10556.5	10137.1	10015.0
42.5°	10360.1	10413.2	10681.3	11042.3	11384.7	11615.6	11546.6	11366.1	10952.0	10381.3	10219.4
45°	10872.4	10912.2	11193.6	11599.7	11947.4	12090.8	11966.0	11748.3	11188.3	10535.3	10296.4
47.5°	11113.9	11167.0	11451.0	11854.5	12247.4	12329.7	12181.0	11976.6	11326.3	10678.6	10357.4
50°	10983.9	11052.9	11374.1	11748.3	12191.6	12361.5	12255.3	12050.9	11472.3	10819.3	10466.3
52.5°	10646.8	10713.1	11119.2	11573.2	12074.8	12411.9	12409.3	12242.1	11639.5	10859.1	10471.6
55°	9494.8	9624.8	10256.6	11039.6	11931.5	12560.6	12624.3	12446.4	11666.1	10869.7	10527.3
57.5°	6179.4	6407.7	7007.6	8026.9	9815.9	11424.5	11854.5	11897.0	11474.9	10824.6	10537.9
60°	2580.1	2763.2	3238.4	3915.2	5393.7	7307.5	8141.0	8977.2	9985.8	10352.1	10439.7
62.5°	1603.3	1619.2	1667.0	1820.9	2314.6	3249.0	3785.2	4568.2	6067.9	7344.7	7934.0
65°	1446.6	1454.6	1465.2	1454.6	1478.5	1592.6	1736.0	2009.4	2619.9	3254.3	4008.1
67.5°	1274.1	1284.7	1292.7	1284.7	1292.7	1298.0	1313.9	1337.8	1449.3	1539.5	1608.6
70°	1029.9	1045.8	1059.1	1053.8	1085.6	1085.6	1101.6	1120.2	1175.9	1242.3	1290.0
72.5°	785.7	772.4	788.4	793.7	822.9	838.8	862.7	883.9	947.6	987.4	1048.5
75°	509.6	496.4	520.3	533.5	573.3	594.6	615.8	637.1	682.2	708.7	767.1
77.5°	276.1	273.4	297.3	315.9	358.3	384.9	400.8	416.7	453.9	461.9	499.0
80°	159.3	159.3	175.2	188.5	215.0	244.2	260.1	273.4	299.9	307.9	323.8
82.5°	87.6	87.6	95.6	103.5	124.8	140.7	154.0	164.6	188.5	196.4	204.4
85°	42.5	39.8	45.1	50.4	58.4	66.4	74.3	79.6	98.2	103.5	114.1
87.5°	5.3	5.3	5.3	8.0	10.6	15.9	18.6	18.6	29.2	34.5	39.8
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°	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0
2.5°	5460.1	5425.6	5446.8	5454.8	5454.8	5446.8	5412.3	5401.7	5385.8	5361.9	5361.9
5°	5582.2	5555.6	5561.0	5547.7	5515.8	5476.0	5412.3	5380.5	5353.9	5324.7	5322.1
7.5°	5791.9	5757.4	5752.1	5701.6	5616.7	5531.8	5436.2	5377.8	5338.0	5300.8	5298.2
10°	6065.3	6033.4	5993.6	5892.8	5768.0	5643.2	5513.2	5433.5	5375.1	5322.1	5319.4
12.5°	6370.5	6333.4	6259.1	6110.4	5953.8	5831.7	5683.1	5561.0	5473.4	5401.7	5388.4
15°	6702.3	6649.3	6521.8	6346.7	6192.7	6062.6	5903.4	5728.2	5595.5	5481.3	5468.0
17.5°	6957.2	6888.1	6750.1	6585.5	6458.1	6328.1	6121.0	5900.7	5709.6	5566.3	5545.0
20°	7132.4	7076.6	6920.0	6797.9	6723.6	6609.4	6367.9	6118.4	5903.4	5722.9	5712.3
22.5°	7294.3	7227.9	7074.0	7002.3	7002.3	6925.3	6694.4	6399.7	6147.6	5937.9	5911.3
25°	7477.4	7405.8	7289.0	7281.0	7318.2	7283.7	7004.9	6689.1	6394.4	6158.2	6115.7
27.5°	7732.2	7652.6	7583.6	7631.4	7684.5	7647.3	7336.7	6970.4	6659.9	6421.0	6383.8
30°	8138.4	8040.2	7976.4	8034.8	8138.4	8029.5	7692.4	7304.9	6991.7	6728.9	6710.3
32.5°	8610.8	8499.4	8433.0	8525.9	8618.8	8448.9	8114.5	7742.9	7413.7	7137.7	7105.8
35°	9178.9	9038.2	8940.0	9064.8	9160.3	8993.1	8661.3	8308.2	7941.9	7655.3	7612.8
37.5°	9683.2	9513.3	9447.0	9622.2	9749.6	9640.8	9279.8	8948.0	8547.1	8233.9	8215.3
40°	10049.5	9882.3	9834.5	10123.9	10346.8	10320.3	9996.4	9616.9	9239.9	8878.9	8844.4
42.5°	10208.8	10092.0	10102.6	10492.8	10837.9	11007.8	10718.4	10312.3	9948.7	9574.4	9550.5
45°	10243.3	10171.6	10256.6	10745.0	11198.9	11546.6	11299.7	10960.0	10548.6	10187.6	10176.9
47.5°	10280.5	10240.6	10370.7	10888.3	11427.2	11830.6	11692.6	11342.2	10925.5	10572.4	10545.9
50°	10368.1	10352.1	10498.1	10989.2	11536.0	11907.6	11751.0	11403.3	10975.9	10628.2	10564.5
52.5°	10394.6	10368.1	10577.8	11145.8	11716.5	11905.0	11567.8	11113.9	10683.9	10296.4	10230.0
55°	10476.9	10429.1	10572.4	11204.2	11966.0	12058.9	11557.2	10877.7	10277.8	9749.6	9593.0
57.5°	10498.1	10445.0	10537.9	11108.6	11695.3	11613.0	10158.4	8778.1	7647.3	7060.7	7127.0
60°	10384.0	10399.9	10240.6	10176.9	9380.6	8281.7	6219.2	4971.7	3904.6	3453.4	3551.6
62.5°	7904.8	7971.1	7427.0	6458.1	4966.4	3936.5	2604.0	2022.6	1712.1	1632.5	1645.7
65°	3989.6	4079.8	3514.4	2906.6	2160.7	1746.6	1510.3	1462.6	1446.6	1428.1	1428.1
67.5°	1579.4	1605.9	1584.7	1483.8	1380.3	1343.1	1332.5	1327.2	1308.6	1298.0	1300.7
70°	1268.8	1290.0	1258.2	1194.5	1152.0	1149.4	1144.0	1133.4	1120.2	1120.2	1128.1
72.5°	1035.2	1056.4	1011.3	971.5	939.7	915.8	902.5	894.5	875.9	875.9	883.9
75°	761.8	775.1	737.9	732.6	698.1	674.2	653.0	642.4	618.5	607.9	615.8
77.5°	507.0	504.3	485.8	485.8	472.5	443.3	419.4	395.5	363.7	342.4	347.7
80°	329.1	329.1	321.2	321.2	307.9	284.0	254.8	230.9	212.4	196.4	196.4
82.5°	209.7	207.0	204.4	201.7	196.4	172.5	151.3	135.4	122.1	111.5	114.1
85°	116.8	116.8	111.5	111.5	100.9	87.6	77.0	66.4	58.4	55.7	55.7
87.5°	39.8	39.8	37.2	37.2	31.9	23.9	18.6	15.9	13.3	10.6	13.3
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)