

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: P643472

Luminaire Tested: GWS-SA6F-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643472
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-SA6F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32317.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

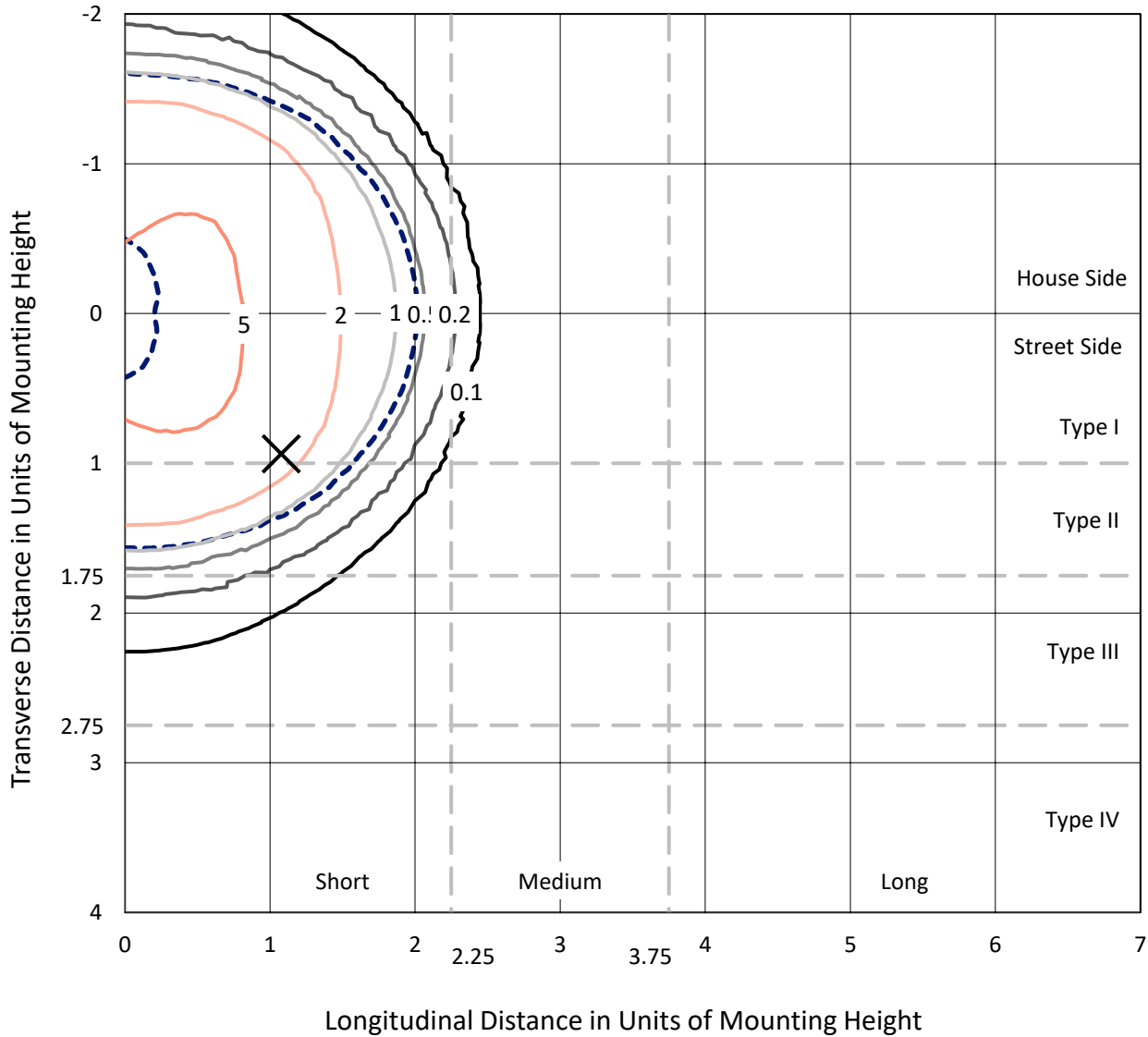
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

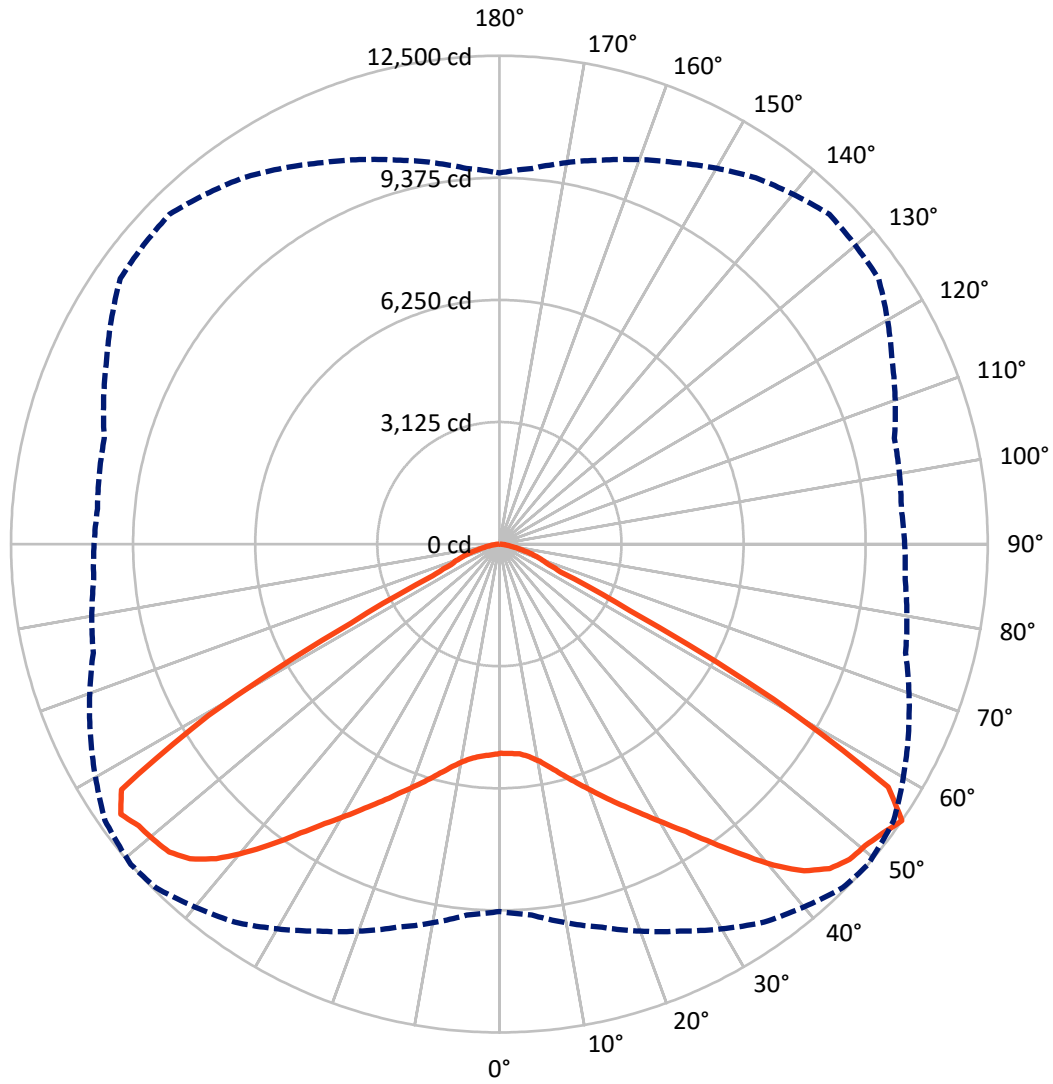
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	16000.2	0.0	16000.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	16317.3	0.0	16317.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	32317.5	0.0	32317.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.2	1.6
10°-20°	1722.6	5.3
20°-30°	3281.0	10.2
30°-40°	5562.0	17.2
40°-50°	8370.5	25.9
50°-60°	9162.3	28.4
60°-70°	2897.2	9.0
70°-80°	695.3	2.2
80°-90°	104.3	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°	32317.5	100.0
0°-180°	32317.5	100.0

Coefficient of Utilization



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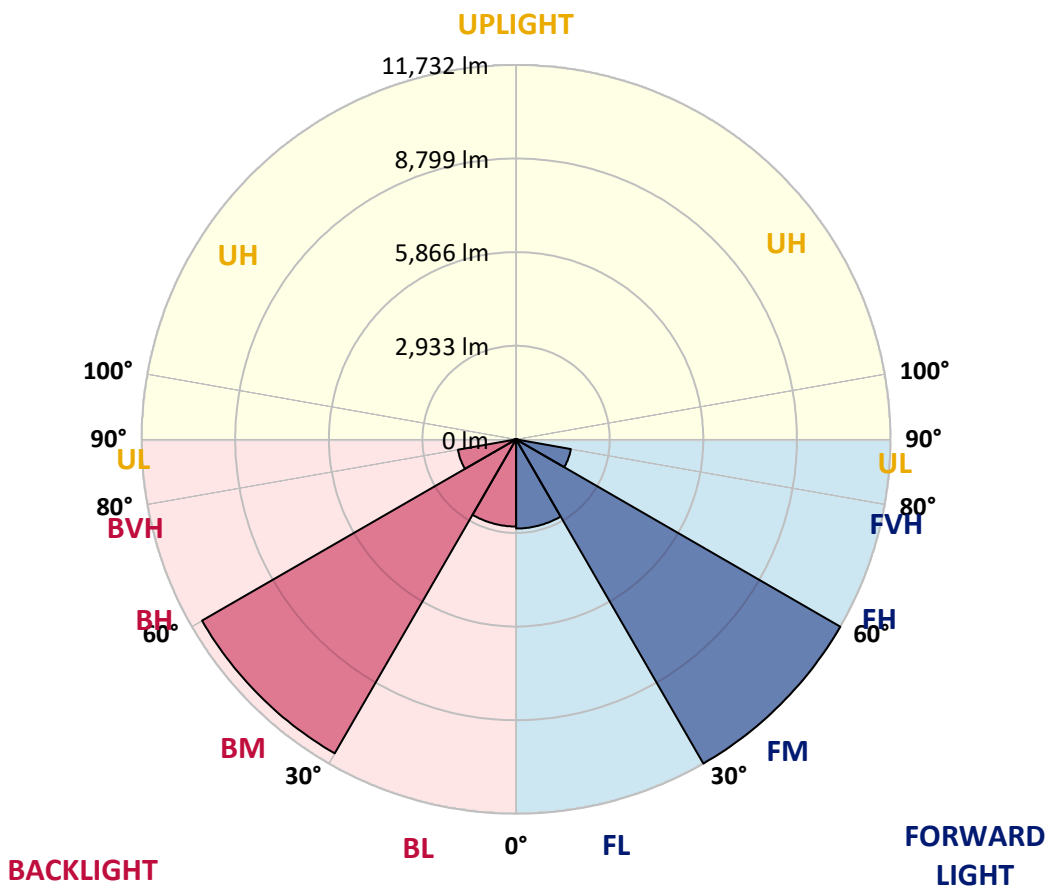
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2794.1	8.6			
FM (30°-60°)	11732.1	36.3			
FH (60°-80°)	1742.7	5.4			G1/1800
FVH (80°-90°)	48.3	0.1			G1/100
BL (0°-30°)	2731.7	8.5	B4/5000		
BM (30°-60°)	11362.7	35.2	B5		
BH (60°-80°)	1849.8	5.7	B3/2500		G2/5000
BVH (80°-90°)	56.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6
2.5°	5274.7	5280.0	5290.5	5308.9	5327.3	5353.6	5364.1	5377.2	5374.6	5390.4	5390.4
5°	5248.5	5256.3	5272.1	5298.4	5329.9	5379.9	5393.0	5424.6	5456.1	5495.5	5508.7
7.5°	5280.0	5290.5	5308.9	5351.0	5398.3	5464.0	5490.3	5542.8	5603.3	5674.2	5703.1
10°	5340.4	5353.6	5385.1	5453.5	5529.7	5629.5	5653.2	5718.9	5816.1	5913.4	5971.2
12.5°	5408.8	5429.8	5487.6	5595.4	5708.4	5839.8	5876.6	5958.1	6063.2	6189.3	6268.2
15°	5487.6	5506.0	5595.4	5747.8	5923.9	6097.4	6139.4	6218.3	6336.5	6460.1	6570.4
17.5°	5653.2	5684.7	5789.9	5966.0	6171.0	6375.9	6423.3	6512.6	6607.2	6704.5	6809.6
20°	5879.2	5905.5	6039.5	6257.7	6499.5	6686.1	6733.4	6812.2	6856.9	6906.8	6996.2
22.5°	6105.2	6142.0	6294.5	6552.0	6835.9	7038.2	7075.0	7148.6	7117.1	7101.3	7159.1
25°	6386.5	6436.4	6586.2	6867.4	7156.5	7406.2	7435.1	7498.2	7445.6	7364.1	7361.5
27.5°	6736.0	6780.7	6935.8	7224.8	7511.3	7771.5	7826.7	7910.8	7795.2	7695.3	7624.3
30°	7151.3	7180.2	7351.0	7658.5	7952.9	8199.9	8270.9	8355.0	8268.2	8102.7	8031.7
32.5°	7634.8	7674.3	7871.4	8194.6	8457.5	8704.5	8775.5	8880.6	8786.0	8599.4	8510.0
35°	8215.7	8255.1	8462.7	8814.9	9083.0	9337.9	9387.8	9474.6	9356.3	9140.8	9069.8
37.5°	8846.4	8896.4	9159.2	9493.0	9774.2	10071.2	10073.8	10100.1	9931.9	9663.8	9584.9
40°	9556.0	9621.7	9884.6	10231.5	10570.5	10812.3	10809.7	10736.1	10452.2	10037.0	9916.1
42.5°	10257.8	10310.3	10575.8	10933.2	11272.2	11500.9	11432.6	11253.8	10843.8	10278.8	10118.5
45°	10765.0	10804.4	11083.0	11485.1	11829.4	11971.3	11847.8	11632.3	11077.8	10431.2	10194.7
47.5°	11004.2	11056.7	11337.9	11737.4	12126.4	12207.9	12060.7	11858.3	11214.4	10573.1	10255.1
50°	10875.4	10943.7	11261.7	11632.3	12071.2	12239.4	12134.3	11931.9	11359.0	10712.4	10362.9
52.5°	10541.6	10607.3	11009.4	11458.8	11955.6	12289.3	12286.7	12121.1	11524.5	10751.9	10368.1
55°	9401.0	9529.8	10155.3	10930.6	11813.6	12436.5	12499.6	12323.5	11550.8	10762.4	10423.3
57.5°	6118.4	6344.4	6938.4	7947.6	9719.0	11311.7	11737.4	11779.5	11361.6	10717.7	10433.8
60°	2554.6	2735.9	3206.4	3876.6	5340.4	7235.4	8060.6	8888.5	9887.2	10249.9	10336.6
62.5°	1587.4	1603.2	1650.5	1802.9	2291.8	3216.9	3747.8	4523.1	6008.0	7272.2	7855.6
65°	1432.4	1440.2	1450.8	1440.2	1463.9	1576.9	1718.8	1989.5	2594.0	3222.1	3968.5
67.5°	1261.5	1272.0	1279.9	1272.0	1279.9	1285.2	1300.9	1324.6	1435.0	1524.3	1592.7
70°	1019.7	1035.5	1048.6	1043.4	1074.9	1074.9	1090.7	1109.1	1164.3	1230.0	1277.3
72.5°	777.9	764.8	780.6	785.8	814.7	830.5	854.2	875.2	938.3	977.7	1038.1
75°	504.6	491.5	515.1	528.3	567.7	588.7	609.7	630.8	675.4	701.7	759.5
77.5°	273.3	270.7	294.4	312.8	354.8	381.1	396.9	412.6	449.4	457.3	494.1
80°	157.7	157.7	173.5	186.6	212.9	241.8	257.6	270.7	297.0	304.9	320.6
82.5°	86.7	86.7	94.6	102.5	123.5	139.3	152.4	162.9	186.6	194.5	202.4
85°	42.1	39.4	44.7	49.9	57.8	65.7	73.6	78.8	97.2	102.5	113.0
87.5°	5.3	5.3	5.3	7.9	10.5	15.8	18.4	18.4	28.9	34.2	39.4
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°	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6	5353.6
2.5°	5406.2	5372.0	5393.0	5400.9	5400.9	5393.0	5358.8	5348.3	5332.6	5308.9	5308.9
5°	5527.0	5500.8	5506.0	5492.9	5461.3	5421.9	5358.8	5327.3	5301.0	5272.1	5269.5
7.5°	5734.7	5700.5	5695.3	5645.3	5561.2	5477.1	5382.5	5324.7	5285.3	5248.5	5245.8
10°	6005.4	5973.8	5934.4	5834.5	5711.0	5587.5	5458.7	5379.9	5322.1	5269.5	5266.9
12.5°	6307.6	6270.8	6197.2	6050.1	5895.0	5774.1	5626.9	5506.0	5419.3	5348.3	5335.2
15°	6636.1	6583.6	6457.4	6284.0	6131.5	6002.7	5845.1	5671.6	5540.2	5427.2	5414.0
17.5°	6888.4	6820.1	6683.4	6520.5	6394.3	6265.6	6060.6	5842.4	5653.2	5511.3	5490.3
20°	7061.9	7006.7	6851.6	6730.8	6657.2	6544.2	6305.0	6057.9	5845.1	5666.3	5655.8
22.5°	7222.2	7156.5	7004.1	6933.1	6933.1	6856.9	6628.3	6336.5	6086.9	5879.2	5852.9
25°	7403.6	7332.6	7217.0	7209.1	7245.9	7211.7	6935.8	6623.0	6331.3	6097.4	6055.3
27.5°	7655.9	7577.0	7508.7	7556.0	7608.6	7571.8	7264.3	6901.6	6594.1	6357.6	6320.8
30°	8058.0	7960.7	7897.7	7955.5	8058.0	7950.2	7616.4	7232.7	6922.6	6662.4	6644.0
32.5°	8525.8	8415.4	8349.7	8441.7	8533.7	8365.5	8034.3	7666.4	7340.5	7067.2	7035.6
35°	9088.2	8948.9	8851.7	8975.2	9069.8	8904.3	8575.7	8226.2	7863.5	7579.7	7537.6
37.5°	9587.6	9419.4	9353.7	9527.1	9653.3	9545.5	9188.1	8859.6	8462.7	8152.6	8134.2
40°	9950.3	9784.7	9737.4	10023.9	10244.6	10218.3	9897.7	9521.9	9148.7	8791.2	8757.1
42.5°	10108.0	9992.3	10002.8	10389.2	10730.8	10899.0	10612.6	10210.5	9850.4	9479.8	9456.2
45°	10142.1	10071.2	10155.3	10638.8	11088.3	11432.6	11188.1	10851.7	10444.4	10086.9	10076.4
47.5°	10178.9	10139.5	10268.3	10780.8	11314.3	11713.8	11577.1	11230.2	10817.6	10468.0	10441.7
50°	10265.6	10249.9	10394.4	10880.6	11422.0	11790.0	11634.9	11290.6	10867.5	10523.2	10460.1
52.5°	10291.9	10265.6	10473.3	11035.7	11600.8	11787.4	11453.6	11004.2	10578.4	10194.7	10129.0
55°	10373.4	10326.1	10468.0	11093.5	11847.8	11939.8	11443.1	10770.3	10176.3	9653.3	9498.2
57.5°	10394.4	10341.9	10433.8	10998.9	11579.7	11498.3	10058.0	8691.4	7571.8	6990.9	7056.6
60°	10281.4	10297.2	10139.5	10076.4	9288.0	8199.9	6157.8	4922.6	3866.0	3419.3	3516.5
62.5°	7826.7	7892.4	7353.6	6394.3	4917.3	3897.6	2578.2	2002.7	1695.2	1616.3	1629.5
65°	3950.1	4039.5	3479.7	2877.9	2139.3	1729.3	1495.4	1448.1	1432.4	1414.0	1414.0
67.5°	1563.8	1590.0	1569.0	1469.1	1366.7	1329.9	1319.3	1314.1	1295.7	1285.2	1287.8
70°	1256.3	1277.3	1245.8	1182.7	1140.6	1138.0	1132.7	1122.2	1109.1	1109.1	1117.0
72.5°	1025.0	1046.0	1001.3	961.9	930.4	906.7	893.6	885.7	867.3	867.3	875.2
75°	754.3	767.4	730.6	725.4	691.2	667.6	646.5	636.0	612.4	601.9	609.7
77.5°	502.0	499.4	481.0	481.0	467.8	438.9	415.3	391.6	360.1	339.0	344.3
80°	325.9	325.9	318.0	318.0	304.9	281.2	252.3	228.7	210.3	194.5	194.5
82.5°	207.6	205.0	202.4	199.7	194.5	170.8	149.8	134.0	120.9	110.4	113.0
85°	115.6	115.6	110.4	110.4	99.9	86.7	76.2	65.7	57.8	55.2	55.2
87.5°	39.4	39.4	36.8	36.8	31.5	23.7	18.4	15.8	13.1	10.5	13.1
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)