

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: P643143

Luminaire Tested: GWS-SA6E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45450.3 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

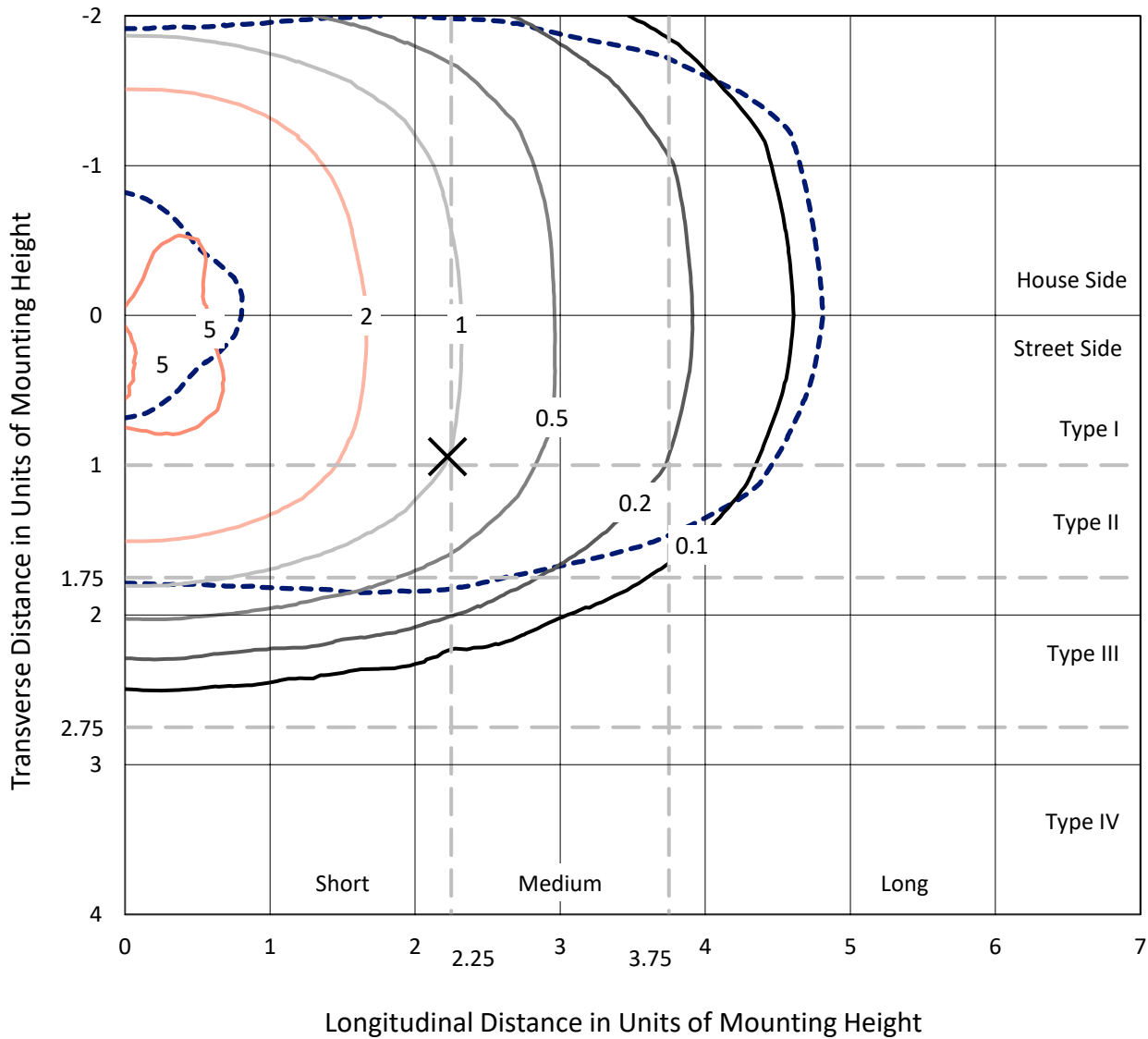
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

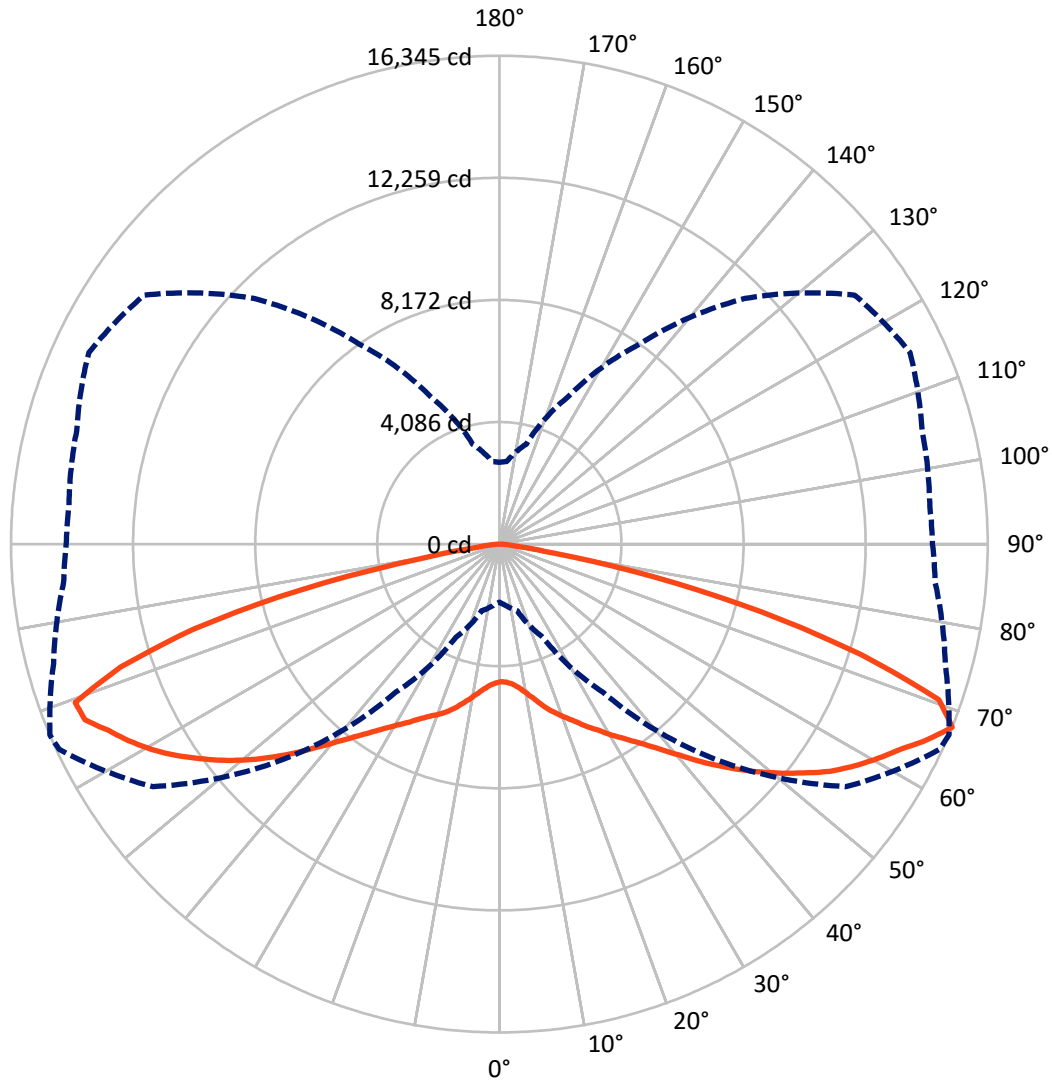
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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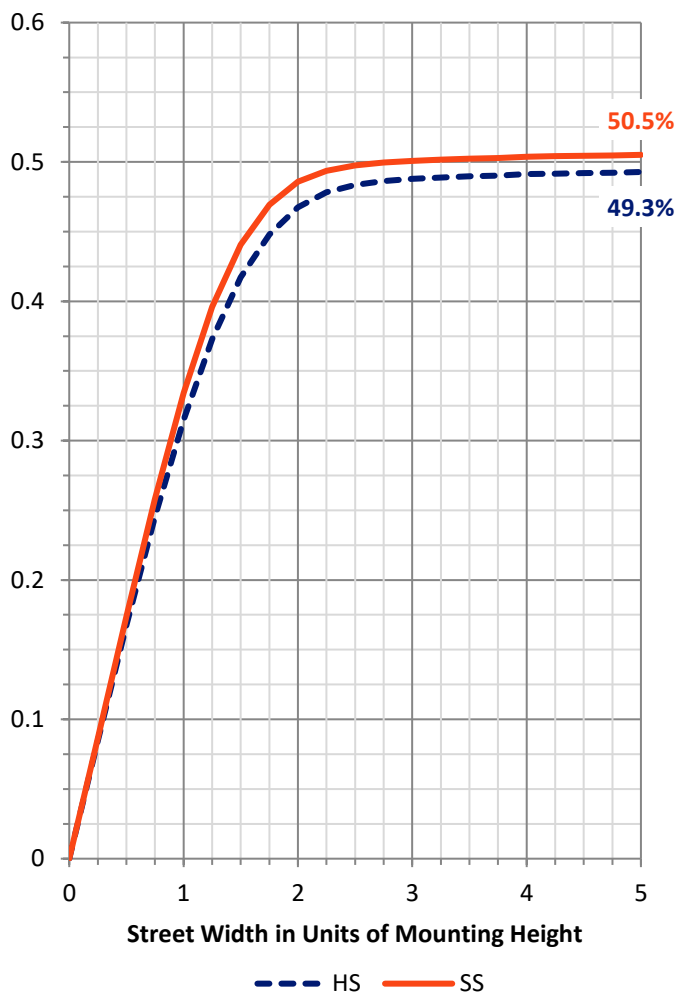
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22474.3	0.0	22474.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	22976.0	0.0	22976.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	45450.3	0.0	45450.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	1.0
10°-20°	1525.4	3.4
20°-30°	2992.8	6.6
30°-40°	5098.8	11.2
40°-50°	8187.7	18.0
50°-60°	11125.4	24.5
60°-70°	10642.2	23.4
70°-80°	5059.7	11.1
80°-90°	366.7	0.8
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°	45450.3	100.0
0°-180°	45450.3	100.0

Coefficient of Utilization



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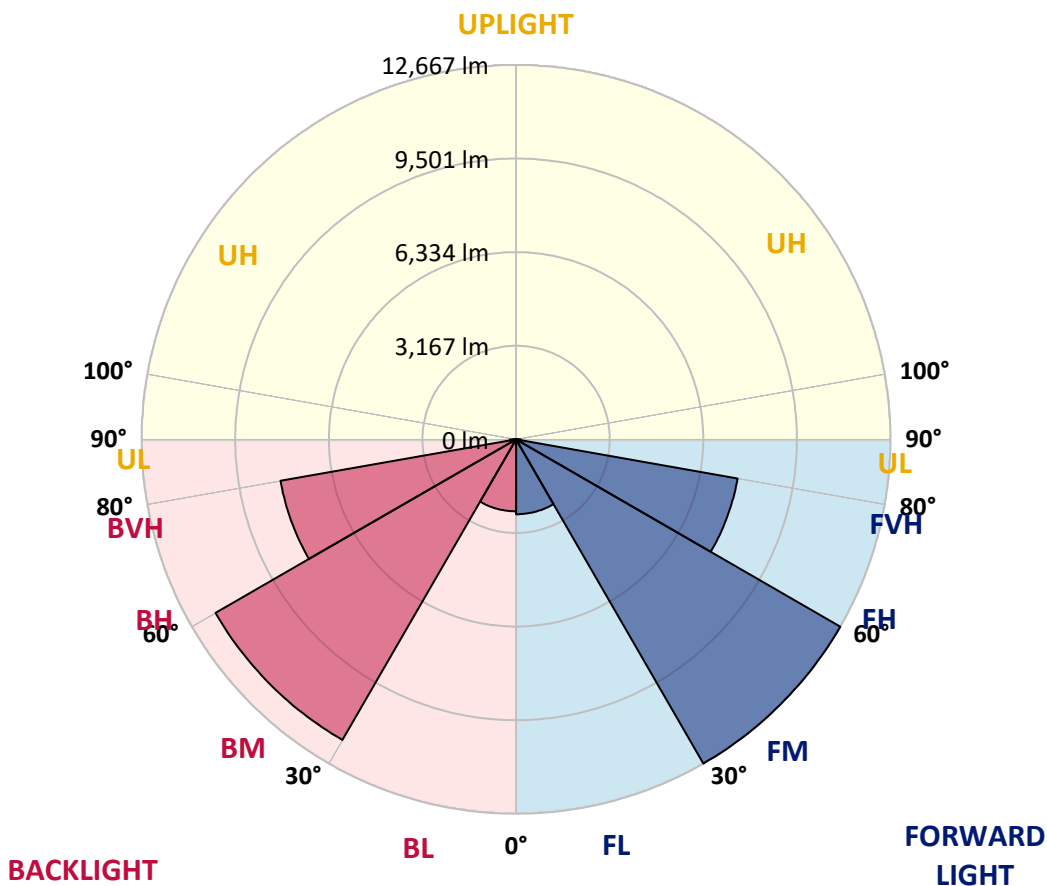
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.2	5.6			
FM (30°-60°)	12667.4	27.9			
FH (60°-80°)	7609.6	16.7			G4/12000
FVH (80°-90°)	164.8	0.4			G2/225
BL (0°-30°)	2435.6	5.4	B3/2500		
BM (30°-60°)	11744.6	25.8	B5		
BH (60°-80°)	8092.3	17.8	B5		G5
BVH (80°-90°)	201.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1
2.5°	4507.1	4513.5	4523.0	4542.0	4560.9	4589.4	4617.9	4614.8	4627.4	4636.9	4646.4
5°	4481.8	4488.2	4504.0	4529.3	4557.8	4605.3	4665.4	4690.7	4709.7	4744.5	4776.2
7.5°	4535.6	4548.3	4570.4	4605.3	4649.6	4709.7	4792.0	4836.3	4864.8	4928.1	4981.9
10°	4608.4	4624.3	4668.6	4735.0	4801.5	4893.3	4997.7	5064.2	5083.2	5165.5	5266.8
12.5°	4678.1	4697.1	4769.8	4890.1	5010.4	5133.8	5257.3	5339.6	5345.9	5456.7	5570.6
15°	4788.8	4804.7	4902.8	5057.9	5241.5	5412.4	5564.3	5621.3	5646.6	5725.7	5868.1
17.5°	5032.6	5051.5	5178.1	5345.9	5539.0	5719.4	5871.3	5918.8	5918.8	5985.3	6102.4
20°	5295.3	5314.3	5482.0	5697.2	5931.5	6115.0	6232.1	6187.8	6172.0	6191.0	6273.3
22.5°	5589.6	5624.4	5785.9	6035.9	6323.9	6548.6	6608.8	6475.9	6431.5	6387.2	6406.2
25°	5966.3	6007.4	6165.7	6431.5	6713.2	6950.6	6985.4	6779.7	6754.4	6599.3	6542.3
27.5°	6399.9	6431.5	6627.8	6890.5	7153.2	7352.6	7390.6	7137.4	7051.9	6836.7	6703.7
30°	6960.1	6988.6	7159.5	7419.1	7646.9	7786.2	7833.7	7485.5	7419.1	7089.9	6884.2
32.5°	7571.0	7583.6	7757.7	8007.8	8210.3	8343.3	8276.8	7871.7	7773.6	7403.2	7121.5
35°	8270.5	8270.5	8495.2	8697.8	8859.2	8897.2	8770.6	8308.5	8194.5	7792.5	7441.2
37.5°	8957.3	8976.3	9185.2	9425.8	9568.2	9561.9	9330.8	8824.4	8694.6	8257.8	7868.5
40°	9701.1	9742.3	9951.2	10220.2	10356.3	10337.3	9982.8	9419.4	9286.5	8770.6	8390.8
42.5°	10384.8	10451.3	10695.0	10970.3	11119.1	11106.4	10736.1	10103.1	9973.3	9390.9	9011.1
45°	10929.2	10998.8	11302.7	11685.7	11923.0	11900.9	11527.4	10812.1	10653.8	10043.0	9625.2
47.5°	11407.1	11479.9	11818.6	12223.7	12600.4	12638.4	12296.5	11527.4	11359.6	10742.4	10270.8
50°	11774.3	11809.1	12188.9	12632.0	13068.8	13280.9	12983.4	12245.9	12043.3	11432.4	10900.7
52.5°	11745.8	11793.3	12261.7	12863.1	13448.6	13796.8	13591.1	12923.2	12727.0	12062.3	11543.2
55°	11166.6	11214.0	11771.1	12647.9	13660.7	14173.4	14151.3	13568.9	13426.5	12704.8	12211.1
57.5°	10321.5	10425.9	10979.8	11926.2	13382.2	14474.1	14562.8	14157.6	14008.9	13334.7	12872.6
60°	8808.6	8947.8	9587.2	10815.2	12489.6	14372.8	15002.7	14654.5	14562.8	13920.2	13470.8
62.5°	6399.9	6501.2	7352.6	8963.6	11166.6	13651.2	15373.0	15167.3	15097.7	14445.6	14012.0
65°	3833.0	4064.0	4747.7	6339.8	9008.0	12290.2	15170.5	15838.3	15765.5	14986.9	14474.1
67.5°	1940.2	2044.7	2313.7	3437.3	6058.1	10169.6	14154.5	16256.1	16344.7	15449.0	14638.7
70°	1202.7	1231.2	1307.2	1696.5	3025.9	6681.6	11574.9	15167.3	15600.9	15376.2	14211.4
72.5°	965.4	971.7	984.4	1057.2	1452.8	3124.0	7317.8	11878.7	12660.5	14360.2	13600.6
75°	800.8	803.9	807.1	829.3	905.2	1275.5	3560.8	8162.9	9077.6	12204.7	12609.9
77.5°	642.5	626.7	639.4	648.9	667.8	712.2	1228.1	4355.2	5282.6	8010.9	9751.8
80°	417.8	411.5	436.8	446.3	465.3	493.8	655.2	1478.1	1794.6	2915.1	3101.8
82.5°	224.7	212.1	265.9	256.4	265.9	288.0	386.1	541.2	607.7	879.9	743.8
85°	69.6	69.6	72.8	85.5	104.4	101.3	167.8	265.9	294.4	376.7	278.5
87.5°	12.7	12.7	12.7	12.7	12.7	15.8	34.8	53.8	72.8	129.8	98.1
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°	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1	4602.1
2.5°	4665.4	4636.9	4652.7	4662.2	4659.1	4652.7	4621.1	4614.8	4598.9	4573.6	4567.3
5°	4804.7	4773.0	4776.2	4766.7	4735.0	4693.9	4624.3	4589.4	4560.9	4529.3	4526.1
7.5°	5023.1	4988.2	4978.7	4934.4	4845.8	4750.9	4640.1	4576.8	4529.3	4488.2	4481.8
10°	5301.6	5266.8	5235.1	5130.7	4985.1	4858.5	4712.9	4621.1	4551.5	4500.8	4491.3
12.5°	5611.8	5583.3	5504.2	5352.2	5178.1	5029.4	4880.6	4766.7	4665.4	4589.4	4579.9
15°	5956.8	5893.5	5773.2	5577.0	5412.4	5292.1	5111.7	4956.6	4795.2	4693.9	4671.7
17.5°	6197.3	6143.5	6001.1	5811.2	5681.4	5577.0	5364.9	5143.3	4924.9	4776.2	4744.5
20°	6368.2	6311.3	6149.8	6010.6	5969.4	5880.8	5633.9	5377.6	5124.3	4940.8	4899.6
22.5°	6491.7	6431.5	6267.0	6197.3	6254.3	6238.5	5997.9	5706.7	5406.0	5187.6	5137.0
25°	6608.8	6551.8	6406.2	6431.5	6583.5	6630.9	6371.4	6032.7	5690.9	5434.5	5374.4
27.5°	6719.6	6646.8	6580.3	6719.6	6934.8	7023.4	6748.1	6365.1	5994.8	5732.0	5684.6
30°	6890.5	6805.0	6795.5	6998.1	7339.9	7415.9	7112.0	6729.1	6361.9	6096.0	6035.9
32.5°	7105.7	7026.6	7032.9	7336.8	7732.4	7795.7	7536.2	7178.5	6811.4	6545.5	6463.2
35°	7396.9	7298.8	7352.6	7726.1	8124.9	8242.0	8033.1	7735.6	7377.9	7105.7	7013.9
37.5°	7798.9	7656.4	7767.2	8159.7	8561.7	8735.8	8574.3	8352.8	7998.3	7722.9	7637.5
40°	8311.6	8194.5	8238.8	8672.5	9087.1	9296.0	9194.7	8976.3	8625.0	8336.9	8238.8
42.5°	8919.3	8802.2	8786.4	9248.5	9663.1	9979.6	9881.5	9682.1	9318.1	8989.0	8894.0
45°	9514.4	9406.8	9428.9	9900.5	10365.8	10710.8	10612.7	10378.5	9982.8	9603.0	9527.0
47.5°	10134.7	10046.1	10065.1	10565.2	11077.9	11422.9	11299.5	11014.6	10552.5	10147.4	10055.6
50°	10770.9	10669.6	10698.1	11223.5	11777.4	12103.4	11913.5	11492.6	10983.0	10587.4	10508.2
52.5°	11404.0	11283.7	11356.5	11853.4	12426.3	12685.8	12334.5	11824.9	11331.2	10938.7	10850.1
55°	12131.9	12005.3	11926.2	12457.9	13024.5	13132.1	12651.0	12056.0	11470.4	11024.1	10970.3
57.5°	12796.6	12689.0	12540.2	13072.0	13489.8	13410.6	12894.7	11992.7	11131.8	10558.9	10482.9
60°	13391.7	13299.9	13170.1	13622.7	13812.6	13635.4	12698.5	11242.5	10296.2	9698.0	9663.1
62.5°	13939.2	13841.1	13720.8	14107.0	14081.7	13670.2	11805.9	10090.4	8824.4	8181.9	8124.9
65°	14372.8	14284.2	14249.4	14553.3	14512.1	12989.7	10416.4	8204.0	6447.4	5722.6	5700.4
67.5°	14496.3	14461.5	14648.2	15164.1	14521.6	11622.4	8169.2	5440.9	3462.7	2775.8	2734.7
70°	14034.2	14031.0	14565.9	15303.4	13204.9	8878.2	4820.5	2453.0	1740.8	1544.6	1519.3
72.5°	13432.8	13423.3	13847.4	13201.7	9792.9	4858.5	2028.8	1313.5	1088.8	1035.0	1035.0
75°	12445.3	12420.0	12739.6	10043.0	5507.3	1829.4	1076.1	902.1	854.6	845.1	845.1
77.5°	10144.2	9932.2	9428.9	6206.8	1921.2	898.9	712.2	709.0	680.5	677.3	677.3
80°	3336.0	3336.0	3877.3	2367.5	848.3	553.9	503.3	528.6	500.1	481.1	477.9
82.5°	544.4	750.1	1066.6	677.3	458.9	345.0	310.2	329.2	345.0	275.4	275.4
85°	215.2	281.7	411.5	316.5	212.1	139.3	148.8	164.6	145.6	126.6	123.4
87.5°	82.3	101.3	145.6	76.0	44.3	25.3	15.8	15.8	12.7	12.7	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)