

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: P642702

Luminaire Tested: GWS-SA6D-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642702
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31578.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

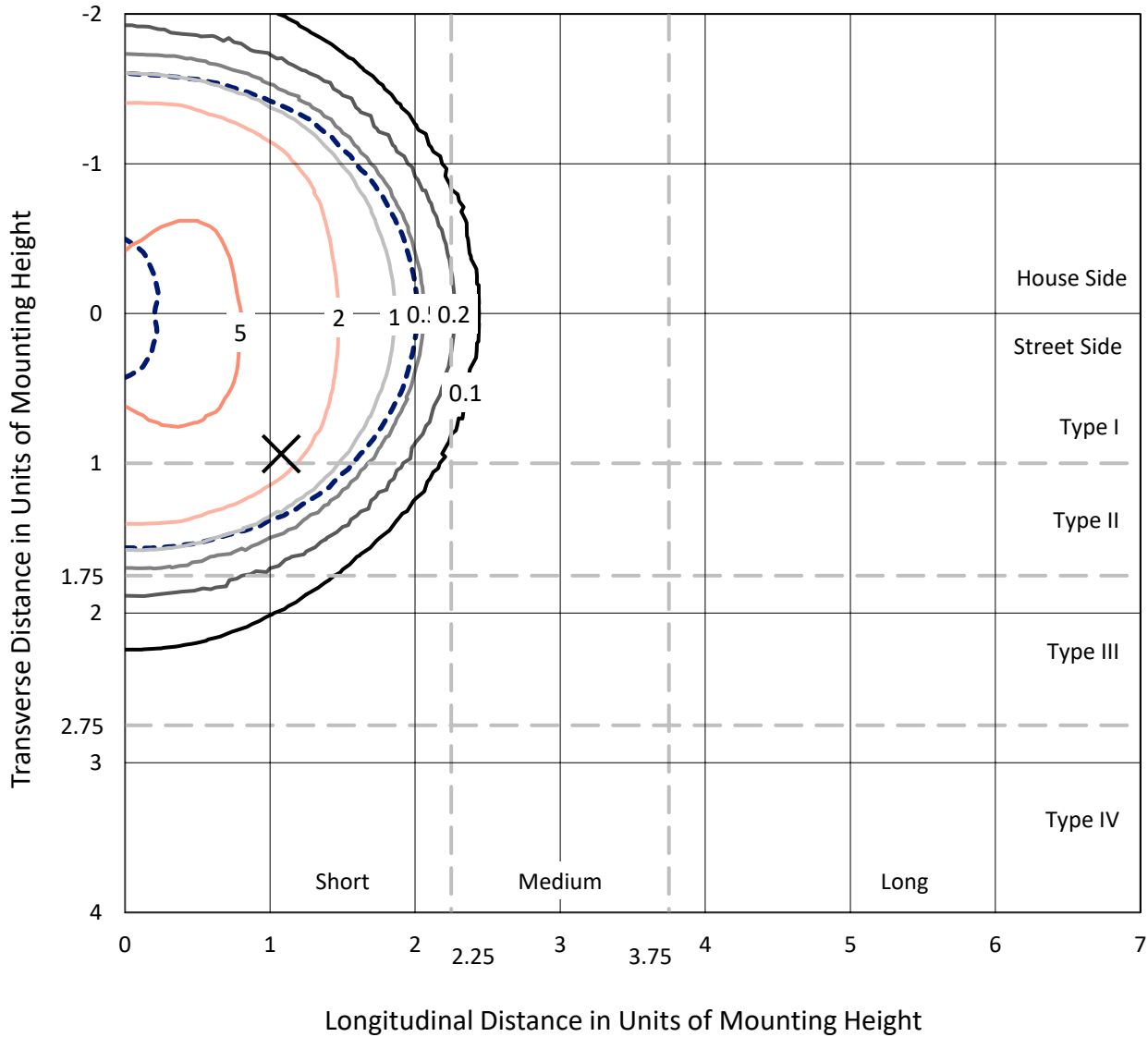
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

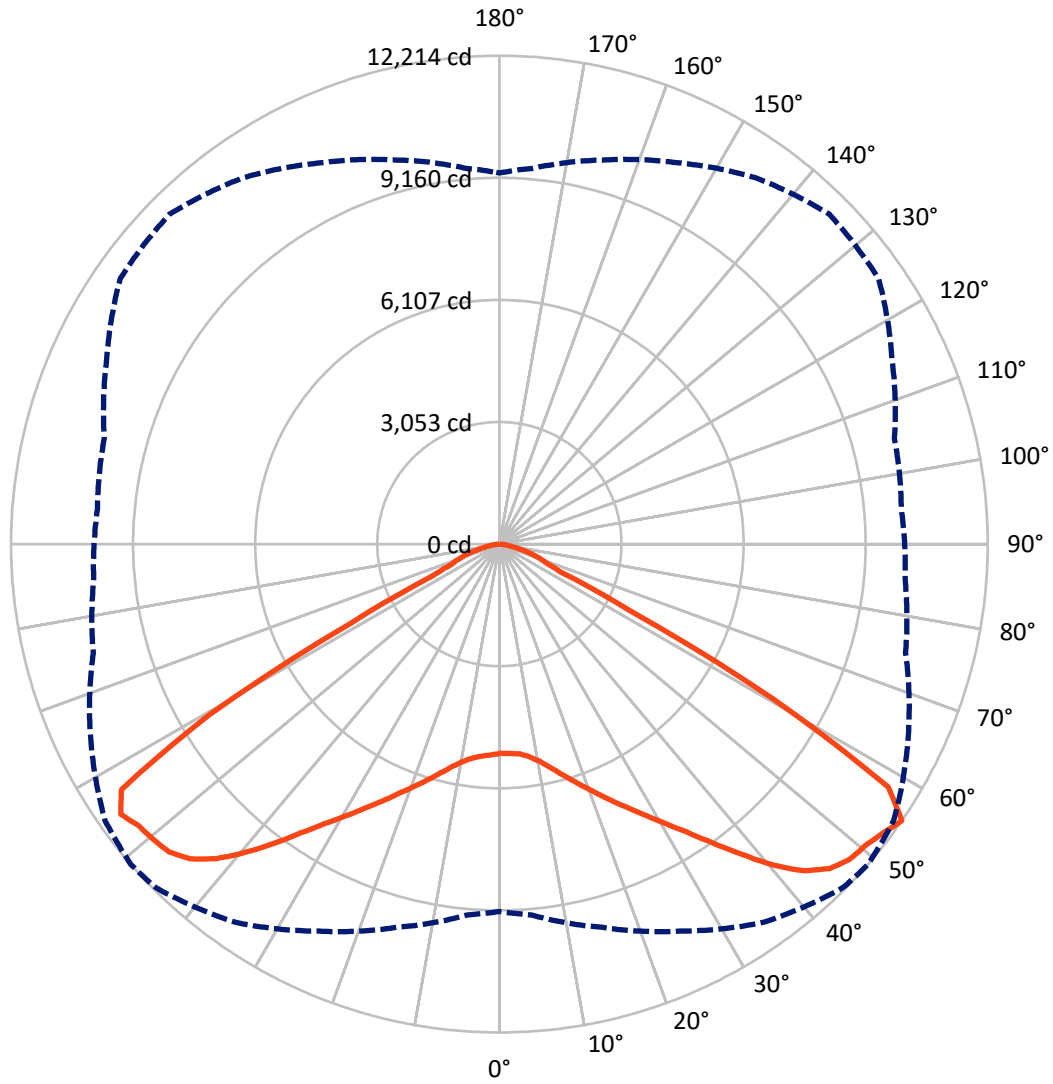
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	15634.1	0.0	15634.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	15943.9	0.0	15943.9
	% Fixture	50.5	0.0	50.5
Total	Lumens	31578.1	0.0	31578.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.3	1.6
10°-20°	1683.2	5.3
20°-30°	3206.0	10.2
30°-40°	5434.8	17.2
40°-50°	8179.0	25.9
50°-60°	8952.7	28.4
60°-70°	2830.9	9.0
70°-80°	679.4	2.2
80°-90°	102.0	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°	31578.1	100.0
0°-180°	31578.1	100.0

Coefficient of Utilization



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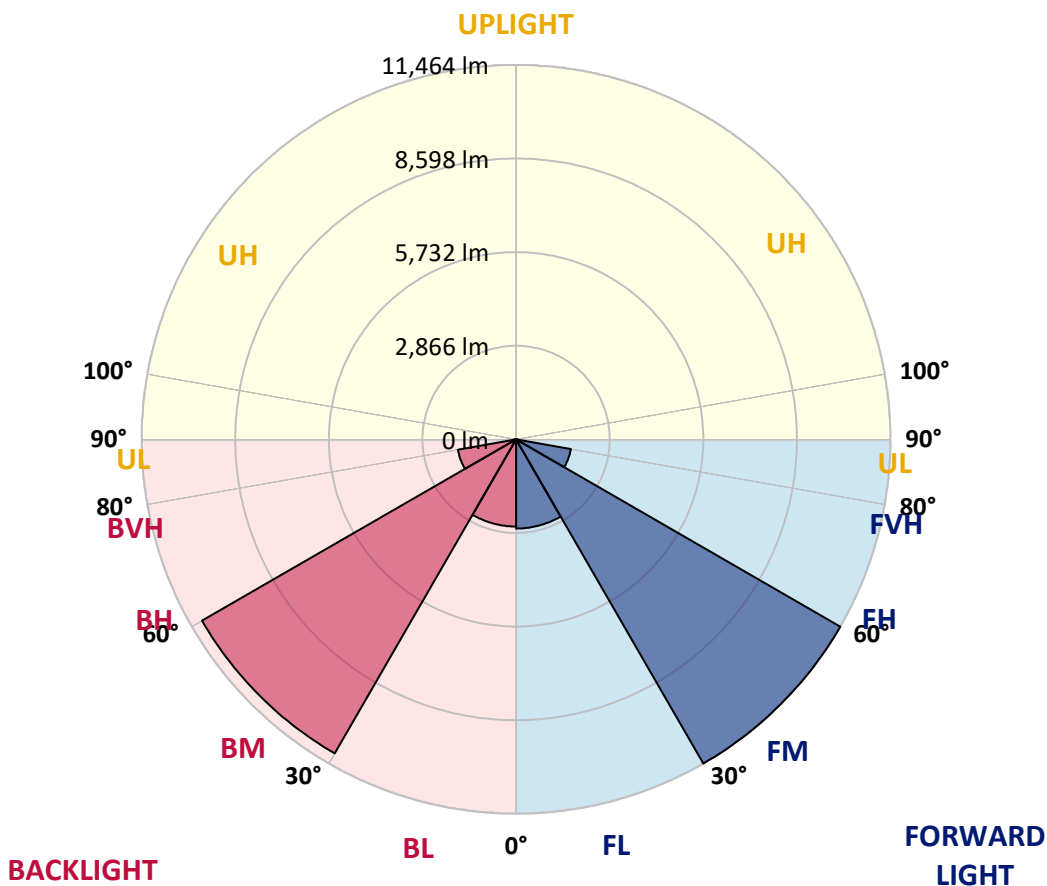
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.2	8.6			
FM (30°-60°)	11463.7	36.3			
FH (60°-80°)	1702.8	5.4			G1/1800
FVH (80°-90°)	47.2	0.1			G1/100
BL (0°-30°)	2669.2	8.5	B4/5000		
BM (30°-60°)	11102.7	35.2	B5		
BH (60°-80°)	1807.5	5.7	B3/2500		G2/5000
BVH (80°-90°)	54.8	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°	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1
2.5°	5154.1	5159.2	5169.5	5187.4	5205.4	5231.1	5241.4	5254.2	5251.6	5267.1	5267.1
5°	5128.4	5136.1	5151.5	5177.2	5208.0	5256.8	5269.6	5300.4	5331.3	5369.8	5382.6
7.5°	5159.2	5169.5	5187.4	5228.5	5274.8	5339.0	5364.6	5416.0	5475.1	5544.4	5572.7
10°	5218.3	5231.1	5261.9	5328.7	5403.2	5500.7	5523.9	5588.1	5683.1	5778.1	5834.6
12.5°	5285.0	5305.6	5362.1	5467.4	5577.8	5706.2	5742.1	5821.8	5924.5	6047.7	6124.8
15°	5362.1	5380.1	5467.4	5616.3	5788.4	5957.9	5998.9	6076.0	6191.6	6312.2	6420.1
17.5°	5523.9	5554.7	5657.4	5829.5	6029.8	6230.1	6276.3	6363.6	6456.1	6551.1	6653.8
20°	5744.7	5770.4	5901.4	6114.5	6350.8	6533.1	6579.3	6656.4	6700.0	6748.8	6836.1
22.5°	5965.6	6001.5	6150.5	6402.1	6679.5	6877.2	6913.2	6985.1	6954.3	6938.9	6995.3
25°	6240.3	6289.1	6435.5	6710.3	6992.8	7236.7	7265.0	7326.6	7275.3	7195.7	7193.1
27.5°	6581.9	6625.6	6777.1	7059.6	7339.5	7593.7	7647.6	7729.8	7616.8	7519.2	7449.9
30°	6987.6	7015.9	7182.8	7483.3	7770.9	8012.3	8081.6	8163.8	8079.1	7917.3	7847.9
32.5°	7460.2	7498.7	7691.3	8007.2	8264.0	8505.4	8574.7	8677.4	8585.0	8402.6	8315.3
35°	8027.7	8066.2	8269.1	8613.2	8875.2	9124.3	9173.0	9257.8	9142.2	8931.7	8862.3
37.5°	8644.0	8692.8	8949.6	9275.8	9550.6	9840.7	9843.3	9869.0	9704.6	9442.7	9365.7
40°	9337.4	9401.6	9658.4	9997.4	10328.7	10564.9	10562.4	10490.5	10213.1	9807.4	9689.2
42.5°	10023.1	10074.4	10333.8	10683.1	11014.3	11237.8	11171.0	10996.4	10595.7	10043.6	9887.0
45°	10518.7	10557.2	10829.4	11222.3	11558.8	11697.4	11576.7	11366.2	10824.3	10192.6	9961.4
47.5°	10752.4	10803.8	11078.5	11468.9	11849.0	11928.6	11784.7	11587.0	10957.8	10331.2	10020.5
50°	10626.6	10693.3	11004.1	11366.2	11795.0	11959.4	11856.7	11658.9	11099.1	10467.3	10125.8
52.5°	10300.4	10364.6	10757.5	11196.7	11682.0	12008.2	12005.6	11843.8	11260.9	10505.9	10130.9
55°	9185.9	9311.7	9922.9	10680.5	11543.4	12152.0	12213.6	12041.6	11286.5	10516.1	10184.9
57.5°	5978.4	6199.3	6779.6	7765.8	9496.6	11052.9	11468.9	11510.0	11101.7	10472.5	10195.1
60°	2496.1	2673.3	3133.0	3787.9	5218.3	7069.8	7876.2	8685.1	9661.0	10015.4	10100.1
62.5°	1551.1	1566.5	1612.7	1761.7	2239.3	3143.3	3662.0	4419.6	5870.5	7105.8	7675.9
65°	1399.6	1407.3	1417.6	1407.3	1430.4	1540.8	1679.5	1944.0	2534.7	3148.4	3877.7
67.5°	1232.7	1242.9	1250.6	1242.9	1250.6	1255.8	1271.2	1294.3	1402.2	1489.5	1556.2
70°	996.4	1011.8	1024.6	1019.5	1050.3	1050.3	1065.7	1083.7	1137.6	1201.8	1248.1
72.5°	760.1	747.3	762.7	767.8	796.1	811.5	834.6	855.2	916.8	955.3	1014.4
75°	493.1	480.2	503.3	516.2	554.7	575.2	595.8	616.3	660.0	685.7	742.2
77.5°	267.1	264.5	287.6	305.6	346.7	372.4	387.8	403.2	439.1	446.8	482.8
80°	154.1	154.1	169.5	182.3	208.0	236.3	251.7	264.5	290.2	297.9	313.3
82.5°	84.7	84.7	92.4	100.2	120.7	136.1	148.9	159.2	182.3	190.0	197.7
85°	41.1	38.5	43.7	48.8	56.5	64.2	71.9	77.0	95.0	100.2	110.4
87.5°	5.1	5.1	5.1	7.7	10.3	15.4	18.0	18.0	28.2	33.4	38.5
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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CATALOG NUMBER: GWS-SA6D-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1	5231.1
2.5°	5282.5	5249.1	5269.6	5277.3	5277.3	5269.6	5236.2	5226.0	5210.6	5187.4	5187.4
5°	5400.6	5374.9	5380.1	5367.2	5336.4	5297.9	5236.2	5205.4	5179.7	5151.5	5148.9
7.5°	5603.5	5570.1	5564.9	5516.2	5434.0	5351.8	5259.4	5202.9	5164.3	5128.4	5125.8
10°	5868.0	5837.2	5798.6	5701.1	5580.4	5459.7	5333.8	5256.8	5200.3	5148.9	5146.4
12.5°	6163.3	6127.4	6055.4	5911.6	5760.1	5642.0	5498.2	5380.1	5295.3	5226.0	5213.1
15°	6484.3	6432.9	6309.7	6140.2	5991.2	5865.4	5711.3	5541.8	5413.4	5303.0	5290.2
17.5°	6730.8	6664.1	6530.5	6371.3	6248.0	6122.2	5921.9	5708.8	5523.9	5385.2	5364.6
20°	6900.3	6846.4	6694.9	6576.8	6504.9	6394.4	6160.7	5919.3	5711.3	5536.7	5526.4
22.5°	7057.0	6992.8	6843.8	6774.5	6774.5	6700.0	6476.6	6191.6	5947.6	5744.7	5719.0
25°	7234.2	7164.8	7051.8	7044.1	7080.1	7046.7	6777.1	6471.5	6186.4	5957.9	5916.8
27.5°	7480.7	7403.7	7336.9	7383.1	7434.5	7398.5	7098.1	6743.7	6443.2	6212.1	6176.1
30°	7873.6	7778.6	7717.0	7773.5	7873.6	7768.3	7442.2	7067.3	6764.2	6510.0	6492.0
32.5°	8330.7	8222.9	8158.7	8248.6	8338.4	8174.1	7850.5	7491.0	7172.5	6905.5	6874.7
35°	8880.3	8744.2	8649.2	8769.9	8862.3	8700.5	8379.5	8038.0	7683.6	7406.2	7365.1
37.5°	9368.2	9203.9	9139.7	9309.2	9432.4	9327.1	8977.9	8656.9	8269.1	7966.1	7948.1
40°	9722.6	9560.8	9514.6	9794.5	10010.2	9984.6	9671.3	9304.0	8939.4	8590.1	8556.7
42.5°	9876.7	9763.7	9774.0	10151.5	10485.3	10649.7	10369.8	9976.8	9625.0	9262.9	9239.8
45°	9910.1	9840.7	9922.9	10395.4	10834.6	11171.0	10932.2	10603.4	10205.4	9856.1	9845.9
47.5°	9946.0	9907.5	10033.3	10534.1	11055.4	11445.8	11312.2	10973.2	10570.1	10228.5	10202.8
50°	10030.8	10015.4	10156.6	10631.7	11160.7	11520.2	11368.7	11032.3	10618.9	10282.4	10220.8
52.5°	10056.5	10030.8	10233.7	10783.2	11335.3	11517.7	11191.5	10752.4	10336.4	9961.4	9897.2
55°	10136.1	10089.8	10228.5	10839.7	11576.7	11666.6	11181.3	10523.8	9943.5	9432.4	9280.9
57.5°	10156.6	10105.2	10195.1	10747.3	11314.8	11235.2	9827.9	8492.5	7398.5	6831.0	6895.2
60°	10046.2	10061.6	9907.5	9845.9	9075.5	8012.3	6016.9	4809.9	3777.6	3341.0	3436.0
62.5°	7647.6	7711.8	7185.4	6248.0	4804.8	3808.4	2519.3	1956.8	1656.4	1579.3	1592.2
65°	3859.8	3947.1	3400.1	2812.0	2090.4	1689.8	1461.2	1415.0	1399.6	1381.6	1381.6
67.5°	1528.0	1553.7	1533.1	1435.5	1335.4	1299.4	1289.2	1284.0	1266.0	1255.8	1258.3
70°	1227.5	1248.1	1217.3	1155.6	1114.5	1112.0	1106.8	1096.6	1083.7	1083.7	1091.4
72.5°	1001.5	1022.1	978.4	939.9	909.1	886.0	873.1	865.4	847.5	847.5	855.2
75°	737.0	749.9	713.9	708.8	675.4	652.3	631.7	621.5	598.4	588.1	595.8
77.5°	490.5	487.9	470.0	470.0	457.1	428.9	405.8	382.6	351.8	331.3	336.4
80°	318.4	318.4	310.7	310.7	297.9	274.8	246.5	223.4	205.4	190.0	190.0
82.5°	202.9	200.3	197.7	195.2	190.0	166.9	146.4	131.0	118.1	107.9	110.4
85°	113.0	113.0	107.9	107.9	97.6	84.7	74.5	64.2	56.5	53.9	53.9
87.5°	38.5	38.5	36.0	36.0	30.8	23.1	18.0	15.4	12.8	10.3	12.8
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)