

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: P637772

Luminaire Tested: GWS-SA4D-740-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

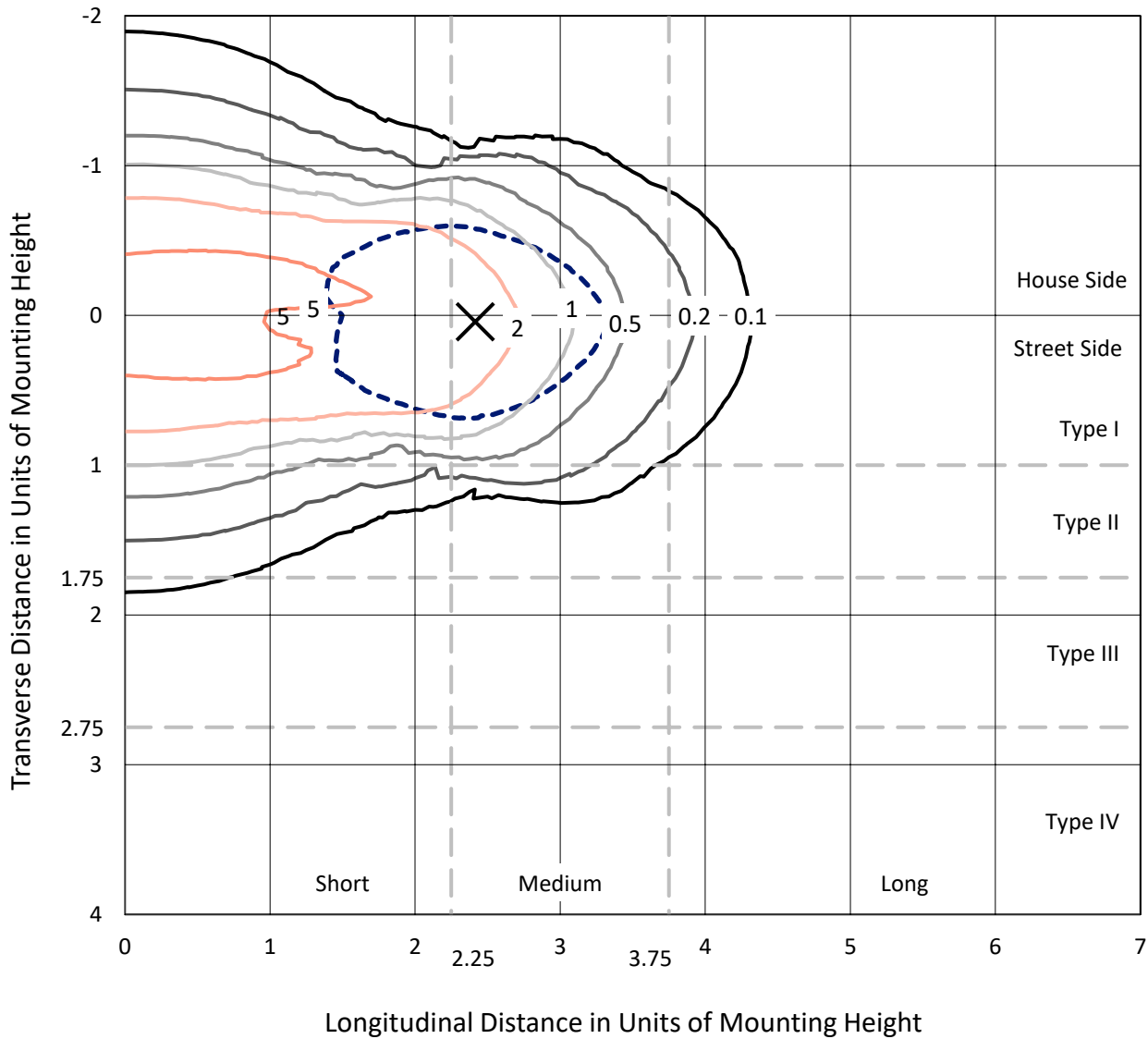
Lumens per Lamp: N/A  
Luminaire Lumens: 24444.2 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

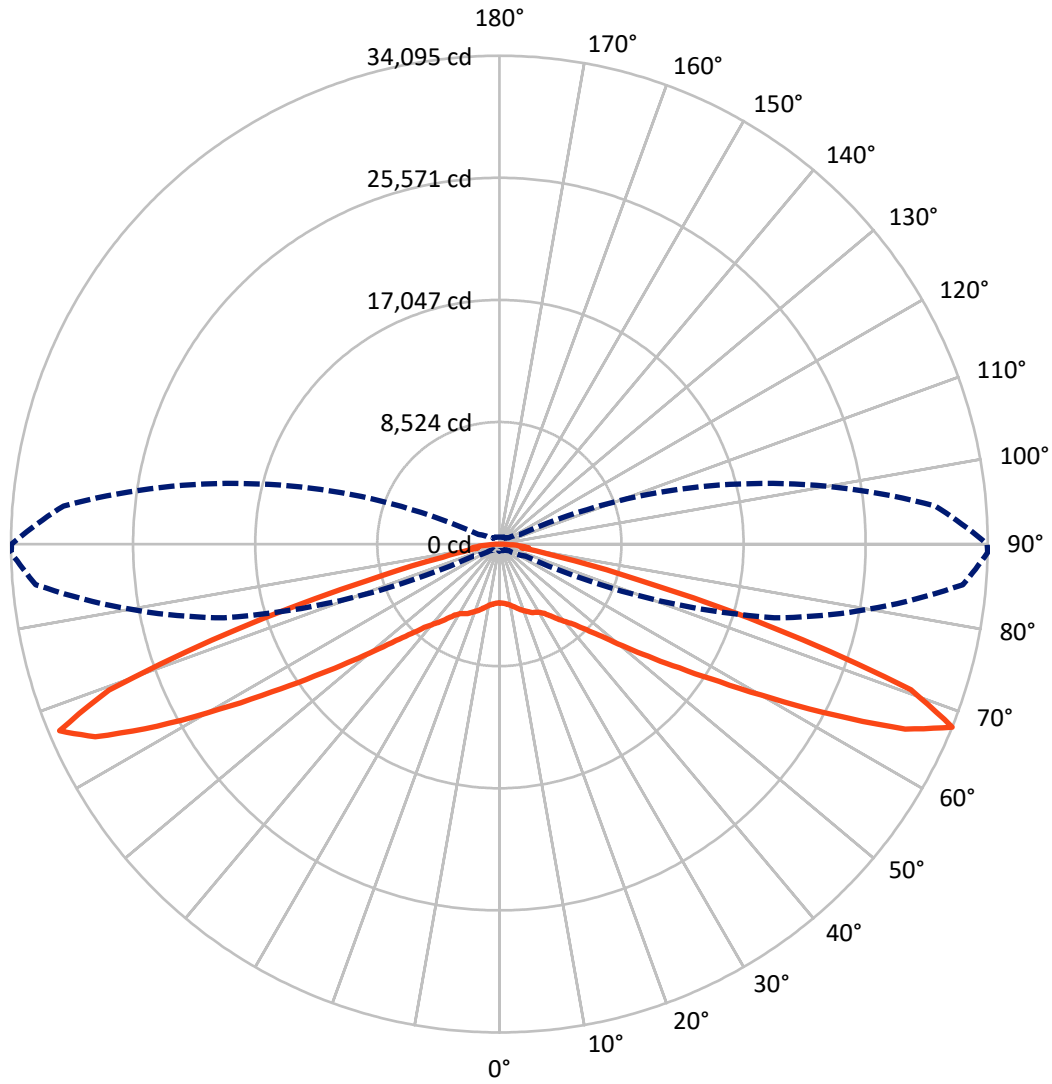
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12115.0	0.0	12115.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	12329.2	0.0	12329.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	24444.2	0.0	24444.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.5	1.7
10°-20°	1340.0	5.5
20°-30°	2265.3	9.3
30°-40°	3108.8	12.7
40°-50°	3964.4	16.2
50°-60°	4973.9	20.3
60°-70°	5999.0	24.5
70°-80°	2170.2	8.9
80°-90°	211.1	0.9
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°	24444.2	100.0
0°-180°	24444.2	100.0

**Coefficient of Utilization**



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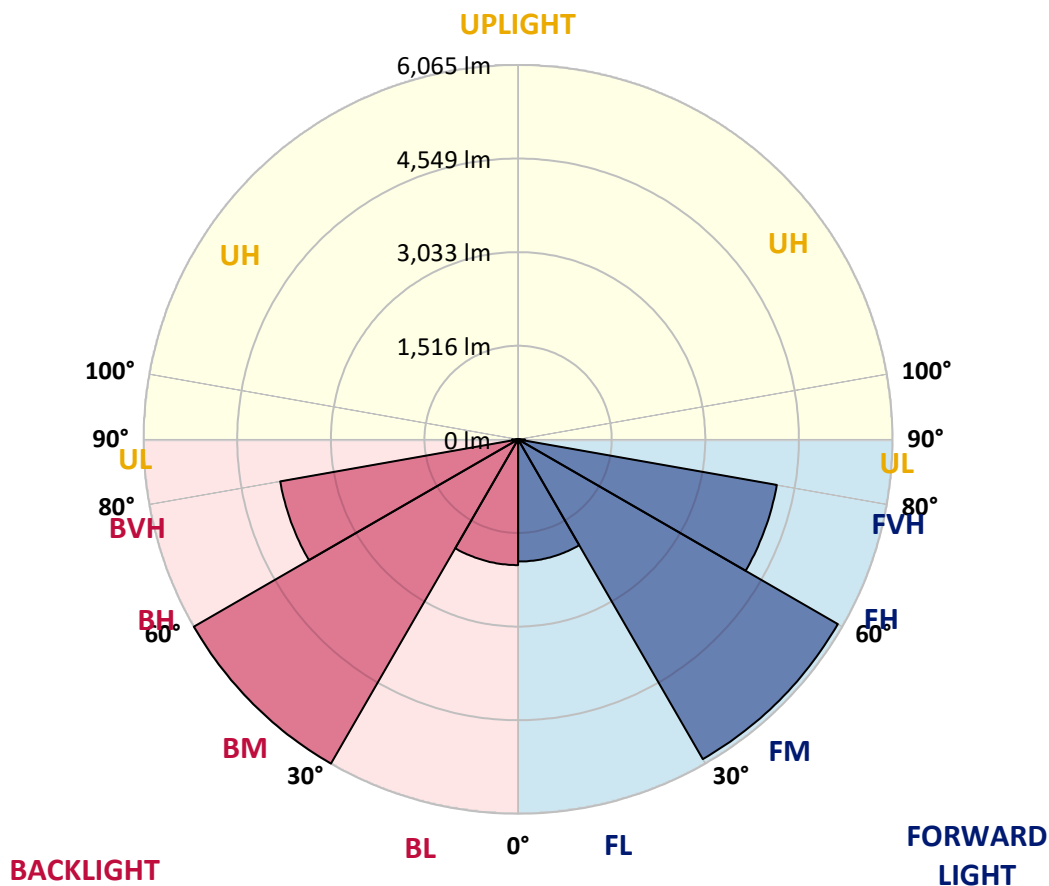
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.8	8.1			
FM (30°-60°)	5982.0	24.5			
FH (60°-80°)	4256.1	17.4			G2/5000
FVH (80°-90°)	111.4	0.5			G2/225
BL (0°-30°)	2037.0	8.3	B3/2500		
BM (30°-60°)	6065.1	24.8	B4/8500		
BH (60°-80°)	3913.1	16.0	B4/5000		G4/5000
BVH (80°-90°)	99.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8
2.5°	4115.1	4111.5	4102.8	4129.1	4123.8	4125.6	4136.1	4129.1	4116.8	4095.7	4125.6
5°	4230.9	4229.2	4209.9	4225.7	4208.1	4195.8	4194.1	4176.5	4162.5	4139.6	4171.2
7.5°	4343.3	4341.5	4325.7	4353.8	4339.8	4325.7	4309.9	4274.8	4241.5	4208.1	4243.2
10°	4429.3	4427.5	4424.0	4464.4	4467.9	4473.2	4466.2	4406.5	4348.5	4308.2	4343.3
12.5°	4478.5	4483.7	4492.5	4566.2	4603.1	4638.2	4647.0	4597.8	4501.3	4443.3	4485.5
15°	4445.1	4455.6	4499.5	4632.9	4734.8	4813.8	4847.1	4806.7	4682.1	4585.5	4632.9
17.5°	4285.3	4294.1	4380.1	4583.8	4808.5	4991.1	5045.5	5020.9	4882.2	4764.6	4810.3
20°	4064.1	4083.5	4176.5	4460.9	4796.2	5114.0	5259.7	5250.9	5099.9	4919.1	4973.5
22.5°	3864.0	3886.8	3985.1	4299.4	4713.7	5145.6	5475.6	5498.4	5298.3	5073.6	5117.5
25°	3639.3	3660.4	3786.8	4108.0	4571.5	5121.0	5660.0	5763.5	5523.0	5250.9	5291.3
27.5°	3409.3	3425.1	3549.8	3892.1	4385.4	5075.3	5805.7	6055.0	5744.2	5373.8	5401.9
30°	3207.4	3228.5	3342.6	3676.2	4181.8	4984.1	5925.0	6365.7	5998.8	5512.5	5535.3
32.5°	3012.6	3030.1	3154.8	3463.7	3965.8	4843.6	6032.1	6730.8	6376.2	5770.6	5770.6
35°	2766.8	2798.4	2938.8	3260.1	3762.2	4657.5	6109.4	7155.7	6892.4	6151.5	6153.3
37.5°	2540.3	2557.9	2705.3	3030.1	3548.0	4446.9	6116.4	7596.3	7545.4	6636.0	6639.6
40°	2282.2	2305.1	2463.1	2784.3	3302.2	4225.7	6049.7	8007.1	8230.1	7134.6	7115.3
42.5°	2020.7	2054.0	2205.0	2519.2	3037.1	3955.3	5872.4	8398.6	9099.1	7712.2	7664.8
45°	1767.9	1788.9	1939.9	2236.6	2733.4	3632.3	5588.0	8774.3	10131.4	8590.0	8521.5
47.5°	1483.5	1492.2	1648.5	1932.9	2419.2	3272.4	5180.7	9109.6	11265.5	9752.2	9634.6
50°	1230.7	1242.9	1365.8	1609.9	2034.7	2845.8	4673.3	9306.3	12710.3	11337.5	11133.8
52.5°	995.4	1007.7	1106.0	1300.9	1681.8	2359.5	4044.8	9260.6	14176.2	13305.4	13008.8
55°	804.1	812.8	879.5	1032.3	1323.7	1876.7	3302.2	8851.6	15803.6	15875.6	15236.6
57.5°	679.4	682.9	728.6	821.6	1034.0	1446.6	2549.1	7886.0	17510.0	19155.0	18105.2
60°	607.4	609.2	630.2	688.2	816.3	1104.3	1867.9	6348.1	19277.9	23257.8	21818.2
62.5°	561.8	561.8	579.3	612.7	677.6	849.7	1372.9	4559.2	20547.2	27722.2	26291.4
65°	517.9	517.9	530.2	558.3	593.4	693.4	1030.5	2940.6	21170.4	31454.5	31136.8
67.5°	461.7	463.5	472.2	502.1	533.7	579.3	781.2	1989.1	19876.5	32486.8	34094.9
70°	409.0	410.8	423.1	442.4	468.7	500.3	610.9	1371.1	14467.6	27056.8	30485.4
72.5°	351.1	358.1	366.9	388.0	403.8	426.6	498.6	888.3	8417.9	17404.7	20152.2
75°	287.9	296.7	307.2	328.3	338.8	347.6	410.8	633.8	4050.1	8820.0	10043.6
77.5°	223.0	231.7	244.0	263.3	270.4	280.9	314.2	458.2	1939.9	3909.6	4215.1
80°	149.2	152.7	163.3	186.1	198.4	205.4	231.7	312.5	842.7	1569.5	1555.4
82.5°	91.3	93.0	96.6	110.6	115.9	122.9	151.0	191.4	402.0	1783.7	2045.2
85°	33.4	31.6	29.8	38.6	45.6	52.7	70.2	96.6	175.6	1225.4	1371.1
87.5°	0.0	0.0	0.0	1.8	3.5	3.5	7.0	14.0	42.1	458.2	314.2
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°	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8	4102.8
2.5°	4116.8	4097.5	4122.1	4139.6	4178.3	4192.3	4195.8	4183.5	4183.5	4162.5	4166.0
5°	4164.2	4151.9	4192.3	4222.1	4278.3	4299.4	4313.4	4304.7	4309.9	4295.9	4299.4
7.5°	4236.2	4225.7	4295.9	4353.8	4411.7	4436.3	4448.6	4441.6	4443.3	4425.8	4431.1
10°	4336.3	4339.8	4424.0	4499.5	4576.8	4601.3	4606.6	4585.5	4568.0	4536.4	4538.1
12.5°	4473.2	4490.7	4610.1	4694.4	4773.4	4808.5	4769.9	4692.6	4620.7	4566.2	4559.2
15°	4622.4	4654.0	4826.1	4933.1	5019.2	5001.6	4887.5	4713.7	4571.5	4490.7	4474.9
17.5°	4801.5	4848.9	5064.8	5193.0	5266.7	5154.3	4915.6	4655.8	4457.4	4348.5	4327.5
20°	4970.0	5045.5	5317.6	5484.4	5493.2	5240.4	4903.3	4538.1	4288.9	4155.4	4127.3
22.5°	5124.5	5221.1	5582.7	5795.1	5681.0	5279.0	4827.8	4371.4	4085.2	3929.0	3904.4
25°	5293.0	5430.0	5891.7	6090.1	5868.9	5263.2	4669.8	4164.2	3839.4	3679.7	3662.1
27.5°	5408.9	5581.0	6202.4	6392.0	6023.4	5173.7	4466.2	3937.7	3614.7	3463.7	3439.2
30°	5542.3	5761.8	6544.8	6720.3	6118.2	5042.0	4248.5	3727.1	3405.8	3242.5	3225.0
32.5°	5784.6	6060.2	6969.6	7067.9	6148.0	4878.7	4039.6	3523.4	3188.1	3024.8	3000.3
35°	6174.3	6497.4	7566.5	7455.9	6125.2	4699.7	3841.2	3284.7	2965.2	2812.4	2787.8
37.5°	6665.9	7067.9	8231.9	7805.3	6062.0	4503.0	3605.9	3084.5	2765.0	2610.5	2596.5
40°	7124.1	7619.2	8978.0	8107.2	5933.8	4260.8	3379.5	2875.6	2549.1	2385.8	2354.2
42.5°	7698.2	8356.5	9841.7	8368.8	5723.2	3971.1	3124.9	2617.6	2278.7	2131.3	2092.6
45°	8570.7	9388.8	10845.9	8619.8	5408.9	3614.7	2805.4	2303.3	1982.0	1831.1	1801.2
47.5°	9659.1	10679.1	11934.4	8769.1	4931.4	3239.0	2443.8	1971.5	1650.2	1479.9	1465.9
50°	11188.2	12555.8	13101.8	8742.7	4397.7	2793.1	2036.5	1576.5	1307.9	1185.0	1165.7
52.5°	13050.9	14911.8	14364.1	8426.7	3830.6	2285.7	1587.0	1237.7	1037.5	949.8	934.0
55°	15387.6	17733.0	15693.0	7749.1	3114.4	1750.3	1246.5	976.1	839.2	786.5	779.5
57.5°	18280.7	21386.3	16972.8	6608.0	2341.9	1336.0	960.3	805.8	740.8	709.2	707.5
60°	22099.1	25264.4	18084.1	5135.0	1676.6	1021.7	793.5	719.8	668.9	647.8	646.0
62.5°	26639.0	28786.0	18775.8	3497.1	1260.5	814.6	698.7	653.1	623.2	610.9	609.2
65°	31305.3	31012.1	18445.8	2291.0	956.8	691.7	626.7	602.2	575.8	563.5	563.5
67.5°	34061.5	30541.6	15912.5	1590.5	758.4	607.4	565.3	542.5	498.6	488.0	488.0
70°	30169.4	24748.2	10429.8	1163.9	614.4	531.9	491.6	460.0	442.4	431.9	430.1
72.5°	19953.8	16103.8	5545.8	807.6	512.6	452.9	416.1	403.8	382.7	372.2	370.4
75°	9931.2	8458.3	2842.3	582.8	426.6	363.4	347.6	342.3	324.8	310.7	307.2
77.5°	4139.6	3765.7	1325.5	423.1	324.8	293.2	279.1	279.1	259.8	244.0	237.0
80°	1560.7	1390.4	626.7	289.7	240.5	217.7	208.9	201.9	186.1	166.8	156.2
82.5°	2087.4	1364.1	307.2	180.8	158.0	140.4	128.2	122.9	114.1	105.3	98.3
85°	1351.8	969.1	138.7	93.0	79.0	59.7	52.7	49.2	43.9	38.6	35.1
87.5°	275.6	324.8	42.1	17.6	10.5	5.3	5.3	1.8	0.0	0.0	0.0
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)