

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: P636272

Luminaire Tested: GWS-SA3F-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

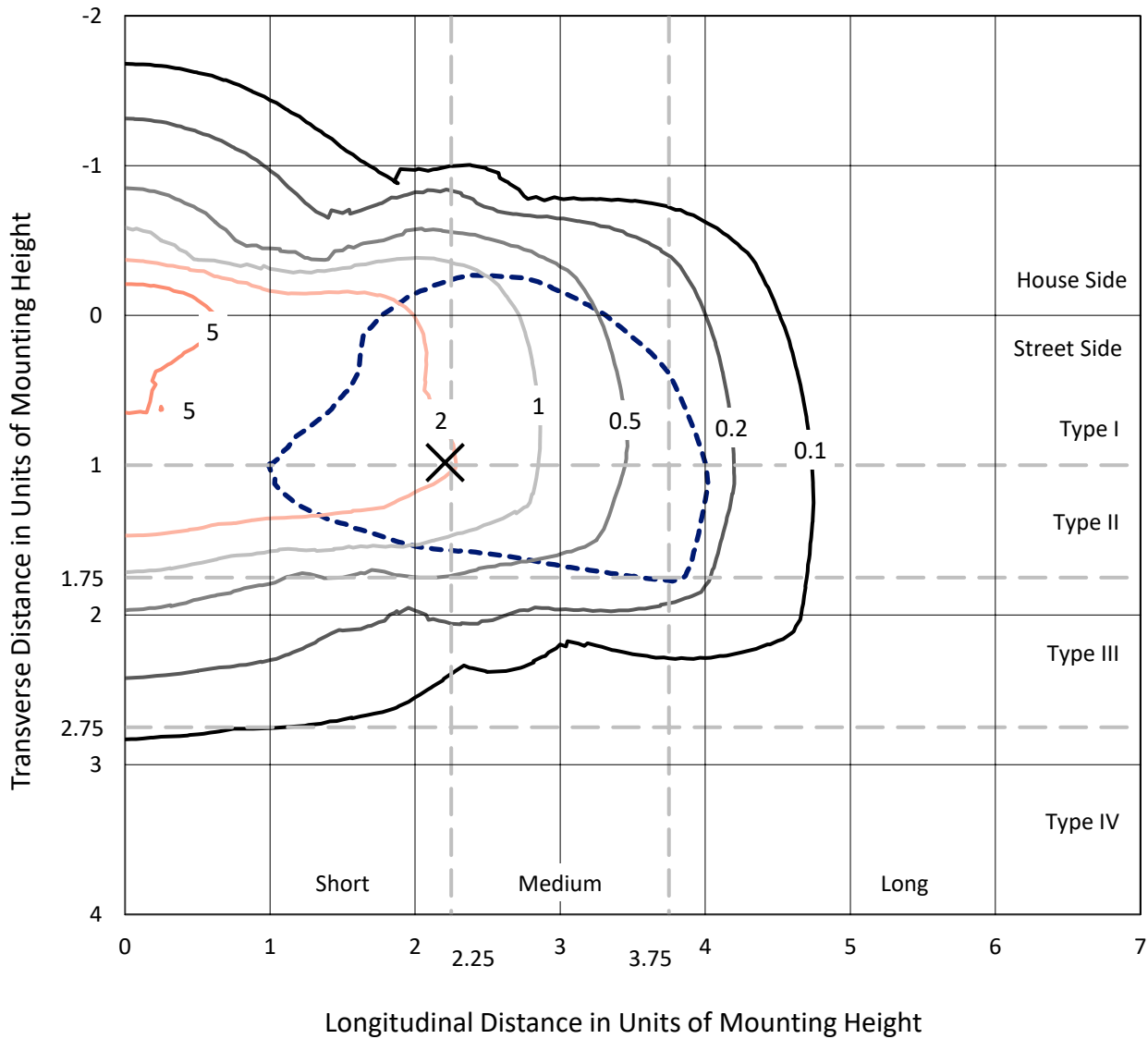
Lumens per Lamp: N/A  
Luminaire Lumens: 24027.3 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

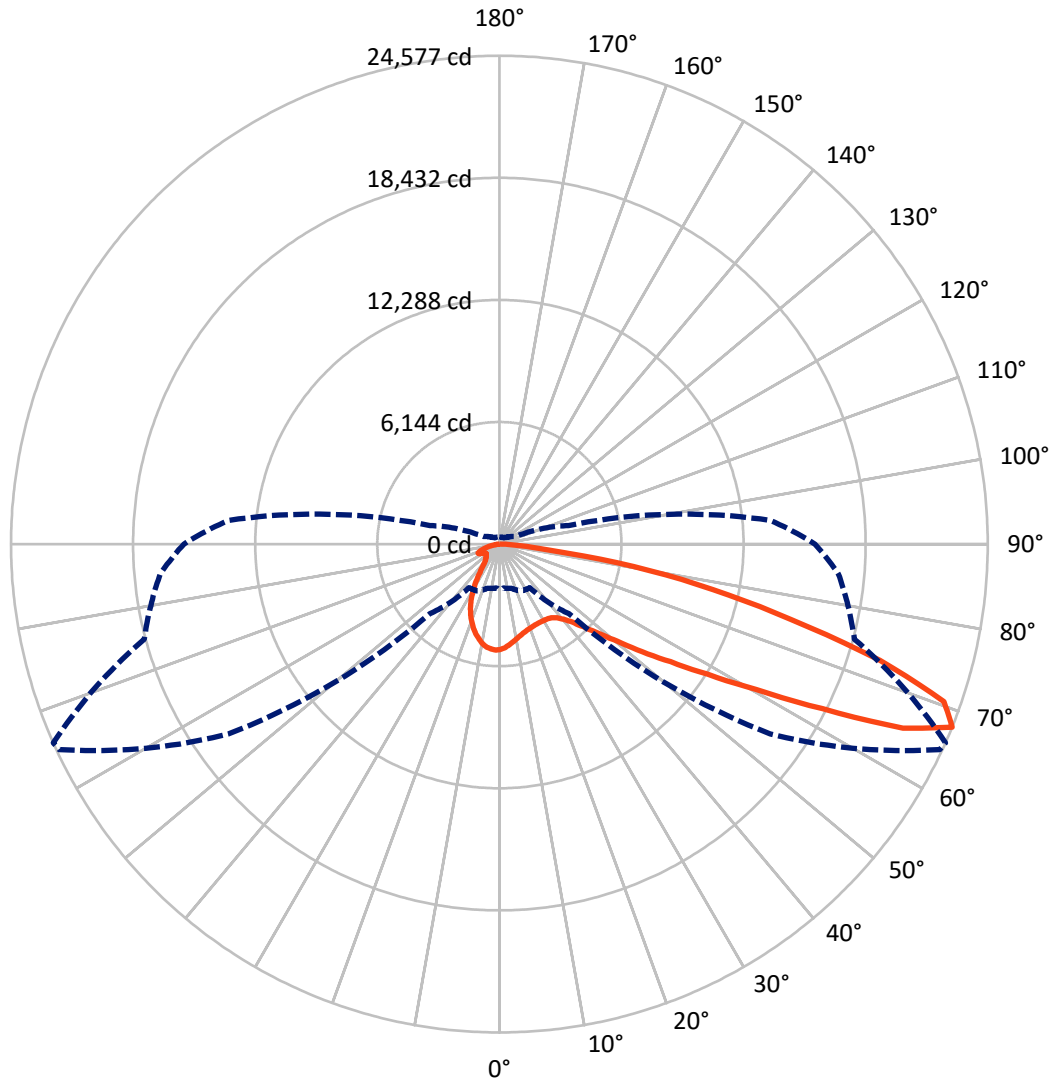
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4875.7	0.0	4875.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	19151.6	0.0	19151.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	24027.3	0.0	24027.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.0	1.9
10°-20°	1145.2	4.8
20°-30°	1574.1	6.6
30°-40°	2152.0	9.0
40°-50°	3260.8	13.6
50°-60°	5069.1	21.1
60°-70°	6171.5	25.7
70°-80°	3759.4	15.6
80°-90°	429.4	1.8
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°	24027.3	100.0
0°-180°	24027.3	100.0

**Coefficient of Utilization**



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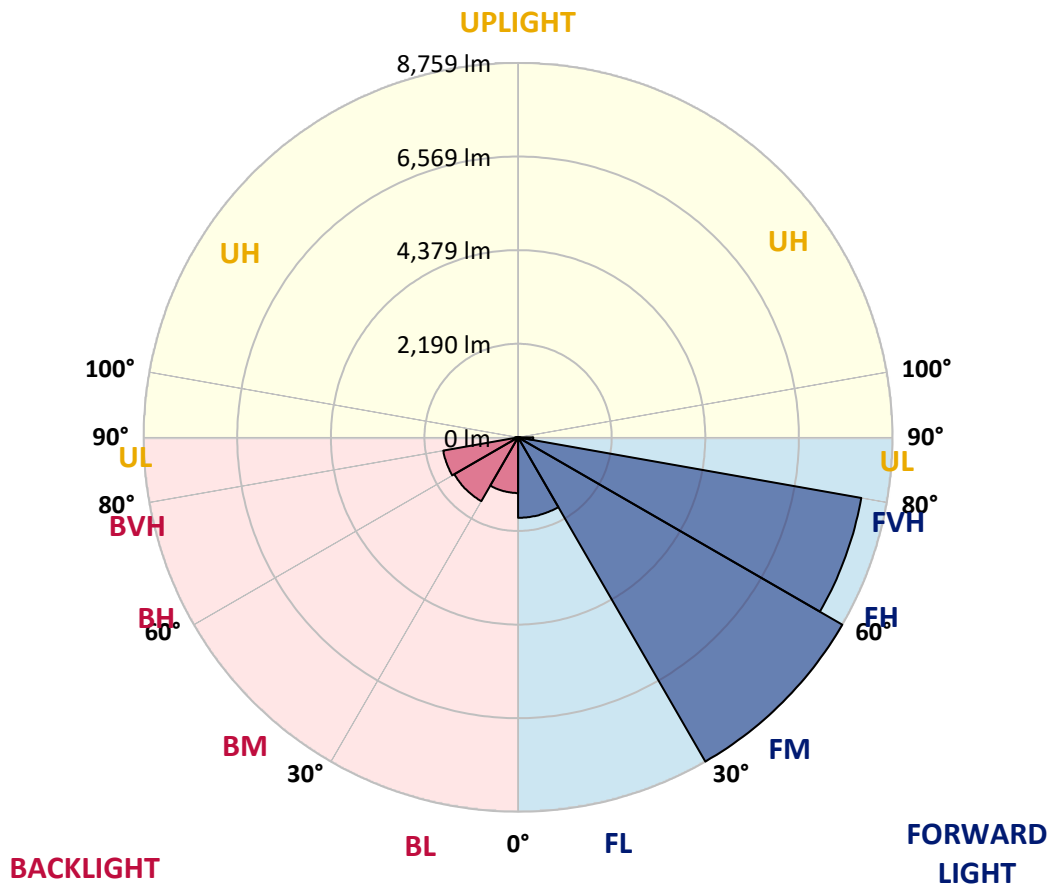
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.6	7.8			
FM (30°-60°)	8758.9	36.5			
FH (60°-80°)	8153.1	33.9			G4/12000
FVH (80°-90°)	357.0	1.5			G3/500
BL (0°-30°)	1302.5	5.4	B3/2500		
BM (30°-60°)	1723.0	7.2	B2/2500		
BH (60°-80°)	1777.8	7.4	B3/2500		G3/2500
BVH (80°-90°)	72.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4
2.5°	4972.8	4990.3	4979.8	5046.4	5049.9	5134.1	5181.4	5221.7	5225.2	5277.8	5312.9
5°	4632.8	4643.3	4643.3	4706.4	4748.4	4860.6	4969.3	5085.0	5093.8	5220.0	5316.4
7.5°	4357.6	4368.1	4361.1	4445.2	4499.5	4624.0	4762.5	4939.5	4957.0	5160.4	5328.6
10°	4142.0	4138.5	4156.0	4233.1	4303.2	4452.2	4606.5	4808.0	4834.3	5092.0	5342.7
12.5°	3994.7	3998.2	4008.7	4089.4	4164.7	4312.0	4471.5	4690.6	4718.6	5013.1	5335.6
15°	3924.6	3917.6	3926.4	4000.0	4071.8	4201.6	4366.3	4592.4	4620.5	4943.0	5337.4
17.5°	3908.8	3903.6	3901.8	3954.4	4008.7	4129.7	4287.4	4517.1	4546.9	4897.4	5347.9
20°	3957.9	3950.9	3931.6	3954.4	3977.2	4078.9	4231.4	4462.7	4496.0	4867.6	5368.9
22.5°	4092.9	4080.6	4050.8	4022.8	3993.0	4054.3	4196.3	4422.4	4455.7	4848.4	5390.0
25°	4298.0	4287.4	4255.9	4192.8	4084.1	4073.6	4189.3	4404.9	4438.2	4834.3	5398.7
27.5°	4580.2	4564.4	4532.8	4441.7	4264.7	4145.5	4215.6	4403.1	4434.7	4818.6	5390.0
30°	4915.0	4904.4	4886.9	4776.5	4539.9	4298.0	4275.2	4417.2	4441.7	4809.8	5372.5
32.5°	5255.0	5244.5	5258.5	5205.9	4915.0	4550.4	4404.9	4455.7	4473.2	4808.0	5356.7
35°	5554.7	5567.0	5668.7	5677.4	5391.7	4892.2	4610.0	4545.1	4548.6	4843.1	5363.7
37.5°	5868.5	5915.8	6049.0	6163.0	5924.6	5344.4	4915.0	4713.4	4709.9	4932.5	5407.5
40°	6283.9	6305.0	6475.0	6688.8	6539.8	5964.9	5347.9	4988.6	4964.0	5114.8	5525.0
42.5°	6688.8	6739.7	7011.4	7256.8	7207.7	6664.3	5893.0	5400.5	5356.7	5437.3	5766.8
45°	7204.2	7253.3	7558.2	7873.8	7963.2	7454.8	6590.7	5985.9	5942.1	5922.8	6210.3
47.5°	7719.5	7770.3	8043.8	8499.5	8813.3	8443.4	7498.6	6758.9	6687.1	6611.7	6879.9
50°	8066.6	8126.2	8387.3	8934.2	9670.4	9677.4	8574.9	7772.1	7680.9	7561.8	7822.9
52.5°	8054.3	8092.9	8341.8	8972.8	10287.4	11095.5	10015.7	9062.2	8988.6	8729.1	8957.0
55°	7421.5	7479.4	7730.0	8518.8	10354.0	12439.9	12133.2	10583.6	10452.2	9987.7	10238.3
57.5°	6150.7	6199.8	6452.2	7425.0	9763.3	13128.8	14822.0	12522.3	12341.7	11358.4	11647.6
60°	4643.3	4583.7	4702.9	5554.7	8350.5	13146.3	17195.4	15151.5	14850.1	12823.8	13065.7
62.5°	3484.6	3425.0	3451.3	3691.5	5661.7	12084.1	18548.5	18748.4	18250.6	14478.5	14431.1
65°	2753.7	2720.4	2795.8	2960.5	3300.6	9202.4	18559.1	22637.9	22324.2	16396.1	15831.6
67.5°	2243.6	2222.6	2299.7	2604.7	2676.6	4944.8	16641.5	24453.9	24576.6	18496.0	17130.5
70°	1807.2	1775.6	1896.6	2298.0	2489.0	2992.1	11921.1	23528.4	23726.4	19747.5	16764.2
72.5°	1248.0	1249.8	1311.1	1861.5	2403.1	2583.7	6743.2	19591.5	20020.9	18613.4	14737.9
75°	841.4	848.4	865.9	1228.7	2213.8	2506.6	3593.3	14832.5	15135.8	15384.7	12182.2
77.5°	508.3	511.8	552.1	743.2	1526.7	2340.0	2434.7	10751.9	10990.3	10141.9	7551.2
80°	294.5	306.7	343.6	497.8	1030.7	1758.1	1884.3	6592.4	6862.4	4508.3	2399.6
82.5°	129.7	138.5	187.6	289.2	601.2	1495.2	1470.6	2604.7	2566.2	1256.8	832.6
85°	22.8	28.0	40.3	91.1	220.9	788.8	1141.1	1149.9	1081.5	476.8	345.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.3	171.8	308.5	306.7	135.0	119.2
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°	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4	5309.4
2.5°	5335.6	5288.3	5330.4	5335.6	5326.9	5319.9	5267.3	5221.7	5216.5	5167.4	5167.4
5°	5354.9	5311.1	5332.1	5291.8	5228.7	5163.9	5051.7	4974.6	4939.5	4876.4	4876.4
7.5°	5381.2	5335.6	5311.1	5211.2	5064.0	4922.0	4741.4	4590.7	4529.3	4439.9	4436.4
10°	5405.8	5347.9	5263.8	5069.2	4834.3	4608.2	4345.3	4131.4	3986.0	3879.0	3879.0
12.5°	5404.0	5328.6	5162.1	4874.6	4550.4	4222.6	3872.0	3549.5	3356.7	3190.2	3179.7
15°	5400.5	5297.1	5032.4	4648.5	4219.1	3765.1	3288.3	2867.6	2581.9	2418.9	2404.9
17.5°	5397.0	5256.8	4886.9	4390.9	3815.9	3197.2	2567.9	2112.2	1873.8	1773.9	1777.4
20°	5397.0	5211.2	4730.9	4094.6	3351.4	2517.1	1884.3	1553.0	1493.4	1498.7	1503.9
22.5°	5381.2	5155.1	4557.4	3772.1	2834.3	1851.0	1390.0	1277.8	1309.4	1358.5	1365.5
25°	5344.4	5062.2	4355.8	3414.5	2219.1	1347.9	1134.1	1113.1	1170.9	1232.2	1249.8
27.5°	5286.6	4955.3	4129.7	2995.6	1633.6	1083.3	997.4	995.6	1041.2	1086.8	1102.5
30°	5225.2	4836.1	3891.3	2529.3	1183.2	943.0	909.7	909.7	932.5	960.6	957.1
32.5°	5153.3	4715.1	3635.4	2043.8	964.1	864.1	853.6	848.4	851.9	862.4	862.4
35°	5092.0	4608.2	3372.5	1530.2	864.1	820.3	809.8	797.5	792.3	785.3	788.8
37.5°	5069.2	4524.1	3100.8	1153.4	815.1	788.8	771.2	753.7	741.5	737.9	736.2
40°	5106.0	4489.0	2829.1	950.0	780.0	755.5	736.2	713.4	702.9	702.9	702.9
42.5°	5249.8	4515.3	2552.1	858.9	755.5	727.4	699.4	678.3	674.8	678.3	680.1
45°	5512.7	4617.0	2264.7	813.3	734.4	699.4	666.1	650.3	650.3	653.8	653.8
47.5°	5982.4	4883.4	1980.7	785.3	713.4	676.6	641.5	625.8	624.0	627.5	627.5
50°	6795.8	5363.7	1724.8	766.0	697.6	659.1	624.0	603.0	597.7	596.0	596.0
52.5°	7821.2	6196.3	1561.8	752.0	678.3	639.8	604.7	576.7	566.2	560.9	560.9
55°	9060.4	7305.8	1561.8	741.5	653.8	617.0	576.7	548.6	532.9	525.9	525.9
57.5°	10464.5	8597.7	1831.7	732.7	634.5	590.7	546.9	518.8	501.3	490.8	490.8
60°	11893.0	9963.1	2499.5	720.4	617.0	557.4	513.6	487.3	464.5	452.2	450.5
62.5°	13374.2	11467.1	3379.5	727.4	604.7	525.9	478.5	448.7	429.4	417.2	415.4
65°	14730.9	12899.1	4149.0	781.8	606.5	497.8	438.2	411.9	396.1	380.4	378.6
67.5°	15882.5	13689.7	3609.1	892.2	643.3	464.5	397.9	371.6	357.6	347.1	345.3
70°	15076.2	12483.7	2047.3	960.6	694.1	429.4	352.3	334.8	320.8	313.8	312.0
72.5°	12892.1	10569.6	1369.0	848.4	632.8	383.9	310.3	296.2	285.7	276.9	275.2
75°	10443.4	8382.1	1046.4	695.9	492.5	312.0	266.4	255.9	245.4	236.6	234.9
77.5°	6178.8	4843.1	771.2	550.4	347.1	243.6	220.9	212.1	201.6	194.6	192.8
80°	1971.9	1682.7	489.0	378.6	229.6	187.6	170.0	163.0	152.5	143.7	142.0
82.5°	752.0	650.3	259.4	192.8	152.5	128.0	113.9	106.9	99.9	91.1	89.4
85°	333.0	312.0	143.7	103.4	82.4	63.1	56.1	52.6	43.8	36.8	35.1
87.5°	117.4	117.4	61.3	29.8	17.5	8.8	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)