

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: P638322

Luminaire Tested: GWS-SA4E-750-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638322  
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-SA4E-750-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

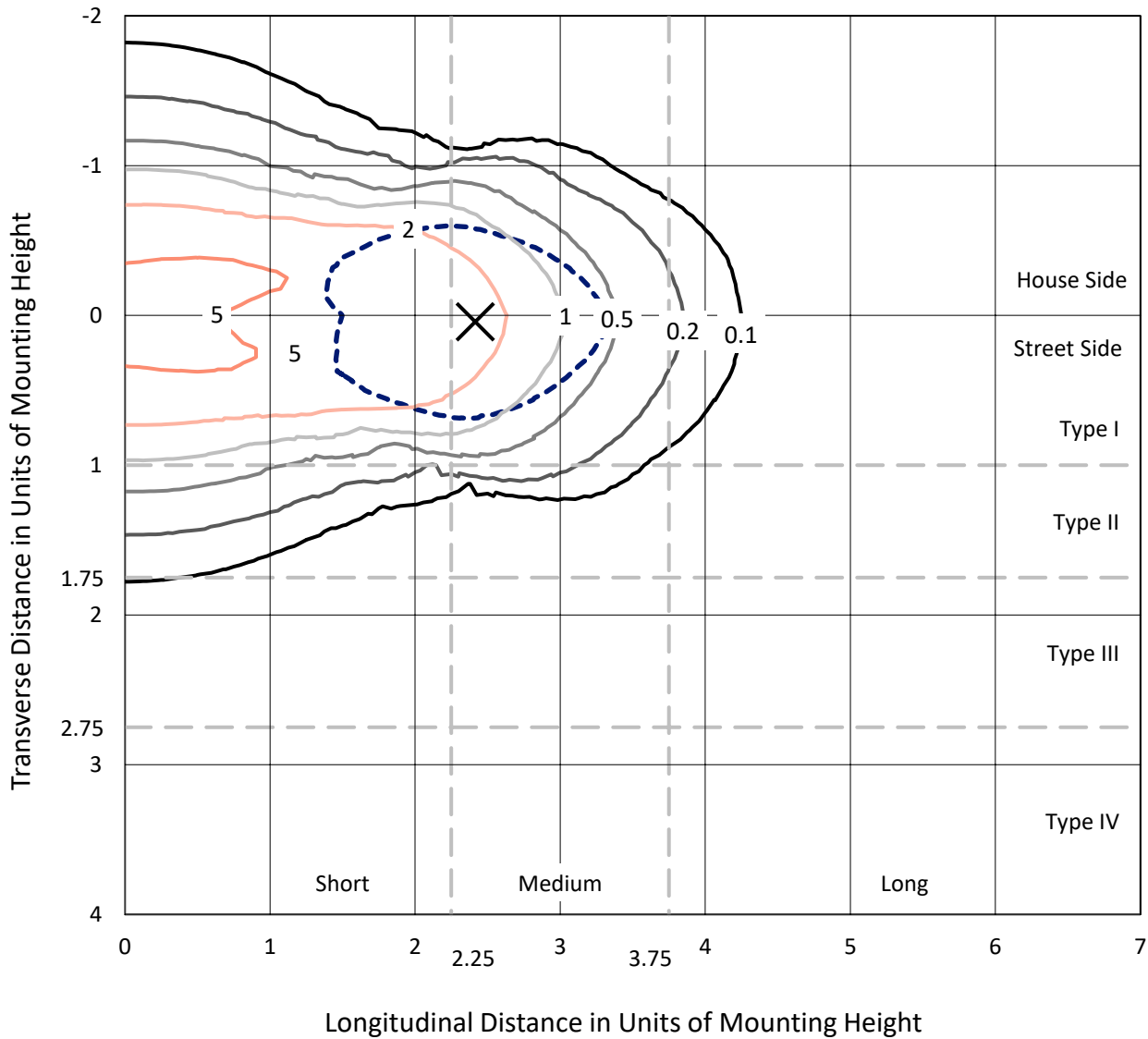
Lumens per Lamp: N/A  
Luminaire Lumens: 31246.7 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

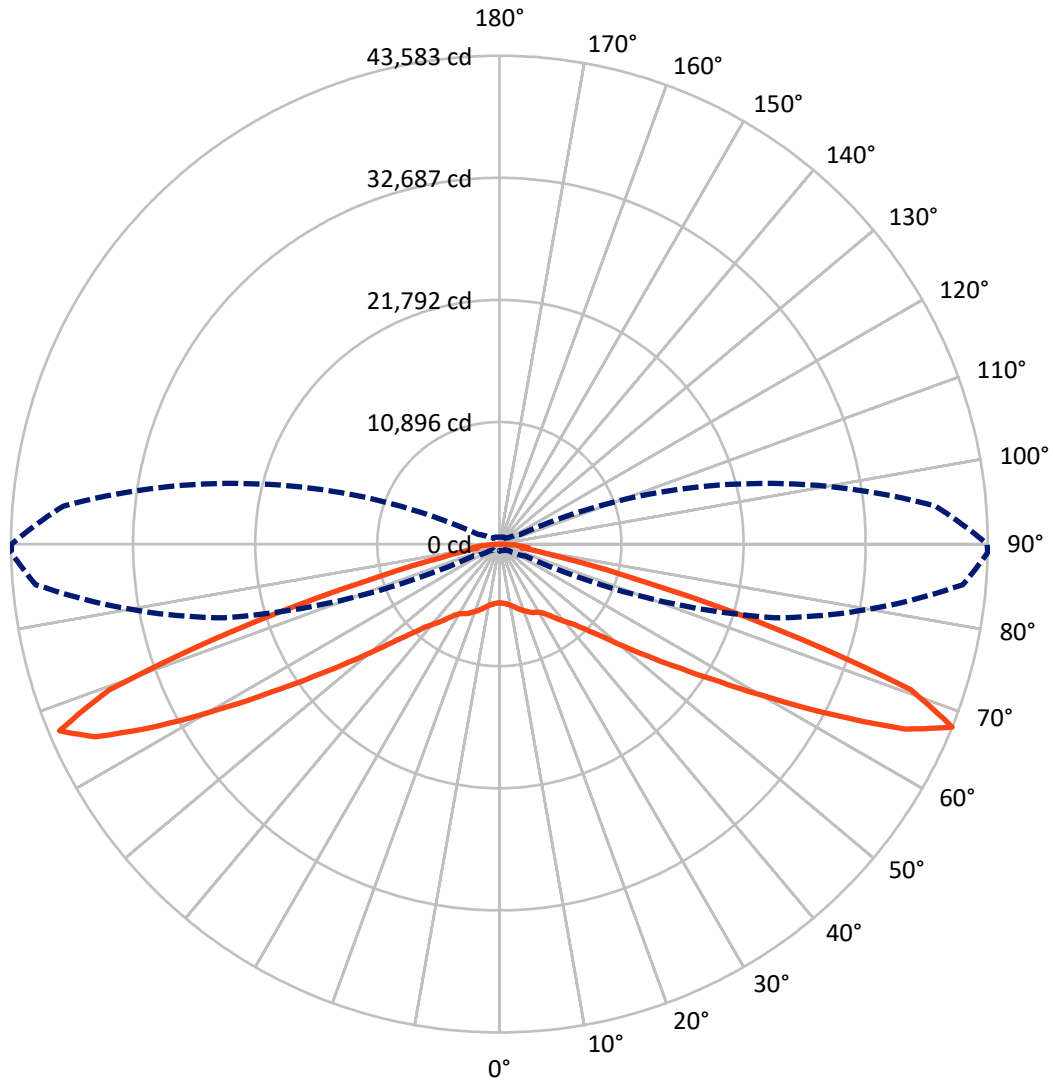
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	15486.4	0.0	15486.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	15760.3	0.0	15760.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	31246.7	0.0	31246.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.1	1.7
10°-20°	1712.9	5.5
20°-30°	2895.7	9.3
30°-40°	3973.9	12.7
40°-50°	5067.6	16.2
50°-60°	6358.1	20.3
60°-70°	7668.4	24.5
70°-80°	2774.2	8.9
80°-90°	269.8	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°	31246.7	100.0
0°-180°	31246.7	100.0

**Coefficient of Utilization**



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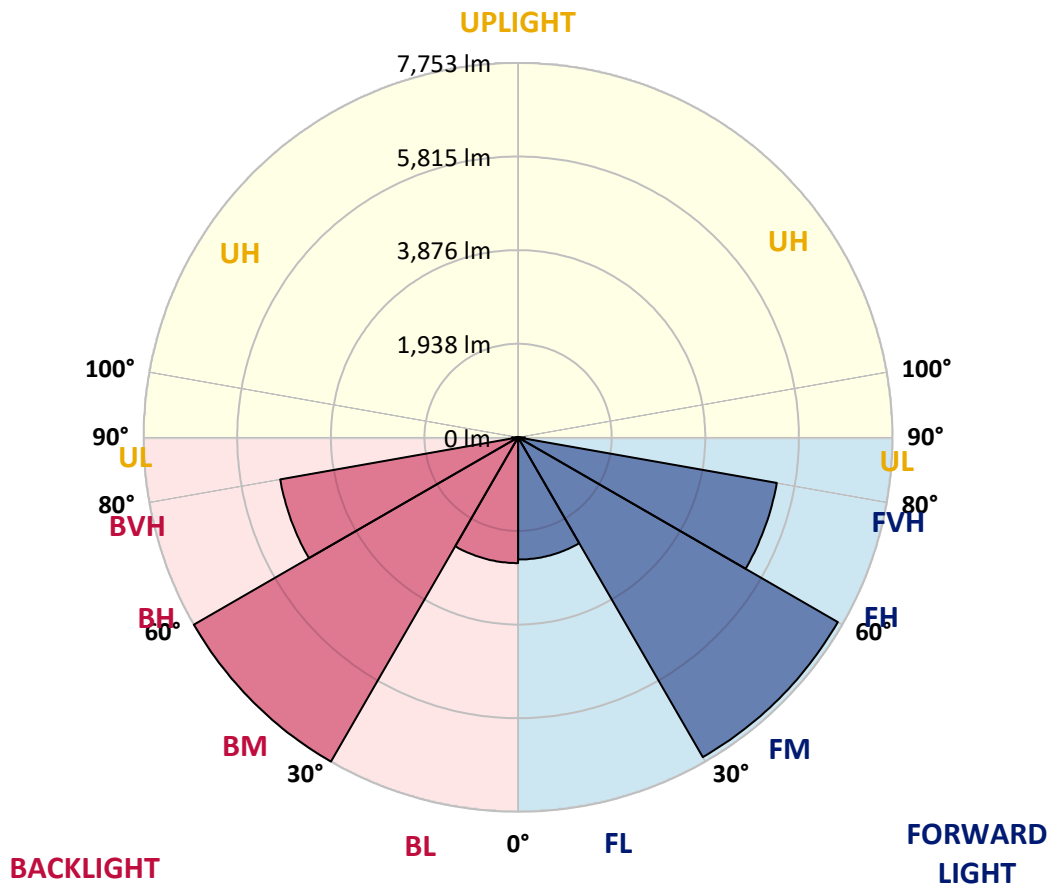
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.7	8.1			
FM (30°-60°)	7646.7	24.5			
FH (60°-80°)	5440.5	17.4			G3/7500
FVH (80°-90°)	142.4	0.5			G2/225
BL (0°-30°)	2603.9	8.3	B4/5000		
BM (30°-60°)	7753.0	24.8	B4/8500		
BH (60°-80°)	5002.1	16.0	B5		G5
BVH (80°-90°)	127.4	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 I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5
2.5°	5260.2	5255.7	5244.5	5278.2	5271.4	5273.7	5287.1	5278.2	5262.5	5235.5	5273.7
5°	5408.3	5406.1	5381.4	5401.6	5379.2	5363.4	5361.2	5338.8	5320.8	5291.6	5332.0
7.5°	5552.0	5549.7	5529.5	5565.4	5547.5	5529.5	5509.3	5464.4	5421.8	5379.2	5424.0
10°	5661.9	5659.7	5655.2	5706.8	5711.3	5718.0	5709.0	5632.7	5558.7	5507.1	5552.0
12.5°	5724.7	5731.5	5742.7	5837.0	5884.1	5929.0	5940.2	5877.3	5753.9	5679.9	5733.7
15°	5682.1	5695.6	5751.7	5922.2	6052.4	6153.4	6196.0	6144.4	5985.1	5861.6	5922.2
17.5°	5477.9	5489.1	5599.1	5859.4	6146.6	6380.0	6449.6	6418.2	6240.9	6090.5	6148.9
20°	5195.1	5219.8	5338.8	5702.3	6130.9	6537.1	6723.4	6712.2	6519.2	6288.0	6357.6
22.5°	4939.3	4968.5	5094.2	5495.8	6025.5	6577.5	6999.4	7028.6	6772.8	6485.5	6541.6
25°	4652.1	4679.0	4840.6	5251.2	5843.7	6546.1	7235.0	7367.4	7060.0	6712.2	6763.8
27.5°	4358.1	4378.3	4537.6	4975.2	5605.8	6487.7	7421.3	7740.0	7342.8	6869.2	6905.2
30°	4100.0	4126.9	4272.8	4699.2	5345.5	6371.1	7573.9	8137.2	7668.2	7046.5	7075.7
32.5°	3850.9	3873.3	4032.7	4427.6	5069.5	6191.5	7710.8	8604.0	8150.6	7376.4	7376.4
35°	3536.7	3577.1	3756.7	4167.3	4809.1	5953.6	7809.5	9147.0	8810.4	7863.4	7865.6
37.5°	3247.2	3269.7	3458.2	3873.3	4535.4	5684.4	7818.5	9710.3	9645.2	8482.8	8487.3
40°	2917.4	2946.5	3148.5	3559.2	4221.2	5401.6	7733.2	10235.4	10520.4	9120.1	9095.4
42.5°	2583.0	2625.6	2818.6	3220.3	3882.3	5056.0	7506.6	10735.9	11631.3	9858.4	9797.8
45°	2259.8	2286.8	2479.8	2859.0	3494.1	4643.1	7143.0	11216.1	12950.8	10980.5	10893.0
47.5°	1896.3	1907.5	2107.2	2470.8	3092.4	4183.0	6622.4	11644.7	14400.5	12466.1	12315.7
50°	1573.1	1588.8	1745.9	2057.9	2600.9	3637.7	5973.8	11896.1	16247.4	14492.5	14232.2
52.5°	1272.4	1288.1	1413.8	1662.9	2149.9	3016.1	5170.5	11837.7	18121.3	17008.2	16628.9
55°	1027.8	1039.0	1124.3	1319.5	1692.1	2399.0	4221.2	11314.8	20201.6	20293.6	19476.7
57.5°	868.5	873.0	931.3	1050.2	1321.8	1849.2	3258.5	10080.6	22382.8	24485.6	23143.6
60°	776.5	778.7	805.6	879.7	1043.5	1411.6	2387.7	8114.7	24642.7	29730.1	27889.9
62.5°	718.1	718.1	740.6	783.2	866.2	1086.2	1754.9	5828.0	26265.2	35436.9	33607.9
65°	662.0	662.0	677.7	713.6	758.5	886.4	1317.3	3758.9	27061.8	40207.9	39801.7
67.5°	590.2	592.4	603.7	641.8	682.2	740.6	998.6	2542.6	25407.9	41527.4	43583.0
70°	522.9	525.1	540.8	565.5	599.2	639.6	781.0	1752.7	18493.8	34586.4	38969.1
72.5°	448.8	457.8	469.0	496.0	516.1	545.3	637.3	1135.5	10760.6	22248.2	25760.2
75°	368.0	379.3	392.7	419.7	433.1	444.3	525.1	810.1	5177.2	11274.5	12838.6
77.5°	285.0	296.2	311.9	336.6	345.6	359.1	401.7	585.7	2479.8	4997.7	5388.1
80°	190.8	195.2	208.7	237.9	253.6	262.6	296.2	399.5	1077.2	2006.2	1988.3
82.5°	116.7	118.9	123.4	141.4	148.1	157.1	193.0	244.6	513.9	2280.0	2614.4
85°	42.6	40.4	38.2	49.4	58.3	67.3	89.8	123.4	224.4	1566.4	1752.7
87.5°	0.0	0.0	0.0	2.2	4.5	4.5	9.0	18.0	53.9	585.7	401.7
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°	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5	5244.5
2.5°	5262.5	5237.8	5269.2	5291.6	5341.0	5359.0	5363.4	5347.7	5347.7	5320.8	5325.3
5°	5323.1	5307.3	5359.0	5397.1	5468.9	5495.8	5513.8	5502.6	5509.3	5491.4	5495.8
7.5°	5415.1	5401.6	5491.4	5565.4	5639.5	5670.9	5686.6	5677.6	5679.9	5657.4	5664.2
10°	5543.0	5547.5	5655.2	5751.7	5850.4	5881.8	5888.6	5861.6	5839.2	5798.8	5801.0
12.5°	5718.0	5740.5	5893.1	6000.8	6101.8	6146.6	6097.3	5998.5	5906.5	5837.0	5828.0
15°	5908.8	5949.2	6169.1	6306.0	6415.9	6393.5	6247.6	6025.5	5843.7	5740.5	5720.3
17.5°	6137.7	6198.3	6474.3	6638.1	6732.4	6588.7	6283.5	5951.4	5697.8	5558.7	5531.8
20°	6353.1	6449.6	6797.4	7010.6	7021.8	6698.7	6267.8	5801.0	5482.4	5311.8	5275.9
22.5°	6550.6	6674.0	7136.3	7407.8	7262.0	6748.1	6171.3	5587.9	5222.1	5022.3	4990.9
25°	6766.0	6941.1	7531.3	7784.8	7502.1	6727.9	5969.4	5323.1	4907.9	4703.7	4681.2
27.5°	6914.1	7134.1	7928.5	8170.8	7699.6	6613.4	5709.0	5033.6	4620.6	4427.6	4396.2
30°	7084.7	7365.2	8366.1	8590.5	7820.8	6445.1	5430.8	4764.3	4353.6	4144.9	4122.4
32.5°	7394.4	7746.7	8909.2	9034.8	7858.9	6236.4	5163.7	4503.9	4075.3	3866.6	3835.2
35°	7892.6	8305.5	9672.2	9530.8	7829.7	6007.5	4910.1	4198.7	3790.3	3595.1	3563.7
37.5°	8520.9	9034.8	10522.7	9977.4	7748.9	5756.2	4609.4	3942.9	3534.5	3337.0	3319.1
40°	9106.6	9739.5	11476.4	10363.3	7585.1	5446.5	4319.9	3675.9	3258.5	3049.8	3009.4
42.5°	9840.5	10682.0	12580.5	10697.7	7315.8	5076.2	3994.5	3346.0	2912.9	2724.4	2675.0
45°	10955.8	12001.6	13864.2	11018.6	6914.1	4620.6	3586.1	2944.3	2533.6	2340.6	2302.5
47.5°	12347.1	13651.0	15255.5	11209.4	6303.7	4140.4	3123.8	2520.1	2109.5	1891.8	1873.8
50°	14301.8	16049.9	16747.9	11175.7	5621.5	3570.4	2603.2	2015.2	1671.9	1514.8	1490.1
52.5°	16682.8	19061.5	18361.4	10771.8	4896.7	2921.8	2028.7	1582.1	1326.3	1214.1	1193.9
55°	19669.7	22667.8	20060.2	9905.5	3981.1	2237.4	1593.3	1247.7	1072.7	1005.4	996.4
57.5°	23368.0	27337.9	21696.1	8446.9	2993.7	1707.8	1227.5	1030.1	947.0	906.6	904.4
60°	28249.0	32295.1	23116.7	6564.0	2143.1	1306.1	1014.3	920.1	855.0	828.1	825.8
62.5°	34052.3	36796.8	24000.9	4470.3	1611.3	1041.3	893.2	834.8	796.7	781.0	778.7
65°	40017.1	39642.4	23579.0	2928.6	1223.0	884.2	801.2	769.7	736.1	720.4	720.4
67.5°	43540.4	39040.9	20340.7	2033.2	969.5	776.5	722.6	693.4	637.3	623.9	623.9
70°	38565.2	31635.4	13332.3	1487.9	785.4	680.0	628.4	588.0	565.5	552.1	549.8
72.5°	25506.7	20585.3	7089.2	1032.3	655.3	579.0	531.9	516.1	489.2	475.8	473.5
75°	12695.0	10812.2	3633.2	745.0	545.3	464.5	444.3	437.6	415.2	397.2	392.7
77.5°	5291.6	4813.6	1694.3	540.8	415.2	374.8	356.8	356.8	332.1	311.9	303.0
80°	1995.0	1777.3	801.2	370.3	307.4	278.3	267.1	258.1	237.9	213.2	199.7
82.5°	2668.3	1743.7	392.7	231.1	202.0	179.5	163.8	157.1	145.9	134.6	125.7
85°	1728.0	1238.8	177.3	118.9	101.0	76.3	67.3	62.8	56.1	49.4	44.9
87.5°	352.3	415.2	53.9	22.4	13.5	6.7	6.7	2.2	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)