

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: P641693

Luminaire Tested: GWS-SA6B-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

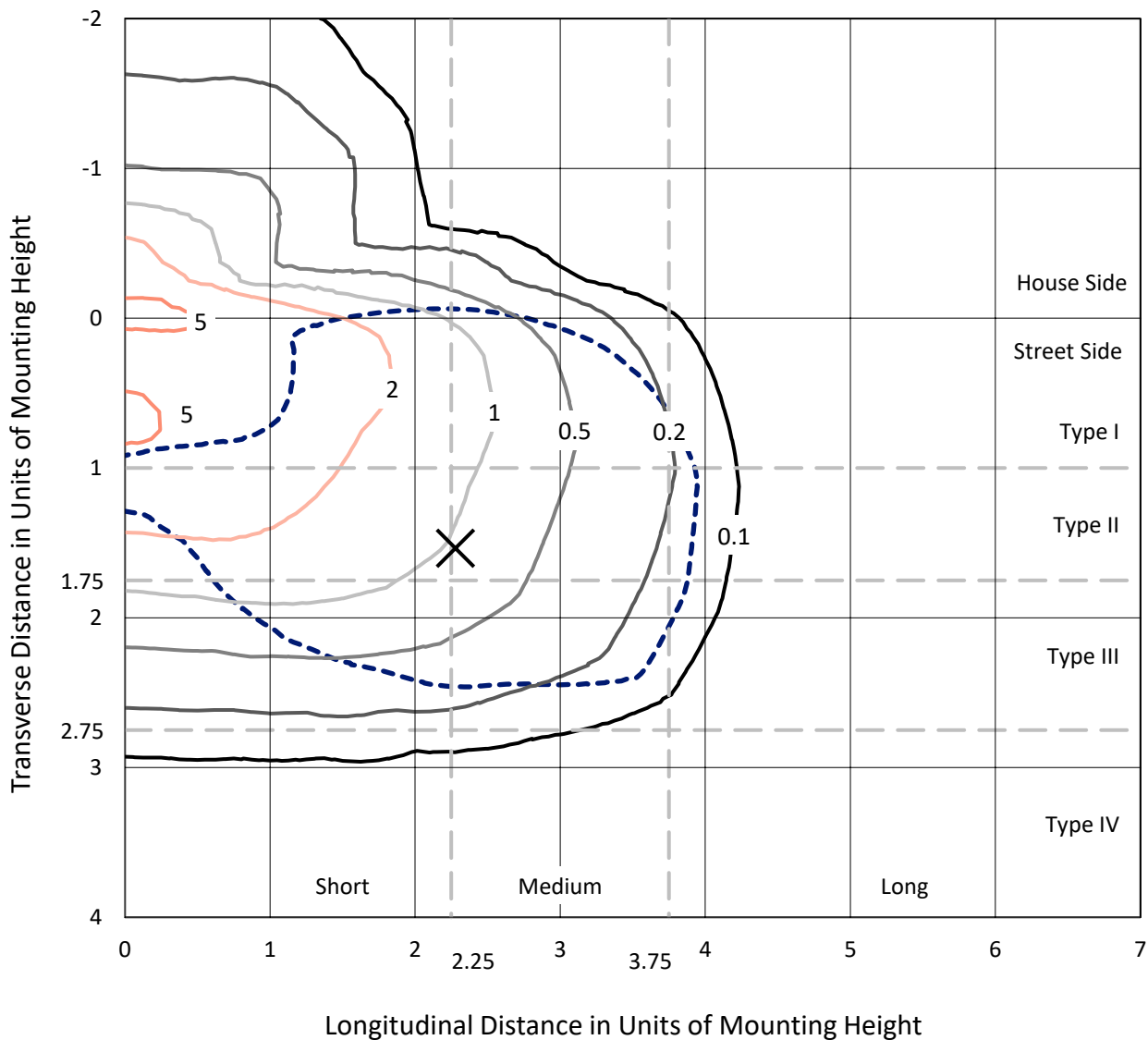
Lumens per Lamp: N/A  
Luminaire Lumens: 21228.9 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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

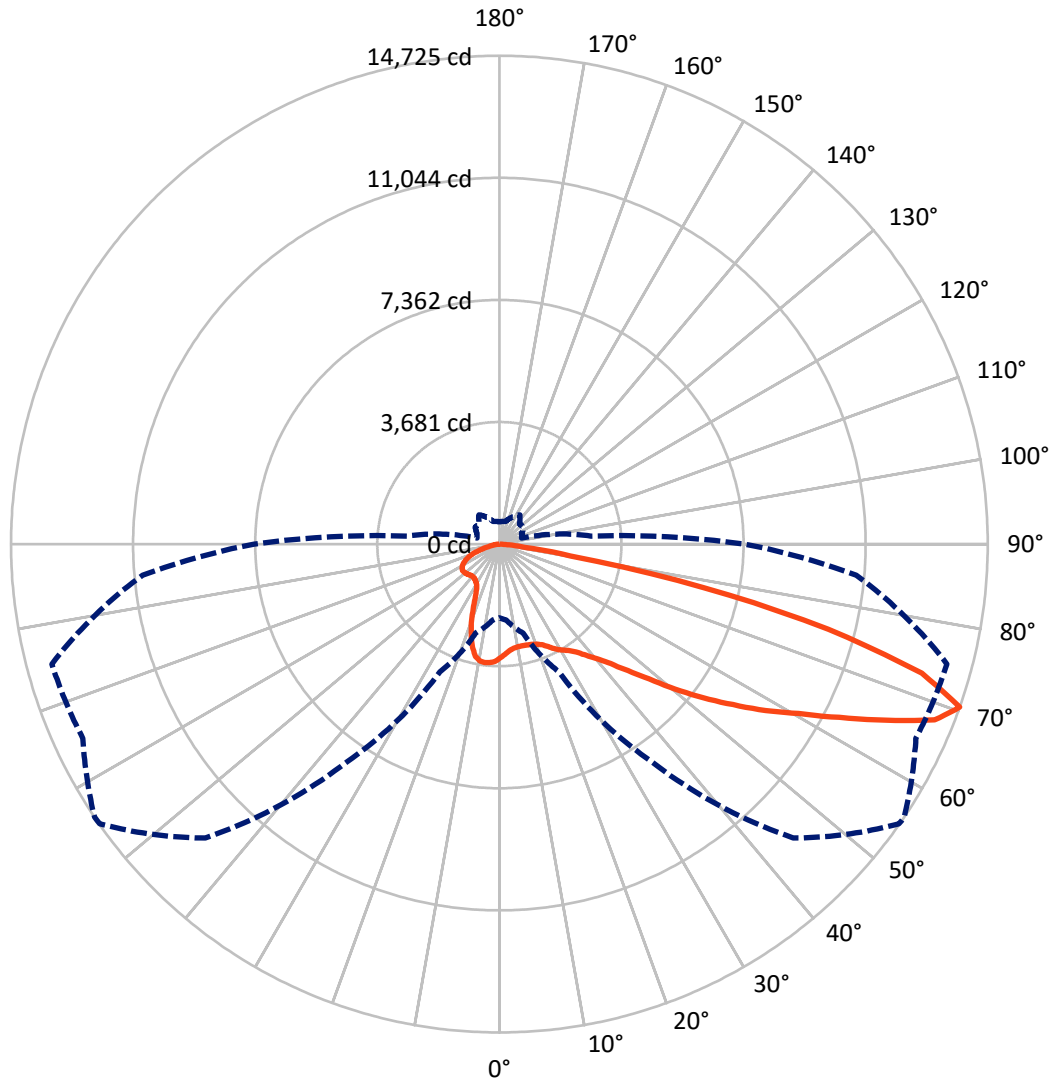
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4081.3	0.0	4081.3
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	17147.6	0.0	17147.6
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	21228.9	0.0	21228.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	1.5
10°-20°	859.2	4.0
20°-30°	1420.5	6.7
30°-40°	2123.8	10.0
40°-50°	3160.5	14.9
50°-60°	4493.3	21.2
60°-70°	5565.2	26.2
70°-80°	3072.9	14.5
80°-90°	216.4	1.0
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°	21228.9	100.0
0°-180°	21228.9	100.0

**Coefficient of Utilization**



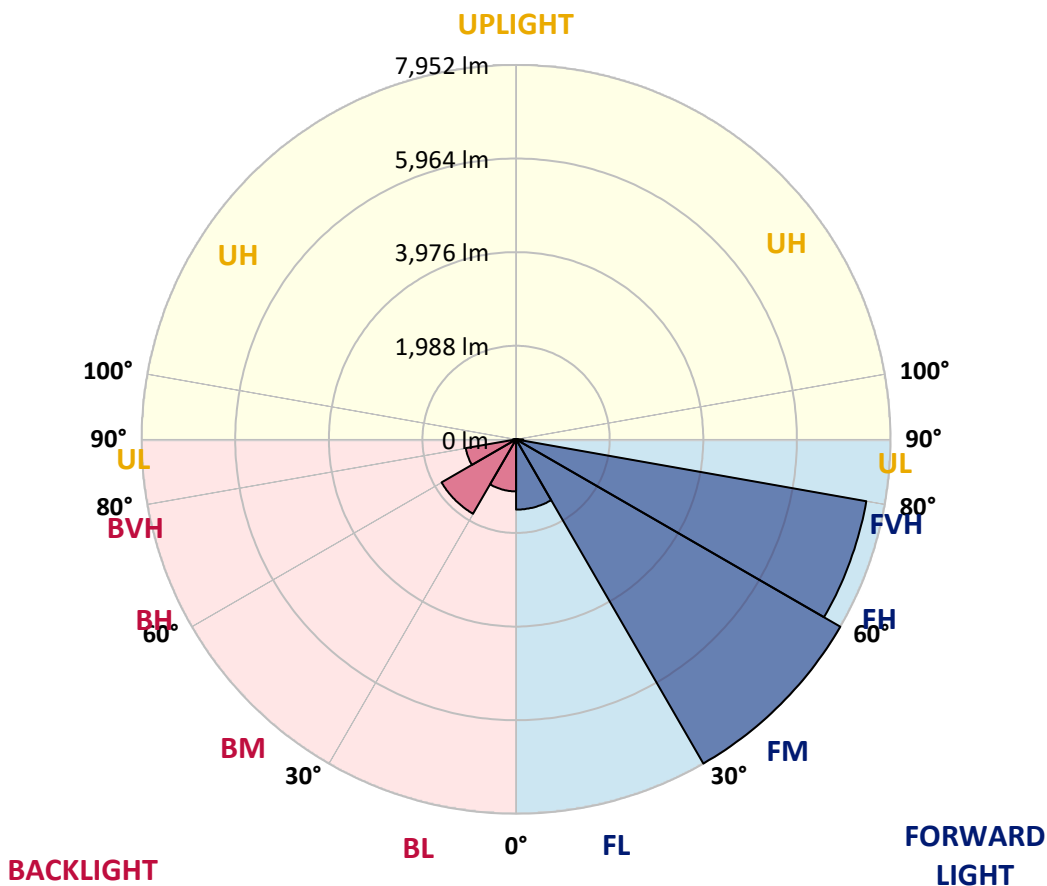
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.9	7.0			
FM (30°-60°)	7952.0	37.5			
FH (60°-80°)	7553.3	35.6			G4/12000
FVH (80°-90°)	150.4	0.7			G2/225
BL (0°-30°)	1104.8	5.2	B3/2500		
BM (30°-60°)	1825.6	8.6	B2/2500		
BH (60°-80°)	1084.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	66.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3206.6	3188.6	3209.6	3220.1	3247.0	3286.0	3320.4	3321.9	3339.8	3383.3	3425.2
5°	3061.4	3052.4	3058.4	3089.8	3118.3	3167.7	3220.1	3224.6	3275.5	3360.8	3444.6
7.5°	2949.1	2937.1	2959.6	3000.0	3035.9	3091.3	3160.2	3166.2	3238.0	3366.8	3495.5
10°	2787.4	2778.5	2820.4	2874.3	2952.1	3043.4	3134.8	3142.2	3236.5	3405.7	3585.4
12.5°	2717.1	2717.1	2735.0	2785.9	2871.3	2992.5	3130.3	3142.2	3260.5	3465.6	3700.6
15°	2826.4	2833.9	2818.9	2815.9	2850.3	2965.6	3136.2	3154.2	3305.4	3527.0	3814.4
17.5°	3046.4	3053.9	3015.0	2953.6	2919.2	2991.0	3158.7	3178.2	3353.3	3594.3	3937.2
20°	3354.8	3363.8	3278.5	3184.2	3065.9	3064.4	3202.1	3220.1	3414.7	3667.7	4067.4
22.5°	3715.6	3721.6	3613.8	3464.1	3283.0	3200.6	3277.0	3294.9	3494.0	3769.5	4208.1
25°	4133.3	4151.2	4021.0	3803.9	3558.4	3387.7	3401.2	3422.2	3636.3	3905.7	4374.3
27.5°	4579.4	4601.8	4452.1	4212.6	3874.3	3594.3	3561.4	3579.4	3787.5	3989.5	4462.6
30°	5036.0	5052.4	4902.7	4628.8	4214.1	3827.9	3696.1	3706.6	3853.3	4030.0	4552.4
32.5°	5543.5	5530.0	5386.3	5070.4	4606.3	4107.8	3821.9	3818.9	3926.7	4110.8	4681.2
35°	6019.5	6039.0	5886.3	5537.5	5037.5	4453.6	4010.5	3998.5	4082.4	4242.5	4862.3
37.5°	6595.9	6589.9	6407.2	6030.0	5470.1	4784.5	4275.5	4254.5	4284.5	4447.6	5115.3
40°	7007.5	7049.5	6931.2	6579.4	5976.1	5191.7	4585.4	4539.0	4546.4	4700.6	5453.6
42.5°	7344.4	7383.3	7395.3	7170.7	6555.4	5694.7	4971.6	4925.2	4929.7	5148.2	5869.8
45°	7603.3	7655.7	7824.9	7759.0	7208.1	6275.5	5494.1	5446.1	5449.1	5691.7	6372.8
47.5°	7709.6	7766.5	8109.3	8266.5	7901.3	6970.1	6143.8	6073.4	6083.9	6351.8	6947.7
50°	7675.2	7751.6	8215.6	8657.2	8482.1	7676.7	6920.7	6871.3	6830.9	7220.1	7571.9
52.5°	7378.8	7462.6	8205.1	8905.8	8956.7	8344.4	7723.1	7694.7	7685.7	8142.3	8269.5
55°	6506.0	6646.8	7844.4	8971.6	9327.9	8973.1	8592.9	8545.0	8591.4	9130.3	8974.6
57.5°	6022.5	6127.3	7137.8	8898.3	9631.8	9571.9	9461.1	9465.6	9518.0	10203.7	9829.4
60°	5747.0	5869.8	6745.6	8697.7	9923.7	10299.5	10369.8	10369.8	10464.1	11360.9	10697.7
62.5°	5381.8	5506.0	6378.8	8311.4	10193.2	11155.8	11512.1	11507.6	11545.0	12601.9	11546.5
65°	4640.8	4756.0	5642.3	7702.2	10324.9	12098.9	12810.0	12796.5	12721.6	13706.7	12107.9
67.5°	3369.8	3479.1	4321.9	6543.5	9850.4	12859.4	14146.8	14152.8	13705.2	14402.8	12137.8
70°	2221.6	2296.4	2778.5	4250.0	8010.5	12531.5	14706.7	14724.7	13856.4	13968.7	10802.5
72.5°	1386.2	1438.6	1735.0	2534.4	4733.6	9919.2	13269.6	13319.0	12465.7	12275.5	8875.8
75°	920.7	956.6	1154.2	1477.6	2190.1	5368.3	10086.9	10245.6	9991.1	9622.8	6184.2
77.5°	553.9	583.8	735.0	938.6	970.1	2097.3	5887.8	6297.9	6333.9	5024.0	2589.8
80°	253.0	287.4	405.7	535.9	516.5	730.5	2076.4	2172.2	2562.9	1595.8	817.4
82.5°	149.7	164.7	269.5	266.5	220.1	354.8	747.0	766.5	651.2	583.8	348.8
85°	59.9	70.4	113.8	100.3	80.8	115.3	281.4	294.9	282.9	254.5	128.7
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	25.4	26.9	38.9	70.4	38.9
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°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3452.1	3443.1	3488.0	3522.5	3537.5	3552.4	3538.9	3534.5	3534.5	3504.5	3489.5
5°	3489.5	3494.0	3555.4	3583.9	3583.9	3571.9	3536.0	3510.5	3501.5	3462.6	3452.1
7.5°	3559.9	3579.4	3636.3	3634.8	3592.8	3527.0	3437.2	3368.3	3305.4	3278.5	3262.0
10°	3675.2	3700.6	3739.5	3676.7	3559.9	3386.3	3196.1	3046.4	2956.6	2884.8	2884.8
12.5°	3806.9	3830.9	3823.4	3678.2	3437.2	3112.3	2838.3	2666.2	2540.4	2474.6	2474.6
15°	3938.7	3958.1	3877.3	3609.3	3181.2	2748.5	2449.1	2242.5	2133.2	2071.9	2071.9
17.5°	4071.9	4070.4	3899.7	3450.6	2847.3	2345.8	2052.4	1892.2	1854.8	1844.3	1842.8
20°	4200.6	4166.2	3871.3	3185.7	2459.6	1940.1	1754.5	1765.0	1820.4	1844.3	1847.3
22.5°	4345.8	4260.5	3787.5	2847.3	2019.5	1658.7	1670.7	1757.5	1838.3	1874.3	1878.8
25°	4494.0	4341.3	3646.7	2450.6	1651.2	1555.4	1648.2	1745.5	1836.8	1883.2	1887.7
27.5°	4553.9	4341.3	3407.2	1991.0	1455.1	1512.0	1613.8	1708.1	1803.9	1857.8	1868.3
30°	4603.3	4303.9	3071.9	1576.4	1374.3	1470.1	1558.4	1645.2	1739.5	1805.4	1817.4
32.5°	4672.2	4271.0	2666.2	1324.9	1336.8	1429.7	1491.0	1564.4	1649.7	1693.1	1688.6
35°	4753.0	4220.1	2176.7	1205.1	1305.4	1395.2	1438.6	1482.0	1443.1	1441.6	1446.1
37.5°	4868.3	4175.2	1750.0	1151.2	1284.4	1371.3	1407.2	1314.4	1260.5	1238.0	1229.1
40°	5034.5	4157.2	1380.2	1119.8	1281.4	1369.8	1344.3	1200.6	1127.3	1049.4	1047.9
42.5°	5244.0	4143.7	1140.7	1104.8	1291.9	1404.2	1257.5	1125.8	974.6	940.1	937.1
45°	5513.5	4122.8	1021.0	1101.8	1317.4	1431.1	1248.5	1022.5	919.2	904.2	904.2
47.5°	5838.4	4089.8	967.1	1101.8	1345.8	1419.2	1221.6	1000.0	893.7	910.2	920.7
50°	6211.1	4047.9	938.6	1098.8	1374.3	1419.2	1164.7	995.5	887.7	973.1	1007.5
52.5°	6609.3	4000.0	919.2	1086.8	1393.7	1420.7	1167.7	1010.5	893.7	988.0	1016.5
55°	7049.5	3992.5	892.2	1061.4	1399.7	1381.7	1175.2	1043.4	902.7	895.2	896.7
57.5°	7604.8	4082.4	872.8	1024.0	1375.8	1302.4	1190.1	1067.4	892.2	893.7	904.2
60°	8185.7	4251.5	889.2	988.0	1326.4	1227.6	1200.6	1055.4	841.3	817.4	820.4
62.5°	8679.7	4380.3	902.7	971.6	1254.5	1161.7	1190.1	1028.5	812.9	806.9	820.4
65°	8886.3	4274.0	869.8	937.1	1149.7	1080.8	1167.7	994.0	788.9	766.5	768.0
67.5°	8657.2	3775.5	805.4	860.8	1031.4	977.6	1131.7	949.1	756.0	729.0	723.1
70°	7395.3	2774.0	694.6	739.5	887.7	856.3	1076.4	890.7	703.6	684.1	670.7
72.5°	5959.6	1964.1	576.4	588.3	696.1	721.6	980.5	817.4	643.7	588.3	568.9
75°	4148.2	1233.5	480.5	468.6	503.0	550.9	765.0	678.1	555.4	497.0	479.0
77.5°	1784.4	633.2	375.8	369.8	335.3	381.7	586.8	565.9	465.6	398.2	387.7
80°	597.3	366.8	271.0	260.5	223.1	268.0	413.2	452.1	365.3	294.9	276.9
82.5°	299.4	212.6	172.2	155.7	149.7	169.2	244.0	281.4	253.0	203.6	172.2
85°	146.7	121.3	94.3	92.8	77.8	73.4	101.8	119.8	113.8	83.8	79.3
87.5°	53.9	47.9	29.9	24.0	15.0	10.5	6.0	6.0	4.5	4.5	4.5
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)