

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: P637403

Luminaire Tested: GWS-SA4C-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637403
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-SA4C-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19909.3 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

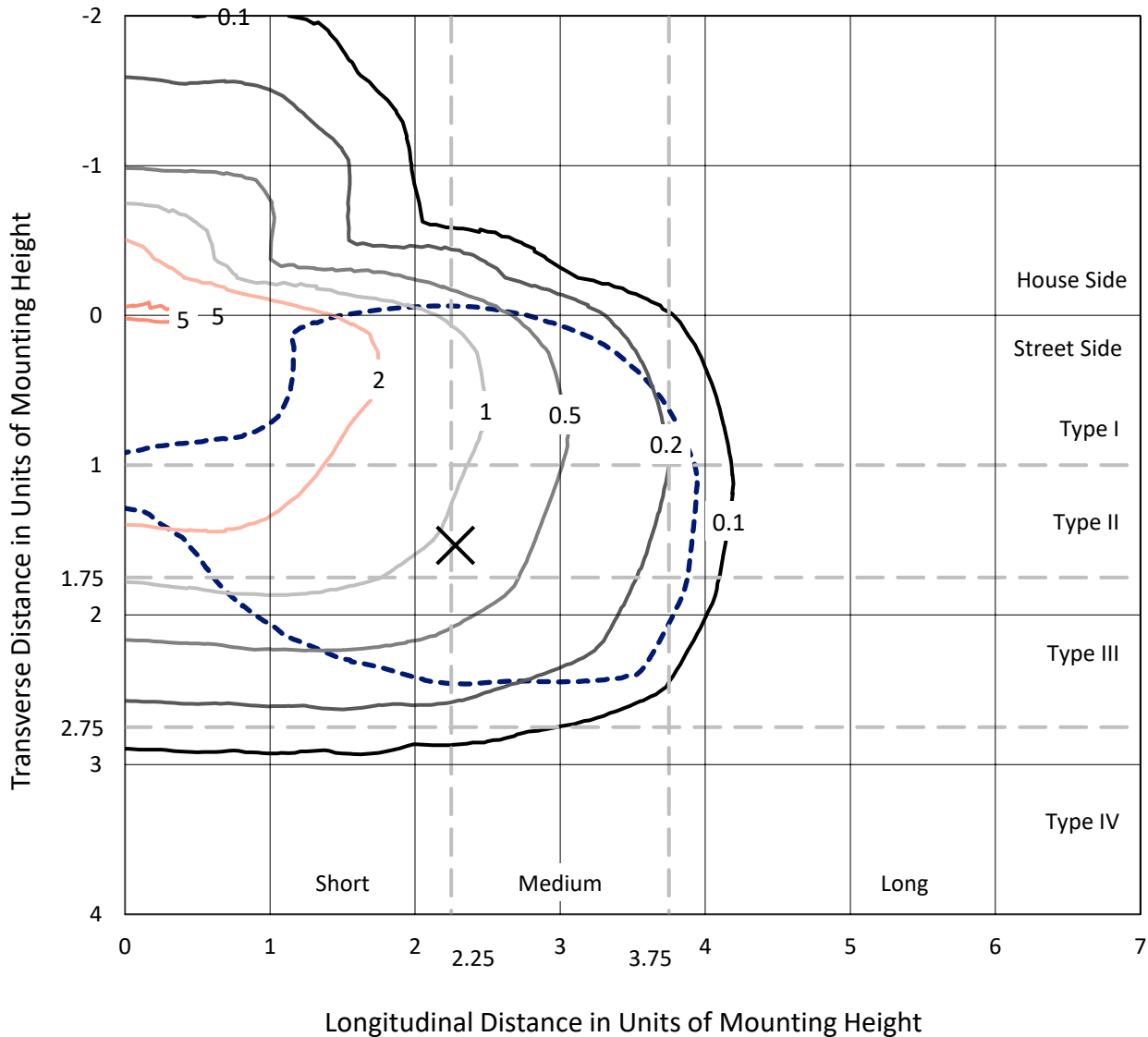
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

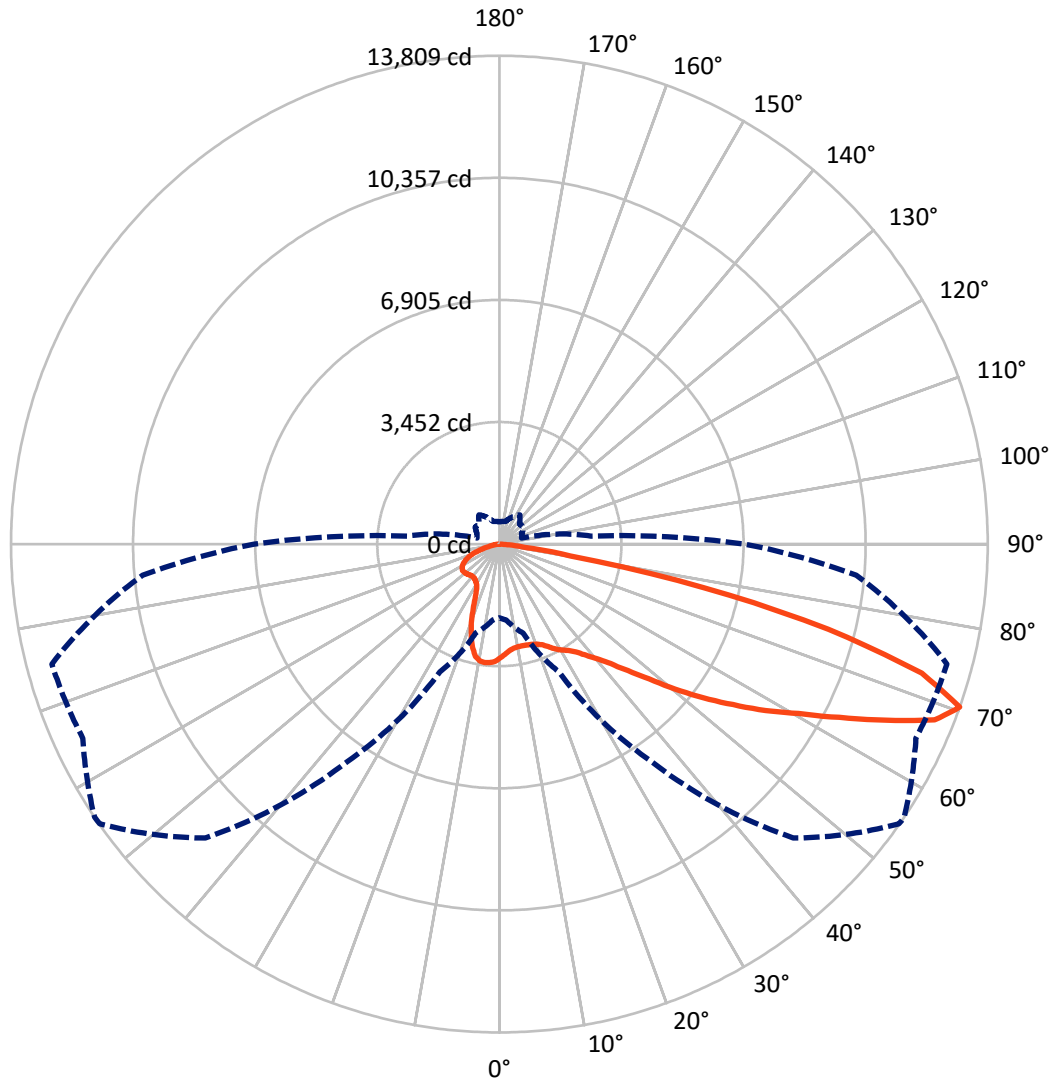
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	3827.6	0.0	3827.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	16081.7	0.0	16081.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	19909.3	0.0	19909.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	1.5
10°-20°	805.8	4.0
20°-30°	1332.2	6.7
30°-40°	1991.8	10.0
40°-50°	2964.1	14.9
50°-60°	4214.0	21.2
60°-70°	5219.2	26.2
70°-80°	2881.9	14.5
80°-90°	203.0	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°	19909.3	100.0
0°-180°	19909.3	100.0

Coefficient of Utilization



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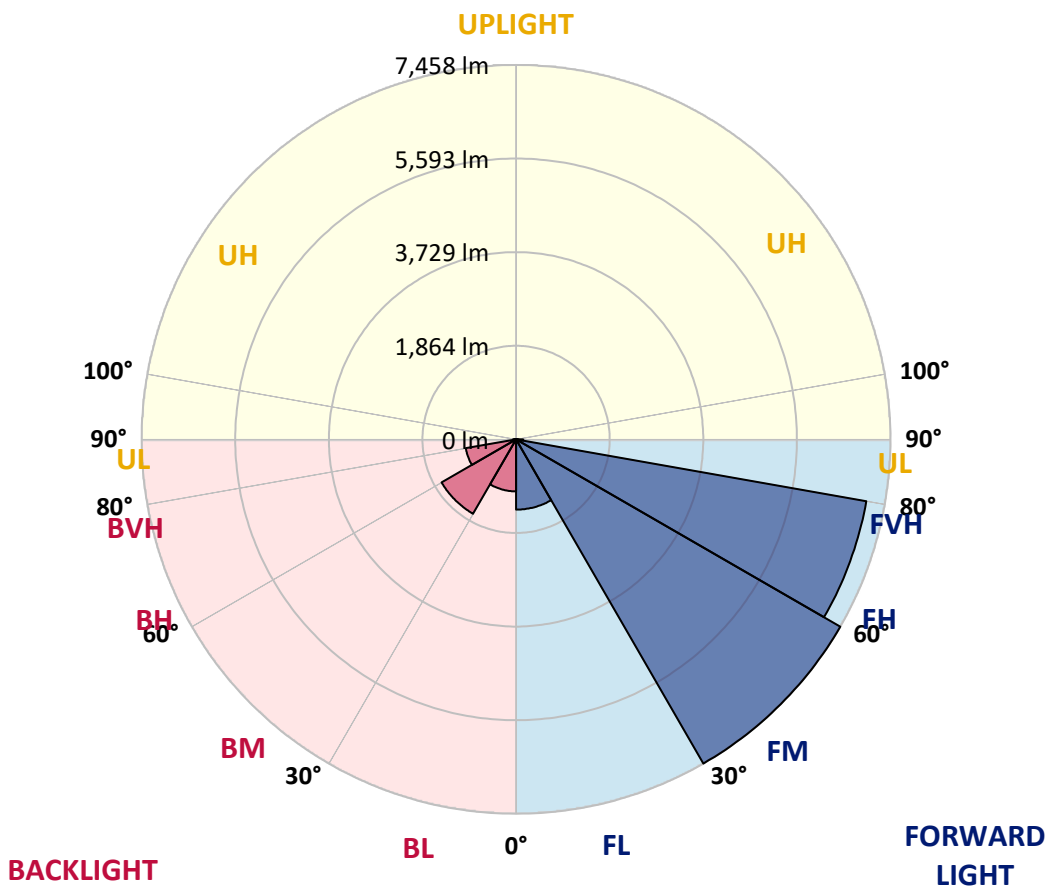
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.2	7.0			
FM (30°-60°)	7457.7	37.5			
FH (60°-80°)	7083.7	35.6			G3/7500
FVH (80°-90°)	141.0	0.7			G2/225
BL (0°-30°)	1036.2	5.2	B3/2500		
BM (30°-60°)	1712.2	8.6	B2/2500		
BH (60°-80°)	1017.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	61.9	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7
2.5°	3007.3	2990.4	3010.1	3019.9	3045.2	3081.7	3114.0	3115.4	3132.2	3173.0	3212.3
5°	2871.1	2862.7	2868.3	2897.8	2924.5	2970.8	3019.9	3024.1	3071.9	3151.9	3230.5
7.5°	2765.8	2754.6	2775.6	2813.5	2847.2	2899.2	2963.8	2969.4	3036.8	3157.5	3278.2
10°	2614.2	2605.8	2645.1	2695.6	2768.6	2854.3	2939.9	2946.9	3035.4	3194.0	3362.5
12.5°	2548.2	2548.2	2565.0	2612.8	2692.8	2806.5	2935.7	2946.9	3057.8	3250.2	3470.6
15°	2650.7	2657.7	2643.7	2640.9	2673.1	2781.2	2941.3	2958.1	3099.9	3307.7	3577.3
17.5°	2857.1	2864.1	2827.6	2770.0	2737.7	2805.1	2962.4	2980.6	3144.9	3370.9	3692.4
20°	3146.3	3154.7	3074.7	2986.2	2875.3	2873.9	3003.1	3019.9	3202.4	3439.7	3814.6
22.5°	3484.6	3490.2	3389.2	3248.8	3078.9	3001.7	3073.3	3090.1	3276.8	3535.2	3946.5
25°	3876.3	3893.2	3771.0	3567.5	3337.2	3177.2	3189.8	3209.5	3410.2	3662.9	4102.4
27.5°	4294.7	4315.8	4175.4	3950.7	3633.5	3370.9	3340.0	3356.9	3552.0	3741.6	4185.2
30°	4722.9	4738.4	4598.0	4341.0	3952.2	3589.9	3466.4	3476.2	3613.8	3779.5	4269.4
32.5°	5198.9	5186.2	5051.5	4755.2	4320.0	3852.5	3584.3	3581.5	3682.6	3855.3	4390.2
35°	5645.3	5663.6	5520.4	5193.3	4724.3	4176.8	3761.2	3750.0	3828.6	3978.8	4560.1
37.5°	6185.9	6180.2	6009.0	5655.2	5130.1	4487.1	4009.7	3990.1	4018.1	4171.2	4797.3
40°	6571.9	6611.3	6500.3	6170.4	5604.6	4868.9	4300.3	4256.8	4263.8	4408.4	5114.6
42.5°	6887.8	6924.3	6935.6	6725.0	6147.9	5340.7	4662.6	4619.0	4623.2	4828.2	5504.9
45°	7130.7	7179.9	7338.5	7276.7	6760.1	5885.4	5152.5	5107.6	5110.4	5337.9	5976.7
47.5°	7230.4	7283.8	7605.3	7752.7	7410.1	6536.8	5761.9	5695.9	5705.7	5957.0	6515.8
50°	7198.1	7269.7	7704.9	8119.1	7954.8	7199.5	6490.5	6444.2	6406.3	6771.3	7101.2
52.5°	6920.1	6998.7	7695.1	8352.2	8399.9	7825.7	7243.0	7216.4	7207.9	7636.1	7755.5
55°	6101.6	6233.6	7356.8	8413.9	8748.1	8415.3	8058.7	8013.8	8057.3	8562.8	8416.7
57.5°	5648.1	5746.4	6694.1	8345.1	9033.1	8976.9	8873.0	8877.2	8926.4	9569.4	9218.4
60°	5389.8	5504.9	6326.2	8157.0	9306.9	9659.3	9725.2	9725.2	9813.7	10654.7	10032.7
62.5°	5047.2	5163.8	5982.3	7794.8	9559.6	10462.3	10796.5	10792.2	10827.3	11818.5	10828.8
65°	4352.3	4460.4	5291.5	7223.4	9683.1	11346.8	12013.7	12001.1	11930.9	12854.7	11355.2
67.5°	3160.3	3262.8	4053.2	6136.7	9238.1	12060.0	13267.4	13273.0	12853.3	13507.5	11383.3
70°	2083.5	2153.7	2605.8	3985.8	7512.6	11752.6	13792.5	13809.4	12995.1	13100.4	10131.0
72.5°	1300.1	1349.2	1627.2	2376.9	4439.3	9302.6	12444.7	12491.0	11690.8	11512.5	8324.1
75°	863.4	897.1	1082.5	1385.7	2054.0	5034.6	9459.9	9608.7	9370.0	9024.7	5799.8
77.5°	519.5	547.5	689.3	880.3	909.8	1966.9	5521.8	5906.5	5940.2	4711.7	2428.9
80°	237.3	269.6	380.5	502.6	484.4	685.1	1947.3	2037.1	2403.6	1496.6	766.6
82.5°	140.4	154.4	252.7	249.9	206.4	332.7	700.6	718.8	610.7	547.5	327.1
85°	56.2	66.0	106.7	94.1	75.8	108.1	263.9	276.6	265.3	238.7	120.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	23.9	25.3	36.5	66.0	36.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7	3213.7
2.5°	3237.5	3229.1	3271.2	3303.5	3317.6	3331.6	3319.0	3314.8	3314.8	3286.7	3272.6
5°	3272.6	3276.8	3334.4	3361.1	3361.1	3349.9	3316.2	3292.3	3283.9	3247.4	3237.5
7.5°	3338.6	3356.9	3410.2	3408.8	3369.5	3307.7	3223.5	3158.9	3099.9	3074.7	3059.2
10°	3446.7	3470.6	3507.1	3448.1	3338.6	3175.8	2997.5	2857.1	2772.8	2705.4	2705.4
12.5°	3570.3	3592.7	3585.7	3449.5	3223.5	2918.8	2661.9	2500.5	2382.5	2320.7	2320.7
15°	3693.8	3712.1	3636.3	3385.0	2983.4	2577.7	2296.9	2103.1	2000.6	1943.1	1943.1
17.5°	3818.8	3817.4	3657.3	3236.1	2670.3	2200.0	1924.8	1774.6	1739.5	1729.7	1728.3
20°	3939.5	3907.2	3630.6	2987.6	2306.7	1819.5	1645.4	1655.3	1707.2	1729.7	1732.5
22.5°	4075.7	3995.7	3552.0	2670.3	1893.9	1555.6	1566.8	1648.3	1724.1	1757.8	1762.0
25°	4214.7	4071.5	3420.0	2298.3	1548.6	1458.7	1545.8	1637.0	1722.7	1766.2	1770.4
27.5°	4270.9	4071.5	3195.4	1867.3	1364.7	1418.0	1513.5	1601.9	1691.8	1742.3	1752.1
30°	4317.2	4036.4	2880.9	1478.4	1288.8	1378.7	1461.5	1543.0	1631.4	1693.2	1704.4
32.5°	4381.8	4005.5	2500.5	1242.5	1253.7	1340.8	1398.3	1467.1	1547.2	1587.9	1583.7
35°	4457.6	3957.8	2041.4	1130.2	1224.3	1308.5	1349.2	1389.9	1353.4	1352.0	1356.2
37.5°	4565.7	3915.6	1641.2	1079.6	1204.6	1286.0	1319.7	1232.7	1182.1	1161.1	1152.7
40°	4721.5	3898.8	1294.5	1050.2	1201.8	1284.6	1260.8	1126.0	1057.2	984.2	982.8
42.5°	4918.1	3886.2	1069.8	1036.1	1211.6	1316.9	1179.3	1055.8	914.0	881.7	878.9
45°	5170.8	3866.5	957.5	1033.3	1235.5	1342.2	1170.9	958.9	862.0	848.0	848.0
47.5°	5475.4	3835.6	907.0	1033.3	1262.2	1331.0	1145.6	937.8	838.2	853.6	863.4
50°	5825.0	3796.3	880.3	1030.5	1288.8	1331.0	1092.3	933.6	832.5	912.6	944.9
52.5°	6198.5	3751.4	862.0	1019.3	1307.1	1332.4	1095.1	947.7	838.2	926.6	953.3
55°	6611.3	3744.4	836.8	995.4	1312.7	1295.9	1102.1	978.6	846.6	839.6	841.0
57.5°	7132.1	3828.6	818.5	960.3	1290.2	1221.4	1116.1	1001.0	836.8	838.2	848.0
60°	7676.9	3987.2	834.0	926.6	1243.9	1151.2	1126.0	989.8	789.0	766.6	769.4
62.5°	8140.2	4108.0	846.6	911.2	1176.5	1089.5	1116.1	964.5	762.4	756.7	769.4
65°	8333.9	4008.3	815.7	878.9	1078.2	1013.7	1095.1	932.2	739.9	718.8	720.2
67.5°	8119.1	3540.8	755.3	807.3	967.3	916.8	1061.4	890.1	709.0	683.7	678.1
70°	6935.6	2601.5	651.4	693.6	832.5	803.1	1009.4	835.4	659.9	641.6	629.0
72.5°	5589.2	1842.0	540.5	551.8	652.8	676.7	919.6	766.6	603.7	551.8	533.5
75°	3890.4	1156.9	450.7	439.4	471.7	516.7	717.4	636.0	520.9	466.1	449.3
77.5°	1673.5	593.9	352.4	346.8	314.5	358.0	550.4	530.7	436.6	373.5	363.6
80°	560.2	344.0	254.1	244.3	209.2	251.3	387.5	424.0	342.6	276.6	259.7
82.5°	280.8	199.4	161.5	146.0	140.4	158.6	228.8	263.9	237.3	190.9	161.5
85°	137.6	113.7	88.4	87.0	73.0	68.8	95.5	112.3	106.7	78.6	74.4
87.5°	50.5	44.9	28.1	22.5	14.0	9.8	5.6	5.6	4.2	4.2	4.2
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)