

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: P636523

Luminaire Tested: GWS-SA3F-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636523
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-SA3F-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19745.6 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

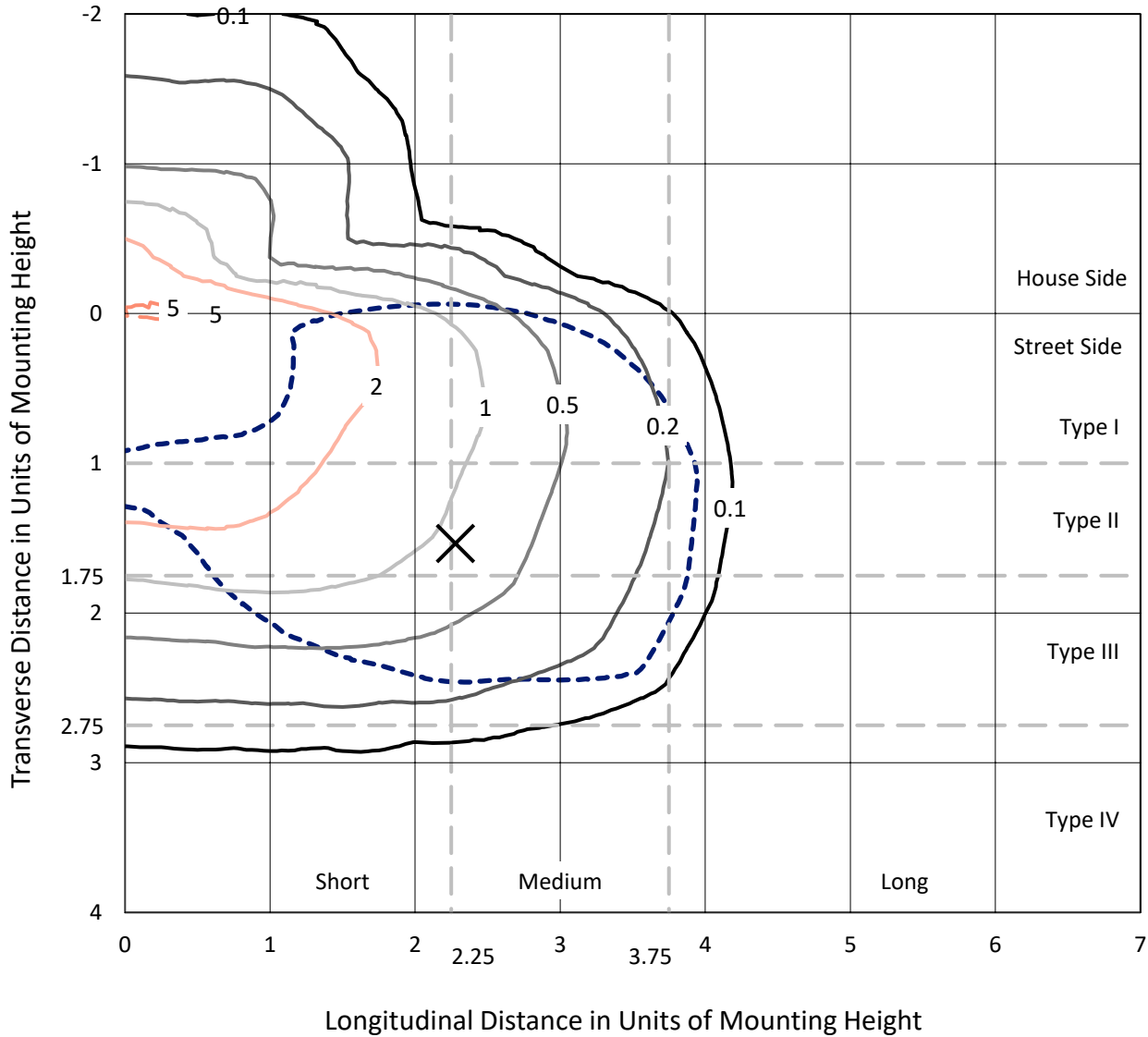
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

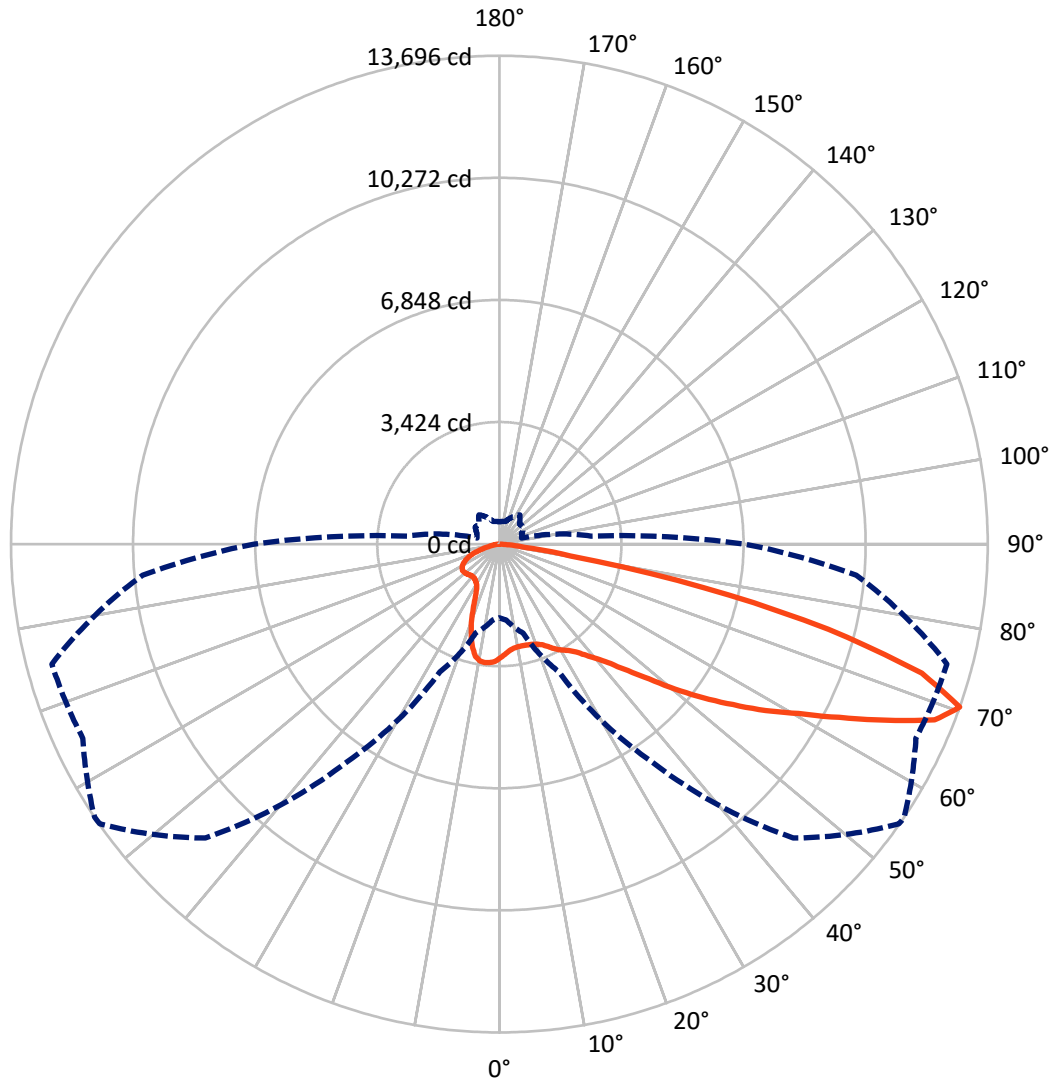
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3796.1	0.0	3796.1
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	15949.5	0.0	15949.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	19745.6	0.0	19745.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.5
10°-20°	799.2	4.0
20°-30°	1321.2	6.7
30°-40°	1975.4	10.0
40°-50°	2939.7	14.9
50°-60°	4179.4	21.2
60°-70°	5176.3	26.2
70°-80°	2858.2	14.5
80°-90°	201.3	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°	19745.6	100.0
0°-180°	19745.6	100.0

Coefficient of Utilization



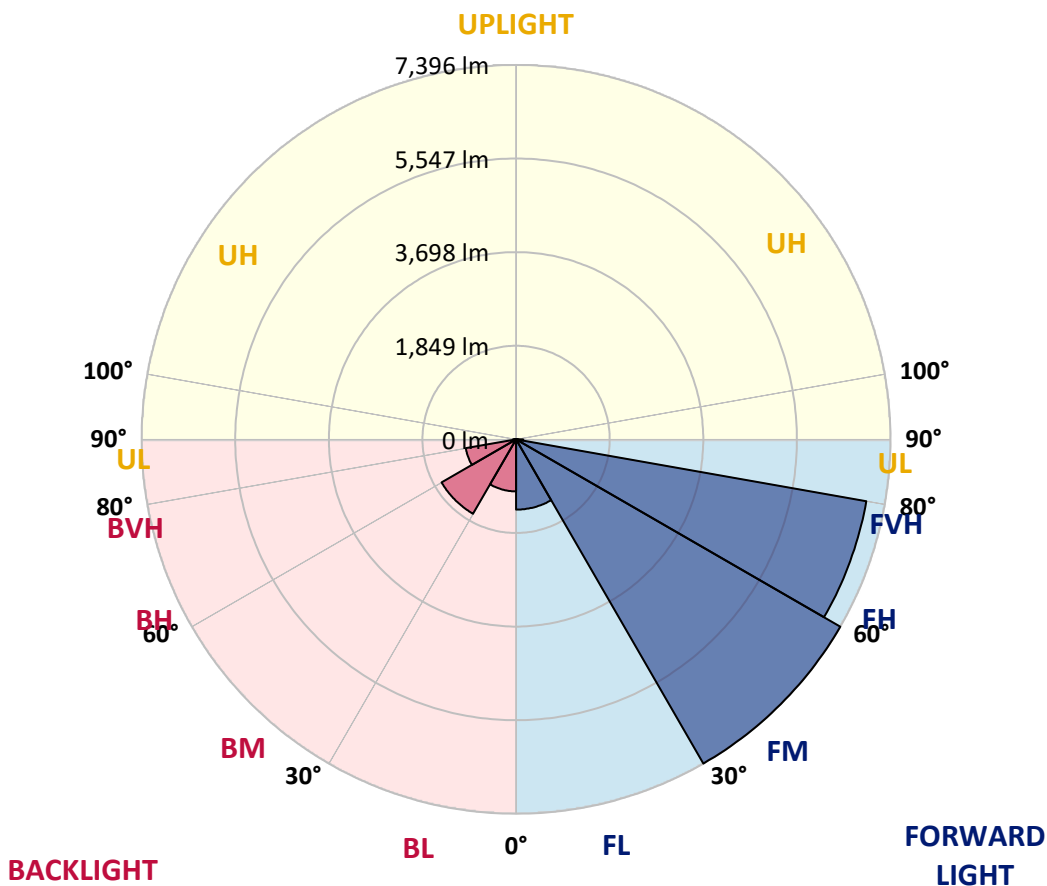
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.7	7.0			
FM (30°-60°)	7396.4	37.5			
FH (60°-80°)	7025.5	35.6			G3/7500
FVH (80°-90°)	139.9	0.7			G2/225
BL (0°-30°)	1027.6	5.2	B3/2500		
BM (30°-60°)	1698.1	8.6	B2/2500		
BH (60°-80°)	1009.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	61.4	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2
2.5°	2982.6	2965.8	2985.3	2995.1	3020.2	3056.4	3088.4	3089.8	3106.5	3146.9	3185.9
5°	2847.5	2839.1	2844.7	2873.9	2900.4	2946.4	2995.1	2999.3	3046.6	3126.0	3204.0
7.5°	2743.1	2731.9	2752.8	2790.4	2823.8	2875.3	2939.4	2945.0	3011.8	3131.5	3251.3
10°	2592.7	2584.3	2623.3	2673.4	2745.8	2830.8	2915.7	2922.7	3010.4	3167.7	3334.8
12.5°	2527.2	2527.2	2543.9	2591.3	2670.7	2783.4	2911.5	2922.7	3032.7	3223.4	3442.1
15°	2628.9	2635.8	2621.9	2619.1	2651.2	2758.4	2917.1	2933.8	3074.5	3280.5	3547.9
17.5°	2833.6	2840.5	2804.3	2747.2	2715.2	2782.1	2938.0	2956.1	3119.0	3343.2	3662.1
20°	3120.4	3128.8	3049.4	2961.7	2851.7	2850.3	2978.4	2995.1	3176.1	3411.4	3783.2
22.5°	3456.0	3461.5	3361.3	3222.1	3053.6	2977.0	3048.0	3064.7	3249.9	3506.1	3914.1
25°	3844.5	3861.2	3740.0	3538.1	3309.8	3151.0	3163.6	3183.1	3382.2	3632.8	4068.6
27.5°	4259.4	4280.3	4141.0	3918.3	3603.6	3343.2	3312.6	3329.3	3522.8	3710.8	4150.8
30°	4684.1	4699.4	4560.2	4305.4	3919.7	3560.4	3437.9	3447.6	3584.1	3748.4	4234.3
32.5°	5156.1	5143.6	5009.9	4716.1	4284.5	3820.8	3554.8	3552.1	3652.3	3823.6	4354.1
35°	5598.9	5617.0	5475.0	5150.6	4685.5	4142.4	3730.3	3719.1	3797.1	3946.1	4522.6
37.5°	6135.0	6129.4	5959.5	5608.7	5087.9	4450.2	3976.7	3957.3	3985.1	4136.9	4757.9
40°	6517.9	6556.9	6446.9	6119.7	5558.5	4828.9	4265.0	4221.8	4228.8	4372.2	5072.6
42.5°	6831.2	6867.4	6878.5	6669.7	6097.4	5296.8	4624.2	4581.1	4585.2	4788.5	5459.7
45°	7072.1	7120.8	7278.2	7216.9	6704.5	5837.0	5110.2	5065.6	5068.4	5294.0	5927.5
47.5°	7170.9	7223.9	7542.7	7688.9	7349.2	6483.1	5714.5	5649.0	5658.8	5908.0	6462.2
50°	7138.9	7209.9	7641.6	8052.4	7889.4	7140.3	6437.1	6391.2	6353.6	6715.6	7042.8
52.5°	6863.2	6941.2	7631.8	8283.5	8330.8	7761.3	7183.5	7157.0	7148.7	7573.4	7691.7
55°	6051.4	6182.3	7296.3	8344.8	8676.2	8346.2	7992.5	7947.9	7991.1	8492.4	8347.5
57.5°	5601.7	5699.2	6639.0	8276.5	8958.8	8903.1	8800.1	8804.3	8853.0	9490.7	9142.6
60°	5345.5	5459.7	6274.2	8089.9	9230.3	9579.8	9645.3	9645.3	9733.0	10567.1	9950.2
62.5°	5005.7	5121.3	5933.1	7730.7	9481.0	10376.3	10707.7	10703.5	10738.3	11721.4	10739.7
65°	4316.5	4423.7	5248.0	7164.0	9603.5	11253.5	11914.9	11902.4	11832.8	12749.0	11261.9
67.5°	3134.3	3236.0	4019.9	6086.3	9162.1	11960.9	13158.3	13163.9	12747.6	13396.4	11289.7
70°	2066.3	2136.0	2584.3	3953.1	7450.8	11655.9	13679.1	13695.8	12888.2	12992.6	10047.7
72.5°	1289.4	1338.1	1613.8	2357.4	4402.8	9226.2	12342.4	12388.3	11594.7	11417.8	8255.6
75°	856.3	889.8	1073.6	1374.3	2037.1	4993.2	9382.1	9529.7	9293.0	8950.5	5752.1
77.5°	515.2	543.0	683.7	873.0	902.3	1950.8	5476.4	5857.9	5891.3	4673.0	2408.9
80°	235.3	267.3	377.3	498.5	480.4	679.5	1931.3	2020.4	2383.8	1484.3	760.3
82.5°	139.2	153.2	250.6	247.9	204.7	330.0	694.8	712.9	605.7	543.0	324.4
85°	55.7	65.4	105.8	93.3	75.2	107.2	261.8	274.3	263.2	236.7	119.7
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	23.7	25.1	36.2	65.4	36.2
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°	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2
2.5°	3210.9	3202.6	3244.3	3276.4	3290.3	3304.2	3291.7	3287.5	3287.5	3259.6	3245.7
5°	3245.7	3249.9	3307.0	3333.4	3333.4	3322.3	3288.9	3265.2	3256.9	3220.7	3210.9
7.5°	3311.2	3329.3	3382.2	3380.8	3341.8	3280.5	3197.0	3132.9	3074.5	3049.4	3034.1
10°	3418.4	3442.1	3478.3	3419.8	3311.2	3149.6	2972.8	2833.6	2750.0	2683.2	2683.2
12.5°	3540.9	3563.2	3556.2	3421.2	3197.0	2894.8	2640.0	2479.9	2362.9	2301.7	2301.7
15°	3663.5	3681.6	3606.4	3357.1	2958.9	2556.5	2278.0	2085.8	1984.2	1927.1	1927.1
17.5°	3787.4	3786.0	3627.2	3209.5	2648.4	2181.9	1909.0	1760.0	1725.2	1715.5	1714.1
20°	3907.1	3875.1	3600.8	2963.1	2287.7	1804.6	1631.9	1641.7	1693.2	1715.5	1718.2
22.5°	4042.2	3962.8	3522.8	2648.4	1878.4	1542.8	1553.9	1634.7	1709.9	1743.3	1747.5
25°	4180.0	4038.0	3391.9	2279.4	1535.8	1446.7	1533.1	1623.6	1708.5	1751.7	1755.8
27.5°	4235.7	4038.0	3169.1	1851.9	1353.4	1406.3	1501.0	1588.7	1677.9	1728.0	1737.7
30°	4281.7	4003.2	2857.2	1466.2	1278.2	1367.4	1449.5	1530.3	1618.0	1679.3	1690.4
32.5°	4345.7	3972.6	2479.9	1232.3	1243.4	1329.8	1386.8	1455.1	1534.4	1574.8	1570.6
35°	4420.9	3925.2	2024.6	1120.9	1214.2	1297.7	1338.1	1378.5	1342.3	1340.9	1345.1
37.5°	4528.1	3883.5	1627.7	1070.8	1194.7	1275.5	1308.9	1222.5	1172.4	1151.5	1143.2
40°	4682.7	3866.7	1283.8	1041.5	1191.9	1274.1	1250.4	1116.7	1048.5	976.1	974.7
42.5°	4877.6	3854.2	1061.0	1027.6	1201.7	1306.1	1169.6	1047.1	906.5	874.4	871.7
45°	5128.3	3834.7	949.6	1024.8	1225.3	1331.2	1161.3	951.0	854.9	841.0	841.0
47.5°	5430.4	3804.1	899.5	1024.8	1251.8	1320.0	1136.2	930.1	831.3	846.6	856.3
50°	5777.1	3765.1	873.0	1022.0	1278.2	1320.0	1083.3	926.0	825.7	905.1	937.1
52.5°	6147.5	3720.5	854.9	1010.9	1296.3	1321.4	1086.1	939.9	831.3	919.0	945.5
55°	6556.9	3713.6	829.9	987.2	1301.9	1285.2	1093.0	970.5	839.6	832.7	834.1
57.5°	7073.5	3797.1	811.8	952.4	1279.6	1211.4	1107.0	992.8	829.9	831.3	841.0
60°	7613.7	3954.5	827.1	919.0	1233.7	1141.8	1116.7	981.7	782.5	760.3	763.0
62.5°	8073.2	4074.2	839.6	903.7	1166.8	1080.5	1107.0	956.6	756.1	750.5	763.0
65°	8265.4	3975.4	809.0	871.7	1069.4	1005.3	1086.1	924.6	733.8	712.9	714.3
67.5°	8052.4	3511.7	749.1	800.6	959.4	909.2	1052.7	882.8	703.2	678.1	672.5
70°	6878.5	2580.1	646.1	687.9	825.7	796.5	1001.1	828.5	654.4	636.3	623.8
72.5°	5543.2	1826.9	536.1	547.2	647.5	671.1	912.0	760.3	598.7	547.2	529.1
75°	3858.4	1147.4	447.0	435.8	467.9	512.4	711.5	630.8	516.6	462.3	445.6
77.5°	1659.8	589.0	349.5	343.9	311.9	355.1	545.8	526.3	433.0	370.4	360.6
80°	555.6	341.1	252.0	242.3	207.5	249.2	384.3	420.5	339.7	274.3	257.6
82.5°	278.5	197.7	160.1	144.8	139.2	157.3	227.0	261.8	235.3	189.4	160.1
85°	136.5	112.8	87.7	86.3	72.4	68.2	94.7	111.4	105.8	78.0	73.8
87.5°	50.1	44.6	27.8	22.3	13.9	9.7	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)