

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: P638560

Luminaire Tested: GWS-SA4F-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

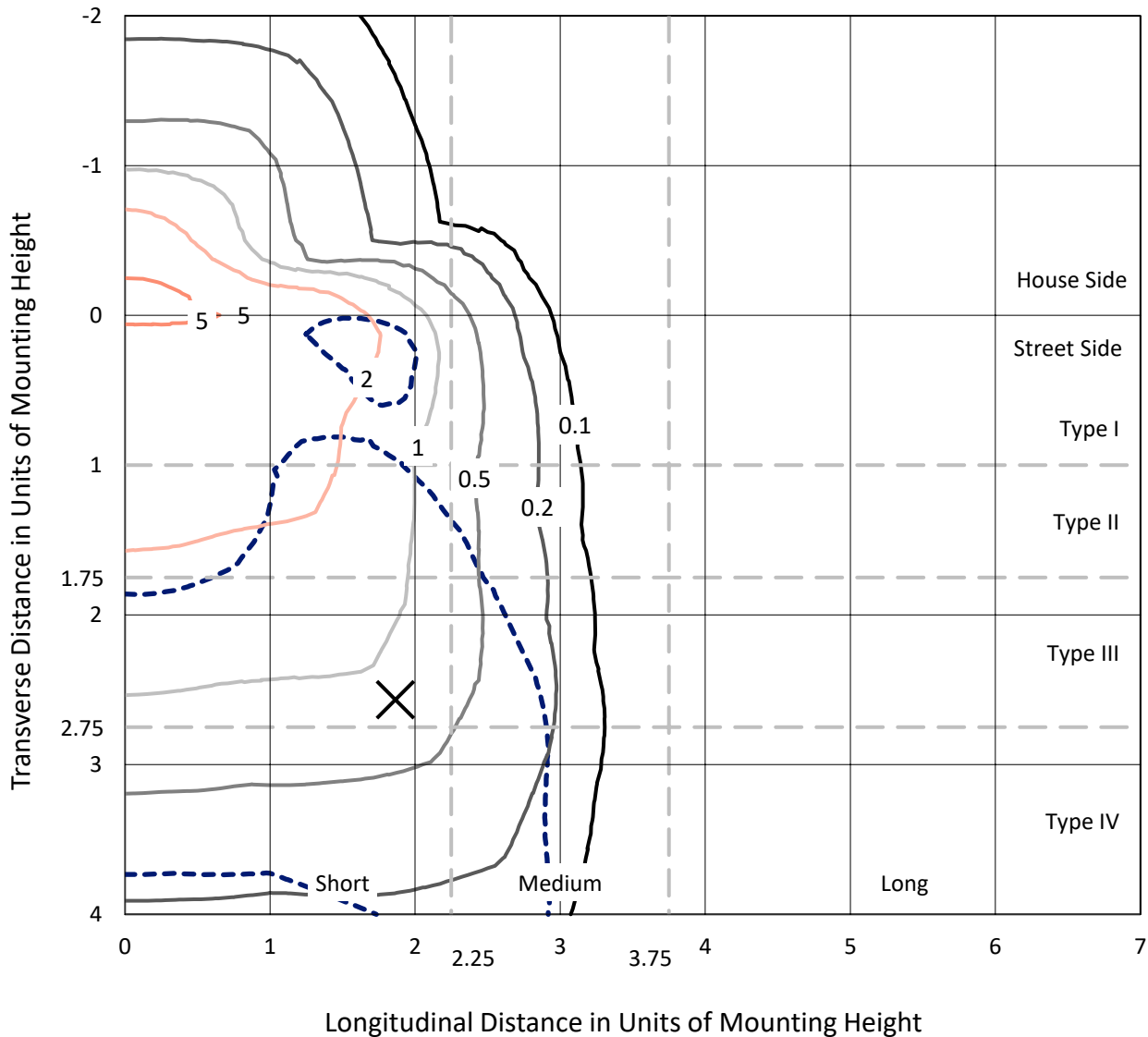
Lumens per Lamp: N/A  
Luminaire Lumens: 24208 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P638560  
 CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

### Iso-Footcandle Lines of Horizontal Illumination

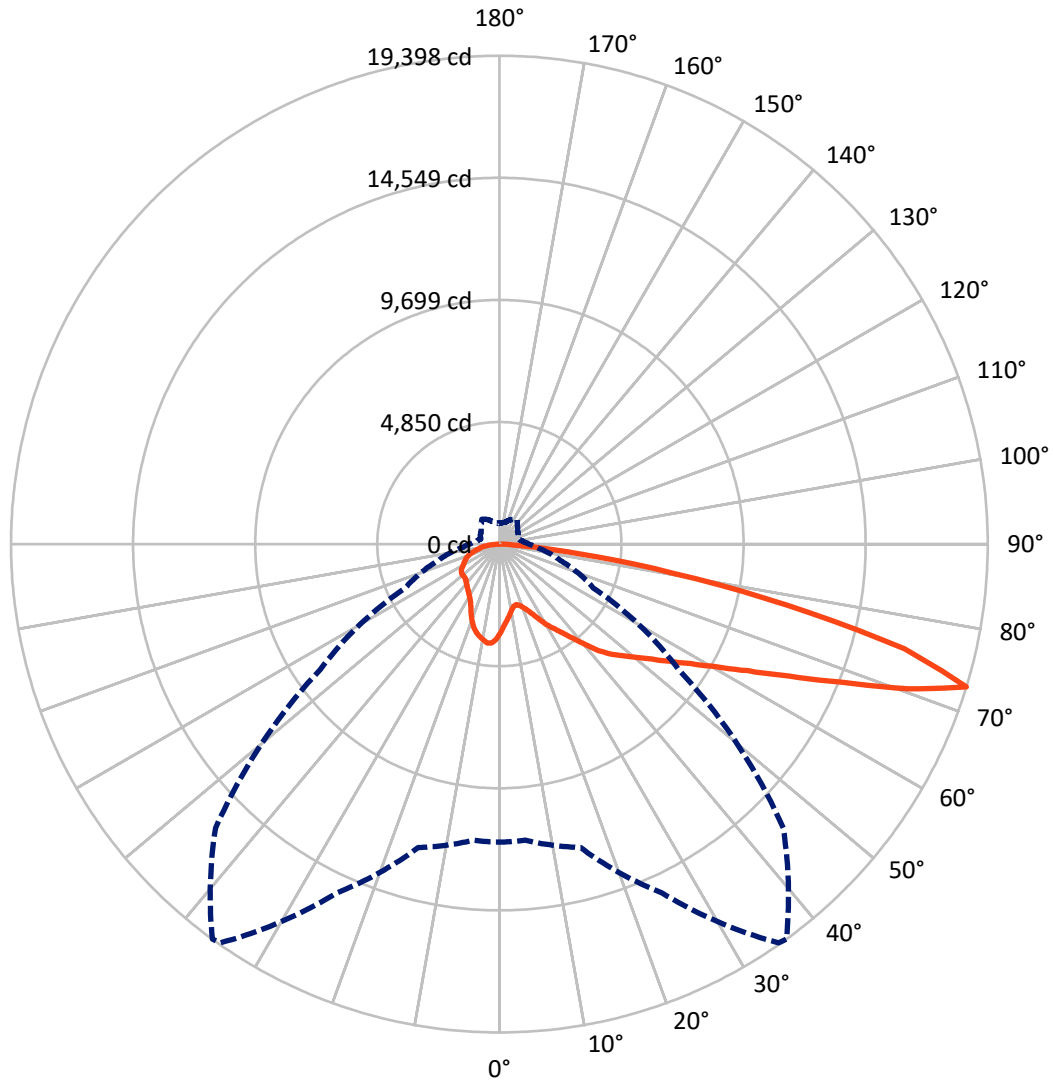
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P638560  
CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P638560

CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5581.0	0.0	5581.0
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	18627.0	0.0	18627.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	24208.0	0.0	24208.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.2	1.4
10°-20°	934.4	3.9
20°-30°	1547.4	6.4
30°-40°	2317.4	9.6
40°-50°	3380.9	14.0
50°-60°	4812.0	19.9
60°-70°	6079.6	25.1
70°-80°	4332.3	17.9
80°-90°	472.9	2.0
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°	24208.0	100.0
0°-180°	24208.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638560

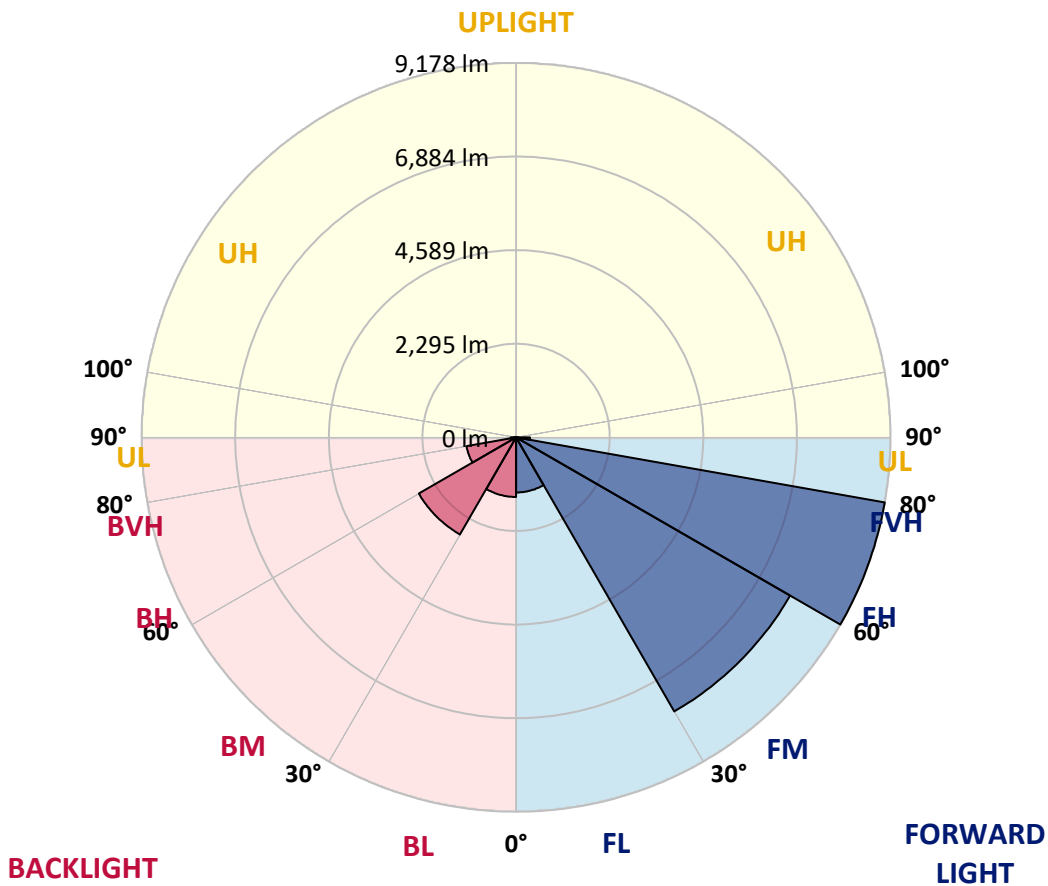
CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.5	5.6			
FM (30°-60°)	7758.1	32.0			
FH (60°-80°)	9178.0	37.9			G4/12000
FVH (80°-90°)	339.5	1.4			G3/500
BL (0°-30°)	1461.5	6.0	B3/2500		
BM (30°-60°)	2752.2	11.4	B3/5000		
BH (60°-80°)	1233.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	133.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





REPORT NUMBER: P638560

CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3232.1	3226.7	3216.0	3248.3	3280.6	3277.0	3322.0	3365.1	3411.8	3460.3	3525.0
5°	2973.4	2969.8	2960.8	3009.4	3057.9	3056.1	3129.7	3199.8	3295.0	3399.2	3528.6
7.5°	2714.7	2705.7	2718.3	2779.4	2847.7	2854.8	2955.5	3070.4	3208.8	3365.1	3548.3
10°	2486.5	2484.7	2490.1	2558.4	2660.8	2668.0	2797.3	2957.2	3140.5	3348.9	3593.3
12.5°	2427.2	2423.7	2409.3	2443.4	2520.7	2531.4	2673.4	2869.2	3093.8	3357.9	3654.3
15°	2524.3	2515.3	2465.0	2448.8	2486.5	2495.5	2615.9	2817.1	3066.8	3374.1	3731.6
17.5°	2691.3	2686.0	2590.7	2524.3	2549.4	2556.6	2646.4	2808.1	3059.7	3406.4	3826.8
20°	2935.7	2912.3	2763.2	2662.6	2662.6	2673.4	2727.3	2847.7	3068.6	3445.9	3934.6
22.5°	3259.1	3212.4	3002.2	2865.6	2829.7	2844.1	2867.4	2946.5	3106.4	3512.4	4069.4
25°	3622.0	3578.9	3329.2	3136.9	3086.6	3092.0	3072.2	3086.6	3189.0	3604.0	4236.4
27.5°	4008.3	3979.5	3713.6	3469.3	3390.2	3390.2	3320.2	3286.0	3304.0	3708.2	4423.3
30°	4353.2	4313.7	4089.1	3821.4	3717.2	3717.2	3584.3	3510.6	3467.5	3835.8	4673.0
32.5°	4534.7	4511.3	4362.2	4157.4	4029.8	4010.1	3895.1	3808.9	3708.2	4024.4	5010.8
35°	4771.8	4766.5	4676.6	4516.7	4355.0	4326.3	4247.2	4179.0	4004.7	4259.8	5460.0
37.5°	5070.1	5061.1	5046.7	4951.5	4757.5	4752.1	4682.0	4599.4	4373.0	4599.4	6004.3
40°	5404.3	5388.1	5370.1	5368.3	5251.5	5231.8	5226.4	5133.0	4816.8	5009.0	6572.1
42.5°	5864.2	5808.5	5639.6	5715.1	5801.3	5783.3	5851.6	5711.5	5370.1	5495.9	7109.3
45°	6430.1	6293.6	5959.4	5981.0	6198.4	6234.3	6471.5	6437.3	5979.2	6058.2	7675.2
47.5°	6769.7	6651.1	6340.3	6322.3	6593.6	6638.5	7154.2	7218.8	6634.9	6735.6	8374.1
50°	7048.2	6965.5	6710.4	6735.6	7023.0	7067.9	7831.5	7969.8	7253.0	7429.1	9186.2
52.5°	7384.1	7265.6	7067.9	7186.5	7538.6	7592.5	8584.3	8733.4	7809.9	8190.8	10027.0
55°	7572.8	7524.3	7527.9	7709.3	8151.3	8225.0	9373.0	9347.9	8320.2	8843.0	10659.4
57.5°	8007.6	7989.6	8154.9	8223.2	8866.4	8961.6	10161.7	9946.1	8783.7	9347.9	10963.0
60°	8774.7	8729.8	8873.5	8977.7	9750.3	9885.0	11042.1	10531.8	9098.1	9723.3	10860.6
62.5°	9852.7	9797.0	9802.4	9967.7	10934.3	11076.2	12021.2	11020.5	9195.1	9780.8	10212.0
65°	11193.0	11112.1	11020.5	11245.1	12506.3	12624.9	13086.6	11376.2	8963.4	9227.5	8857.4
67.5°	12606.9	12540.5	12432.7	12903.4	14541.9	14613.8	14281.4	11345.7	8228.6	7747.1	6212.7
70°	12689.6	12705.7	13216.0	14919.2	17199.1	17217.1	15411.5	10731.3	6663.7	5021.6	3095.6
72.5°	11838.0	11811.0	12475.8	15287.5	19337.1	19398.2	15945.1	8693.9	4117.9	2504.5	1451.7
75°	9615.5	9662.3	10361.2	13375.9	16573.9	16627.8	12998.6	5125.8	1956.5	1225.3	928.9
77.5°	4139.4	4399.9	5778.0	9423.3	11870.3	11703.2	6699.6	2076.9	1043.8	873.2	711.5
80°	1194.8	1297.2	2058.9	4480.8	7112.8	6987.1	2651.8	777.9	727.6	655.8	510.2
82.5°	386.3	427.6	754.6	1784.1	3187.2	3183.6	1006.1	459.9	476.1	445.6	328.8
85°	107.8	124.0	231.8	540.8	986.3	966.6	291.1	217.4	253.3	256.9	163.5
87.5°	0.0	0.0	1.8	3.6	3.6	3.6	7.2	32.3	73.7	93.4	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638560  
 CATALOG NUMBER: GWS-SA4F-722-U-T4FT-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3564.5	3559.1	3632.8	3690.3	3744.2	3780.1	3790.9	3798.1	3812.4	3819.6	3812.4
5°	3589.7	3616.6	3738.8	3828.6	3900.5	3943.6	3945.4	3941.8	3952.6	3943.6	3938.2
7.5°	3643.6	3695.7	3850.2	3945.4	3992.1	3993.9	3950.8	3900.5	3875.3	3853.8	3846.6
10°	3715.4	3792.7	3961.6	4024.4	4010.1	3943.6	3848.4	3769.3	3724.4	3692.1	3684.9
12.5°	3814.2	3900.5	4060.4	4058.6	3968.7	3850.2	3738.8	3643.6	3578.9	3541.2	3528.6
15°	3907.7	4017.3	4132.2	4047.8	3905.9	3762.1	3618.4	3490.8	3404.6	3345.3	3334.5
17.5°	4022.6	4139.4	4184.3	4013.7	3826.8	3641.8	3449.5	3282.4	3165.7	3095.6	3090.2
20°	4155.6	4259.8	4209.5	3954.4	3724.4	3481.9	3221.4	3034.5	2908.7	2840.5	2845.9
22.5°	4310.1	4385.6	4216.7	3873.5	3582.5	3255.5	2964.4	2784.8	2700.3	2664.4	2666.2
25°	4475.4	4523.9	4204.1	3763.9	3365.1	2978.8	2700.3	2617.7	2610.5	2601.5	2605.1
27.5°	4671.2	4660.5	4166.4	3609.4	3072.2	2657.2	2515.3	2536.8	2565.6	2562.0	2565.6
30°	4933.5	4831.1	4117.9	3395.6	2723.7	2387.7	2405.7	2466.8	2504.5	2508.1	2518.9
32.5°	5233.6	5019.8	4040.6	3104.6	2391.3	2236.8	2303.3	2376.9	2421.9	2430.8	2445.2
35°	5591.1	5235.4	3904.1	2741.7	2152.4	2147.0	2208.1	2258.4	2306.9	2310.5	2310.5
37.5°	6002.5	5451.0	3686.7	2341.0	2005.0	2069.7	2127.2	2138.0	2150.6	2139.8	2145.2
40°	6379.8	5659.4	3377.7	1976.3	1884.7	2001.4	2050.0	2014.0	1974.5	1947.5	1952.9
42.5°	6696.0	5801.3	2968.0	1721.2	1762.5	1940.4	1978.1	1904.4	1827.2	1776.9	1784.1
45°	7051.8	5932.5	2486.5	1548.7	1658.3	1897.2	1922.4	1827.2	1728.4	1652.9	1642.1
47.5°	7542.2	6200.2	2058.9	1428.3	1584.6	1873.9	1915.2	1785.8	1656.5	1543.3	1530.7
50°	8147.7	6579.2	1701.4	1349.3	1550.5	1861.3	1913.4	1740.9	1586.4	1453.5	1444.5
52.5°	8808.9	6949.4	1437.3	1288.2	1516.4	1823.6	1904.4	1690.6	1512.8	1369.0	1358.3
55°	9249.0	7094.9	1259.4	1230.7	1460.7	1764.3	1868.5	1642.1	1401.4	1270.2	1254.0
57.5°	9378.4	6908.0	1135.5	1178.6	1388.8	1681.6	1800.2	1539.7	1333.1	1228.9	1216.3
60°	9155.6	6437.3	1058.2	1135.5	1309.7	1575.6	1681.6	1480.4	1279.2	1185.8	1176.8
62.5°	8526.8	5711.5	998.9	1090.6	1228.9	1464.3	1606.2	1408.6	1219.9	1146.2	1133.7
65°	7262.0	4683.8	950.4	1043.8	1151.6	1358.3	1523.5	1336.7	1155.2	1099.5	1085.2
67.5°	5079.1	3289.6	898.3	988.1	1074.4	1255.8	1437.3	1270.2	1088.8	1047.4	1033.1
70°	2482.9	1744.5	835.4	923.5	991.7	1151.6	1351.1	1189.4	1000.7	977.4	957.6
72.5°	1182.2	975.6	761.8	835.4	878.6	1013.3	1207.3	1072.6	896.5	846.2	812.1
75°	792.3	693.5	664.8	731.2	742.0	849.8	1034.9	925.3	790.5	733.0	704.3
77.5°	600.1	530.0	558.8	618.0	596.5	698.9	851.6	824.7	713.3	661.2	646.8
80°	422.2	386.3	443.8	479.7	463.5	594.7	767.2	706.1	587.5	530.0	519.2
82.5°	265.9	258.7	327.0	332.4	337.8	470.7	630.6	555.2	456.3	375.5	348.5
85°	133.0	147.3	195.8	195.8	194.0	242.5	359.3	312.6	246.1	195.8	190.4
87.5°	44.9	62.9	84.4	68.3	52.1	41.3	46.7	57.5	61.1	59.3	59.3
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)