

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: P636417

Luminaire Tested: GWS-SA3F-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

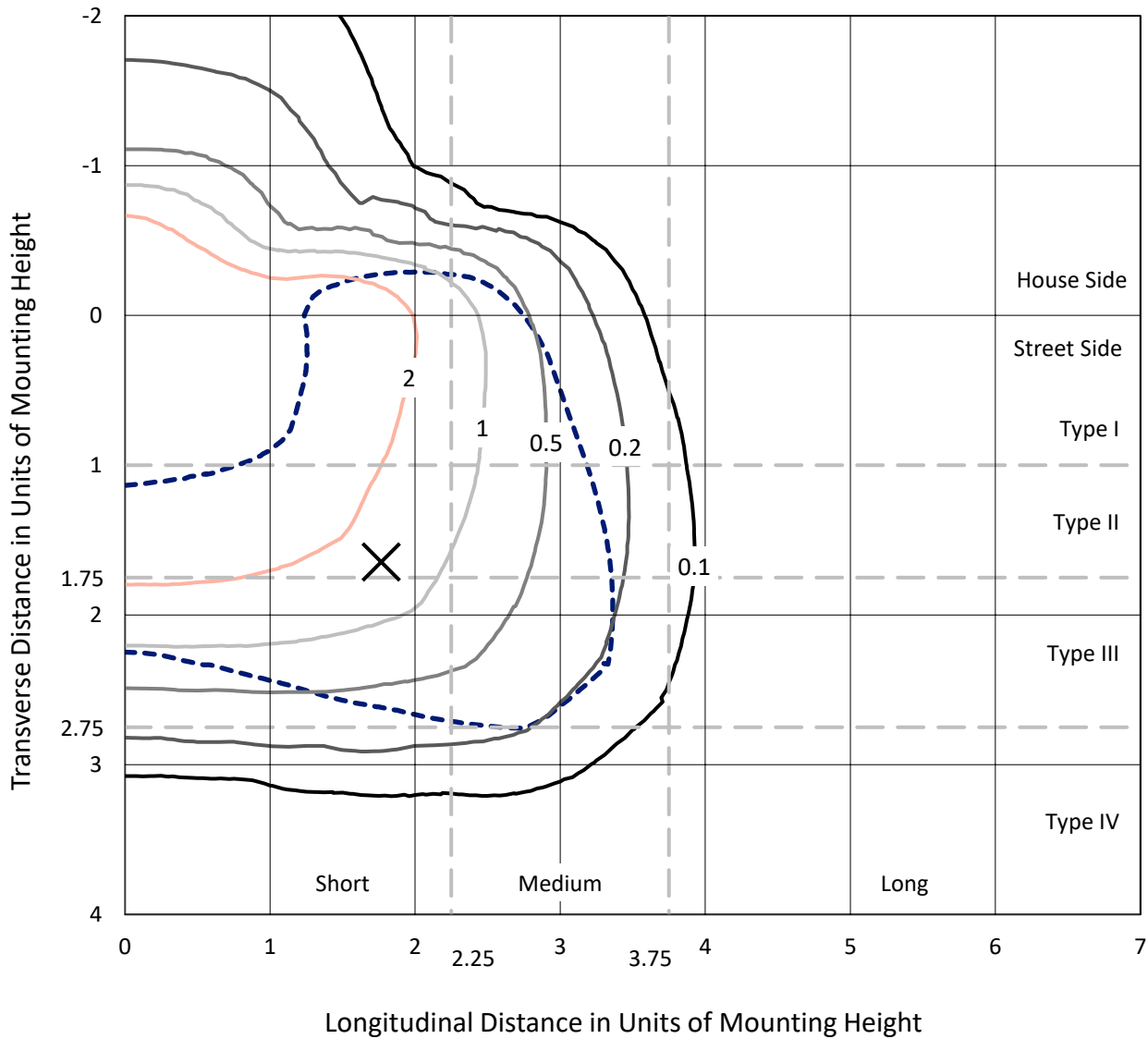
Lumens per Lamp: N/A  
Luminaire Lumens: 24456.8 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

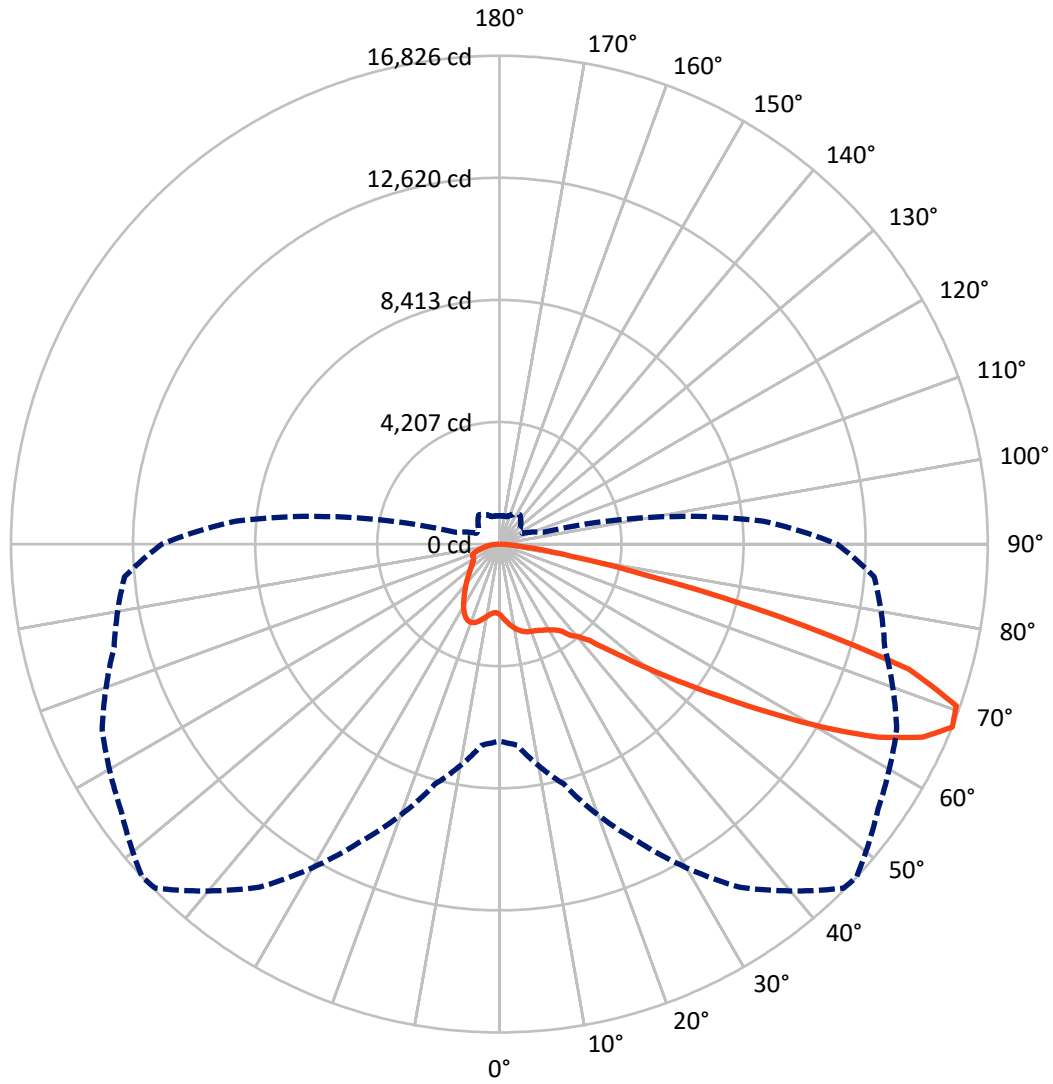
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5573.9	0.0	5573.9
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	18882.9	0.0	18882.9
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	24456.8	0.0	24456.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.8	1.0
10°-20°	825.5	3.4
20°-30°	1403.2	5.7
30°-40°	2055.5	8.4
40°-50°	3131.8	12.8
50°-60°	5603.4	22.9
60°-70°	7477.1	30.6
70°-80°	3381.3	13.8
80°-90°	331.3	1.4
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°	24456.8	100.0
0°-180°	24456.8	100.0

**Coefficient of Utilization**



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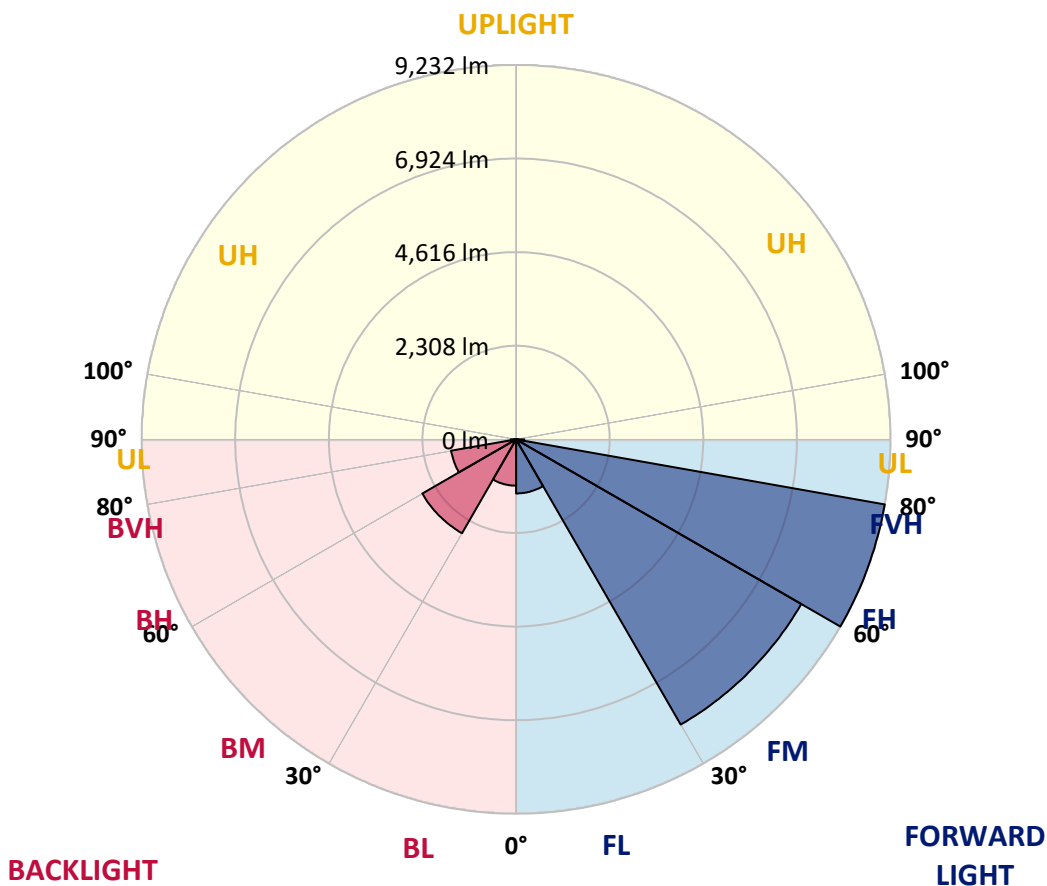
CATALOG NUMBER: GWS-SA3F-760-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.8	5.5			
FM (30°-60°)	8119.9	33.2			
FH (60°-80°)	9232.2	37.7			G4/12000
FVH (80°-90°)	197.1	0.8			G2/225
BL (0°-30°)	1142.7	4.7	B3/2500		
BM (30°-60°)	2670.7	10.9	B3/5000		
BH (60°-80°)	1626.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	134.2	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2585.4	2594.2	2592.4	2578.3	2569.4	2553.5	2555.3	2530.5	2493.4	2468.7	2440.4
5°	2813.5	2827.6	2809.9	2787.0	2751.6	2700.3	2695.0	2638.4	2567.7	2518.2	2466.9
7.5°	3011.5	3020.4	2999.2	2960.3	2909.0	2840.0	2827.6	2760.4	2672.0	2594.2	2519.9
10°	3165.4	3176.0	3147.7	3096.4	3029.2	2960.3	2951.4	2882.5	2788.7	2696.8	2603.0
12.5°	3296.3	3299.8	3269.7	3200.8	3128.3	3057.5	3048.7	2985.0	2898.4	2804.6	2702.1
15°	3372.3	3374.1	3336.9	3260.9	3191.9	3130.0	3124.7	3069.9	2990.3	2901.9	2792.3
17.5°	3367.0	3370.5	3344.0	3276.8	3216.7	3179.5	3174.2	3138.9	3077.0	2997.4	2887.8
20°	3301.6	3305.1	3287.4	3243.2	3211.4	3200.8	3202.5	3191.9	3154.8	3089.4	2977.9
22.5°	3250.3	3255.6	3239.7	3207.8	3204.3	3229.1	3234.4	3239.7	3222.0	3163.6	3055.8
25°	3275.0	3283.9	3259.1	3214.9	3222.0	3276.8	3287.4	3305.1	3290.9	3241.4	3147.7
27.5°	3446.6	3451.9	3388.2	3298.0	3276.8	3335.2	3351.1	3379.4	3368.8	3322.8	3250.3
30°	3844.4	3840.9	3704.7	3483.7	3395.3	3418.3	3430.6	3471.3	3474.9	3444.8	3375.8
32.5°	4405.0	4387.3	4176.9	3825.0	3568.6	3512.0	3526.1	3581.0	3621.6	3589.8	3496.1
35°	4997.4	4981.5	4749.9	4337.8	3888.7	3692.4	3676.5	3718.9	3780.8	3692.4	3558.0
37.5°	5561.5	5536.8	5299.8	4790.5	4283.0	4008.9	3985.9	3943.5	3906.3	3736.6	3634.0
40°	6187.5	6159.3	5952.4	5375.9	4718.0	4251.2	4192.8	4024.8	3991.2	3883.4	3832.1
42.5°	6856.0	6856.0	6684.5	6116.8	5243.2	4597.8	4521.7	4268.9	4304.2	4233.5	4173.4
45°	7524.4	7543.9	7407.7	6863.1	5945.3	5252.1	5130.1	4771.1	4856.0	4824.1	4794.1
47.5°	8093.9	8131.0	8104.5	7625.2	6804.7	6047.8	5862.2	5489.0	5671.2	5747.2	5832.1
50°	8707.5	8748.2	8721.6	8532.4	7810.9	7011.6	6845.4	6459.9	6772.9	7001.0	7278.6
52.5°	9618.2	9676.6	9455.5	9383.0	9032.9	8106.2	7957.7	7519.1	8086.8	8465.2	9084.1
55°	10387.4	10385.7	10307.9	10474.1	10345.0	9444.9	9280.4	8882.6	9607.6	10009.0	10914.4
57.5°	10744.6	10787.1	11054.1	11524.5	11782.7	11080.6	10923.3	10516.5	11239.8	11448.5	12426.4
60°	10928.6	10981.6	11498.0	12428.1	13123.1	12866.7	12804.8	12286.7	12693.4	12668.6	13701.4
62.5°	10670.4	10776.5	11605.8	12841.9	14079.8	14661.6	14642.1	13858.8	13929.5	13687.2	14491.8
65°	9485.6	9600.5	10902.0	12635.0	14626.2	16026.8	16032.1	15282.3	14879.1	14182.4	14359.2
67.5°	6783.5	6947.9	8557.2	11305.2	14433.5	16764.2	16826.1	15927.8	15101.9	13743.8	12965.7
70°	3697.7	3817.9	5078.8	8217.6	12696.9	16587.4	16702.3	15616.5	14118.7	11888.8	9980.7
72.5°	1680.0	1718.9	2362.5	4509.4	8673.9	14277.9	14758.9	13936.6	11595.2	8781.8	6346.7
75°	769.2	786.9	1029.2	2157.4	4532.3	9554.5	9892.3	10380.4	8069.1	5545.6	3308.6
77.5°	482.8	488.1	585.3	986.8	2260.0	4769.3	5124.8	6180.5	4725.1	2744.5	1382.9
80°	284.7	290.0	364.3	534.0	1061.0	2182.2	2519.9	2443.9	2221.1	1184.8	629.5
82.5°	143.2	148.5	210.4	304.2	578.3	868.3	1022.1	1027.4	827.6	641.9	355.4
85°	51.3	53.1	69.0	120.2	245.8	286.5	320.1	390.8	405.0	373.1	171.5
87.5°	0.0	0.0	1.8	3.5	7.1	28.3	30.1	56.6	118.5	132.6	69.0
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°	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4	2424.4
2.5°	2431.5	2405.0	2396.1	2387.3	2373.2	2367.9	2357.2	2346.6	2346.6	2336.0	2330.7
5°	2443.9	2408.5	2385.5	2374.9	2366.1	2371.4	2371.4	2374.9	2387.3	2380.2	2383.8
7.5°	2488.1	2447.4	2415.6	2406.8	2406.8	2428.0	2442.1	2459.8	2482.8	2486.3	2486.3
10°	2565.9	2518.2	2484.6	2479.3	2488.1	2518.2	2539.4	2560.6	2588.9	2590.7	2594.2
12.5°	2650.8	2603.0	2569.4	2576.5	2585.4	2624.3	2647.3	2664.9	2693.2	2693.2	2691.5
15°	2739.2	2686.2	2657.9	2672.0	2698.5	2742.8	2746.3	2748.1	2762.2	2758.7	2756.9
17.5°	2831.2	2774.6	2753.4	2774.6	2802.9	2824.1	2806.4	2781.7	2776.3	2769.3	2765.7
20°	2921.4	2863.0	2854.2	2870.1	2878.9	2861.2	2806.4	2760.4	2739.2	2728.6	2725.1
22.5°	2999.2	2949.7	2944.3	2944.3	2900.1	2838.2	2756.9	2695.0	2666.7	2652.6	2649.0
25°	3091.1	3045.1	3036.3	2988.6	2875.4	2762.2	2652.6	2596.0	2573.0	2565.9	2567.7
27.5°	3199.0	3167.2	3138.9	3002.7	2804.6	2627.8	2504.0	2479.3	2470.4	2479.3	2484.6
30°	3331.6	3299.8	3236.1	2985.0	2691.5	2452.7	2334.3	2332.5	2359.0	2382.0	2385.5
32.5°	3439.5	3425.3	3321.0	2928.4	2532.3	2260.0	2159.2	2166.3	2214.0	2245.8	2251.1
35°	3524.4	3547.4	3391.7	2834.7	2343.1	2077.8	1998.3	2001.8	2028.3	2072.5	2074.3
37.5°	3644.6	3722.4	3455.4	2691.5	2125.6	1920.5	1848.0	1821.4	1817.9	1830.3	1833.8
40°	3886.9	4003.6	3501.4	2482.8	1915.2	1779.0	1697.6	1646.4	1602.1	1568.5	1557.9
42.5°	4252.9	4387.3	3527.9	2229.9	1727.7	1639.3	1547.3	1481.9	1404.1	1333.4	1308.6
45°	4924.9	4969.1	3527.9	1961.1	1561.5	1508.4	1416.5	1338.7	1239.6	1156.5	1138.8
47.5°	6000.1	5858.6	3531.4	1701.2	1414.7	1393.5	1313.9	1225.5	1115.8	1046.9	1036.3
50°	7619.9	7123.0	3603.9	1485.4	1292.7	1296.2	1237.9	1140.6	1041.6	990.3	981.4
52.5°	9455.5	8681.0	3798.5	1326.3	1190.1	1216.6	1184.8	1091.1	1002.7	958.5	949.6
55°	11181.4	10113.3	3964.7	1213.1	1103.5	1149.4	1147.7	1061.0	981.4	937.2	931.9
57.5°	12649.2	11094.8	3939.9	1121.2	1029.2	1087.6	1114.1	1041.6	967.3	930.2	924.9
60°	13561.7	11614.7	3588.0	1036.3	972.6	1043.3	1094.6	1036.3	974.4	965.5	967.3
62.5°	13957.8	11519.2	2912.5	972.6	935.5	1022.1	1115.8	1073.4	1039.8	1061.0	1073.4
65°	13342.4	10698.7	2143.3	924.9	900.1	1027.4	1165.4	1131.8	1039.8	1054.0	1059.3
67.5°	11634.1	9107.1	1549.1	877.1	855.9	1043.3	1236.1	1122.9	979.7	979.7	969.1
70°	8383.9	6550.1	1124.7	829.4	811.7	1020.4	1239.6	1062.8	910.7	905.4	878.9
72.5°	5045.2	3863.9	877.1	776.3	744.5	905.4	1161.8	992.1	843.5	799.3	767.5
75°	2620.7	1936.4	735.6	718.0	638.4	767.5	1062.8	882.4	721.5	682.6	664.9
77.5°	1122.9	905.4	631.3	640.2	530.5	645.5	857.7	763.9	640.2	590.6	574.7
80°	553.5	514.6	498.7	512.8	424.4	498.7	739.2	668.4	542.9	486.3	463.3
82.5°	316.5	300.6	359.0	364.3	302.4	417.3	624.2	565.9	449.2	387.3	350.1
85°	146.8	157.4	217.5	219.3	187.4	286.5	408.5	318.3	238.7	198.1	189.2
87.5°	58.4	69.0	95.5	93.7	54.8	53.1	35.4	19.5	15.9	14.1	12.4
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)