

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: P637735

Luminaire Tested: GWS-SA4D-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637735  
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-SA4D-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

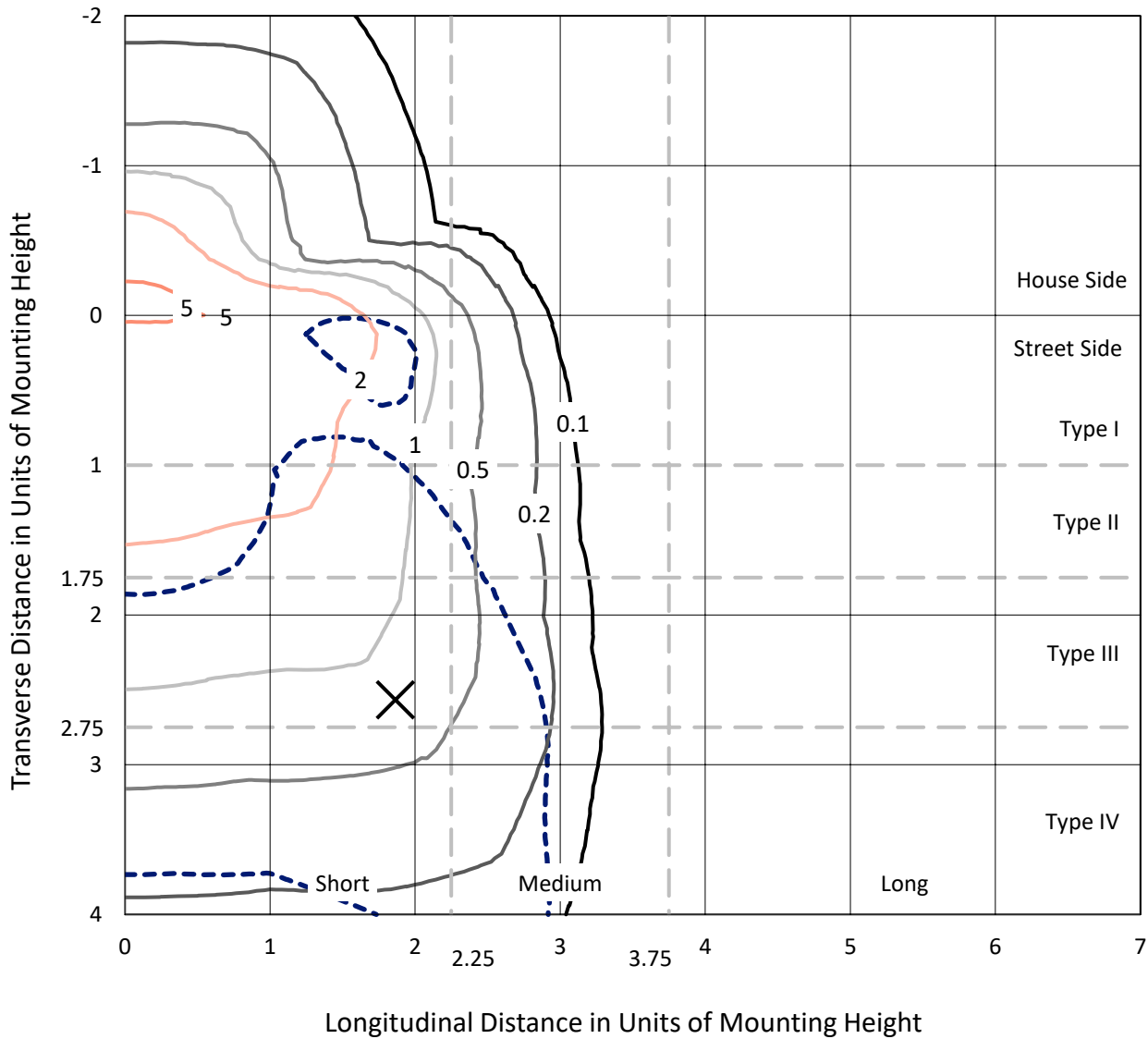
Lumens per Lamp: N/A  
Luminaire Lumens: 23330 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

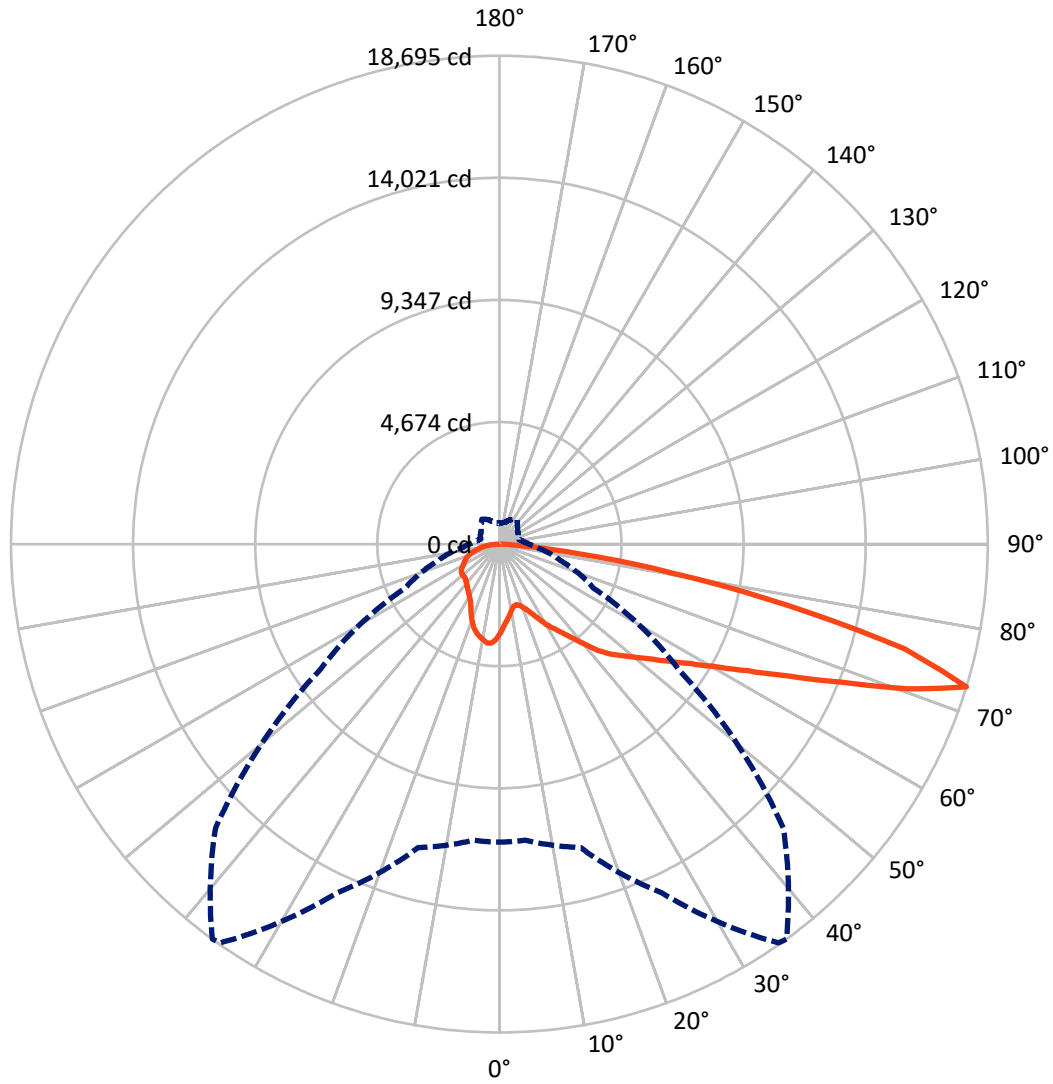
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5378.6	0.0	5378.6
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	17951.4	0.0	17951.4
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	23330.0	0.0	23330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.2	1.4
10°-20°	900.5	3.9
20°-30°	1491.3	6.4
30°-40°	2233.3	9.6
40°-50°	3258.2	14.0
50°-60°	4637.5	19.9
60°-70°	5859.1	25.1
70°-80°	4175.1	17.9
80°-90°	455.8	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°	23330.0	100.0
0°-180°	23330.0	100.0

**Coefficient of Utilization**

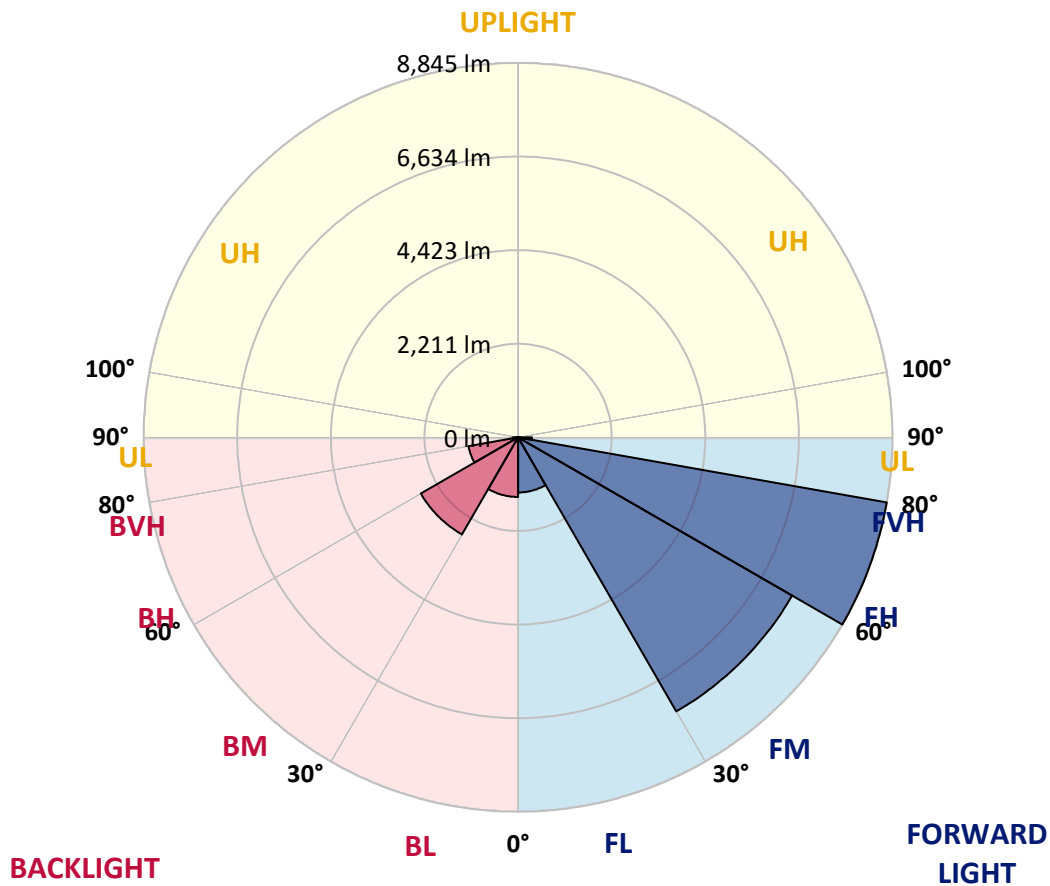


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.4	5.6			
FM (30°-60°)	7476.7	32.0			
FH (60°-80°)	8845.2	37.9			G4/12000
FVH (80°-90°)	327.1	1.4			G3/500
BL (0°-30°)	1408.5	6.0	B3/2500		
BM (30°-60°)	2652.4	11.4	B3/5000		
BH (60°-80°)	1189.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	128.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4
2.5°	3114.9	3109.7	3099.3	3130.5	3161.7	3158.2	3201.5	3243.0	3288.1	3334.8	3397.1
5°	2865.6	2862.1	2853.5	2900.2	2947.0	2945.2	3016.2	3083.7	3175.5	3275.9	3400.6
7.5°	2616.2	2607.6	2619.7	2678.6	2744.4	2751.3	2848.3	2959.1	3092.4	3243.0	3419.6
10°	2396.3	2394.6	2399.8	2465.6	2564.3	2571.2	2695.9	2850.0	3026.6	3227.5	3462.9
12.5°	2339.2	2335.7	2321.9	2354.8	2429.2	2439.6	2576.4	2765.2	2981.6	3236.1	3521.8
15°	2432.7	2424.1	2375.6	2360.0	2396.3	2405.0	2521.0	2714.9	2955.6	3251.7	3596.3
17.5°	2593.7	2588.5	2496.8	2432.7	2456.9	2463.9	2550.4	2706.3	2948.7	3282.9	3688.0
20°	2829.2	2806.7	2663.0	2566.0	2566.0	2576.4	2628.4	2744.4	2957.3	3321.0	3791.9
22.5°	3140.9	3095.9	2893.3	2761.7	2727.1	2740.9	2763.4	2839.6	2993.7	3385.0	3921.8
25°	3490.6	3449.1	3208.4	3023.1	2974.7	2979.9	2960.8	2974.7	3073.4	3473.3	4082.8
27.5°	3862.9	3835.2	3578.9	3343.5	3267.3	3267.3	3199.7	3166.9	3184.2	3573.7	4262.9
30°	4195.3	4157.2	3940.8	3682.8	3582.4	3582.4	3454.3	3383.3	3341.7	3696.7	4503.5
32.5°	4370.2	4347.7	4204.0	4006.6	3883.7	3864.6	3753.8	3670.7	3573.7	3878.5	4829.1
35°	4598.8	4593.6	4507.0	4352.9	4197.1	4169.4	4093.2	4027.4	3859.4	4105.3	5261.9
37.5°	4886.2	4877.5	4863.7	4771.9	4584.9	4579.7	4512.2	4432.6	4214.4	4432.6	5786.6
40°	5208.2	5192.7	5175.4	5173.6	5061.1	5042.0	5036.8	4946.8	4642.1	4827.3	6333.7
42.5°	5651.5	5597.8	5435.1	5507.8	5590.9	5573.6	5639.4	5504.3	5175.4	5296.6	6851.4
45°	6196.9	6065.3	5743.3	5764.0	5973.6	6008.2	6236.7	6203.8	5762.3	5838.5	7396.8
47.5°	6524.2	6409.9	6110.3	6093.0	6354.5	6397.8	6894.7	6957.0	6394.3	6491.3	8070.4
50°	6792.5	6712.9	6467.0	6491.3	6768.3	6811.6	7547.5	7680.8	6989.9	7159.6	8853.0
52.5°	7116.3	7002.0	6811.6	6925.9	7265.2	7317.2	8272.9	8416.7	7526.7	7893.8	9663.3
55°	7298.1	7251.4	7254.8	7429.7	7855.7	7926.6	9033.1	9008.8	8018.4	8522.3	10272.8
57.5°	7717.1	7699.8	7859.1	7924.9	8544.8	8636.5	9793.2	9585.4	8465.1	9008.8	10565.4
60°	8456.5	8413.2	8551.7	8652.1	9396.7	9526.5	10641.6	10149.9	8768.1	9370.7	10466.7
62.5°	9495.4	9441.7	9446.9	9606.2	10537.7	10674.5	11585.2	10620.8	8861.6	9426.1	9841.6
65°	10787.0	10709.1	10620.8	10837.2	12052.7	12167.0	12612.0	10963.6	8638.3	8892.8	8536.1
67.5°	12149.7	12085.6	11981.7	12435.4	14014.5	14083.7	13763.4	10934.2	7930.1	7466.1	5987.4
70°	12229.3	12244.9	12736.7	14378.1	16575.3	16592.6	14852.5	10342.0	6422.0	4839.4	2983.3
72.5°	11408.6	11382.7	12023.3	14733.0	18635.8	18694.6	15366.8	8378.6	3968.5	2413.7	1399.0
75°	9266.8	9311.8	9985.4	12890.8	15972.8	16024.7	12527.2	4939.9	1885.6	1180.9	895.2
77.5°	3989.3	4240.4	5568.4	9081.5	11439.8	11278.8	6456.6	2001.6	1006.0	841.5	685.7
80°	1151.4	1250.1	1984.3	4318.3	6854.9	6733.7	2555.6	749.7	701.2	632.0	491.7
82.5°	372.3	412.1	727.2	1719.3	3071.6	3068.2	969.6	443.3	458.8	429.4	316.9
85°	103.9	119.5	223.4	521.2	950.6	931.5	280.5	209.5	244.1	247.6	157.6
87.5°	0.0	0.0	1.7	3.5	3.5	3.5	6.9	31.2	71.0	90.0	64.1
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°	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4	3414.4
2.5°	3435.2	3430.0	3501.0	3556.4	3608.4	3643.0	3653.4	3660.3	3674.2	3681.1	3674.2
5°	3459.5	3485.4	3603.2	3689.8	3759.0	3800.6	3802.3	3798.8	3809.2	3800.6	3795.4
7.5°	3511.4	3561.6	3710.5	3802.3	3847.3	3849.0	3807.5	3759.0	3734.8	3714.0	3707.1
10°	3580.7	3655.1	3817.9	3878.5	3864.6	3800.6	3708.8	3632.6	3589.3	3558.2	3551.2
12.5°	3675.9	3759.0	3913.1	3911.4	3824.8	3710.5	3603.2	3511.4	3449.1	3412.7	3400.6
15°	3765.9	3871.6	3982.4	3901.0	3764.2	3625.7	3487.2	3364.2	3281.1	3224.0	3213.6
17.5°	3876.8	3989.3	4032.6	3868.1	3688.0	3509.7	3324.4	3163.4	3050.8	2983.3	2978.1
20°	4004.9	4105.3	4056.8	3811.0	3589.3	3355.6	3104.5	2924.4	2803.2	2737.4	2742.6
22.5°	4153.8	4226.5	4063.7	3733.0	3452.5	3137.4	2856.9	2683.8	2602.4	2567.8	2569.5
25°	4313.1	4359.8	4051.6	3627.4	3243.0	2870.8	2602.4	2522.7	2515.8	2507.2	2510.6
27.5°	4501.8	4491.4	4015.3	3478.5	2960.8	2560.8	2424.1	2444.8	2472.5	2469.1	2472.5
30°	4754.6	4655.9	3968.5	3272.5	2624.9	2301.1	2318.4	2377.3	2413.7	2417.1	2427.5
32.5°	5043.8	4837.7	3894.1	2992.0	2304.6	2155.7	2219.7	2290.7	2334.0	2342.7	2356.5
35°	5388.3	5045.5	3762.5	2642.2	2074.3	2069.1	2128.0	2176.5	2223.2	2226.7	2226.7
37.5°	5784.8	5253.3	3553.0	2256.1	1932.3	1994.6	2050.1	2060.4	2072.6	2062.2	2067.4
40°	6148.4	5454.1	3255.2	1904.6	1816.3	1928.9	1975.6	1941.0	1902.9	1876.9	1882.1
42.5°	6453.2	5590.9	2860.4	1658.7	1698.6	1870.0	1906.3	1835.4	1760.9	1712.4	1719.3
45°	6796.0	5717.3	2396.3	1492.5	1598.1	1828.4	1852.7	1760.9	1665.7	1592.9	1582.6
47.5°	7268.7	5975.3	1984.3	1376.5	1527.2	1805.9	1845.7	1721.1	1596.4	1487.3	1475.2
50°	7852.2	6340.6	1639.7	1300.3	1494.3	1793.8	1844.0	1677.8	1528.9	1400.8	1392.1
52.5°	8489.4	6697.3	1385.2	1241.5	1461.4	1757.4	1835.4	1629.3	1457.9	1319.4	1309.0
55°	8913.6	6837.6	1213.8	1186.1	1407.7	1700.3	1800.7	1582.6	1350.5	1224.1	1208.6
57.5°	9038.2	6657.5	1094.3	1135.8	1338.4	1620.7	1734.9	1483.9	1284.7	1184.3	1172.2
60°	8823.5	6203.8	1019.8	1094.3	1262.2	1518.5	1620.7	1426.7	1232.8	1142.8	1134.1
62.5°	8217.5	5504.3	962.7	1051.0	1184.3	1411.1	1547.9	1357.5	1175.7	1104.7	1092.6
65°	6998.6	4513.9	915.9	1006.0	1109.9	1309.0	1468.3	1288.2	1113.3	1059.7	1045.8
67.5°	4894.9	3170.3	865.7	952.3	1035.4	1210.3	1385.2	1224.1	1049.3	1009.4	995.6
70°	2392.9	1681.3	805.1	890.0	955.8	1109.9	1302.1	1146.2	964.4	941.9	922.9
72.5°	1139.3	940.2	734.1	805.1	846.7	976.5	1163.5	1033.7	864.0	815.5	782.6
75°	763.6	668.3	640.6	704.7	715.1	819.0	997.3	891.7	761.8	706.4	678.7
77.5°	578.3	510.8	538.5	595.6	574.8	673.5	820.7	794.7	687.4	637.2	623.3
80°	406.9	372.3	427.7	462.3	446.7	573.1	739.3	680.5	566.2	510.8	500.4
82.5°	256.3	249.3	315.1	320.3	325.5	453.6	607.7	535.0	439.8	361.9	335.9
85°	128.1	142.0	188.7	188.7	187.0	233.7	346.3	301.3	237.2	188.7	183.5
87.5°	43.3	60.6	81.4	65.8	50.2	39.8	45.0	55.4	58.9	57.1	57.1
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)