

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: P642190

Luminaire Tested: GWS-SA6C-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642190  
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-SA6C-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

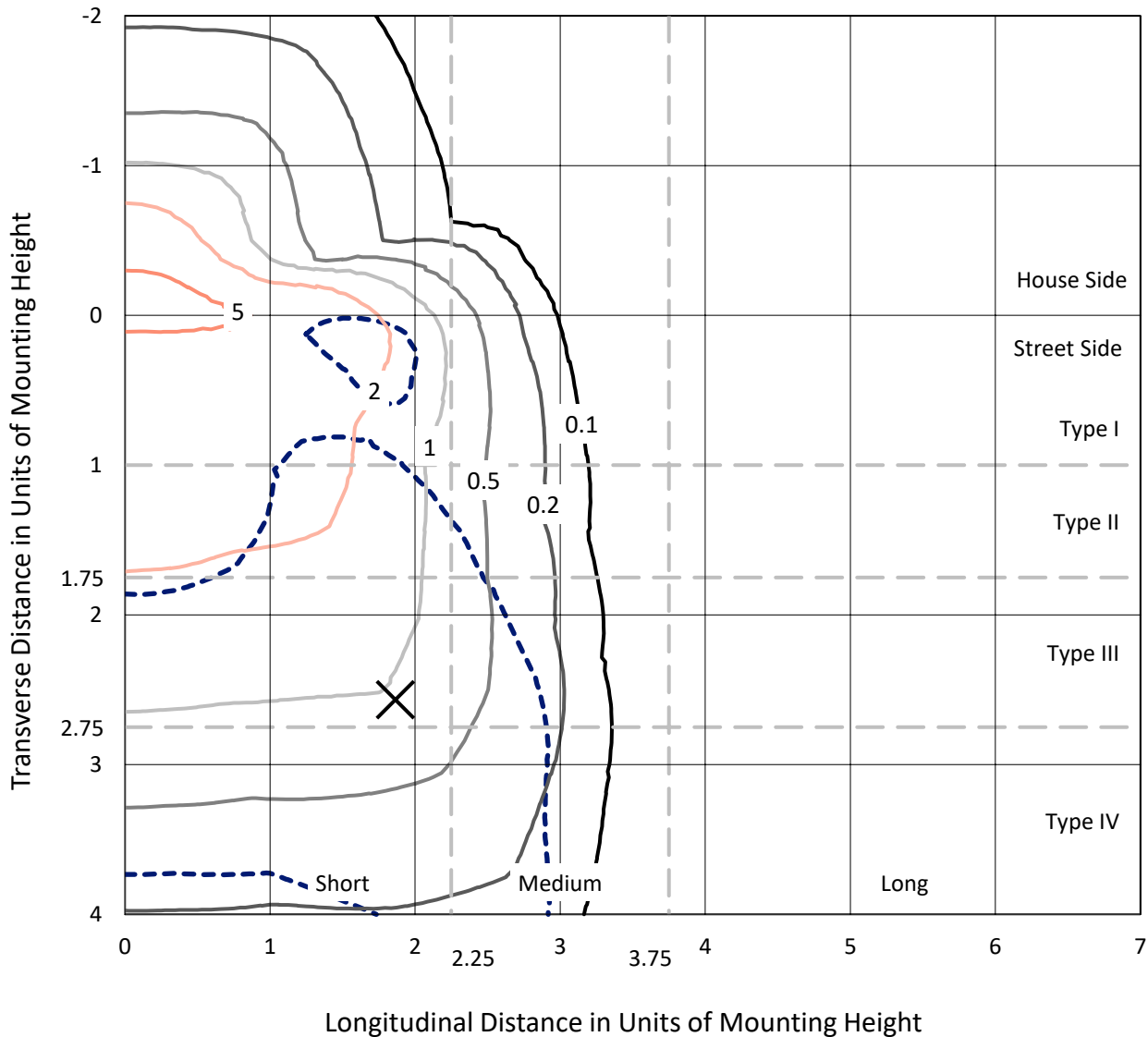
Lumens per Lamp: N/A  
Luminaire Lumens: 27050.9 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

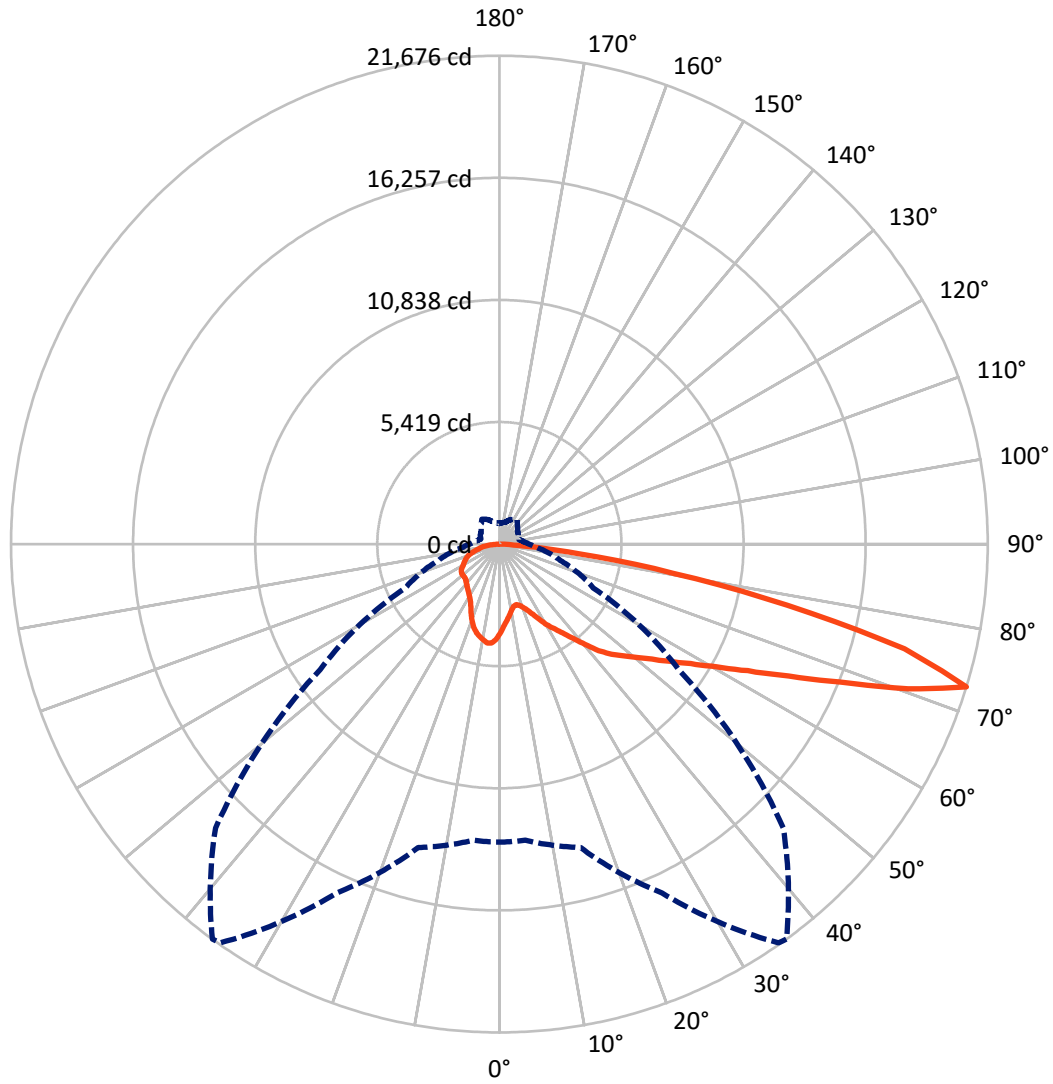
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6236.4	0.0	6236.4
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	20814.5	0.0	20814.5
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	27050.9	0.0	27050.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.1	1.4
10°-20°	1044.1	3.9
20°-30°	1729.1	6.4
30°-40°	2589.5	9.6
40°-50°	3777.9	14.0
50°-60°	5377.1	19.9
60°-70°	6793.6	25.1
70°-80°	4841.0	17.9
80°-90°	528.5	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°	27050.9	100.0
0°-180°	27050.9	100.0

**Coefficient of Utilization**



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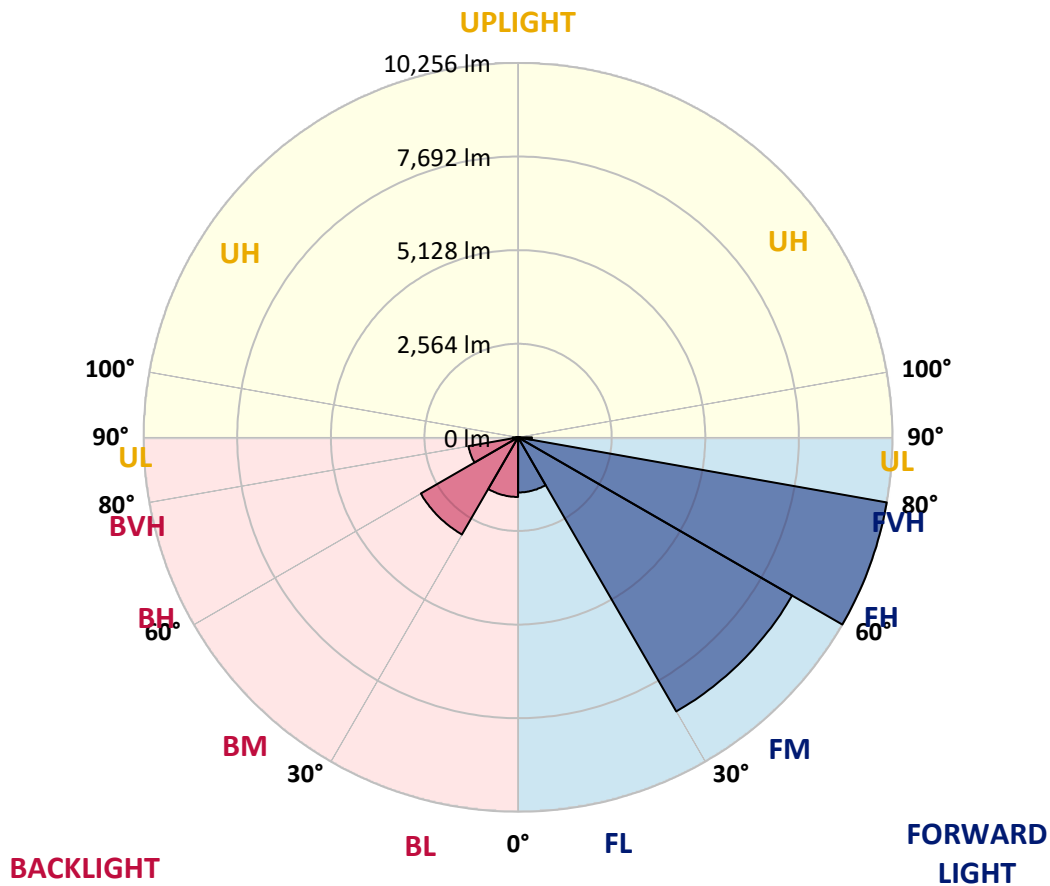
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.2	5.6			
FM (30°-60°)	8669.1	32.0			
FH (60°-80°)	10255.9	37.9			G4/12000
FVH (80°-90°)	379.3	1.4			G3/500
BL (0°-30°)	1633.1	6.0	B3/2500		
BM (30°-60°)	3075.4	11.4	B3/5000		
BH (60°-80°)	1378.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	149.2	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°	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0
2.5°	3611.7	3605.7	3593.6	3629.8	3665.9	3661.9	3712.1	3760.3	3812.5	3866.7	3938.9
5°	3322.6	3318.6	3308.6	3362.8	3417.0	3415.0	3497.3	3575.6	3682.0	3798.4	3943.0
7.5°	3033.5	3023.5	3037.5	3105.8	3182.1	3190.1	3302.5	3431.0	3585.6	3760.3	3965.0
10°	2778.5	2776.5	2782.6	2858.8	2973.3	2981.3	3125.9	3304.5	3509.3	3742.2	4015.2
12.5°	2712.3	2708.3	2692.2	2730.4	2816.7	2828.7	2987.3	3206.2	3457.1	3752.2	4083.5
15°	2820.7	2810.7	2754.5	2736.4	2778.5	2788.6	2923.1	3147.9	3427.0	3770.3	4169.8
17.5°	3007.4	3001.4	2895.0	2820.7	2848.8	2856.8	2957.2	3137.9	3419.0	3806.4	4276.2
20°	3280.4	3254.3	3087.7	2975.3	2975.3	2987.3	3047.6	3182.1	3429.0	3850.6	4396.7
22.5°	3641.8	3589.6	3354.7	3202.1	3162.0	3178.1	3204.2	3292.5	3471.2	3924.9	4547.3
25°	4047.4	3999.2	3720.1	3505.3	3449.1	3455.1	3433.0	3449.1	3563.5	4027.3	4734.0
27.5°	4479.0	4446.9	4149.7	3876.7	3788.4	3788.4	3710.1	3671.9	3692.0	4143.7	4942.8
30°	4864.5	4820.3	4569.3	4270.2	4153.8	4153.8	4005.2	3922.9	3874.7	4286.3	5221.8
32.5°	5067.2	5041.1	4874.5	4645.6	4503.1	4481.0	4352.5	4256.1	4143.7	4497.1	5599.2
35°	5332.2	5326.2	5225.8	5047.1	4866.5	4834.3	4746.0	4669.7	4475.0	4760.1	6101.1
37.5°	5665.5	5655.5	5639.4	5533.0	5316.2	5310.1	5231.8	5139.5	4886.5	5139.5	6709.5
40°	6038.9	6020.8	6000.8	5998.8	5868.3	5846.2	5840.2	5735.8	5382.4	5597.2	7343.9
42.5°	6552.9	6490.6	6301.9	6386.2	6482.6	6462.5	6538.8	6382.2	6000.8	6141.3	7944.1
45°	7185.3	7032.7	6659.3	6683.4	6926.3	6966.4	7231.4	7193.3	6681.3	6769.7	8576.5
47.5°	7564.7	7432.2	7084.9	7064.8	7368.0	7418.1	7994.3	8066.6	7414.1	7526.6	9357.5
50°	7875.9	7783.5	7498.4	7526.6	7847.8	7898.0	8751.2	8905.8	8104.7	8301.5	10264.9
52.5°	8251.3	8118.8	7898.0	8030.5	8424.0	8484.2	9592.4	9759.0	8727.1	9152.7	11204.5
55°	8462.1	8407.9	8411.9	8614.7	9108.6	9190.9	10473.7	10445.6	9297.3	9881.5	11911.2
57.5°	8947.9	8927.9	9112.6	9188.9	9907.6	10014.0	11355.1	11114.2	9815.2	10445.6	12250.5
60°	9805.2	9755.0	9915.6	10032.1	10895.3	11045.9	12338.8	11768.6	10166.6	10865.2	12136.0
62.5°	11009.8	10947.5	10953.6	11138.3	12218.4	12377.0	13433.0	12314.7	10275.0	10929.5	11411.3
65°	12507.5	12417.1	12314.7	12565.7	13975.0	14107.5	14623.5	12712.2	10016.0	10311.1	9897.6
67.5°	14087.4	14013.2	13892.7	14418.7	16249.7	16330.0	15958.5	12678.1	9194.9	8656.8	6942.3
70°	14179.8	14197.9	14768.0	16671.3	19218.9	19239.0	17221.3	11991.5	7446.3	5611.3	3459.1
72.5°	13228.2	13198.1	13940.9	17082.8	21608.0	21676.2	17817.6	9714.9	4601.5	2798.6	1622.2
75°	10744.8	10797.0	11577.9	14946.7	18520.3	18580.5	14525.1	5727.7	2186.3	1369.2	1037.9
77.5°	4625.5	4916.7	6456.5	10530.0	13264.3	13077.6	7486.4	2320.8	1166.4	975.7	795.0
80°	1335.1	1449.5	2300.7	5007.0	7948.2	7807.6	2963.2	869.3	813.1	732.8	570.2
82.5°	431.6	477.8	843.2	1993.6	3561.5	3557.5	1124.3	513.9	532.0	497.9	367.4
85°	120.5	138.5	259.0	604.3	1102.2	1080.1	325.2	242.9	283.1	287.1	182.7
87.5°	0.0	0.0	2.0	4.0	4.0	4.0	8.0	36.1	82.3	104.4	74.3
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°	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0	3959.0
2.5°	3983.1	3977.1	4059.4	4123.6	4183.9	4224.0	4236.1	4244.1	4260.2	4268.2	4260.2
5°	4011.2	4041.3	4177.9	4278.2	4358.5	4406.7	4408.7	4404.7	4416.8	4406.7	4400.7
7.5°	4071.4	4129.7	4302.3	4408.7	4460.9	4462.9	4414.7	4358.5	4330.4	4306.3	4298.3
10°	4151.8	4238.1	4426.8	4497.1	4481.0	4406.7	4300.3	4212.0	4161.8	4125.7	4117.6
12.5°	4262.2	4358.5	4537.2	4535.2	4434.8	4302.3	4177.9	4071.4	3999.2	3957.0	3943.0
15°	4366.6	4489.0	4617.5	4523.2	4364.6	4203.9	4043.3	3900.8	3804.4	3738.2	3726.1
17.5°	4495.1	4625.5	4675.7	4485.0	4276.2	4069.4	3854.6	3667.9	3537.4	3459.1	3453.1
20°	4643.6	4760.1	4703.8	4418.8	4161.8	3890.8	3599.7	3390.9	3250.3	3174.0	3180.1
22.5°	4816.3	4900.6	4711.9	4328.4	4003.2	3637.8	3312.6	3111.8	3017.4	2977.3	2979.3
25°	5001.0	5055.2	4697.8	4206.0	3760.3	3328.6	3017.4	2925.1	2917.1	2907.0	2911.0
27.5°	5219.8	5207.8	4655.7	4033.3	3433.0	2969.3	2810.7	2834.8	2866.9	2862.9	2866.9
30°	5512.9	5398.5	4601.5	3794.4	3043.5	2668.1	2688.2	2756.5	2798.6	2802.6	2814.7
32.5°	5848.2	5609.3	4515.1	3469.2	2672.1	2499.5	2573.8	2656.1	2706.3	2716.3	2732.4
35°	6247.7	5850.2	4362.6	3063.6	2405.1	2399.1	2467.4	2523.6	2577.8	2581.8	2581.8
37.5°	6707.4	6091.1	4119.6	2615.9	2240.5	2312.8	2377.0	2389.1	2403.1	2391.1	2397.1
40°	7129.0	6324.0	3774.3	2208.4	2106.0	2236.5	2290.7	2250.5	2206.4	2176.3	2182.3
42.5°	7482.4	6482.6	3316.6	1923.3	1969.5	2168.2	2210.4	2128.1	2041.7	1985.5	1993.6
45°	7879.9	6629.2	2778.5	1730.6	1853.0	2120.0	2148.1	2041.7	1931.3	1847.0	1835.0
47.5°	8428.0	6928.3	2300.7	1596.1	1770.7	2093.9	2140.1	1995.6	1851.0	1724.5	1710.5
50°	9104.5	7351.9	1901.2	1507.7	1732.6	2079.9	2138.1	1945.4	1772.7	1624.2	1614.1
52.5°	9843.3	7765.5	1606.1	1439.5	1694.4	2037.7	2128.1	1889.2	1690.4	1529.8	1517.8
55°	10335.2	7928.1	1407.3	1375.2	1632.2	1971.5	2087.9	1835.0	1565.9	1419.4	1401.3
57.5°	10479.8	7719.3	1268.8	1317.0	1551.9	1879.1	2011.6	1720.5	1489.7	1373.2	1359.2
60°	10230.8	7193.3	1182.5	1268.8	1463.6	1760.7	1879.1	1654.3	1429.4	1325.0	1315.0
62.5°	9528.1	6382.2	1116.2	1218.6	1373.2	1636.2	1794.8	1574.0	1363.2	1280.9	1266.8
65°	8114.8	5233.9	1062.0	1166.4	1286.9	1517.8	1702.5	1493.7	1290.9	1228.7	1212.6
67.5°	5675.5	3675.9	1003.8	1104.2	1200.6	1403.3	1606.1	1419.4	1216.6	1170.4	1154.4
70°	2774.5	1949.4	933.5	1031.9	1108.2	1286.9	1509.7	1329.0	1118.2	1092.1	1070.1
72.5°	1321.0	1090.1	851.2	933.5	981.7	1132.3	1349.1	1198.5	1001.8	945.6	907.4
75°	885.4	774.9	742.8	817.1	829.1	949.6	1156.4	1033.9	883.4	819.1	787.0
77.5°	670.5	592.2	624.4	690.6	666.5	781.0	951.6	921.5	797.0	738.8	722.7
80°	471.8	431.6	495.9	536.0	518.0	664.5	857.3	789.0	656.5	592.2	580.2
82.5°	297.1	289.1	365.4	371.4	377.4	526.0	704.7	620.4	509.9	419.6	389.5
85°	148.6	164.6	218.8	218.8	216.8	271.0	401.5	349.3	275.0	218.8	212.8
87.5°	50.2	70.3	94.4	76.3	58.2	46.2	52.2	64.2	68.3	66.3	66.3
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)