

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: P633773

Luminaire Tested: GWS-SA2F-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633773  
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-SA2F-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

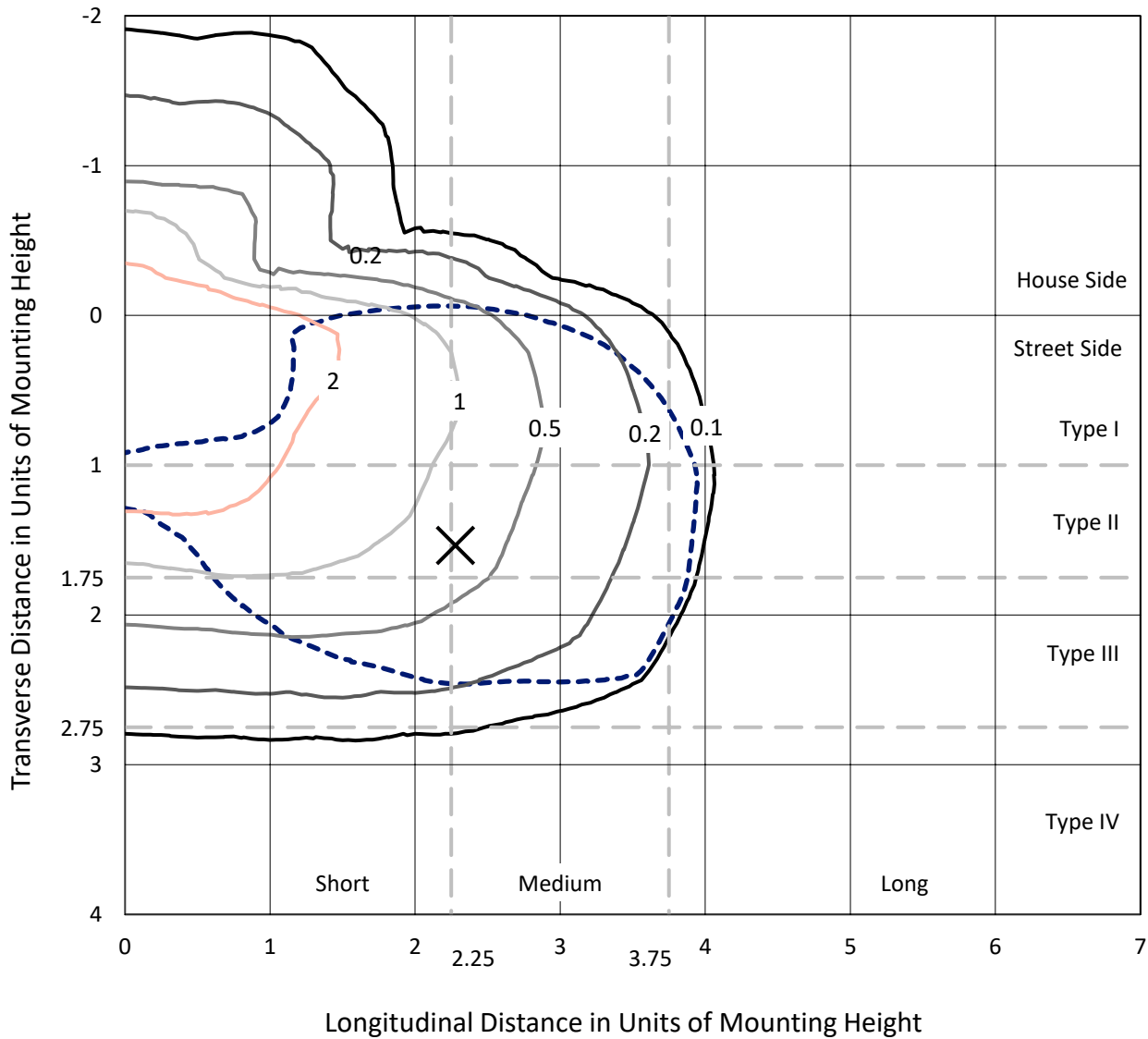
Lumens per Lamp: N/A  
Luminaire Lumens: 16265.8 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

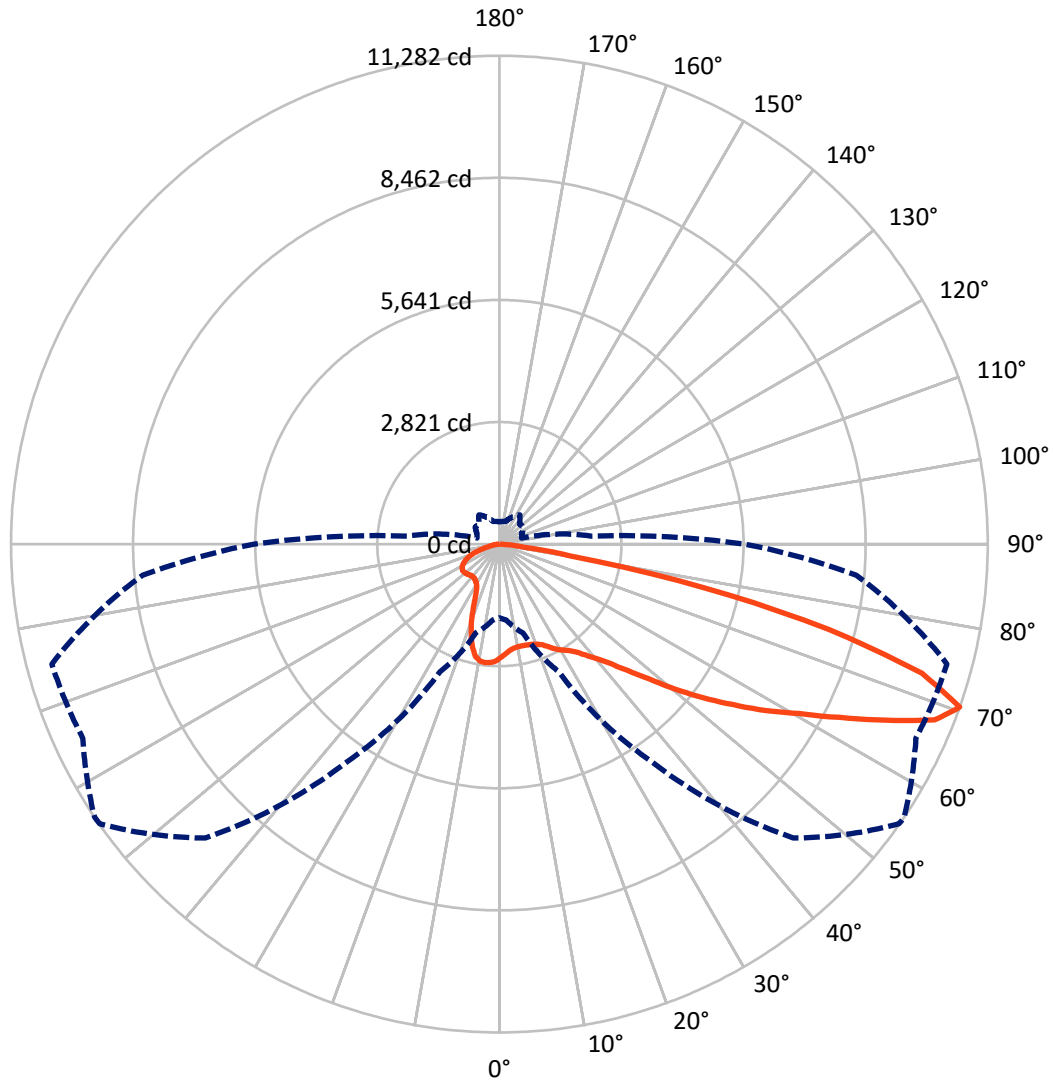
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	3127.1	0.0	3127.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	13138.7	0.0	13138.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	16265.8	0.0	16265.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	1.5
10°-20°	658.3	4.0
20°-30°	1088.4	6.7
30°-40°	1627.3	10.0
40°-50°	2421.6	14.9
50°-60°	3442.8	21.2
60°-70°	4264.1	26.2
70°-80°	2354.5	14.5
80°-90°	165.8	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°	16265.8	100.0
0°-180°	16265.8	100.0

**Coefficient of Utilization**



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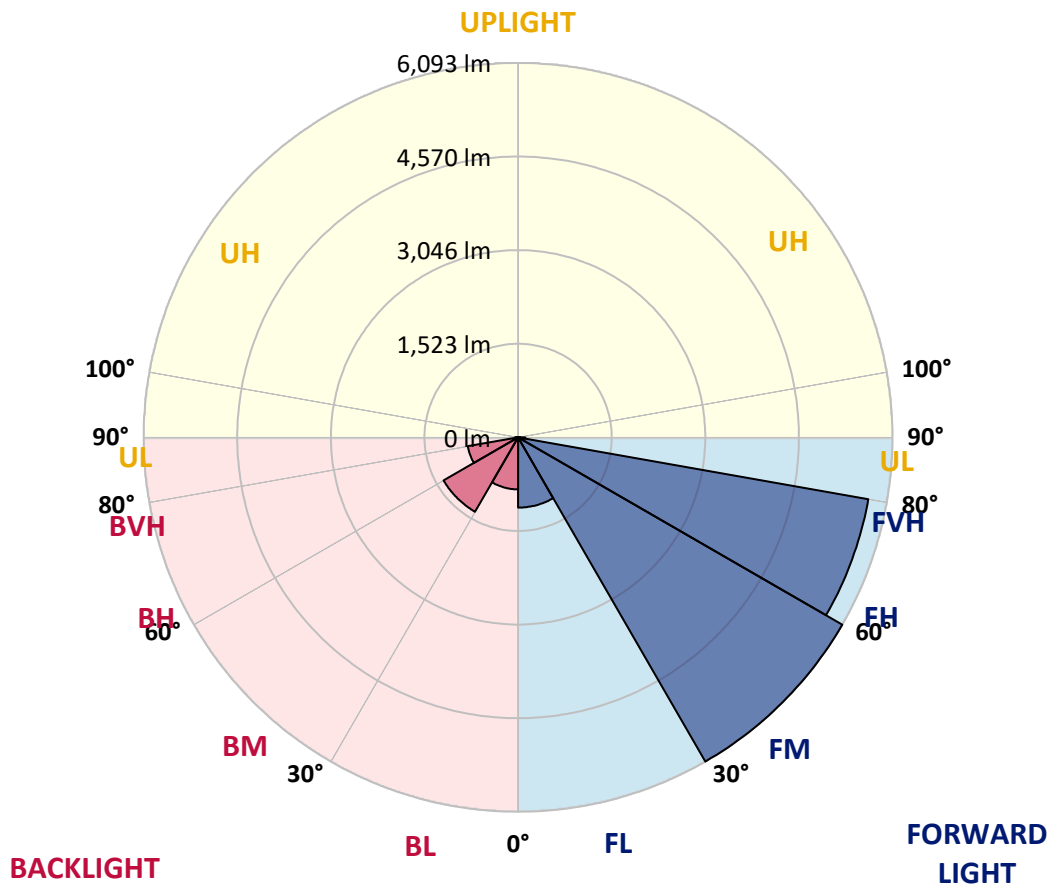
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.1	7.0			
FM (30°-60°)	6092.9	37.5			
FH (60°-80°)	5787.4	35.6			G3/7500
FVH (80°-90°)	115.2	0.7			G2/225
BL (0°-30°)	846.5	5.2	B2/1000		
BM (30°-60°)	1398.8	8.6	B2/2500		
BH (60°-80°)	831.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	50.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2456.9	2443.2	2459.2	2467.3	2487.9	2517.7	2544.1	2545.3	2559.0	2592.3	2624.4
5°	2345.7	2338.8	2343.4	2367.5	2389.3	2427.1	2467.3	2470.7	2509.7	2575.1	2639.3
7.5°	2259.6	2250.5	2267.7	2298.6	2326.2	2368.6	2421.4	2426.0	2481.0	2579.7	2678.3
10°	2135.8	2128.9	2161.0	2202.3	2261.9	2331.9	2401.9	2407.6	2479.9	2609.5	2747.1
12.5°	2081.9	2081.9	2095.6	2134.6	2200.0	2292.9	2398.4	2407.6	2498.2	2655.4	2835.5
15°	2165.6	2171.3	2159.9	2157.6	2183.9	2272.3	2403.0	2416.8	2532.6	2702.4	2922.6
17.5°	2334.2	2339.9	2310.1	2263.1	2236.7	2291.8	2420.2	2435.1	2569.3	2754.0	3016.7
20°	2570.5	2577.4	2512.0	2439.7	2349.1	2348.0	2453.5	2467.3	2616.4	2810.2	3116.5
22.5°	2846.9	2851.5	2768.9	2654.2	2515.4	2452.3	2510.8	2524.6	2677.2	2888.2	3224.3
25°	3166.9	3180.7	3080.9	2914.6	2726.5	2595.7	2606.1	2622.1	2786.1	2992.6	3351.6
27.5°	3508.8	3526.0	3411.3	3227.7	2968.5	2754.0	2728.8	2742.5	2902.0	3056.8	3419.3
30°	3858.6	3871.2	3756.5	3546.6	3228.9	2933.0	2832.0	2840.0	2952.5	3087.8	3488.1
32.5°	4247.4	4237.1	4127.0	3885.0	3529.4	3147.4	2928.4	2926.1	3008.7	3149.7	3586.8
35°	4612.2	4627.1	4510.1	4242.9	3859.8	3412.4	3072.9	3063.7	3127.9	3250.7	3725.6
37.5°	5053.8	5049.2	4909.3	4620.2	4191.2	3665.9	3275.9	3259.9	3282.8	3407.8	3919.4
40°	5369.2	5401.4	5310.7	5041.2	4578.9	3977.9	3513.4	3477.8	3483.5	3601.7	4178.6
42.5°	5627.3	5657.1	5666.3	5494.3	5022.8	4363.3	3809.3	3773.7	3777.2	3944.6	4497.5
45°	5825.8	5865.9	5995.5	5945.1	5522.9	4808.3	4209.6	4172.9	4175.2	4361.0	4882.9
47.5°	5907.2	5950.8	6213.5	6333.9	6054.0	5340.6	4707.4	4653.5	4661.5	4866.8	5323.4
50°	5880.8	5939.3	6294.9	6633.3	6499.1	5882.0	5302.7	5264.9	5233.9	5532.1	5801.7
52.5°	5653.7	5717.9	6286.9	6823.7	6862.7	6393.5	5917.5	5895.7	5888.8	6238.7	6336.2
55°	4985.0	5092.8	6010.4	6874.1	7147.1	6875.3	6583.9	6547.2	6582.8	6995.7	6876.4
57.5°	4614.5	4694.8	5469.0	6817.9	7380.0	7334.1	7249.2	7252.7	7292.8	7818.2	7531.4
60°	4403.4	4497.5	5168.5	6664.2	7603.7	7891.6	7945.5	7945.5	8017.7	8704.8	8196.7
62.5°	4123.6	4218.8	4887.5	6368.3	7810.1	8547.7	8820.7	8817.8	8845.9	9655.7	8847.0
65°	3555.8	3644.1	4323.2	5901.5	7911.1	9270.3	9815.1	9804.8	9747.5	10502.2	9277.2
67.5°	2582.0	2665.7	3311.5	5013.7	7547.5	9853.0	10839.4	10844.0	10501.1	11035.6	9300.1
70°	1702.2	1759.5	2128.9	3256.4	6137.8	9601.8	11268.4	11282.2	10616.9	10702.9	8277.0
72.5°	1062.1	1102.3	1329.4	1941.9	3626.9	7600.2	10167.3	10205.1	9551.3	9405.6	6800.7
75°	705.4	733.0	884.4	1132.1	1678.1	4113.2	7728.7	7850.3	7655.3	7373.1	4738.4
77.5°	424.4	447.3	563.2	719.2	743.3	1607.0	4511.3	4825.6	4853.1	3849.4	1984.4
80°	193.8	220.2	310.8	410.6	395.7	559.8	1590.9	1664.3	1963.7	1222.7	626.3
82.5°	114.7	126.2	206.5	204.2	168.6	271.8	572.4	587.3	499.0	447.3	267.3
85°	45.9	53.9	87.2	76.9	61.9	88.3	215.6	226.0	216.8	195.0	98.6
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	19.5	20.6	29.8	53.9	29.8
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°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2645.0	2638.2	2672.6	2699.0	2710.4	2721.9	2711.6	2708.1	2708.1	2685.2	2673.7
5°	2673.7	2677.2	2724.2	2746.0	2746.0	2736.8	2709.3	2689.8	2682.9	2653.1	2645.0
7.5°	2727.6	2742.5	2786.1	2785.0	2752.9	2702.4	2633.6	2580.8	2532.6	2512.0	2499.4
10°	2816.0	2835.5	2865.3	2817.1	2727.6	2594.6	2448.9	2334.2	2265.4	2210.3	2210.3
12.5°	2916.9	2935.2	2929.5	2818.3	2633.6	2384.7	2174.8	2042.9	1946.5	1896.0	1896.0
15°	3017.8	3032.7	2970.8	2765.5	2437.4	2105.9	1876.5	1718.3	1634.5	1587.5	1587.5
17.5°	3119.9	3118.8	2988.0	2643.9	2181.6	1797.4	1572.6	1449.8	1421.2	1413.1	1412.0
20°	3218.6	3192.2	2966.2	2440.9	1884.6	1486.6	1344.3	1352.3	1394.8	1413.1	1415.4
22.5°	3329.8	3264.4	2902.0	2181.6	1547.3	1270.9	1280.1	1346.6	1408.6	1436.1	1439.5
25°	3443.4	3326.4	2794.2	1877.7	1265.2	1191.8	1262.9	1337.4	1407.4	1443.0	1446.4
27.5°	3489.3	3326.4	2610.6	1525.5	1114.9	1158.5	1236.5	1308.8	1382.2	1423.5	1431.5
30°	3527.1	3297.7	2353.7	1207.8	1053.0	1126.4	1194.1	1260.6	1332.8	1383.3	1392.5
32.5°	3579.9	3272.5	2042.9	1015.1	1024.3	1095.4	1142.4	1198.6	1264.0	1297.3	1293.8
35°	3641.8	3233.5	1667.8	923.4	1000.2	1069.0	1102.3	1135.6	1105.7	1104.6	1108.0
37.5°	3730.1	3199.1	1340.9	882.1	984.2	1050.7	1078.2	1007.1	965.8	948.6	941.7
40°	3857.5	3185.3	1057.6	858.0	981.9	1049.5	1030.0	919.9	863.7	804.1	802.9
42.5°	4018.0	3175.0	874.0	846.5	989.9	1075.9	963.5	862.6	746.7	720.3	718.0
45°	4224.5	3158.9	782.3	844.2	1009.4	1096.6	956.6	783.4	704.3	692.8	692.8
47.5°	4473.4	3133.7	741.0	844.2	1031.2	1087.4	936.0	766.2	684.8	697.4	705.4
50°	4759.0	3101.6	719.2	841.9	1053.0	1087.4	892.4	762.8	680.2	745.6	772.0
52.5°	5064.1	3064.9	704.3	832.7	1067.9	1088.5	894.7	774.2	684.8	757.0	778.8
55°	5401.4	3059.1	683.6	813.2	1072.5	1058.7	900.4	799.5	691.7	685.9	687.1
57.5°	5826.9	3127.9	668.7	784.6	1054.1	997.9	911.9	817.8	683.6	684.8	692.8
60°	6272.0	3257.6	681.3	757.0	1016.3	940.6	919.9	808.7	644.6	626.3	628.6
62.5°	6650.5	3356.2	691.7	744.4	961.2	890.1	911.9	788.0	622.8	618.2	628.6
65°	6808.8	3274.8	666.4	718.0	880.9	828.2	894.7	761.6	604.5	587.3	588.4
67.5°	6633.3	2892.8	617.1	659.5	790.3	749.0	867.2	727.2	579.2	558.6	554.0
70°	5666.3	2125.4	532.2	566.6	680.2	656.1	824.7	682.5	539.1	524.2	513.9
72.5°	4566.3	1504.9	441.6	450.8	533.4	552.9	751.3	626.3	493.2	450.8	435.9
75°	3178.4	945.2	368.2	359.0	385.4	422.1	586.1	519.6	425.5	380.8	367.0
77.5°	1367.3	485.2	287.9	283.3	256.9	292.5	449.6	433.6	356.7	305.1	297.1
80°	457.7	281.0	207.6	199.6	170.9	205.3	316.6	346.4	279.9	226.0	212.2
82.5°	229.4	162.9	131.9	119.3	114.7	129.6	187.0	215.6	193.8	156.0	131.9
85°	112.4	92.9	72.3	71.1	59.6	56.2	78.0	91.8	87.2	64.2	60.8
87.5°	41.3	36.7	22.9	18.4	11.5	8.0	4.6	4.6	3.4	3.4	3.4
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)