

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: P632750

Luminaire Tested: GWS-SA2D-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

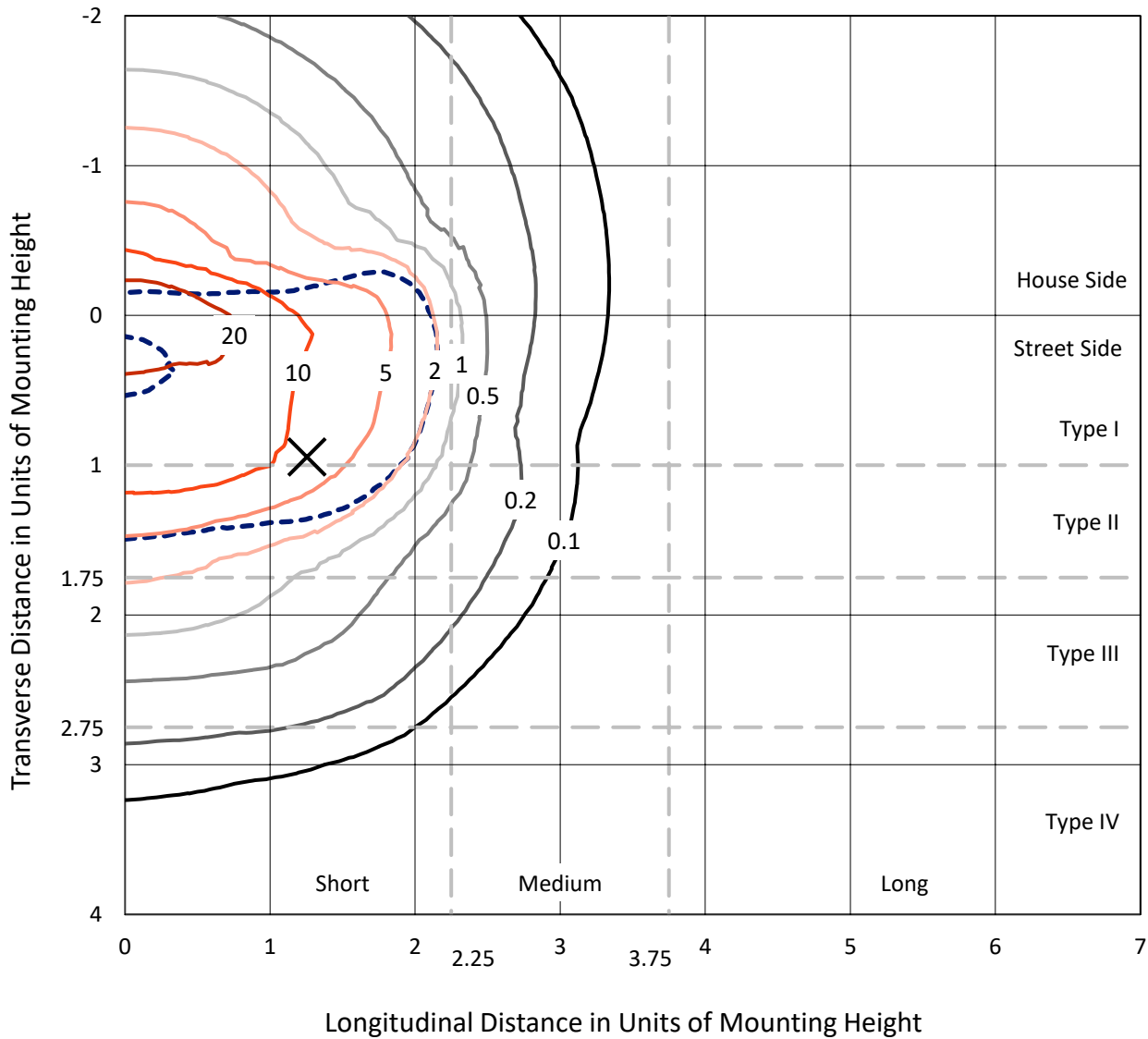
Lumens per Lamp: N/A  
Luminaire Lumens: 9808.4 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

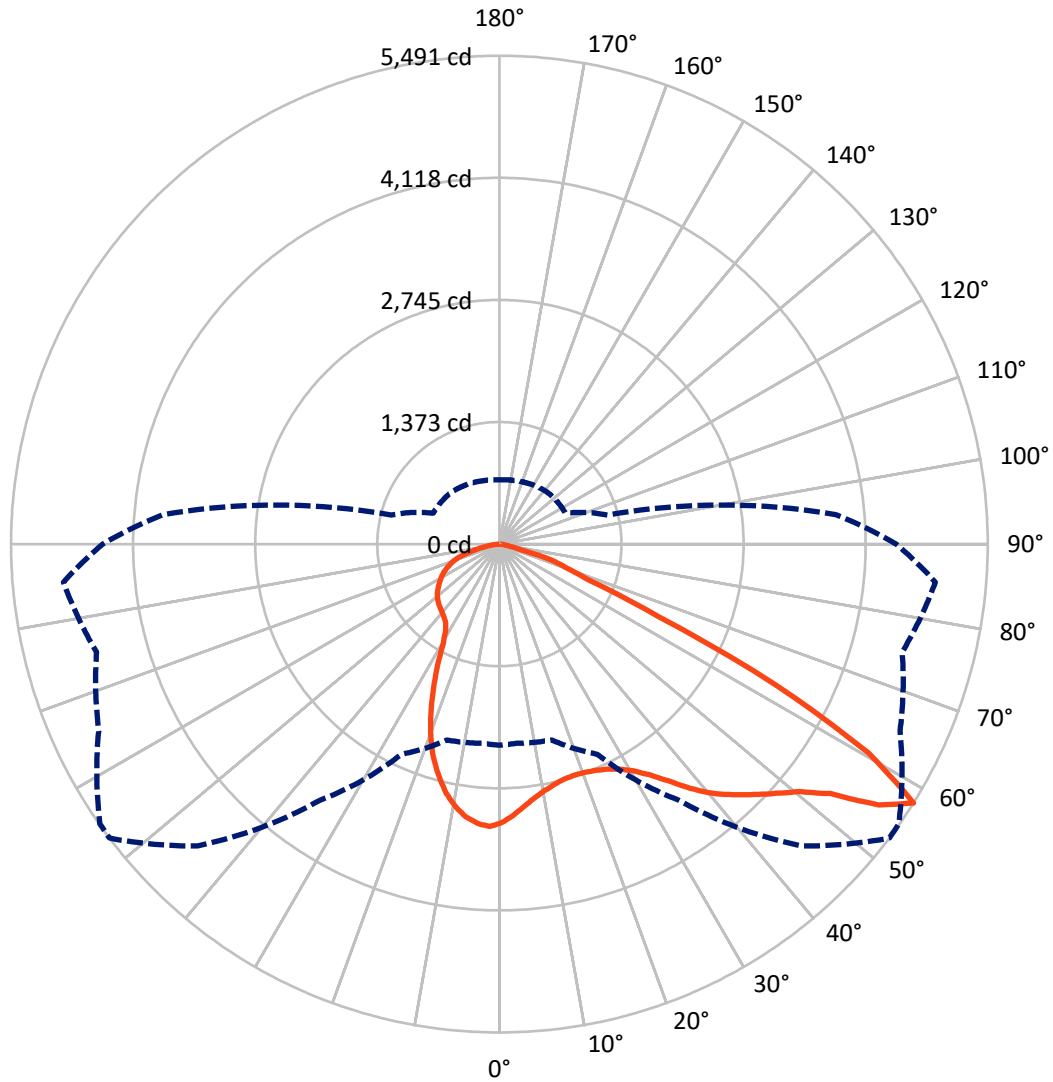
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3066.7	0.0	3066.7
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	6741.7	0.0	6741.7
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	9808.4	0.0	9808.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	2.9
10°-20°	743.1	7.6
20°-30°	1094.8	11.2
30°-40°	1532.5	15.6
40°-50°	2014.5	20.5
50°-60°	2362.0	24.1
60°-70°	1391.5	14.2
70°-80°	346.2	3.5
80°-90°	40.6	0.4
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°	9808.4	100.0
0°-180°	9808.4	100.0

**Coefficient of Utilization**



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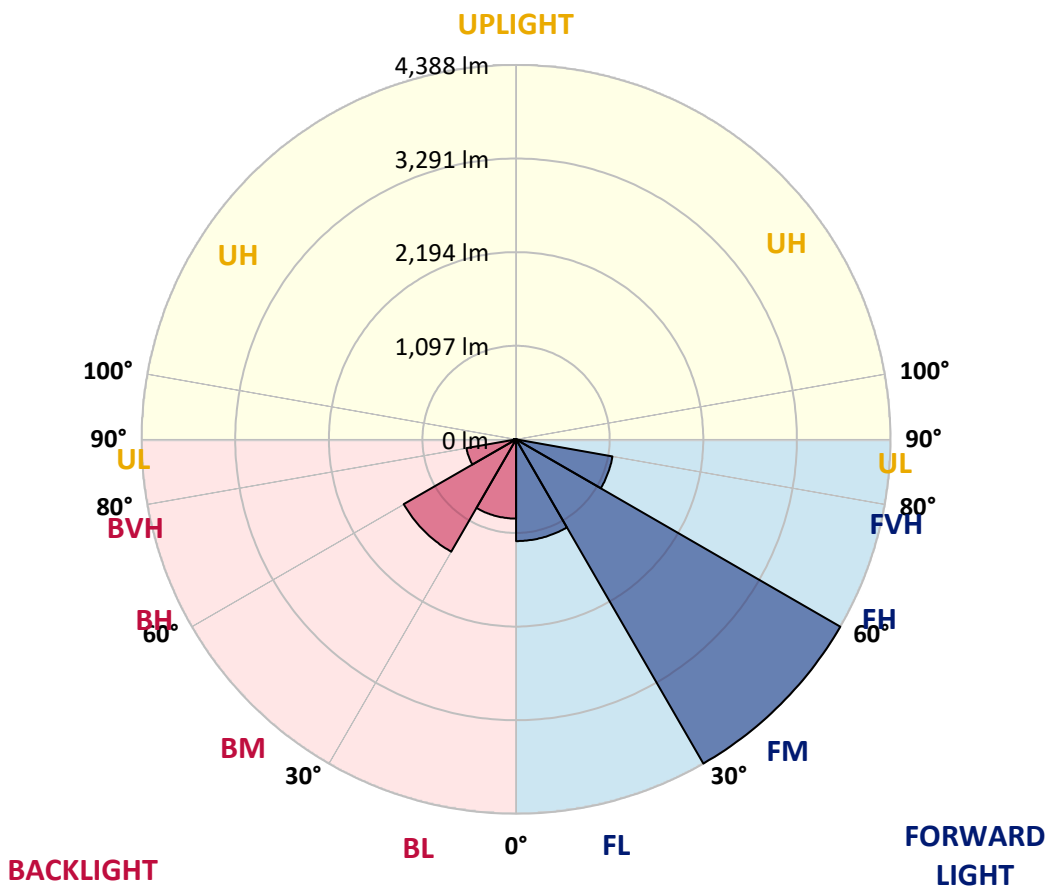
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.5	12.2			
FM (30°-60°)	4388.4	44.7			
FH (60°-80°)	1147.2	11.7			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	928.6	9.5	B2/1000		
BM (30°-60°)	1520.6	15.5	B2/2500		
BH (60°-80°)	590.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	27.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1
2.5°	2952.1	2960.4	2962.0	2987.6	2989.3	3026.4	3051.2	3046.2	3071.8	3103.2	3128.0
5°	2811.0	2811.8	2820.0	2850.6	2867.1	2915.8	2957.1	2957.1	3006.6	3071.0	3126.3
7.5°	2694.6	2693.7	2701.2	2735.0	2762.2	2820.9	2877.0	2883.6	2952.9	3047.1	3137.0
10°	2586.4	2592.2	2600.4	2641.7	2676.4	2749.0	2815.9	2826.6	2914.1	3030.5	3151.9
12.5°	2517.1	2517.9	2530.3	2576.5	2621.1	2698.7	2768.9	2782.1	2882.8	3014.9	3162.6
15°	2472.5	2473.3	2486.5	2537.7	2589.7	2668.1	2740.0	2754.8	2864.6	3012.4	3183.3
17.5°	2452.7	2451.8	2464.2	2515.4	2572.4	2654.1	2730.9	2749.0	2872.9	3031.4	3219.6
20°	2452.7	2453.5	2460.1	2506.3	2564.1	2650.8	2740.0	2762.2	2905.1	3074.3	3275.7
22.5°	2487.3	2490.6	2493.9	2525.3	2570.7	2655.8	2763.9	2793.6	2974.4	3146.1	3349.2
25°	2555.0	2555.9	2559.2	2584.8	2605.4	2669.8	2803.5	2848.1	3082.6	3251.0	3441.7
27.5°	2645.8	2657.4	2660.7	2677.2	2677.2	2704.5	2865.4	2929.8	3228.7	3402.0	3559.7
30°	2773.0	2777.1	2782.9	2801.0	2781.2	2769.7	2956.2	3038.8	3397.9	3584.5	3701.7
32.5°	2884.4	2893.5	2924.9	2954.6	2919.1	2882.8	3090.0	3187.4	3560.5	3774.4	3852.8
35°	2979.4	3001.7	3061.9	3128.0	3103.2	3066.9	3267.5	3369.0	3694.3	3910.6	3986.5
37.5°	3094.1	3111.4	3194.0	3301.3	3323.6	3306.3	3483.8	3556.4	3783.4	3945.2	4059.2
40°	3210.5	3236.9	3343.4	3492.0	3577.1	3589.4	3683.5	3732.3	3814.0	3877.5	4045.1
42.5°	3329.4	3374.8	3520.9	3694.3	3845.4	3873.4	3852.0	3872.6	3804.1	3784.3	3979.9
45°	3474.7	3528.3	3693.5	3914.7	4113.7	4157.4	4017.1	3998.1	3802.4	3748.8	3939.5
47.5°	3646.4	3700.1	3857.7	4115.3	4369.6	4401.8	4186.3	4151.6	3860.2	3803.2	3993.9
50°	3798.3	3835.4	3976.6	4264.7	4608.1	4627.1	4372.9	4330.8	4003.9	3954.3	4164.0
52.5°	3643.9	3639.8	3788.4	4143.4	4732.0	4960.7	4660.2	4619.7	4281.2	4205.3	4427.4
55°	3091.6	3044.6	3177.5	3526.7	4386.1	5257.0	5175.3	5094.4	4651.1	4457.9	4674.2
57.5°	2260.3	2247.1	2279.3	2607.0	3513.5	4798.0	5490.6	5483.2	4970.6	4689.0	4920.2
60°	1767.5	1747.7	1661.8	1670.9	2394.9	3747.9	4765.0	4983.8	5168.7	4827.7	5091.9
62.5°	1569.3	1554.5	1509.9	1386.9	1426.5	2512.9	3492.8	3693.5	4516.5	4263.9	4373.7
65°	1299.4	1295.3	1332.4	1327.5	1195.4	1387.7	1971.4	2173.6	2839.8	2875.3	2839.8
67.5°	944.4	937.0	1031.1	1216.8	1150.8	1047.6	1098.8	1169.0	1456.2	1307.7	1177.2
70°	614.2	603.5	658.0	879.2	1030.3	913.0	791.7	780.1	800.8	497.8	538.3
72.5°	411.9	399.6	398.7	483.8	622.5	615.0	613.4	607.6	542.4	393.0	435.9
75°	229.5	219.6	217.1	208.9	222.9	227.0	241.9	250.1	270.8	298.0	330.2
77.5°	38.8	38.0	47.9	61.1	84.2	108.1	133.7	141.2	174.2	206.4	227.0
80°	21.5	22.3	28.9	35.5	47.1	64.4	82.6	87.5	107.3	124.7	141.2
82.5°	11.6	11.6	14.9	19.0	25.6	33.8	44.6	48.7	61.9	72.6	84.2
85°	4.1	4.1	5.8	7.4	10.7	14.0	17.3	19.8	27.2	37.1	42.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.1	7.4	10.7
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°	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1	3132.1
2.5°	3148.6	3126.3	3156.9	3170.9	3175.8	3179.1	3157.7	3142.8	3137.9	3122.2	3113.1
5°	3160.2	3145.3	3174.2	3174.2	3153.6	3132.1	3088.3	3057.8	3036.3	3010.7	3006.6
7.5°	3180.0	3169.2	3184.9	3152.7	3100.7	3042.9	2967.0	2907.5	2859.7	2828.3	2829.1
10°	3206.4	3193.2	3180.8	3109.0	3014.0	2907.5	2791.1	2704.5	2625.2	2588.9	2569.1
12.5°	3223.7	3204.7	3152.7	3033.8	2894.3	2751.5	2587.2	2458.4	2343.7	2291.7	2287.6
15°	3245.2	3210.5	3106.5	2936.4	2742.4	2547.6	2336.3	2157.1	2001.9	1921.0	1916.9
17.5°	3273.3	3216.3	3051.2	2825.0	2582.3	2295.0	2029.2	1803.8	1638.7	1575.9	1586.7
20°	3312.9	3222.9	2988.4	2701.2	2383.3	2007.7	1676.7	1469.5	1405.9	1401.8	1393.5
22.5°	3357.5	3227.0	2919.1	2562.5	2142.3	1701.4	1385.3	1296.9	1296.1	1316.7	1321.7
25°	3407.8	3230.3	2840.7	2400.7	1881.4	1396.0	1225.1	1198.7	1219.3	1258.1	1263.1
27.5°	3472.2	3236.9	2745.7	2223.2	1604.0	1206.1	1136.8	1130.2	1154.9	1191.2	1189.6
30°	3567.1	3260.9	2645.0	2019.3	1319.2	1116.1	1083.1	1083.9	1093.8	1111.2	1113.6
32.5°	3663.7	3298.0	2546.8	1789.8	1155.8	1064.9	1050.1	1048.4	1048.4	1055.9	1057.5
35°	3755.4	3340.1	2440.3	1550.4	1076.5	1035.2	1025.3	1020.4	1017.9	1016.2	1013.8
37.5°	3806.6	3360.8	2336.3	1314.3	1034.4	1015.4	1005.5	998.9	989.8	983.2	981.6
40°	3784.3	3336.8	2215.7	1137.6	1008.8	996.4	984.9	975.8	963.4	957.6	954.3
42.5°	3710.0	3262.5	2084.5	1054.2	988.2	975.8	961.8	946.9	938.6	933.7	932.9
45°	3631.5	3172.5	1926.0	1005.5	968.4	953.5	937.0	920.5	911.4	908.9	908.1
47.5°	3629.1	3128.0	1757.6	966.7	944.4	929.6	908.9	892.4	882.5	879.2	875.9
50°	3738.0	3173.4	1567.7	932.9	919.6	904.0	880.8	862.7	850.3	846.2	845.3
52.5°	3964.2	3344.3	1397.6	899.0	886.6	868.5	849.5	831.3	816.5	809.0	808.2
55°	4208.6	3561.4	1292.0	864.3	847.8	832.1	814.8	795.0	778.5	766.9	765.3
57.5°	4461.2	3798.3	1259.8	820.6	808.2	797.5	776.8	755.4	736.4	725.6	723.2
60°	4669.2	4002.2	1320.0	774.4	767.7	753.7	734.7	714.1	700.9	692.6	691.0
62.5°	3908.9	3258.4	1065.8	724.0	724.0	709.1	687.7	672.8	663.7	658.0	656.3
65°	2480.7	2017.6	727.3	673.6	672.8	653.0	634.8	624.9	620.8	611.7	610.1
67.5°	1080.6	922.1	621.6	622.5	619.2	597.7	579.5	572.1	563.8	553.9	553.1
70°	560.5	571.3	556.4	565.5	559.7	534.1	516.8	505.2	487.9	478.0	478.8
72.5°	452.4	464.0	480.5	494.5	482.1	461.5	434.2	420.2	397.9	387.2	388.0
75°	345.1	357.5	373.1	388.0	378.1	352.5	335.2	321.1	295.5	283.2	285.6
77.5°	237.8	244.4	263.3	262.5	259.2	251.8	226.2	209.7	183.3	168.4	170.1
80°	147.8	151.9	161.0	165.1	163.5	153.5	132.9	120.5	104.8	95.8	96.6
82.5°	89.2	91.6	99.9	100.7	99.9	92.5	76.8	67.7	57.8	52.8	52.8
85°	45.4	47.1	52.0	52.0	47.1	39.6	35.5	31.4	25.6	23.1	23.1
87.5°	12.4	12.4	15.7	13.2	10.7	9.9	5.0	4.1	1.7	0.8	0.8
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)