

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: P633407

Luminaire Tested: GWS-SA2E-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-760-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

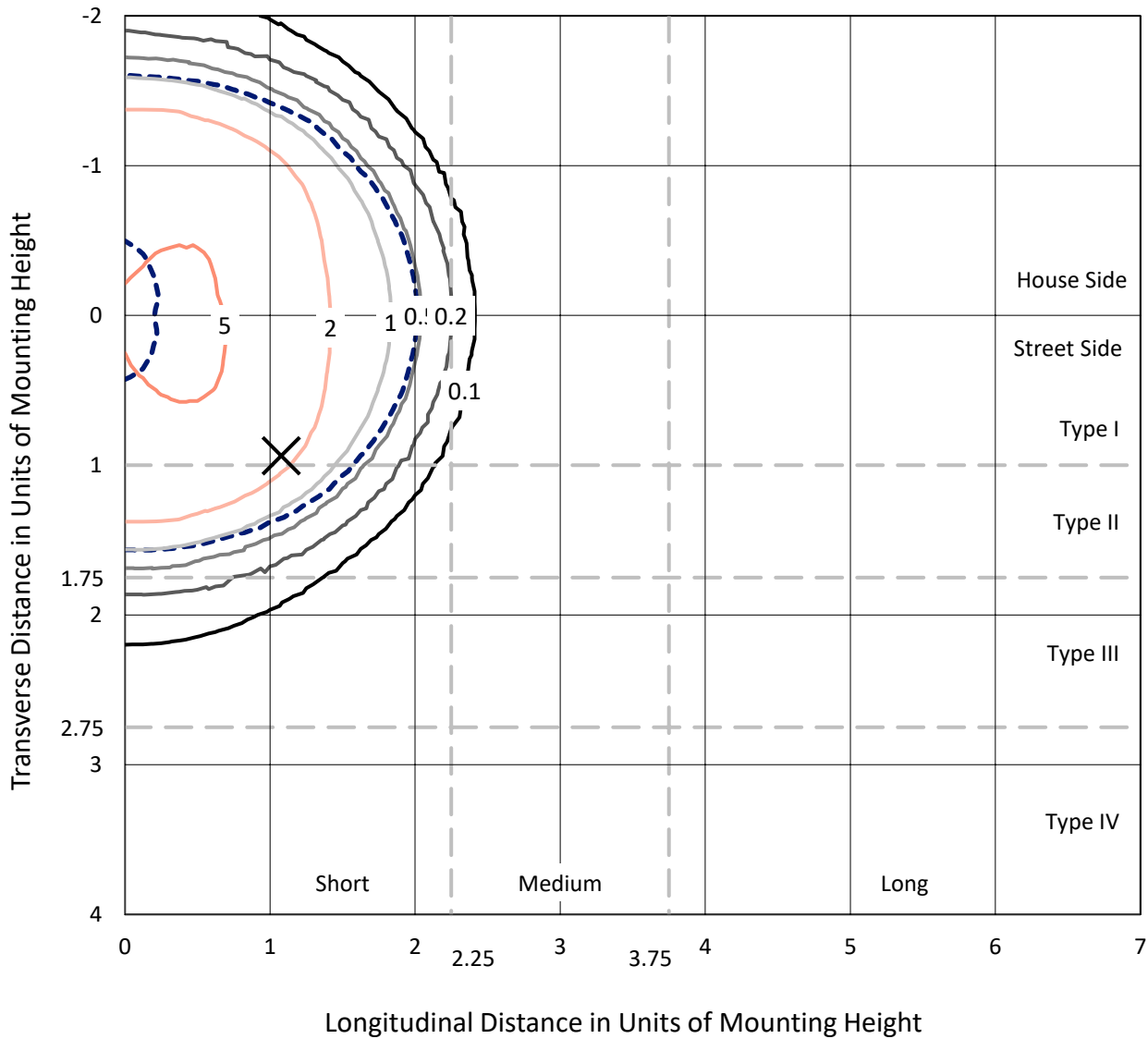
Lumens per Lamp: N/A  
Luminaire Lumens: 12977 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

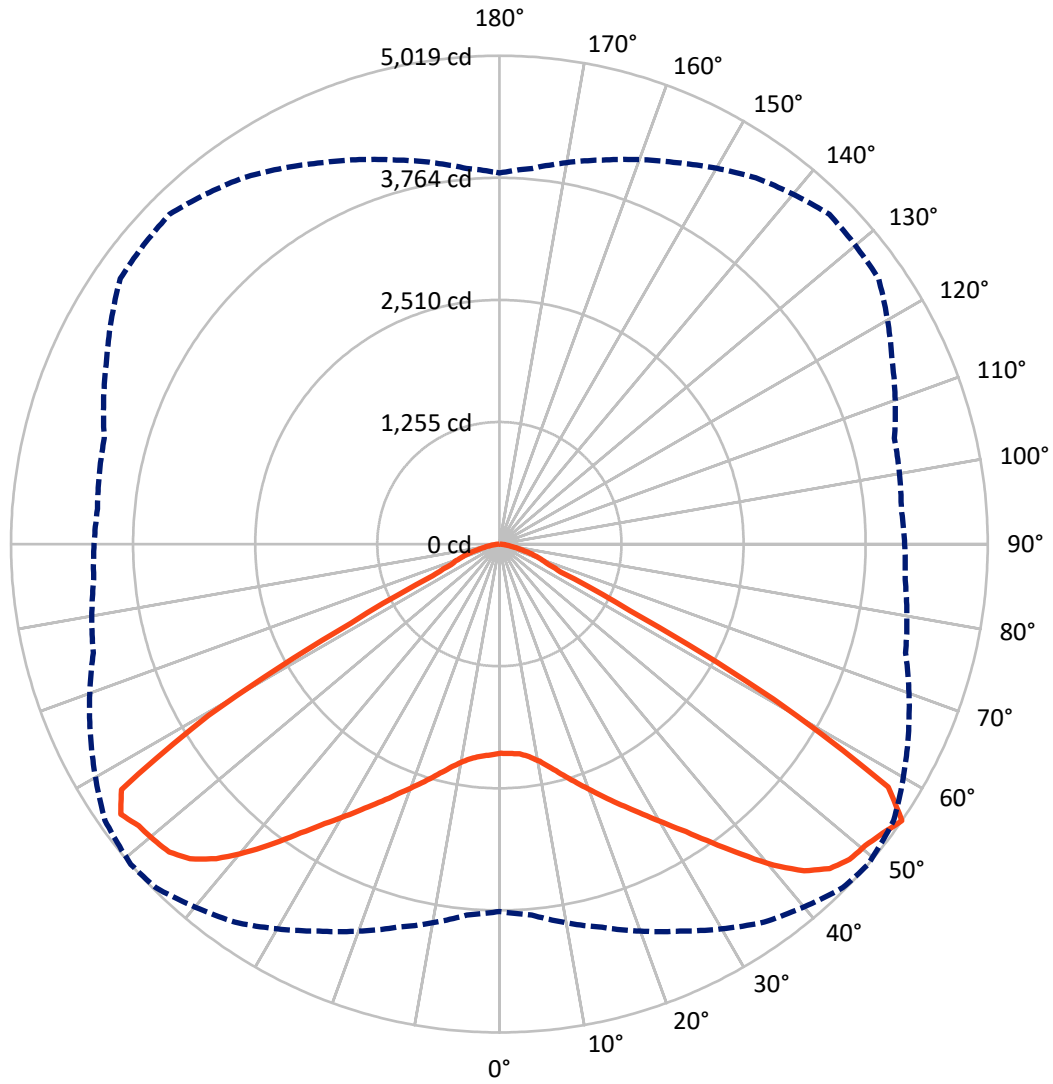
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6424.9	0.0	6424.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	6552.2	0.0	6552.2
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	12977.0	0.0	12977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.7	1.6
10°-20°	691.7	5.3
20°-30°	1317.5	10.2
30°-40°	2233.4	17.2
40°-50°	3361.1	25.9
50°-60°	3679.1	28.4
60°-70°	1163.3	9.0
70°-80°	279.2	2.2
80°-90°	41.9	0.3
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°	12977.0	100.0
0°-180°	12977.0	100.0

**Coefficient of Utilization**



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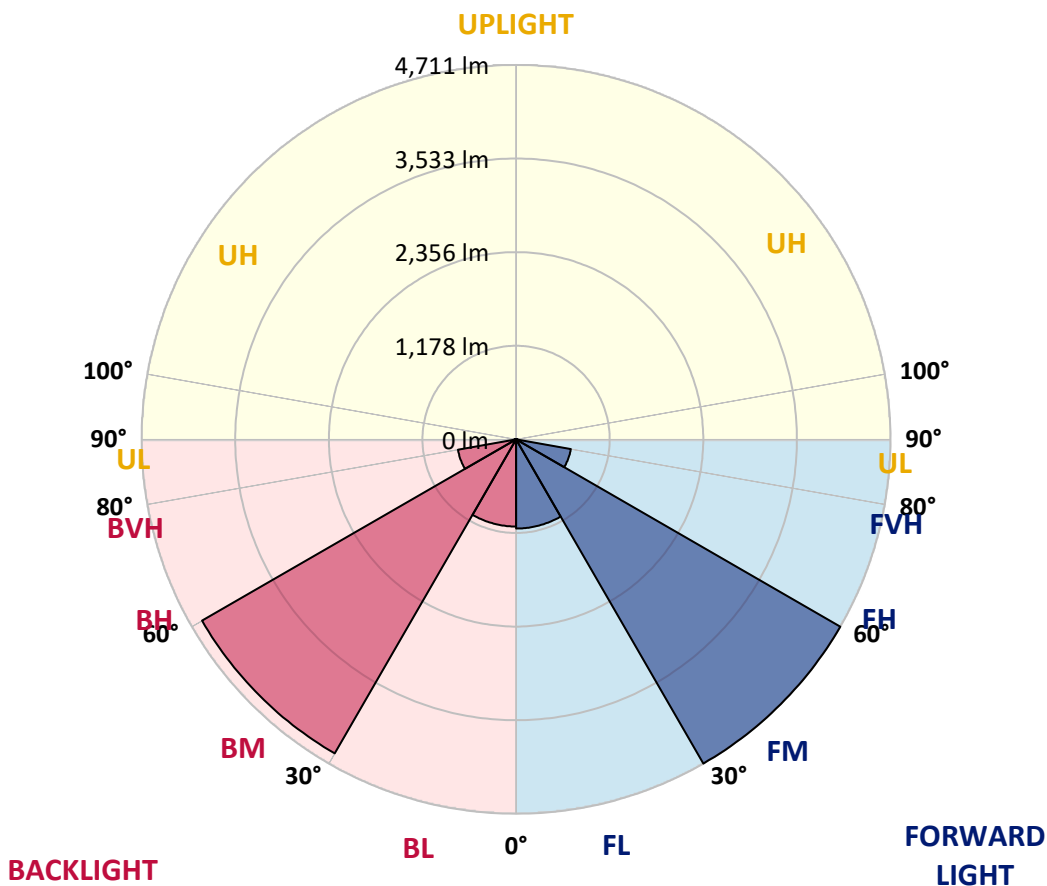
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.0	8.6			
FM (30°-60°)	4711.0	36.3			
FH (60°-80°)	699.8	5.4			G1/1800
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1096.9	8.5	B3/2500		
BM (30°-60°)	4562.7	35.2	B3/5000		
BH (60°-80°)	742.8	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7
2.5°	2118.1	2120.2	2124.4	2131.8	2139.2	2149.7	2153.9	2159.2	2158.2	2164.5	2164.5
5°	2107.5	2110.7	2117.0	2127.6	2140.2	2160.3	2165.5	2178.2	2190.9	2206.7	2212.0
7.5°	2120.2	2124.4	2131.8	2148.7	2167.7	2194.0	2204.6	2225.7	2250.0	2278.5	2290.1
10°	2144.4	2149.7	2162.4	2189.8	2220.4	2260.5	2270.0	2296.4	2335.5	2374.5	2397.7
12.5°	2171.9	2180.3	2203.5	2246.8	2292.2	2345.0	2359.7	2392.4	2434.7	2485.3	2517.0
15°	2203.5	2210.9	2246.8	2308.0	2378.7	2448.4	2465.3	2496.9	2544.4	2594.0	2638.3
17.5°	2270.0	2282.7	2324.9	2395.6	2477.9	2560.2	2579.2	2615.1	2653.1	2692.2	2734.4
20°	2360.8	2371.3	2425.2	2512.8	2609.8	2684.8	2703.8	2735.4	2753.4	2773.4	2809.3
22.5°	2451.5	2466.3	2527.5	2631.0	2744.9	2826.2	2841.0	2870.5	2857.8	2851.5	2874.7
25°	2564.5	2584.5	2644.7	2757.6	2873.7	2973.9	2985.5	3010.9	2989.8	2957.1	2956.0
27.5°	2704.8	2722.8	2785.0	2901.1	3016.1	3120.6	3142.8	3176.6	3130.1	3090.0	3061.5
30°	2871.6	2883.2	2951.8	3075.2	3193.4	3292.6	3321.1	3354.9	3320.1	3253.6	3225.1
32.5°	3065.8	3081.6	3160.7	3290.5	3396.1	3495.3	3523.8	3566.0	3528.0	3453.1	3417.2
35°	3299.0	3314.8	3398.2	3539.6	3647.2	3749.6	3769.7	3804.5	3757.0	3670.5	3642.0
37.5°	3552.3	3572.3	3677.8	3811.9	3924.8	4044.0	4045.1	4055.7	3988.1	3880.5	3848.8
40°	3837.2	3863.6	3969.1	4108.4	4244.6	4341.7	4340.6	4311.0	4197.1	4030.3	3981.8
42.5°	4119.0	4140.1	4246.7	4390.2	4526.3	4618.1	4590.7	4518.9	4354.3	4127.4	4063.0
45°	4322.7	4338.5	4450.4	4611.8	4750.1	4807.1	4757.5	4670.9	4448.2	4188.6	4093.6
47.5°	4418.7	4439.8	4552.7	4713.1	4869.3	4902.0	4842.9	4761.7	4503.1	4245.6	4117.9
50°	4367.0	4394.4	4522.1	4670.9	4847.2	4914.7	4872.5	4791.2	4561.2	4301.5	4161.2
52.5°	4233.0	4259.3	4420.8	4601.3	4800.7	4934.7	4933.7	4867.2	4627.6	4317.4	4163.3
55°	3774.9	3826.6	4077.8	4389.1	4743.7	4993.8	5019.2	4948.5	4638.2	4321.6	4185.5
57.5°	2456.8	2547.6	2786.1	3191.3	3902.6	4542.2	4713.1	4730.0	4562.2	4303.7	4189.7
60°	1025.8	1098.6	1287.5	1556.6	2144.4	2905.3	3236.7	3569.1	3970.2	4115.8	4150.6
62.5°	637.4	643.8	662.8	724.0	920.3	1291.7	1504.9	1816.2	2412.5	2920.1	3154.4
65°	575.2	578.3	582.5	578.3	587.8	633.2	690.2	798.9	1041.6	1293.8	1593.6
67.5°	506.6	510.8	513.9	510.8	513.9	516.1	522.4	531.9	576.2	612.1	639.5
70°	409.5	415.8	421.1	419.0	431.6	431.6	438.0	445.4	467.5	493.9	512.9
72.5°	312.4	307.1	313.4	315.5	327.2	333.5	343.0	351.4	376.8	392.6	416.9
75°	202.6	197.3	206.8	212.1	228.0	236.4	244.8	253.3	271.2	281.8	305.0
77.5°	109.8	108.7	118.2	125.6	142.5	153.0	159.4	165.7	180.5	183.6	198.4
80°	63.3	63.3	69.7	74.9	85.5	97.1	103.4	108.7	119.3	122.4	128.8
82.5°	34.8	34.8	38.0	41.2	49.6	55.9	61.2	65.4	74.9	78.1	81.3
85°	16.9	15.8	17.9	20.1	23.2	26.4	29.5	31.7	39.0	41.2	45.4
87.5°	2.1	2.1	2.1	3.2	4.2	6.3	7.4	7.4	11.6	13.7	15.8
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°	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7	2149.7
2.5°	2170.8	2157.1	2165.5	2168.7	2168.7	2165.5	2151.8	2147.6	2141.3	2131.8	2131.8
5°	2219.4	2208.8	2210.9	2205.7	2193.0	2177.2	2151.8	2139.2	2128.6	2117.0	2115.9
7.5°	2302.7	2289.0	2286.9	2266.9	2233.1	2199.3	2161.3	2138.1	2122.3	2107.5	2106.4
10°	2411.4	2398.8	2382.9	2342.8	2293.2	2243.6	2191.9	2160.3	2137.1	2115.9	2114.9
12.5°	2532.8	2518.0	2488.5	2429.4	2367.1	2318.6	2259.5	2210.9	2176.1	2147.6	2142.3
15°	2664.7	2643.6	2593.0	2523.3	2462.1	2410.4	2347.1	2277.4	2224.6	2179.3	2174.0
17.5°	2766.0	2738.6	2683.7	2618.3	2567.6	2515.9	2433.6	2346.0	2270.0	2213.0	2204.6
20°	2835.7	2813.5	2751.3	2702.7	2673.2	2627.8	2531.8	2432.5	2347.1	2275.3	2271.1
22.5°	2900.1	2873.7	2812.5	2784.0	2784.0	2753.4	2661.6	2544.4	2444.2	2360.8	2350.2
25°	2972.9	2944.4	2898.0	2894.8	2909.6	2895.8	2785.0	2659.4	2542.3	2448.4	2431.5
27.5°	3074.2	3042.5	3015.1	3034.1	3055.2	3040.4	2916.9	2771.3	2647.8	2552.9	2538.1
30°	3235.7	3196.6	3171.3	3194.5	3235.7	3192.4	3058.4	2904.3	2779.8	2675.3	2667.9
32.5°	3423.5	3379.2	3352.8	3389.7	3426.7	3359.1	3226.2	3078.4	2947.6	2837.8	2825.1
35°	3649.4	3593.4	3554.4	3604.0	3642.0	3575.5	3443.6	3303.2	3157.6	3043.6	3026.7
37.5°	3849.9	3782.3	3755.9	3825.6	3876.2	3833.0	3689.5	3557.5	3398.2	3273.7	3266.3
40°	3995.5	3929.0	3910.0	4025.1	4113.7	4103.1	3974.4	3823.5	3673.6	3530.1	3516.4
42.5°	4058.8	4012.4	4016.6	4171.7	4308.9	4376.5	4261.4	4100.0	3955.4	3806.6	3797.1
45°	4072.5	4044.0	4077.8	4272.0	4452.5	4590.7	4492.6	4357.5	4193.9	4050.4	4046.2
47.5°	4087.3	4071.5	4123.2	4329.0	4543.2	4703.6	4648.8	4509.4	4343.8	4203.4	4192.8
50°	4122.1	4115.8	4173.9	4369.1	4586.5	4734.2	4672.0	4533.7	4363.8	4225.6	4200.2
52.5°	4132.7	4122.1	4205.5	4431.4	4658.3	4733.2	4599.2	4418.7	4247.7	4093.6	4067.3
55°	4165.4	4146.4	4203.4	4454.6	4757.5	4794.4	4594.9	4324.8	4086.3	3876.2	3814.0
57.5°	4173.9	4152.7	4189.7	4416.6	4649.8	4617.1	4038.8	3490.0	3040.4	2807.2	2833.6
60°	4128.5	4134.8	4071.5	4046.2	3729.6	3292.6	2472.7	1976.6	1552.4	1373.0	1412.0
62.5°	3142.8	3169.2	2952.8	2567.6	1974.5	1565.1	1035.3	804.2	680.7	649.0	654.3
65°	1586.2	1622.1	1397.3	1155.6	859.0	694.4	600.5	581.5	575.2	567.8	567.8
67.5°	627.9	638.5	630.0	589.9	548.8	534.0	529.8	527.7	520.3	516.1	517.1
70°	504.5	512.9	500.2	474.9	458.0	457.0	454.8	450.6	445.4	445.4	448.5
72.5°	411.6	420.0	402.1	386.3	373.6	364.1	358.8	355.6	348.3	348.3	351.4
75°	302.9	308.2	293.4	291.3	277.6	268.1	259.6	255.4	245.9	241.7	244.8
77.5°	201.6	200.5	193.1	193.1	187.8	176.2	166.7	157.2	144.6	136.1	138.2
80°	130.9	130.9	127.7	127.7	122.4	112.9	101.3	91.8	84.4	78.1	78.1
82.5°	83.4	82.3	81.3	80.2	78.1	68.6	60.2	53.8	48.5	44.3	45.4
85°	46.4	46.4	44.3	44.3	40.1	34.8	30.6	26.4	23.2	22.2	22.2
87.5°	15.8	15.8	14.8	14.8	12.7	9.5	7.4	6.3	5.3	4.2	5.3
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)