

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: P637258

Luminaire Tested: GWS-SA4C-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

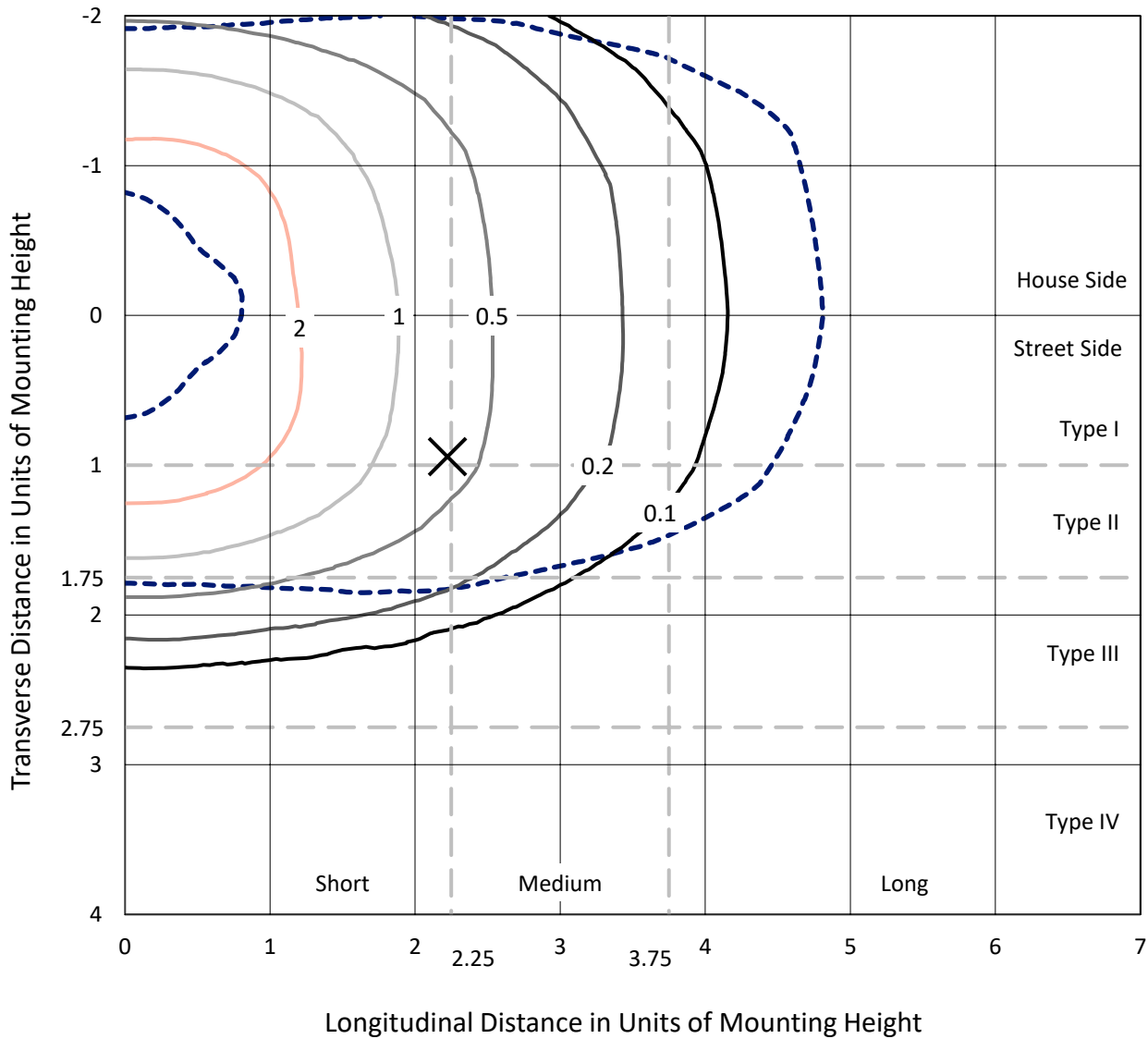
Lumens per Lamp: N/A  
Luminaire Lumens: 19982.9 lumens  
Efficiency: N/A  
Efficacy: 155.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

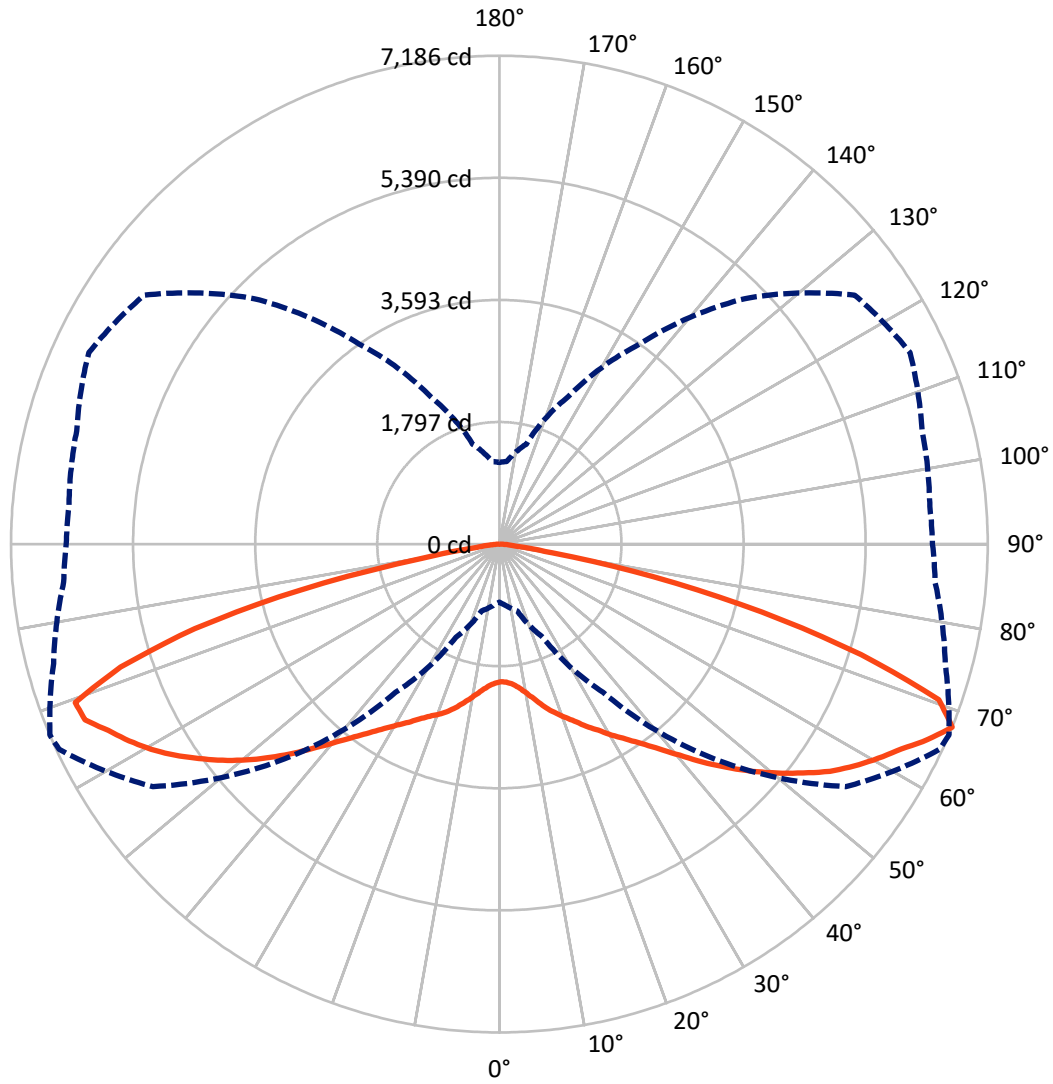
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA4C-740-U-RW-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9881.2	0.0	9881.2
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	10101.7	0.0	10101.7
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	19982.9	0.0	19982.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.5	1.0
10°-20°	670.7	3.4
20°-30°	1315.9	6.6
30°-40°	2241.8	11.2
40°-50°	3599.9	18.0
50°-60°	4891.4	24.5
60°-70°	4679.0	23.4
70°-80°	2224.6	11.1
80°-90°	161.2	0.8
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°	19982.9	100.0
0°-180°	19982.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637258

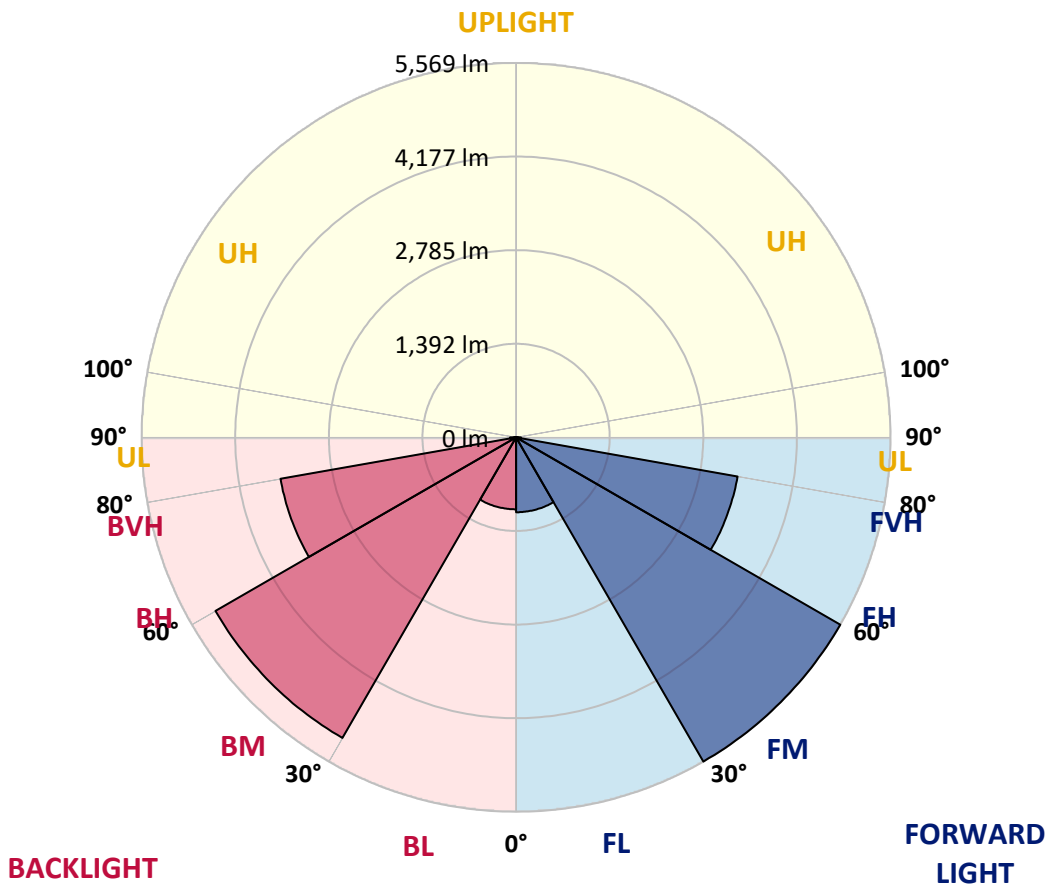
CATALOG NUMBER: GWS-SA4C-740-U-RW-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.2	5.6			
FM (30°-60°)	5569.4	27.9			
FH (60°-80°)	3345.7	16.7			G2/5000
FVH (80°-90°)	72.5	0.4			G1/100
BL (0°-30°)	1070.8	5.4	B3/2500		
BM (30°-60°)	5163.7	25.8	B4/8500		
BH (60°-80°)	3557.9	17.8	B4/5000		G4/5000
BVH (80°-90°)	88.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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 CATALOG NUMBER: GWS-SA4C-740-U-RW-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4
2.5°	1981.6	1984.4	1988.6	1996.9	2005.3	2017.8	2030.3	2028.9	2034.5	2038.7	2042.9
5°	1970.5	1973.3	1980.2	1991.4	2003.9	2024.8	2051.2	2062.3	2070.7	2086.0	2099.9
7.5°	1994.2	1999.7	2009.5	2024.8	2044.3	2070.7	2106.9	2126.4	2138.9	2166.7	2190.4
10°	2026.2	2033.1	2052.6	2081.8	2111.1	2151.4	2197.3	2226.6	2234.9	2271.1	2315.6
12.5°	2056.8	2065.1	2097.1	2150.0	2202.9	2257.2	2311.4	2347.6	2350.4	2399.1	2449.2
15°	2105.5	2112.4	2155.6	2223.8	2304.5	2379.6	2446.4	2471.5	2482.6	2517.4	2580.0
17.5°	2212.6	2221.0	2276.7	2350.4	2435.3	2514.6	2581.4	2602.3	2602.3	2631.5	2683.0
20°	2328.1	2336.5	2410.2	2504.9	2607.9	2688.6	2740.1	2720.6	2713.6	2722.0	2758.1
22.5°	2457.6	2472.9	2543.8	2653.8	2780.4	2879.2	2905.7	2847.2	2827.7	2808.2	2816.6
25°	2623.2	2641.2	2710.8	2827.7	2951.6	3055.9	3071.3	2980.8	2969.7	2901.5	2876.4
27.5°	2813.8	2827.7	2914.0	3029.5	3145.0	3232.7	3249.4	3138.0	3100.5	3005.8	2947.4
30°	3060.1	3072.6	3147.8	3261.9	3362.1	3423.3	3444.2	3291.1	3261.9	3117.2	3026.7
32.5°	3328.7	3334.3	3410.8	3520.7	3609.8	3668.2	3639.0	3460.9	3417.8	3254.9	3131.1
35°	3636.2	3636.2	3735.0	3824.1	3895.1	3911.8	3856.1	3652.9	3602.8	3426.1	3271.6
37.5°	3938.2	3946.6	4038.4	4144.2	4206.8	4204.0	4102.4	3879.8	3822.7	3630.7	3459.5
40°	4265.2	4283.3	4375.2	4493.5	4553.3	4545.0	4389.1	4141.4	4082.9	3856.1	3689.1
42.5°	4565.8	4595.0	4702.2	4823.3	4888.7	4883.1	4720.3	4442.0	4384.9	4128.9	3961.9
45°	4805.2	4835.8	4969.4	5137.8	5242.1	5232.4	5068.2	4753.7	4684.1	4415.5	4231.8
47.5°	5015.3	5047.3	5196.2	5374.3	5539.9	5556.6	5406.3	5068.2	4994.4	4723.1	4515.7
50°	5176.7	5192.0	5359.0	5553.9	5745.9	5839.1	5708.3	5384.1	5295.0	5026.4	4792.7
52.5°	5164.2	5185.1	5391.0	5655.4	5912.9	6066.0	5975.5	5681.9	5595.6	5303.4	5075.1
55°	4909.5	4930.4	5175.3	5560.8	6006.1	6231.6	6221.8	5965.8	5903.1	5585.9	5368.8
57.5°	4538.0	4583.9	4827.4	5243.5	5883.7	6363.8	6402.7	6224.6	6159.2	5862.8	5659.6
60°	3872.8	3934.0	4215.1	4755.1	5491.2	6319.2	6596.2	6443.1	6402.7	6120.2	5922.6
62.5°	2813.8	2858.3	3232.7	3941.0	4909.5	6002.0	6759.0	6668.5	6637.9	6351.2	6160.6
65°	1685.2	1786.8	2087.4	2787.4	3960.5	5403.6	6669.9	6963.5	6931.5	6589.2	6363.8
67.5°	853.0	899.0	1017.3	1511.3	2663.5	4471.2	6223.2	7147.2	7186.2	6792.4	6436.1
70°	528.8	541.3	574.7	745.9	1330.4	2937.7	5089.1	6668.5	6859.2	6760.4	6248.3
72.5°	424.4	427.2	432.8	464.8	638.7	1373.5	3217.4	5222.7	5566.4	6313.7	5979.7
75°	352.1	353.5	354.9	364.6	398.0	560.8	1565.5	3588.9	3991.1	5366.0	5544.1
77.5°	282.5	275.5	281.1	285.3	293.6	313.1	539.9	1914.8	2322.6	3522.1	4287.5
80°	183.7	180.9	192.0	196.2	204.6	217.1	288.1	649.9	789.0	1281.7	1363.8
82.5°	98.8	93.2	116.9	112.7	116.9	126.6	169.8	238.0	267.2	386.9	327.0
85°	30.6	30.6	32.0	37.6	45.9	44.5	73.8	116.9	129.4	165.6	122.5
87.5°	5.6	5.6	5.6	5.6	5.6	7.0	15.3	23.7	32.0	57.1	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637258  
 CATALOG NUMBER: GWS-SA4C-740-U-RW-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4	2023.4
2.5°	2051.2	2038.7	2045.6	2049.8	2048.4	2045.6	2031.7	2028.9	2022.0	2010.9	2008.1
5°	2112.4	2098.5	2099.9	2095.7	2081.8	2063.7	2033.1	2017.8	2005.3	1991.4	1990.0
7.5°	2208.5	2193.2	2189.0	2169.5	2130.5	2088.8	2040.1	2012.2	1991.4	1973.3	1970.5
10°	2330.9	2315.6	2301.7	2255.8	2191.8	2136.1	2072.1	2031.7	2001.1	1978.8	1974.7
12.5°	2467.3	2454.8	2420.0	2353.2	2276.7	2211.2	2145.8	2095.7	2051.2	2017.8	2013.6
15°	2619.0	2591.2	2538.3	2452.0	2379.6	2326.7	2247.4	2179.2	2108.3	2063.7	2054.0
17.5°	2724.7	2701.1	2638.5	2555.0	2497.9	2452.0	2358.8	2261.3	2165.3	2099.9	2086.0
20°	2799.9	2774.8	2703.9	2642.6	2624.5	2585.6	2477.0	2364.3	2253.0	2172.3	2154.2
22.5°	2854.2	2827.7	2755.4	2724.7	2749.8	2742.8	2637.1	2509.0	2376.8	2280.8	2258.6
25°	2905.7	2880.6	2816.6	2827.7	2894.5	2915.4	2801.3	2652.4	2502.1	2389.4	2362.9
27.5°	2954.4	2922.4	2893.1	2954.4	3049.0	3088.0	2966.9	2798.5	2635.7	2520.2	2499.3
30°	3029.5	2991.9	2987.8	3076.8	3227.1	3260.5	3126.9	2958.5	2797.1	2680.2	2653.8
32.5°	3124.1	3089.3	3092.1	3225.7	3399.7	3427.5	3313.4	3156.1	2994.7	2877.8	2841.6
35°	3252.2	3209.0	3232.7	3396.9	3572.2	3623.7	3531.9	3401.1	3243.8	3124.1	3083.8
37.5°	3428.9	3366.3	3415.0	3587.5	3764.3	3840.8	3769.8	3672.4	3516.6	3395.5	3357.9
40°	3654.3	3602.8	3622.3	3813.0	3995.3	4087.1	4042.6	3946.6	3792.1	3665.5	3622.3
42.5°	3921.5	3870.0	3863.1	4066.2	4248.5	4387.7	4344.6	4256.9	4096.9	3952.1	3910.4
45°	4183.1	4135.8	4145.6	4352.9	4557.5	4709.2	4666.0	4563.0	4389.1	4222.1	4188.7
47.5°	4455.9	4416.9	4425.3	4645.1	4870.6	5022.3	4968.0	4842.8	4639.6	4461.5	4421.1
50°	4735.6	4691.1	4703.6	4934.6	5178.1	5321.5	5238.0	5052.9	4828.8	4654.9	4620.1
52.5°	5013.9	4961.0	4993.0	5211.5	5463.4	5577.5	5423.0	5199.0	4981.9	4809.4	4770.4
55°	5334.0	5278.3	5243.5	5477.3	5726.4	5773.7	5562.2	5300.6	5043.1	4846.9	4823.3
57.5°	5626.2	5578.9	5513.5	5747.3	5931.0	5896.2	5669.4	5272.8	4894.2	4642.4	4609.0
60°	5887.8	5847.5	5790.4	5989.4	6072.9	5995.0	5583.1	4942.9	4526.9	4263.8	4248.5
62.5°	6128.6	6085.4	6032.6	6202.3	6191.2	6010.3	5190.7	4436.4	3879.8	3597.3	3572.2
65°	6319.2	6280.3	6265.0	6398.6	6380.5	5711.1	4579.7	3607.0	2834.7	2516.0	2506.3
67.5°	6373.5	6358.2	6440.3	6667.1	6384.6	5109.9	3591.7	2392.2	1522.4	1220.4	1202.3
70°	6170.3	6168.9	6404.1	6728.4	5805.7	3903.4	2119.4	1078.5	765.4	679.1	668.0
72.5°	5905.9	5901.8	6088.2	5804.3	4305.6	2136.1	892.0	577.5	478.7	455.1	455.1
75°	5471.8	5460.6	5601.2	4415.5	2421.4	804.3	473.1	396.6	375.7	371.6	371.6
77.5°	4460.1	4366.8	4145.6	2728.9	844.7	395.2	313.1	311.7	299.2	297.8	297.8
80°	1466.7	1466.7	1704.7	1040.9	372.9	243.5	221.3	232.4	219.9	211.5	210.1
82.5°	239.4	329.8	469.0	297.8	201.8	151.7	136.4	144.7	151.7	121.1	121.1
85°	94.6	123.9	180.9	139.2	93.2	61.2	65.4	72.4	64.0	55.7	54.3
87.5°	36.2	44.5	64.0	33.4	19.5	11.1	7.0	7.0	5.6	5.6	5.6
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)