

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: P637268

Luminaire Tested: GWS-SA4C-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

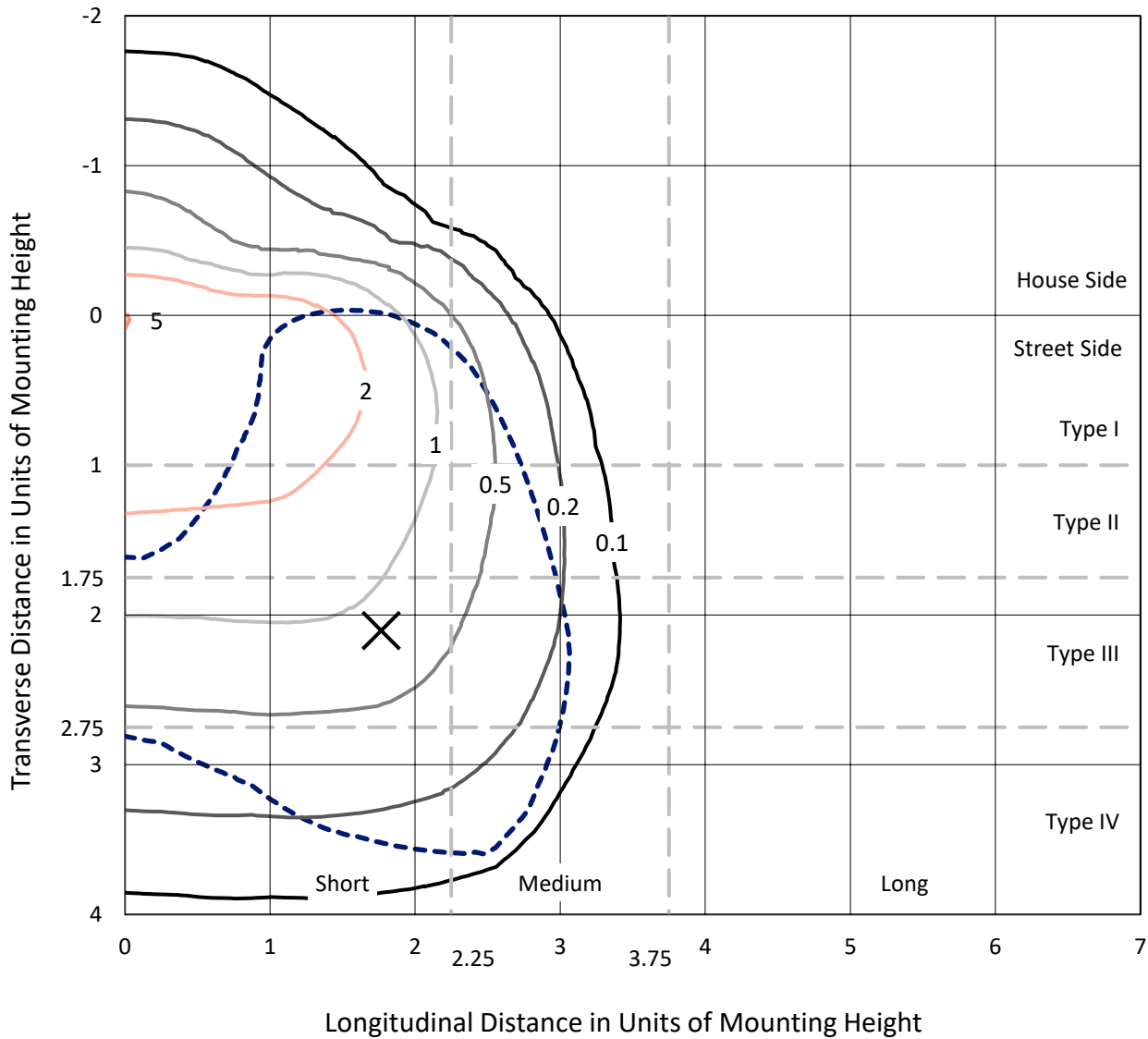
Lumens per Lamp: N/A  
Luminaire Lumens: 18642.8 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

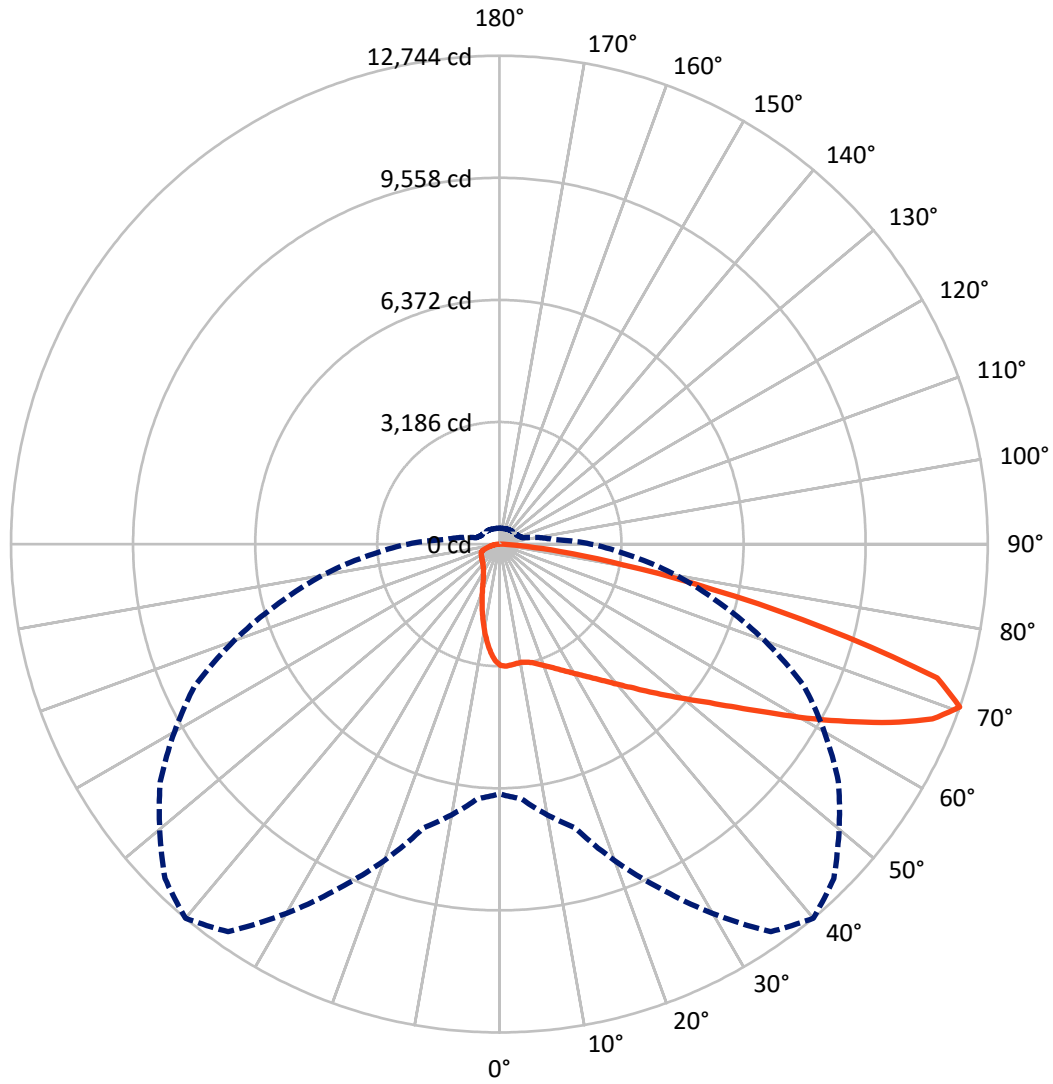
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2871.5	0.0	2871.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	15771.3	0.0	15771.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	18642.8	0.0	18642.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.7	1.5
10°-20°	729.0	3.9
20°-30°	1144.6	6.1
30°-40°	1721.0	9.2
40°-50°	2656.4	14.2
50°-60°	3944.9	21.2
60°-70°	4972.5	26.7
70°-80°	2875.6	15.4
80°-90°	319.1	1.7
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°	18642.8	100.0
0°-180°	18642.8	100.0

**Coefficient of Utilization**



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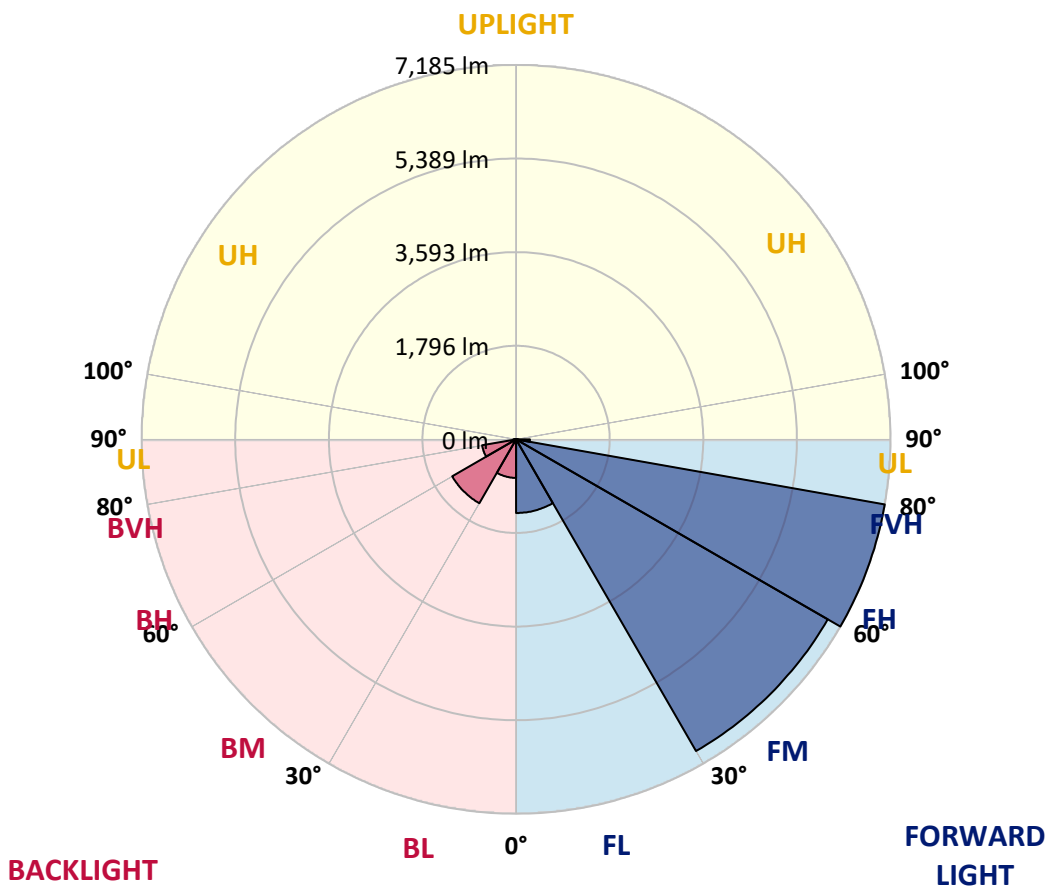
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.3	7.6			
FM (30°-60°)	6906.9	37.0			
FH (60°-80°)	7185.4	38.5			G3/7500
FVH (80°-90°)	265.8	1.4			G3/500
BL (0°-30°)	740.0	4.0	B2/1000		
BM (30°-60°)	1415.4	7.6	B2/2500		
BH (60°-80°)	662.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	53.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3185.2	3190.8	3195.0	3200.5	3197.8	3189.4	3196.4	3196.4	3181.1	3164.4	3149.1
5°	3189.4	3196.4	3195.0	3193.6	3182.5	3168.5	3168.5	3160.2	3133.8	3107.3	3082.3
7.5°	3181.1	3179.7	3178.3	3174.1	3161.6	3146.3	3143.5	3126.8	3092.0	3055.8	3019.6
10°	3143.5	3142.1	3146.3	3156.0	3153.2	3139.3	3139.3	3124.0	3083.7	3039.1	2991.8
12.5°	3112.9	3112.9	3129.6	3156.0	3165.8	3160.2	3161.6	3150.5	3104.5	3051.7	2996.0
15°	3117.1	3118.4	3154.6	3197.8	3215.9	3211.7	3213.1	3200.5	3149.1	3096.2	3021.0
17.5°	3144.9	3151.8	3214.5	3274.3	3298.0	3292.4	3282.7	3261.8	3203.3	3143.5	3051.7
20°	3203.3	3214.5	3295.2	3370.3	3398.1	3385.6	3368.9	3327.2	3263.2	3197.8	3085.1
22.5°	3318.8	3325.8	3414.8	3488.6	3510.9	3495.6	3462.2	3402.3	3328.6	3260.4	3125.4
25°	3481.6	3490.0	3574.9	3643.1	3637.5	3619.4	3573.5	3499.7	3412.1	3339.7	3183.9
27.5°	3675.1	3689.0	3772.5	3826.7	3790.6	3764.1	3712.6	3623.6	3524.8	3459.4	3272.9
30°	3886.6	3892.1	3963.1	4017.4	3961.7	3925.5	3862.9	3766.9	3677.8	3629.1	3406.5
32.5°	4091.1	4096.7	4157.9	4188.5	4130.1	4103.7	4049.4	3947.8	3885.2	3858.7	3605.5
35°	4306.8	4305.4	4355.5	4382.0	4322.1	4311.0	4255.3	4177.4	4166.3	4201.1	3896.3
37.5°	4522.5	4510.0	4536.4	4571.2	4537.8	4549.0	4512.8	4486.3	4529.5	4619.9	4283.2
40°	4695.1	4695.1	4722.9	4766.0	4777.2	4825.9	4805.0	4839.8	4978.9	5194.6	4761.9
42.5°	4848.1	4849.5	4908.0	4974.8	5055.5	5130.6	5147.3	5237.8	5525.8	5864.0	5363.0
45°	5008.2	5009.6	5088.9	5186.3	5357.4	5500.8	5534.2	5737.3	6149.2	6561.1	6015.6
47.5°	5193.2	5177.9	5287.9	5450.7	5694.2	5900.1	5986.4	6274.5	6794.9	7301.4	6630.7
50°	5402.0	5370.0	5492.4	5773.5	6074.1	6356.6	6501.3	6831.1	7487.9	7984.7	7209.6
52.5°	5637.1	5619.1	5747.1	6089.4	6548.6	6874.2	7070.4	7503.2	8161.4	8665.1	7668.8
55°	5929.4	5886.2	6071.3	6506.9	7105.2	7519.9	7752.3	8168.4	8897.5	9283.0	8019.5
57.5°	6249.4	6202.1	6449.8	7028.7	7828.8	8283.9	8574.7	8917.0	9590.5	9756.1	8225.4
60°	6594.5	6579.2	6872.8	7641.0	8691.6	9220.4	9430.5	9740.8	10193.1	10030.2	8173.9
62.5°	6910.4	6904.8	7332.0	8304.7	9605.8	10187.5	10354.5	10436.6	10627.2	10012.2	7764.8
65°	7243.0	7290.3	7867.8	9074.3	10653.7	11224.2	11293.8	11085.0	10773.3	9537.6	6927.1
67.5°	7284.7	7376.6	8204.5	9795.1	11647.2	12185.7	12130.1	11331.3	10342.0	8217.1	5429.8
70°	6515.2	6675.2	7667.4	9905.0	12347.2	12743.8	12341.6	10801.2	8776.5	5953.0	3414.8
72.5°	5443.7	5581.5	6458.2	8446.7	11444.1	11949.2	11405.1	9142.4	6202.1	3414.8	1739.4
75°	4237.2	4397.3	5205.8	6714.2	8567.7	8769.5	8496.8	6376.1	3409.3	1408.2	790.4
77.5°	2585.5	2701.0	3330.0	4549.0	5994.8	5692.8	4824.5	3574.9	1495.9	674.9	488.4
80°	1143.8	1214.8	1640.6	2443.6	3463.6	3274.3	2581.3	1526.5	818.2	428.6	340.9
82.5°	613.7	659.6	808.5	967.1	1521.0	1590.5	1290.0	879.5	439.7	244.9	194.8
85°	270.0	296.4	367.4	350.7	499.6	491.2	495.4	603.9	210.1	112.7	126.6
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	15.3	80.7	20.9	33.4	29.2
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°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3132.4	3107.3	3100.4	3092.0	3076.7	3050.3	3030.8	3008.5	2998.8	2987.6	2989.0
5°	3054.4	3023.8	2994.6	2957.0	2909.7	2856.8	2820.7	2778.9	2756.6	2735.8	2741.3
7.5°	2987.6	2940.3	2880.5	2801.2	2716.3	2621.7	2545.1	2485.3	2444.9	2417.1	2431.0
10°	2945.9	2890.2	2785.9	2656.5	2513.1	2368.4	2258.5	2155.5	2091.5	2041.4	2038.6
12.5°	2937.5	2865.2	2713.5	2525.7	2318.3	2124.9	1963.5	1824.3	1739.4	1676.8	1700.5
15°	2945.9	2854.1	2650.9	2404.6	2143.0	1881.4	1681.0	1521.0	1419.4	1362.3	1358.1
17.5°	2955.6	2842.9	2579.9	2273.8	1959.3	1660.1	1427.7	1258.0	1153.6	1096.5	1097.9
20°	2964.0	2826.2	2496.4	2130.5	1772.8	1454.2	1213.4	1052.0	958.8	917.0	924.0
22.5°	2977.9	2809.5	2407.4	1977.4	1582.2	1255.2	1043.7	912.9	857.2	829.4	830.8
25°	3004.3	2799.8	2315.5	1810.4	1394.3	1096.5	926.8	839.1	804.3	787.6	786.2
27.5°	3058.6	2808.1	2219.5	1649.0	1224.6	975.5	851.6	794.6	770.9	759.8	758.4
30°	3149.1	2841.5	2136.0	1484.8	1078.4	880.8	800.1	765.3	751.4	741.7	740.3
32.5°	3286.8	2904.2	2045.6	1331.7	960.2	811.3	759.8	741.7	732.0	726.4	726.4
35°	3495.6	3018.3	1956.5	1198.1	868.3	757.0	727.8	720.8	712.5	709.7	712.5
37.5°	3796.1	3200.5	1875.8	1081.2	802.9	715.3	693.0	695.8	688.8	693.0	697.2
40°	4177.4	3444.1	1807.6	985.2	754.2	684.6	662.4	672.1	667.9	672.1	679.1
42.5°	4660.3	3746.0	1756.1	910.1	719.4	659.6	638.7	648.5	645.7	651.2	658.2
45°	5198.8	4144.0	1732.5	857.2	694.4	641.5	619.2	626.2	623.4	627.6	634.5
47.5°	5715.1	4505.8	1753.3	826.6	673.5	626.2	602.5	605.3	603.9	602.5	606.7
50°	6160.4	4793.9	1813.2	816.8	659.6	610.9	588.6	590.0	585.8	577.5	580.3
52.5°	6523.6	5024.9	1849.4	816.8	652.6	594.2	573.3	574.7	566.4	555.2	556.6
55°	6762.9	5118.1	1820.1	815.4	649.9	580.3	558.0	559.4	551.1	537.1	538.5
57.5°	6831.1	5027.6	1697.7	800.1	647.1	569.1	542.7	545.5	539.9	524.6	524.6
60°	6640.4	4696.5	1473.6	765.3	640.1	562.2	531.6	535.7	533.0	517.7	517.7
62.5°	6140.9	4107.8	1206.5	712.5	620.6	553.8	521.8	530.2	537.1	528.8	527.4
65°	5205.8	3291.0	981.0	654.0	595.6	539.9	507.9	528.8	544.1	555.2	555.2
67.5°	3906.1	2355.9	800.1	592.8	558.0	512.1	489.8	509.3	520.4	527.4	531.6
70°	2380.9	1386.0	630.4	521.8	503.7	470.3	453.6	434.2	418.9	416.1	417.5
72.5°	1164.7	793.2	512.1	443.9	430.0	399.4	361.8	353.5	346.5	342.3	340.9
75°	641.5	552.4	423.0	368.8	343.7	306.1	297.8	283.9	281.1	275.5	276.9
77.5°	453.6	435.6	349.3	299.2	261.6	242.1	246.3	236.6	236.6	232.4	231.0
80°	340.9	342.3	268.6	218.5	193.4	186.5	190.6	190.6	187.9	186.5	185.1
82.5°	215.7	243.5	180.9	140.5	137.8	139.2	137.8	136.4	139.2	135.0	133.6
85°	148.9	175.3	109.9	83.5	83.5	82.1	84.9	83.5	86.3	82.1	82.1
87.5°	33.4	77.9	40.4	25.0	26.4	25.0	26.4	27.8	30.6	32.0	32.0
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)