

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: P639841

Luminaire Tested: GWS-SA5C-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-760-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

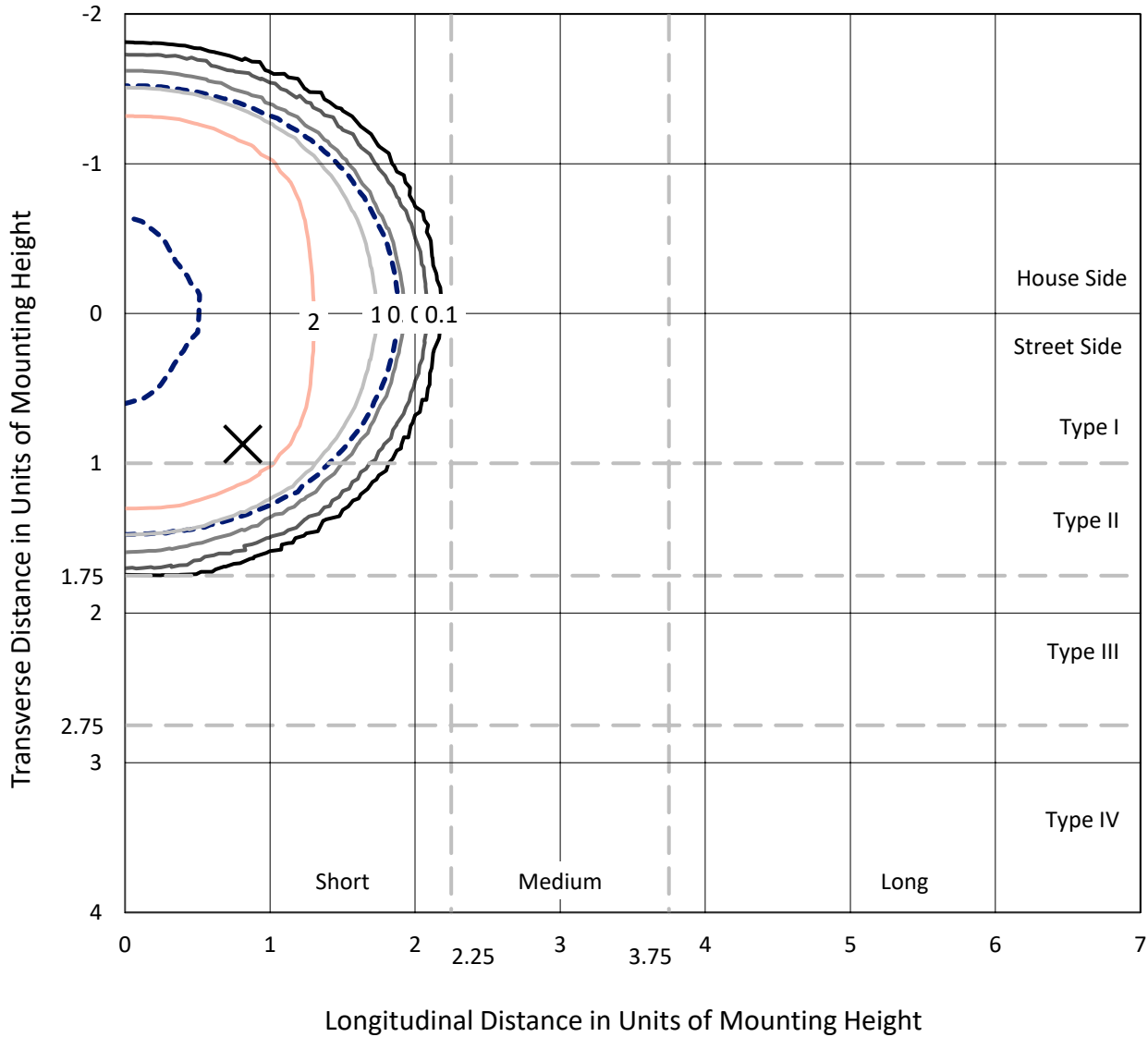
Lumens per Lamp: N/A  
Luminaire Lumens: 15570.7 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

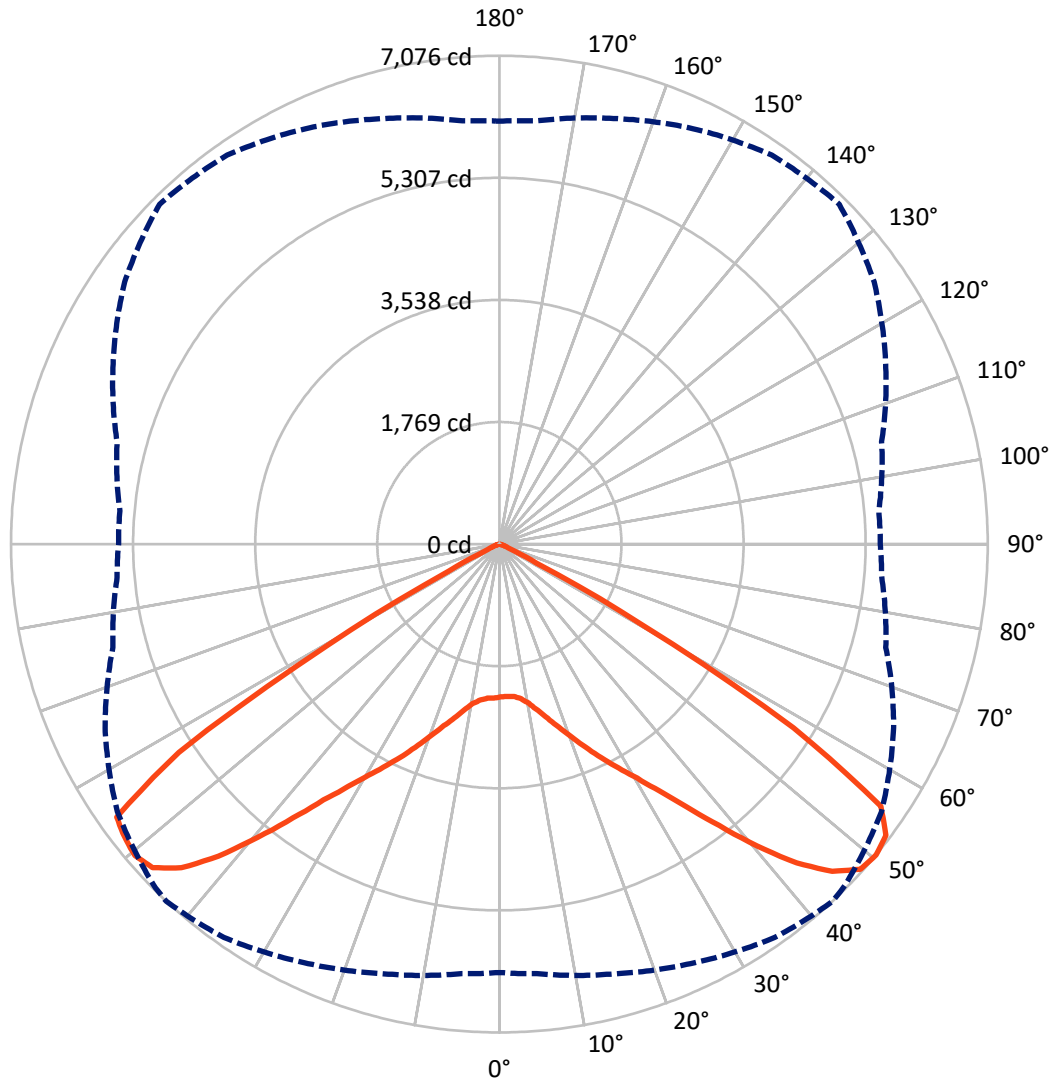
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7785.2	0.0	7785.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7785.5	0.0	7785.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15570.7	0.0	15570.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.1	1.4
10°-20°	750.5	4.8
20°-30°	1518.4	9.8
30°-40°	2817.2	18.1
40°-50°	4676.5	30.0
50°-60°	4772.5	30.7
60°-70°	782.6	5.0
70°-80°	34.3	0.2
80°-90°	0.5	0.0
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°	15570.7	100.0
0°-180°	15570.7	100.0

**Coefficient of Utilization**



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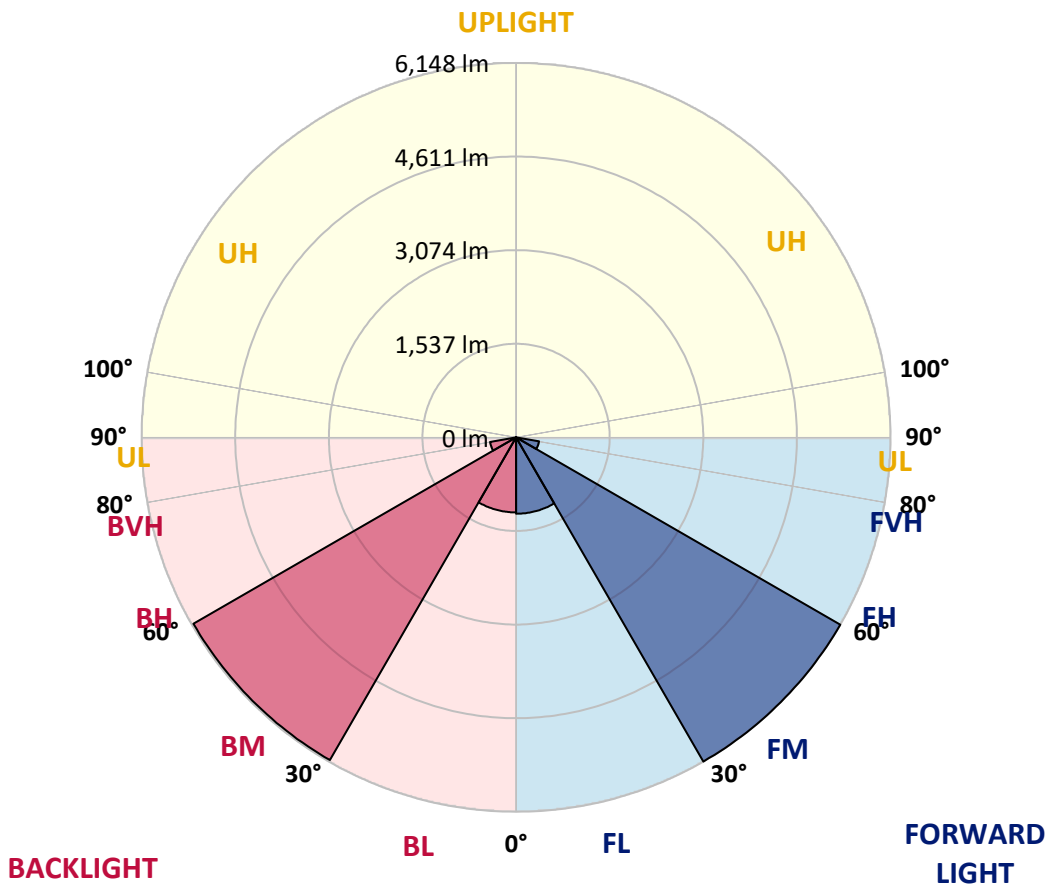
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.4	8.1			
FM (30°-60°)	6148.1	39.5			
FH (60°-80°)	382.9	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1232.6	7.9	B3/2500		
BM (30°-60°)	6118.2	39.3	B4/8500		
BH (60°-80°)	434.0	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7
2.5°	2173.4	2178.5	2185.4	2192.3	2200.9	2209.5	2214.7	2230.2	2226.7	2240.5	2240.5
5°	2149.2	2154.4	2163.0	2178.5	2197.5	2216.4	2230.2	2261.2	2278.4	2306.0	2316.3
7.5°	2161.3	2168.2	2178.5	2202.6	2231.9	2261.2	2276.7	2326.6	2361.1	2412.7	2442.0
10°	2200.9	2207.8	2225.0	2266.4	2304.2	2345.6	2364.5	2428.2	2483.3	2553.9	2595.3
12.5°	2245.7	2254.3	2288.7	2350.7	2416.2	2471.3	2497.1	2567.7	2624.6	2703.8	2769.2
15°	2292.2	2306.0	2359.3	2450.6	2543.6	2617.7	2645.2	2721.0	2777.8	2862.2	2936.3
17.5°	2400.7	2416.2	2476.5	2574.6	2702.1	2788.2	2812.3	2891.5	2934.5	2991.4	3068.9
20°	2536.7	2566.0	2640.1	2758.9	2898.4	2981.0	2998.3	3075.8	3072.3	3096.4	3163.6
22.5°	2705.5	2726.2	2807.1	2948.3	3105.0	3196.3	3235.9	3268.6	3225.6	3204.9	3248.0
25°	2881.2	2905.3	2993.1	3148.1	3323.8	3428.8	3461.5	3487.4	3418.5	3341.0	3346.1
27.5°	3108.5	3125.7	3211.8	3377.1	3552.8	3671.6	3700.9	3745.7	3654.4	3530.4	3496.0
30°	3378.9	3396.1	3487.4	3661.3	3835.2	3936.8	3981.6	4036.7	3936.8	3781.8	3742.2
32.5°	3695.7	3713.0	3830.1	4009.2	4152.1	4262.3	4305.4	4363.9	4284.7	4110.8	4066.0
35°	4074.6	4084.9	4222.7	4417.3	4568.9	4675.6	4704.9	4773.8	4686.0	4512.0	4487.9
37.5°	4513.8	4525.8	4675.6	4901.2	5056.2	5175.1	5221.6	5240.5	5133.7	4939.1	4920.2
40°	4996.0	5035.6	5182.0	5424.8	5598.7	5748.5	5789.9	5726.2	5576.3	5311.1	5276.7
42.5°	5498.8	5533.3	5696.9	5960.4	6161.9	6315.1	6316.8	6179.1	5924.2	5557.4	5505.7
45°	5917.3	5931.1	6142.9	6408.1	6656.1	6764.6	6774.9	6525.2	6141.2	5700.3	5590.1
47.5°	6204.9	6227.3	6411.6	6666.4	6940.3	7038.4	7017.8	6706.1	6244.5	5793.3	5610.8
50°	6208.4	6246.2	6446.0	6692.3	6957.5	7076.3	7047.0	6757.7	6303.1	5796.8	5560.8
52.5°	5659.0	5721.0	6046.5	6403.0	6809.4	7012.6	7019.5	6824.9	6280.7	5741.7	5516.0
55°	4269.2	4336.4	4746.2	5354.2	6139.5	6706.1	6804.2	6745.7	6254.9	5765.8	5595.3
57.5°	2259.5	2207.8	2435.1	3037.9	4024.7	5027.0	5314.6	5783.0	5967.3	5795.0	5741.7
60°	492.5	525.3	699.2	942.0	1570.6	2364.5	2645.2	3447.7	4401.8	4825.5	5132.0
62.5°	211.8	208.4	217.0	246.3	359.9	599.3	731.9	1195.2	1885.8	2590.1	3067.2
65°	173.9	175.7	182.5	182.5	170.5	172.2	180.8	273.8	440.9	618.3	830.1
67.5°	130.9	132.6	144.7	148.1	139.5	124.0	122.3	103.3	108.5	136.0	141.2
70°	82.7	82.7	89.6	93.0	93.0	86.1	84.4	74.1	72.3	82.7	93.0
72.5°	44.8	44.8	48.2	49.9	48.2	46.5	46.5	44.8	43.1	49.9	63.7
75°	18.9	18.9	20.7	20.7	18.9	18.9	18.9	18.9	18.9	22.4	34.4
77.5°	3.4	5.2	6.9	5.2	3.4	3.4	3.4	5.2	5.2	6.9	10.3
80°	1.7	1.7	3.4	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7	2214.7
2.5°	2252.6	2233.6	2240.5	2244.0	2238.8	2235.4	2216.4	2211.2	2202.6	2188.9	2185.4
5°	2328.3	2312.8	2311.1	2300.8	2276.7	2247.4	2211.2	2195.7	2178.5	2161.3	2157.9
7.5°	2455.8	2436.8	2424.8	2390.3	2335.2	2288.7	2228.5	2195.7	2173.4	2151.0	2145.8
10°	2619.4	2597.0	2562.6	2498.8	2424.8	2357.6	2287.0	2244.0	2209.5	2178.5	2176.8
12.5°	2793.3	2769.2	2707.2	2626.3	2536.7	2474.7	2385.2	2324.9	2273.2	2226.7	2221.6
15°	2975.9	2946.6	2862.2	2765.8	2683.1	2619.4	2521.2	2424.8	2345.6	2278.4	2271.5
17.5°	3115.4	3079.2	2979.3	2907.0	2839.8	2774.4	2664.2	2536.7	2431.7	2350.7	2331.8
20°	3203.2	3168.8	3074.0	3034.4	3003.4	2956.9	2826.0	2693.4	2576.3	2476.5	2459.2
22.5°	3287.6	3246.3	3163.6	3163.6	3187.7	3168.8	3027.5	2876.0	2738.2	2622.8	2597.0
25°	3382.3	3349.6	3291.0	3339.3	3399.5	3397.8	3253.1	3063.7	2905.3	2776.1	2750.3
27.5°	3520.1	3487.4	3466.7	3558.0	3633.7	3628.6	3470.1	3265.2	3098.1	2970.7	2946.6
30°	3762.9	3731.9	3709.5	3819.7	3916.2	3880.0	3706.1	3508.0	3339.3	3194.6	3177.4
32.5°	4086.7	4053.9	4024.7	4134.9	4221.0	4174.5	4009.2	3823.2	3628.6	3487.4	3452.9
35°	4512.0	4443.1	4413.9	4544.8	4580.9	4529.3	4370.8	4207.2	4000.6	3838.7	3816.3
37.5°	4951.2	4870.2	4849.6	4963.2	5021.8	5002.8	4816.9	4646.4	4422.5	4243.4	4217.5
40°	5326.6	5252.6	5216.4	5393.8	5526.4	5538.4	5371.4	5163.0	4899.5	4713.5	4667.0
42.5°	5547.0	5483.3	5474.7	5750.3	5967.3	6122.2	5922.5	5707.2	5429.9	5219.8	5182.0
45°	5597.0	5555.7	5628.0	5989.6	6327.2	6609.6	6439.1	6211.8	5912.1	5690.0	5653.8
47.5°	5591.8	5578.0	5707.2	6113.6	6540.7	6888.6	6804.2	6547.6	6258.3	6025.8	5991.4
50°	5517.8	5519.5	5734.8	6175.6	6626.8	6964.4	6880.0	6642.3	6384.0	6155.0	6127.4
52.5°	5488.5	5478.2	5683.1	6156.7	6714.7	6929.9	6740.5	6473.6	6186.0	5903.5	5862.2
55°	5591.8	5566.0	5690.0	6141.2	6725.0	6911.0	6411.6	5832.9	5243.9	4909.9	4882.3
57.5°	5746.8	5719.3	5777.8	6027.5	6186.0	5746.8	4718.7	3785.3	3179.1	2922.5	2810.5
60°	5132.0	5113.1	5068.3	4766.9	4088.4	3084.4	2101.0	1339.8	962.7	778.4	778.4
62.5°	3184.3	3158.4	2915.6	2166.5	1574.0	911.0	501.1	313.4	237.7	222.2	220.4
65°	893.8	888.6	735.4	520.1	330.7	204.9	180.8	184.3	180.8	175.7	173.9
67.5°	134.3	148.1	148.1	120.6	115.4	129.2	151.5	161.9	153.3	144.7	141.2
70°	86.1	93.0	89.6	77.5	82.7	96.4	108.5	110.2	105.1	96.4	94.7
72.5°	60.3	67.2	55.1	49.9	51.7	56.8	62.0	62.0	60.3	56.8	53.4
75°	36.2	36.2	25.8	24.1	24.1	25.8	25.8	29.3	29.3	27.6	25.8
77.5°	12.1	13.8	8.6	6.9	6.9	6.9	8.6	10.3	10.3	8.6	6.9
80°	1.7	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)