

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: P637311

Luminaire Tested: GWS-SA4C-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637311  
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-SA4C-750-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

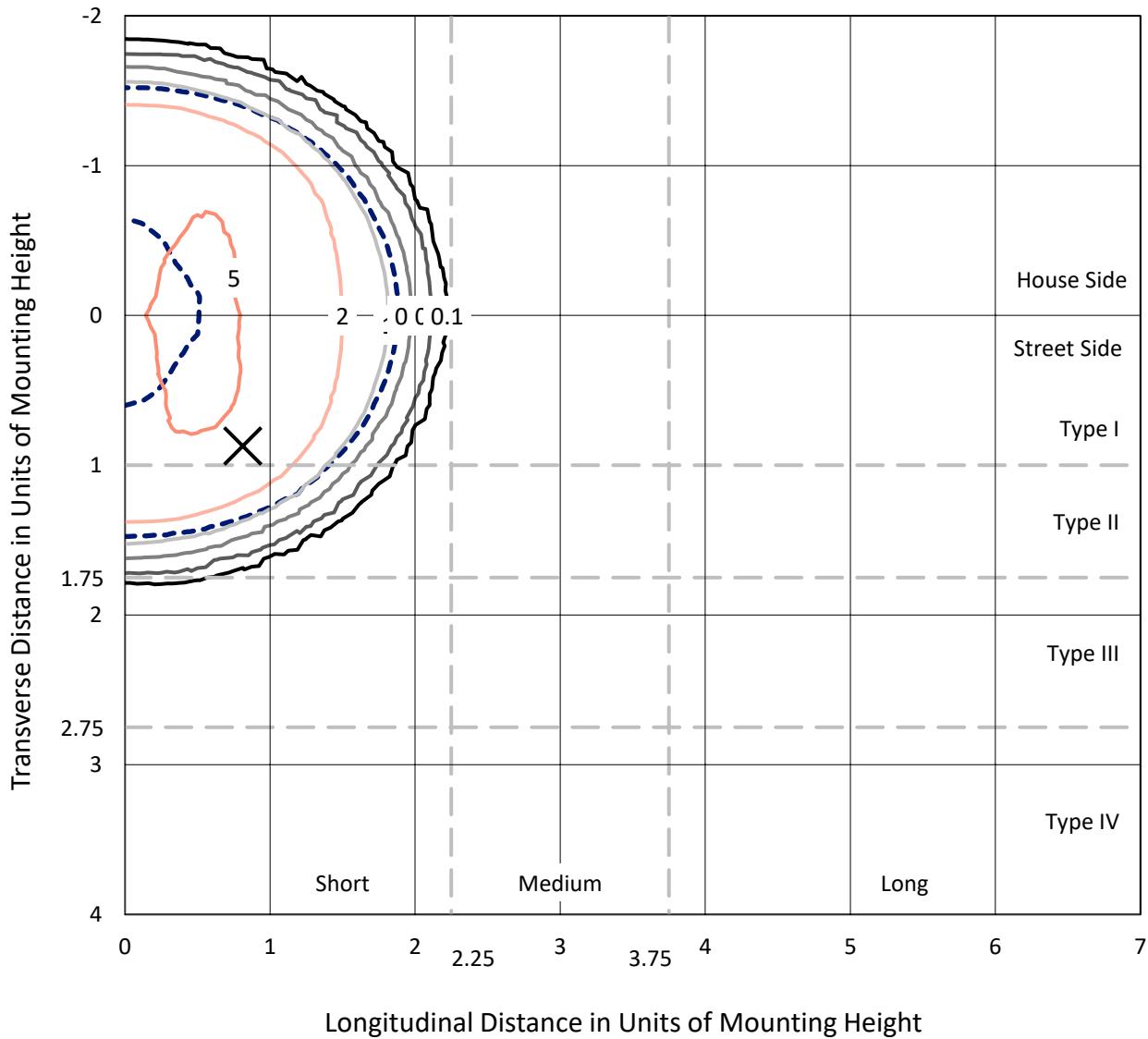
Lumens per Lamp: N/A  
Luminaire Lumens: 12869.4 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

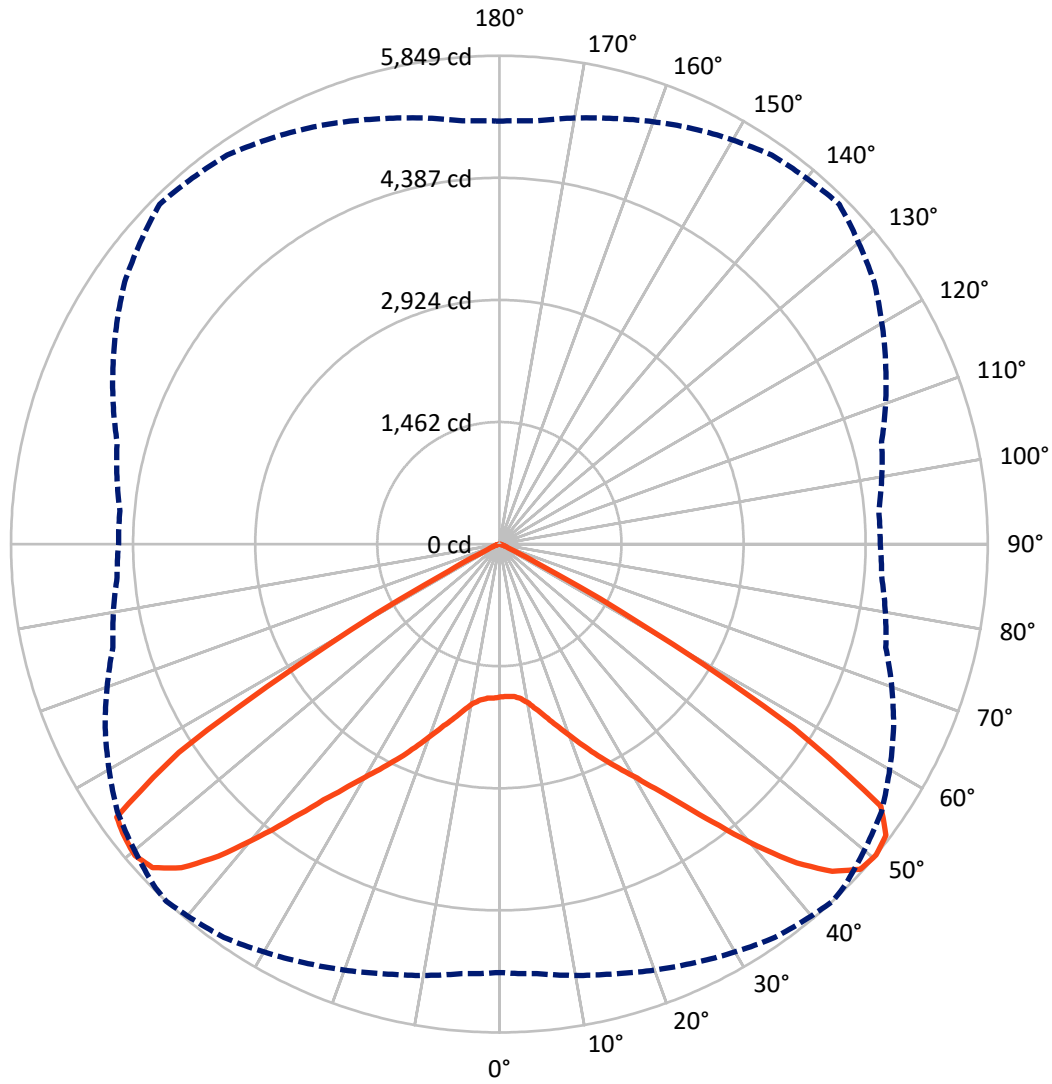
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	6434.5	0.0	6434.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6434.9	0.0	6434.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12869.4	0.0	12869.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	1.4
10°-20°	620.3	4.8
20°-30°	1255.0	9.8
30°-40°	2328.5	18.1
40°-50°	3865.2	30.0
50°-60°	3944.6	30.7
60°-70°	646.9	5.0
70°-80°	28.3	0.2
80°-90°	0.4	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°	12869.4	100.0
0°-180°	12869.4	100.0

**Coefficient of Utilization**



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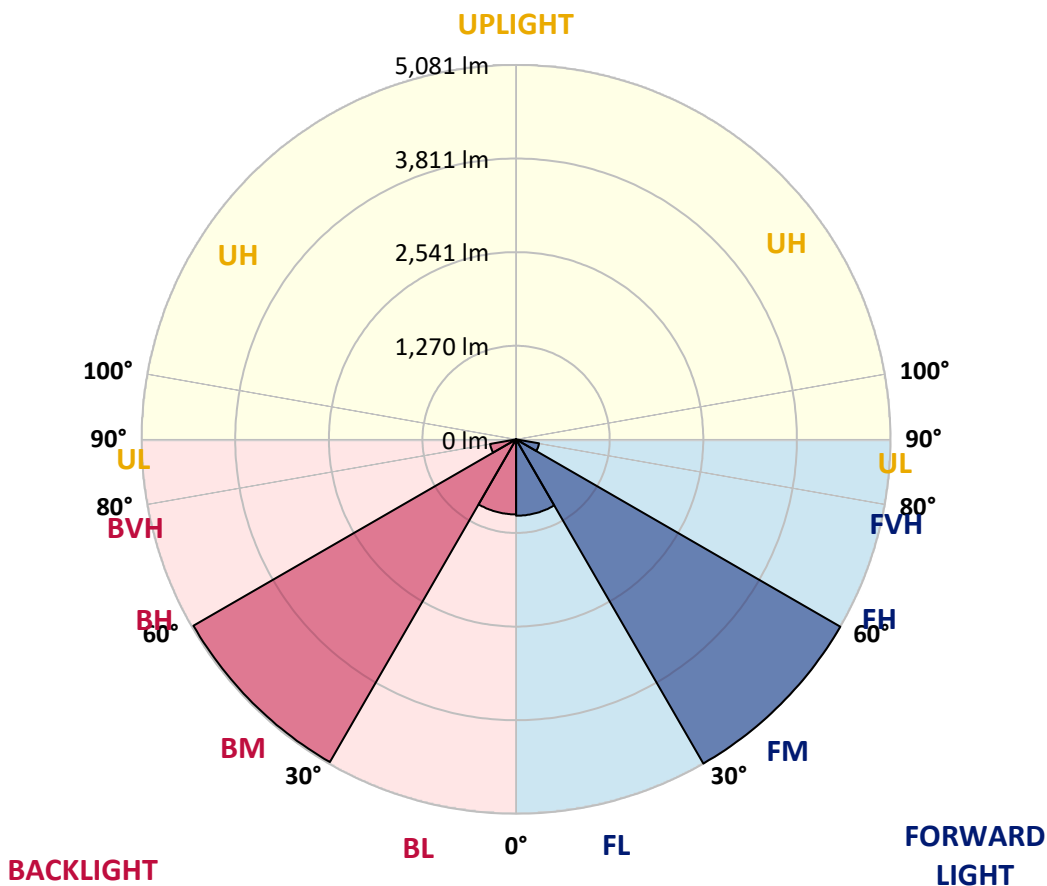
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.8	8.1			
FM (30°-60°)	5081.5	39.5			
FH (60°-80°)	316.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1018.8	7.9	B3/2500		
BM (30°-60°)	5056.8	39.3	B4/8500		
BH (60°-80°)	358.7	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	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°	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5
2.5°	1796.3	1800.6	1806.3	1812.0	1819.1	1826.2	1830.5	1843.3	1840.4	1851.8	1851.8
5°	1776.4	1780.7	1787.8	1800.6	1816.2	1831.9	1843.3	1868.9	1883.1	1905.9	1914.4
7.5°	1786.3	1792.0	1800.6	1820.5	1844.7	1868.9	1881.7	1923.0	1951.5	1994.2	2018.4
10°	1819.1	1824.8	1839.0	1873.2	1904.5	1938.6	1954.3	2007.0	2052.5	2110.9	2145.0
12.5°	1856.1	1863.2	1891.7	1942.9	1997.0	2042.6	2063.9	2122.3	2169.2	2234.7	2288.8
15°	1894.5	1905.9	1950.0	2025.5	2102.3	2163.5	2186.3	2248.9	2295.9	2365.7	2426.9
17.5°	1984.2	1997.0	2046.8	2128.0	2233.3	2304.5	2324.4	2389.9	2425.4	2472.4	2536.5
20°	2096.6	2120.8	2182.0	2280.3	2395.6	2463.9	2478.1	2542.2	2539.3	2559.2	2614.8
22.5°	2236.1	2253.2	2320.1	2436.8	2566.4	2641.8	2674.5	2701.6	2666.0	2648.9	2684.5
25°	2381.3	2401.2	2473.8	2601.9	2747.1	2834.0	2861.0	2882.3	2825.4	2761.4	2765.6
27.5°	2569.2	2583.4	2654.6	2791.3	2936.4	3034.6	3058.8	3095.9	3020.4	2917.9	2889.5
30°	2792.7	2806.9	2882.3	3026.1	3169.9	3253.9	3290.9	3336.4	3253.9	3125.7	3093.0
32.5°	3054.6	3068.8	3165.6	3313.6	3431.8	3522.9	3558.5	3606.8	3541.4	3397.6	3360.6
35°	3367.7	3376.3	3490.1	3651.0	3776.2	3864.5	3888.7	3945.6	3873.0	3729.3	3709.3
37.5°	3730.7	3740.6	3864.5	4050.9	4179.0	4277.3	4315.7	4331.3	4243.1	4082.3	4066.6
40°	4129.2	4162.0	4283.0	4483.7	4627.4	4751.2	4785.4	4732.7	4608.9	4389.7	4361.2
42.5°	4544.9	4573.3	4708.5	4926.3	5092.9	5219.5	5221.0	5107.1	4896.4	4593.3	4550.6
45°	4890.7	4902.1	5077.2	5296.4	5501.4	5591.0	5599.6	5393.2	5075.8	4711.4	4620.3
47.5°	5128.4	5146.9	5299.2	5509.9	5736.2	5817.4	5800.3	5542.6	5161.2	4788.3	4637.4
50°	5131.3	5162.6	5327.7	5531.3	5750.5	5848.7	5824.5	5585.3	5209.6	4791.1	4596.1
52.5°	4677.2	4728.5	4997.5	5292.1	5628.1	5796.0	5801.7	5640.9	5191.1	4745.6	4559.1
55°	3528.6	3584.1	3922.8	4425.3	5074.4	5542.6	5623.8	5575.4	5169.7	4765.5	4624.6
57.5°	1867.5	1824.8	2012.7	2510.8	3326.4	4154.9	4392.6	4779.7	4932.0	4789.7	4745.6
60°	407.1	434.1	577.9	778.6	1298.1	1954.3	2186.3	2849.6	3638.2	3988.3	4241.7
62.5°	175.1	172.2	179.3	203.5	297.5	495.3	604.9	987.8	1558.6	2140.8	2535.0
65°	143.8	145.2	150.9	150.9	140.9	142.3	149.5	226.3	364.4	511.0	686.1
67.5°	108.2	109.6	119.6	122.4	115.3	102.5	101.1	85.4	89.7	112.4	116.7
70°	68.3	68.3	74.0	76.9	76.9	71.2	69.7	61.2	59.8	68.3	76.9
72.5°	37.0	37.0	39.9	41.3	39.9	38.4	38.4	37.0	35.6	41.3	52.7
75°	15.7	15.7	17.1	17.1	15.7	15.7	15.7	15.7	15.7	18.5	28.5
77.5°	2.8	4.3	5.7	4.3	2.8	2.8	2.8	4.3	4.3	5.7	8.5
80°	1.4	1.4	2.8	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5
2.5°	1861.8	1846.1	1851.8	1854.7	1850.4	1847.5	1831.9	1827.6	1820.5	1809.1	1806.3
5°	1924.4	1911.6	1910.2	1901.6	1881.7	1857.5	1827.6	1814.8	1800.6	1786.3	1783.5
7.5°	2029.7	2014.1	2004.1	1975.7	1930.1	1891.7	1841.9	1814.8	1796.3	1777.8	1773.5
10°	2165.0	2146.5	2118.0	2065.3	2004.1	1948.6	1890.3	1854.7	1826.2	1800.6	1799.2
12.5°	2308.7	2288.8	2237.6	2170.7	2096.6	2045.4	1971.4	1921.6	1878.9	1840.4	1836.2
15°	2459.6	2435.4	2365.7	2286.0	2217.6	2165.0	2083.8	2004.1	1938.6	1883.1	1877.4
17.5°	2574.9	2545.0	2462.4	2402.7	2347.2	2293.1	2202.0	2096.6	2009.8	1942.9	1927.3
20°	2647.5	2619.0	2540.7	2508.0	2482.4	2443.9	2335.8	2226.2	2129.4	2046.8	2032.6
22.5°	2717.2	2683.1	2614.8	2614.8	2634.7	2619.0	2502.3	2377.0	2263.2	2167.8	2146.5
25°	2795.5	2768.5	2720.1	2759.9	2809.8	2808.3	2688.8	2532.2	2401.2	2294.5	2273.1
27.5°	2909.4	2882.3	2865.3	2940.7	3003.3	2999.1	2868.1	2698.7	2560.7	2455.3	2435.4
30°	3110.1	3084.5	3066.0	3157.1	3236.8	3206.9	3063.1	2899.4	2759.9	2640.4	2626.1
32.5°	3377.7	3350.6	3326.4	3417.5	3488.7	3450.3	3313.6	3159.9	2999.1	2882.3	2853.9
35°	3729.3	3672.3	3648.1	3756.3	3786.2	3743.5	3612.5	3477.3	3306.5	3172.7	3154.2
37.5°	4092.2	4025.3	4008.2	4102.2	4150.6	4134.9	3981.2	3840.3	3655.2	3507.2	3485.9
40°	4402.5	4341.3	4311.4	4458.0	4567.6	4577.6	4439.5	4267.3	4049.5	3895.8	3857.4
42.5°	4584.7	4532.0	4524.9	4752.7	4932.0	5060.1	4895.0	4717.1	4487.9	4314.3	4283.0
45°	4626.0	4591.8	4651.6	4950.5	5229.5	5462.9	5322.0	5134.1	4886.5	4702.9	4673.0
47.5°	4621.7	4610.3	4717.1	5053.0	5406.0	5693.5	5623.8	5411.7	5172.6	4980.4	4951.9
50°	4560.5	4561.9	4739.9	5104.2	5477.2	5756.2	5686.4	5490.0	5276.5	5087.2	5064.4
52.5°	4536.3	4527.8	4697.2	5088.6	5549.8	5727.7	5571.1	5350.5	5112.8	4879.4	4845.2
55°	4621.7	4600.4	4702.9	5075.8	5558.3	5712.0	5299.2	4821.0	4334.2	4058.1	4035.3
57.5°	4749.8	4727.0	4775.4	4981.8	5112.8	4749.8	3900.1	3128.6	2627.6	2415.5	2323.0
60°	4241.7	4226.0	4189.0	3939.9	3379.1	2549.3	1736.5	1107.4	795.7	643.4	643.4
62.5°	2631.8	2610.5	2409.8	1790.6	1301.0	753.0	414.2	259.1	196.4	183.6	182.2
65°	738.7	734.5	607.8	429.9	273.3	169.4	149.5	152.3	149.5	145.2	143.8
67.5°	111.0	122.4	122.4	99.6	95.4	106.8	125.3	133.8	126.7	119.6	116.7
70°	71.2	76.9	74.0	64.1	68.3	79.7	89.7	91.1	86.8	79.7	78.3
72.5°	49.8	55.5	45.5	41.3	42.7	47.0	51.2	51.2	49.8	47.0	44.1
75°	29.9	29.9	21.4	19.9	19.9	21.4	21.4	24.2	24.2	22.8	21.4
77.5°	10.0	11.4	7.1	5.7	5.7	5.7	7.1	8.5	8.5	7.1	5.7
80°	1.4	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	1.4
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
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)