

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: P637256

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637256  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

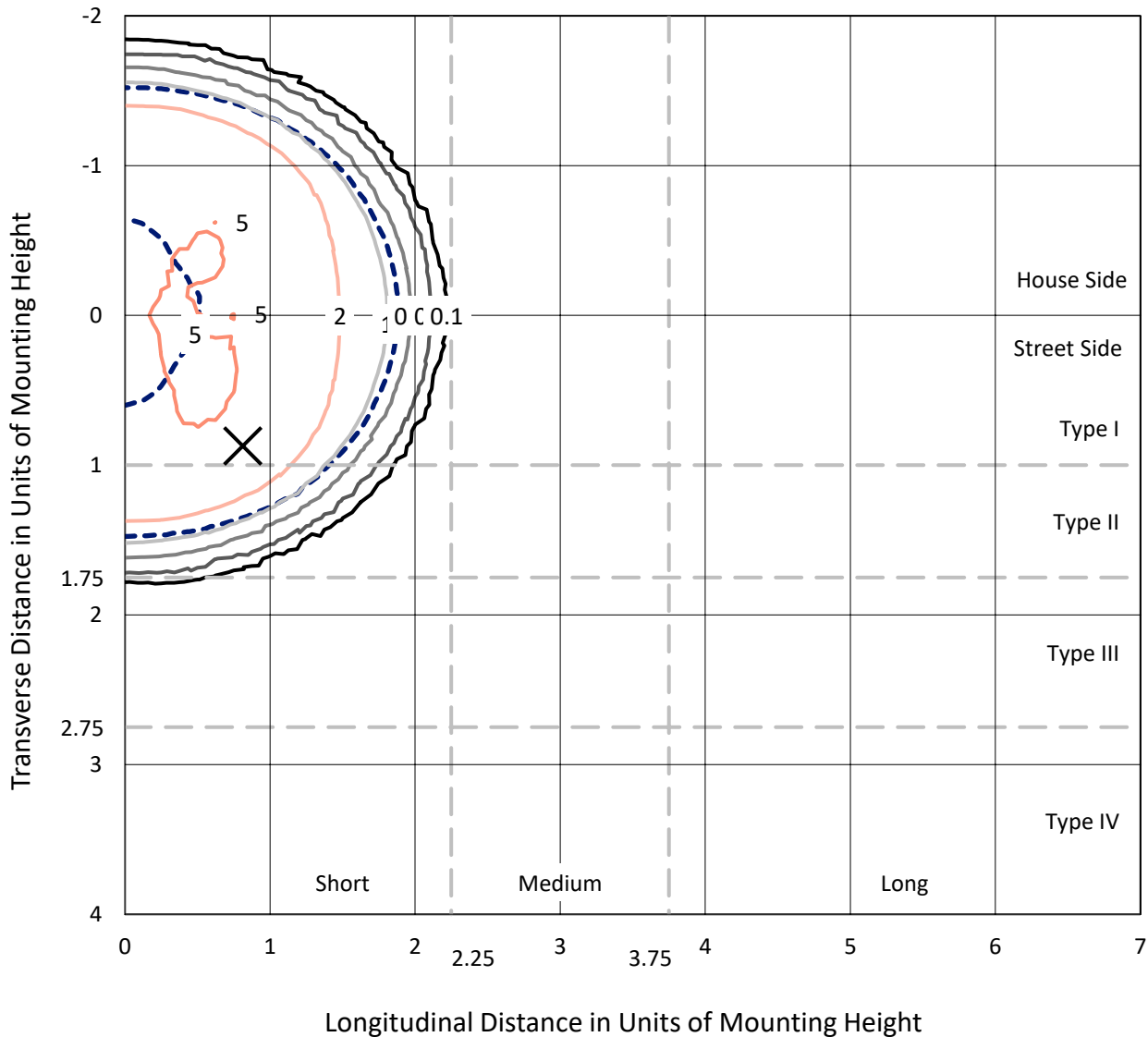
Lumens per Lamp: N/A  
Luminaire Lumens: 12581.1 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

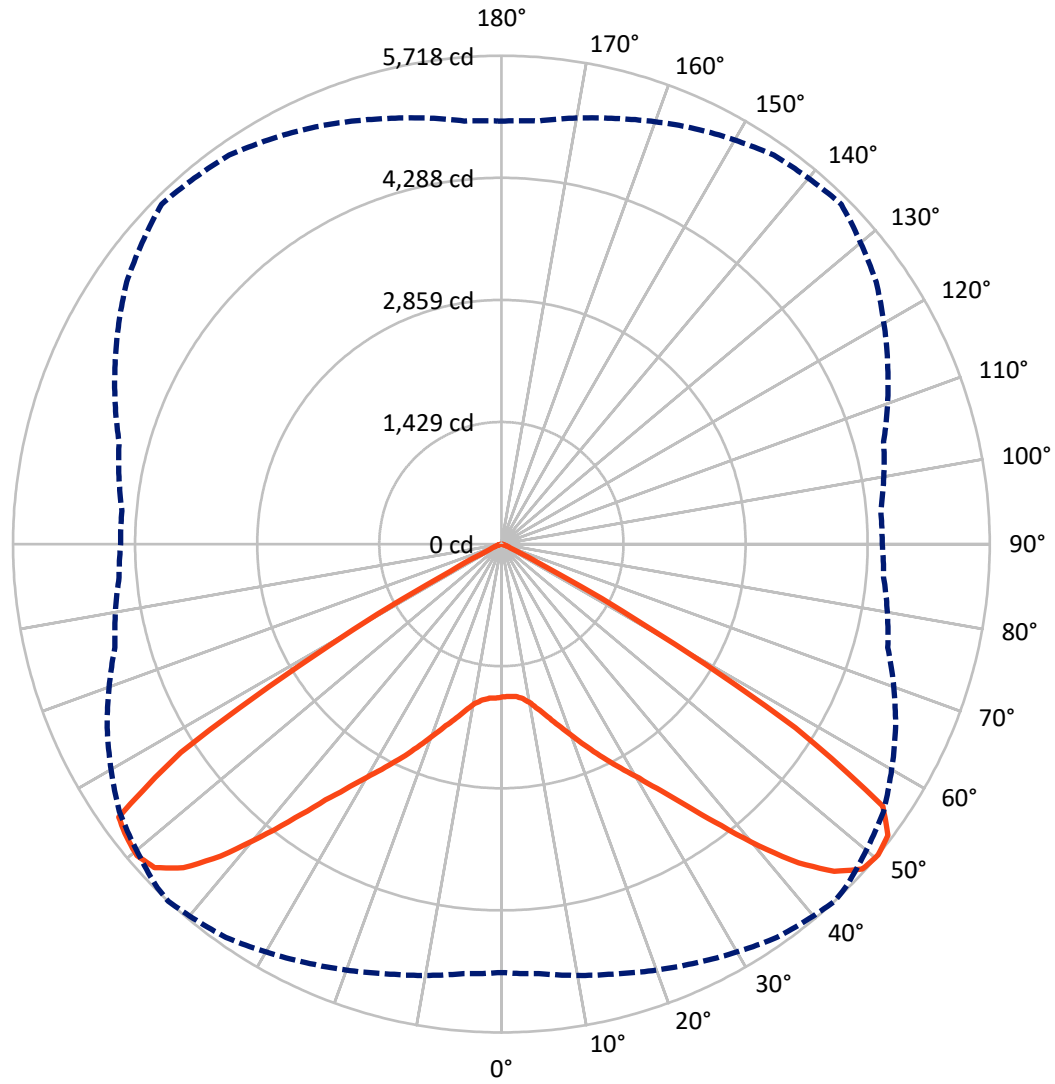
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	6290.4	0.0	6290.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6290.7	0.0	6290.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12581.1	0.0	12581.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	1.4
10°-20°	606.4	4.8
20°-30°	1226.9	9.8
30°-40°	2276.3	18.1
40°-50°	3778.6	30.0
50°-60°	3856.2	30.7
60°-70°	632.4	5.0
70°-80°	27.7	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°	12581.1	100.0
0°-180°	12581.1	100.0

**Coefficient of Utilization**



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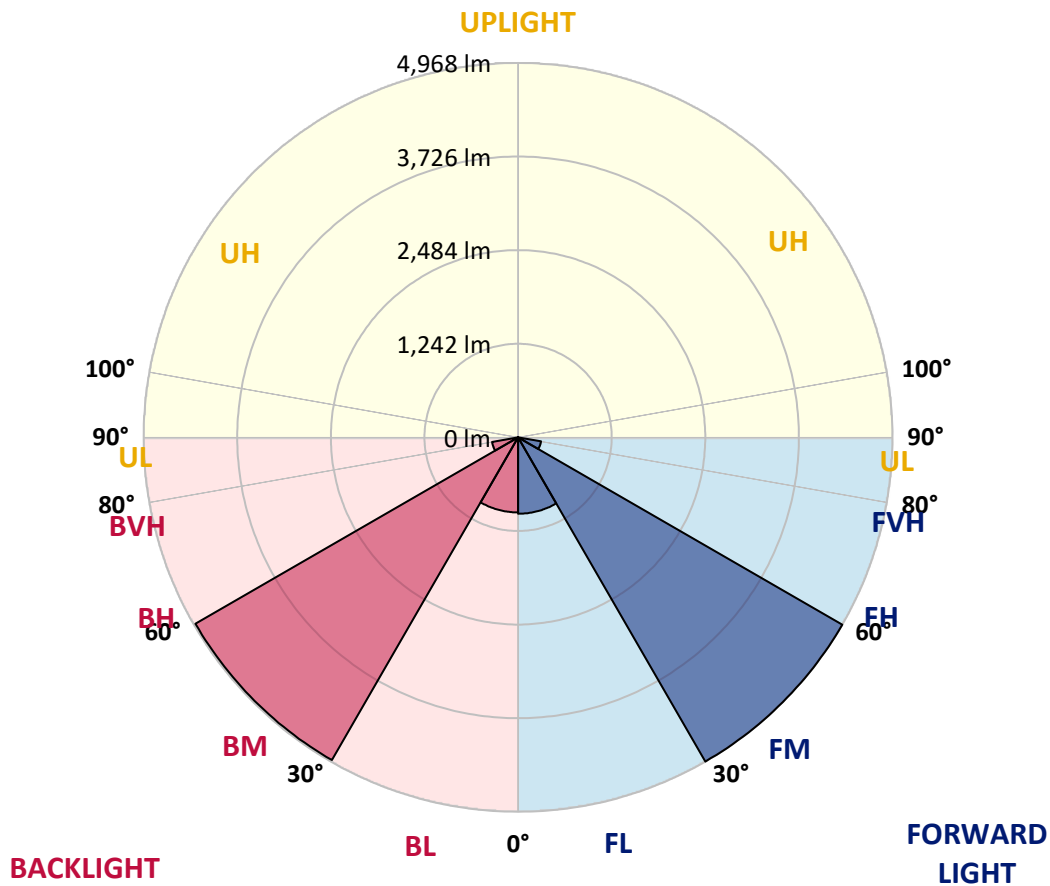
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.6	8.1			
FM (30°-60°)	4967.6	39.5			
FH (60°-80°)	309.4	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	996.0	7.9	B2/1000		
BM (30°-60°)	4943.5	39.3	B3/5000		
BH (60°-80°)	350.7	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: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5
2.5°	1756.1	1760.2	1765.8	1771.4	1778.3	1785.3	1789.5	1802.0	1799.2	1810.3	1810.3
5°	1736.6	1740.8	1747.7	1760.2	1775.5	1790.9	1802.0	1827.0	1840.9	1863.2	1871.6
7.5°	1746.3	1751.9	1760.2	1779.7	1803.4	1827.0	1839.6	1879.9	1907.7	1949.5	1973.1
10°	1778.3	1783.9	1797.8	1831.2	1861.8	1895.2	1910.5	1962.0	2006.5	2063.6	2097.0
12.5°	1814.5	1821.5	1849.3	1899.4	1952.3	1996.8	2017.7	2074.7	2120.6	2184.6	2237.5
15°	1852.1	1863.2	1906.3	1980.1	2055.2	2115.1	2137.3	2198.6	2244.5	2312.7	2372.5
17.5°	1939.7	1952.3	2001.0	2080.3	2183.3	2252.8	2272.3	2336.3	2371.1	2417.0	2479.6
20°	2049.7	2073.3	2133.2	2229.2	2341.9	2408.7	2422.6	2485.2	2482.4	2501.9	2556.2
22.5°	2186.0	2202.7	2268.1	2382.2	2508.9	2582.6	2614.6	2641.1	2606.3	2589.6	2624.4
25°	2328.0	2347.5	2418.4	2543.7	2685.6	2770.5	2796.9	2817.8	2762.1	2699.5	2703.7
27.5°	2511.6	2525.6	2595.1	2728.7	2870.7	2966.7	2990.3	3026.5	2952.8	2852.6	2824.7
30°	2730.1	2744.0	2817.8	2958.3	3098.9	3181.0	3217.1	3261.7	3181.0	3055.7	3023.7
32.5°	2986.1	3000.1	3094.7	3239.4	3354.9	3443.9	3478.7	3526.0	3462.0	3321.5	3285.3
35°	3292.3	3300.6	3411.9	3569.2	3691.6	3777.9	3801.6	3857.2	3786.3	3645.7	3626.2
37.5°	3647.1	3656.8	3777.9	3960.2	4085.4	4181.4	4219.0	4234.3	4148.0	3990.8	3975.5
40°	4036.7	4068.7	4187.0	4383.2	4523.8	4644.8	4678.2	4626.7	4505.7	4291.4	4263.5
42.5°	4443.0	4470.9	4603.1	4816.0	4978.8	5102.6	5104.0	4992.7	4786.7	4490.4	4448.6
45°	4781.2	4792.3	4963.5	5177.8	5378.1	5465.8	5474.1	5272.4	4962.1	4605.8	4516.8
47.5°	5013.6	5031.6	5180.5	5386.5	5607.7	5687.0	5670.3	5418.5	5045.6	4681.0	4533.5
50°	5016.3	5047.0	5208.4	5407.3	5621.6	5717.7	5694.0	5460.2	5092.9	4683.8	4493.1
52.5°	4572.5	4622.5	4885.5	5173.6	5502.0	5666.2	5671.7	5514.5	5074.8	4639.2	4457.0
55°	3449.5	3503.8	3835.0	4326.2	4960.7	5418.5	5497.8	5450.5	5053.9	4658.7	4521.0
57.5°	1825.6	1783.9	1967.6	2454.6	3251.9	4061.8	4294.2	4672.6	4821.5	4682.4	4639.2
60°	398.0	424.4	564.9	761.1	1269.0	1910.5	2137.3	2785.8	3556.7	3899.0	4146.7
62.5°	171.2	168.4	175.3	199.0	290.8	484.2	591.4	965.7	1523.7	2092.8	2478.3
65°	140.5	141.9	147.5	147.5	137.8	139.1	146.1	221.2	356.2	499.5	670.7
67.5°	105.8	107.1	116.9	119.7	112.7	100.2	98.8	83.5	87.7	109.9	114.1
70°	66.8	66.8	72.4	75.1	75.1	69.6	68.2	59.8	58.4	66.8	75.1
72.5°	36.2	36.2	39.0	40.4	39.0	37.6	37.6	36.2	34.8	40.4	51.5
75°	15.3	15.3	16.7	16.7	15.3	15.3	15.3	15.3	15.3	18.1	27.8
77.5°	2.8	4.2	5.6	4.2	2.8	2.8	2.8	4.2	4.2	5.6	8.3
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°	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5
2.5°	1820.1	1804.8	1810.3	1813.1	1808.9	1806.2	1790.9	1786.7	1779.7	1768.6	1765.8
5°	1881.3	1868.8	1867.4	1859.0	1839.6	1815.9	1786.7	1774.2	1760.2	1746.3	1743.5
7.5°	1984.3	1969.0	1959.2	1931.4	1886.9	1849.3	1800.6	1774.2	1756.1	1738.0	1733.8
10°	2116.5	2098.4	2070.5	2019.1	1959.2	1905.0	1847.9	1813.1	1785.3	1760.2	1758.8
12.5°	2257.0	2237.5	2187.4	2122.0	2049.7	1999.6	1927.2	1878.5	1836.8	1799.2	1795.0
15°	2404.5	2380.8	2312.7	2234.7	2167.9	2116.5	2037.1	1959.2	1895.2	1840.9	1835.4
17.5°	2517.2	2488.0	2407.3	2348.8	2294.6	2241.7	2152.6	2049.7	1964.8	1899.4	1884.1
20°	2588.2	2560.4	2483.8	2451.8	2426.8	2389.2	2283.4	2176.3	2081.7	2001.0	1987.1
22.5°	2656.4	2623.0	2556.2	2556.2	2575.7	2560.4	2446.2	2323.8	2212.5	2119.2	2098.4
25°	2732.9	2706.5	2659.1	2698.1	2746.8	2745.4	2628.5	2475.5	2347.5	2243.1	2222.2
27.5°	2844.2	2817.8	2801.1	2874.8	2936.1	2931.9	2803.9	2638.3	2503.3	2400.3	2380.8
30°	3040.4	3015.4	2997.3	3086.3	3164.3	3135.0	2994.5	2834.5	2698.1	2581.2	2567.3
32.5°	3302.0	3275.6	3251.9	3341.0	3410.6	3373.0	3239.4	3089.1	2931.9	2817.8	2789.9
35°	3645.7	3590.1	3566.4	3672.2	3701.4	3659.6	3531.6	3399.4	3232.4	3101.6	3083.6
37.5°	4000.5	3935.1	3918.4	4010.3	4057.6	4042.3	3892.0	3754.3	3573.4	3428.6	3407.8
40°	4303.9	4244.1	4214.8	4358.2	4465.3	4475.0	4340.1	4171.7	3958.8	3808.5	3771.0
42.5°	4482.0	4430.5	4423.6	4646.2	4821.5	4946.8	4785.4	4611.4	4387.4	4217.6	4187.0
45°	4522.4	4489.0	4547.4	4839.6	5112.4	5340.6	5202.8	5019.1	4777.0	4597.5	4568.3
47.5°	4518.2	4507.1	4611.4	4939.8	5284.9	5566.0	5497.8	5290.5	5056.7	4868.8	4841.0
50°	4458.3	4459.7	4633.7	4989.9	5354.5	5627.2	5559.0	5367.0	5158.3	4973.2	4950.9
52.5°	4434.7	4426.3	4591.9	4974.6	5425.4	5599.4	5446.3	5230.6	4998.2	4770.0	4736.6
55°	4518.2	4497.3	4597.5	4962.1	5433.8	5584.1	5180.5	4713.0	4237.1	3967.2	3944.9
57.5°	4643.4	4621.2	4668.5	4870.2	4998.2	4643.4	3812.7	3058.5	2568.7	2361.4	2270.9
60°	4146.7	4131.3	4095.2	3851.7	3303.4	2492.2	1697.6	1082.6	777.8	629.0	629.0
62.5°	2572.9	2552.0	2355.8	1750.5	1271.8	736.1	404.9	253.3	192.0	179.5	178.1
65°	722.2	718.0	594.2	420.2	267.2	165.6	146.1	148.9	146.1	141.9	140.5
67.5°	108.5	119.7	119.7	97.4	93.2	104.4	122.5	130.8	123.8	116.9	114.1
70°	69.6	75.1	72.4	62.6	66.8	77.9	87.7	89.1	84.9	77.9	76.5
72.5°	48.7	54.3	44.5	40.4	41.7	45.9	50.1	50.1	48.7	45.9	43.1
75°	29.2	29.2	20.9	19.5	19.5	20.9	20.9	23.7	23.7	22.3	20.9
77.5°	9.7	11.1	7.0	5.6	5.6	5.6	7.0	8.3	8.3	7.0	5.6
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)