

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: P639236

Luminaire Tested: GWS-SA5B-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639236  
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-SA5B-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

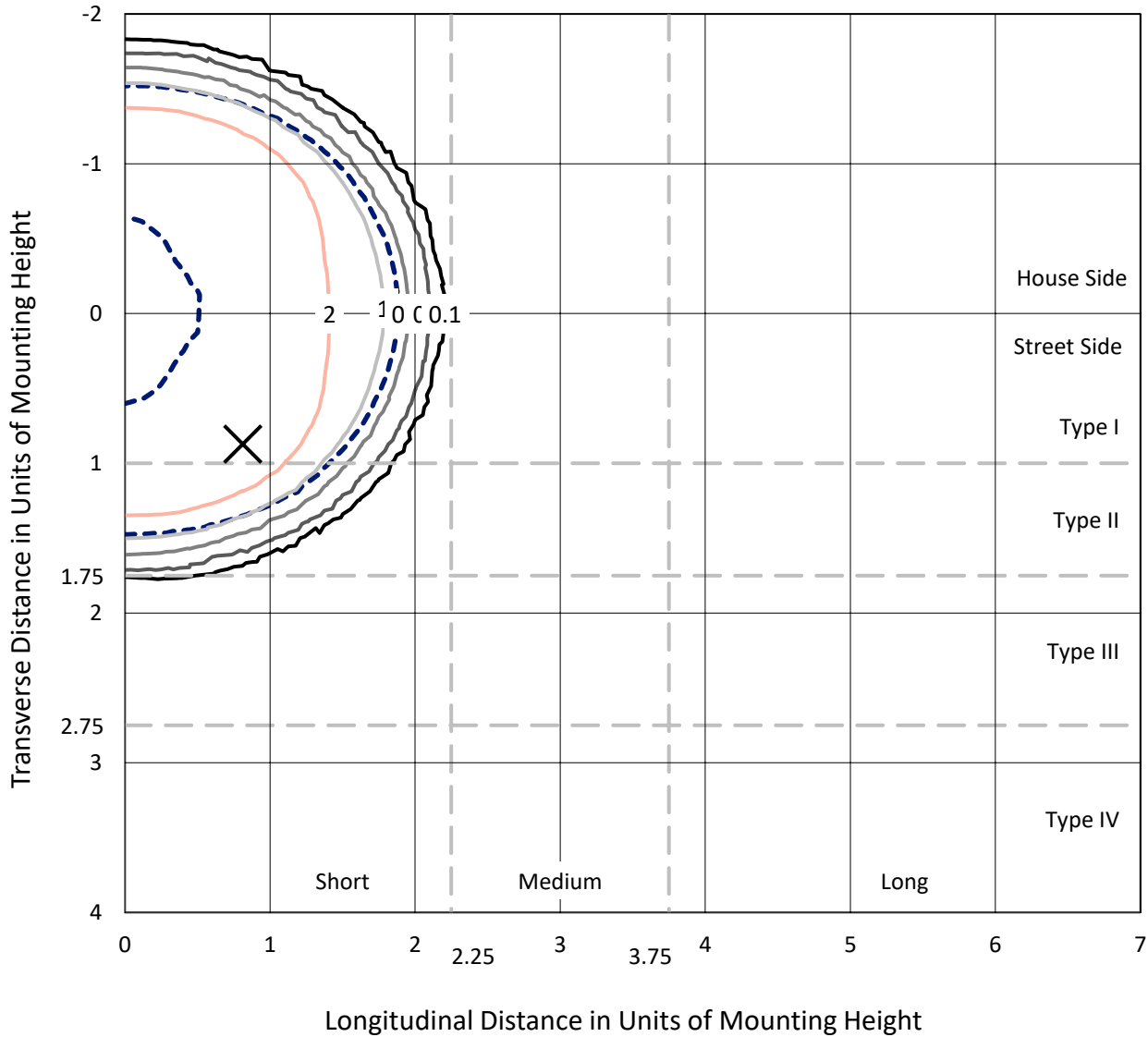
Lumens per Lamp: N/A  
Luminaire Lumens: 11508 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

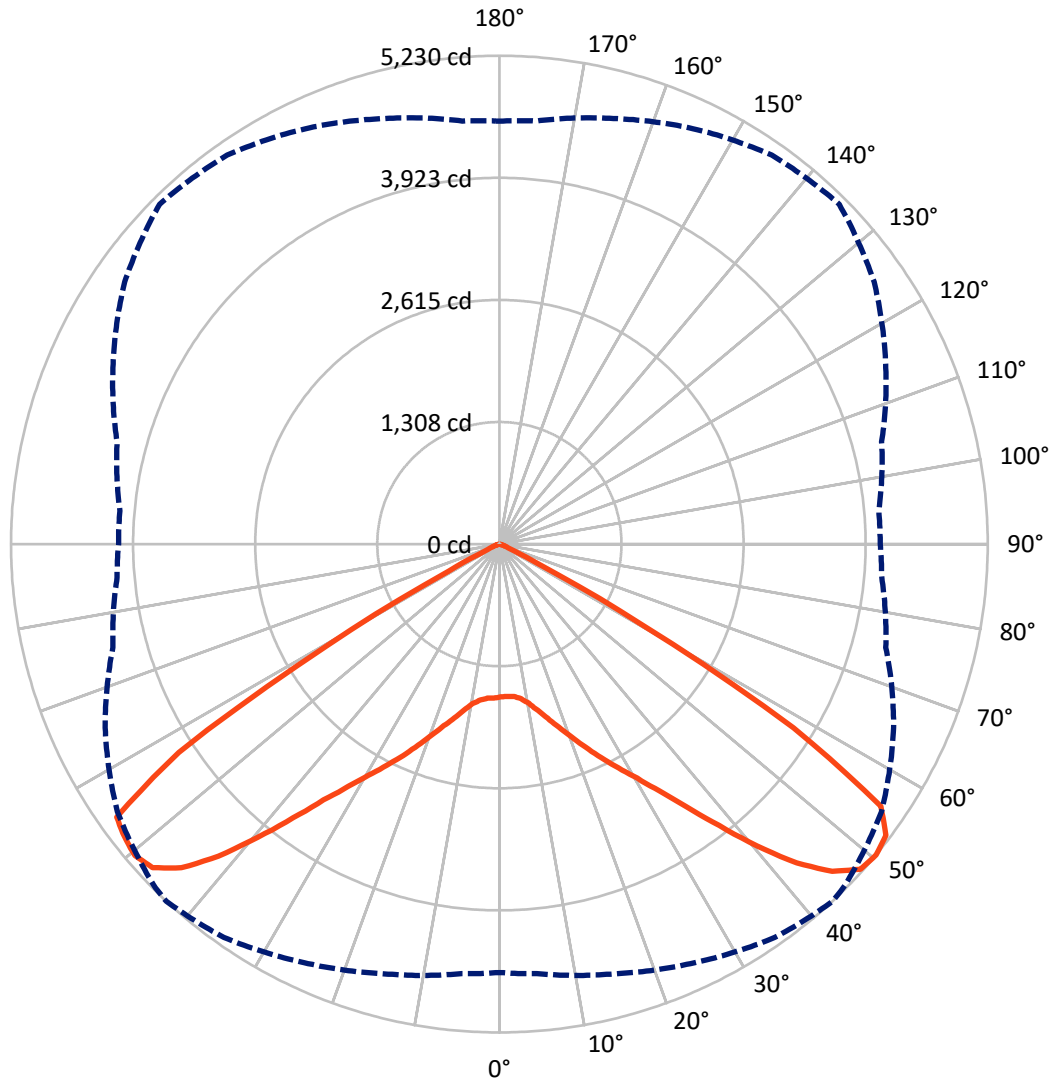
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	5753.9	0.0	5753.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5754.1	0.0	5754.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11508.0	0.0	11508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	1.4
10°-20°	554.7	4.8
20°-30°	1122.3	9.8
30°-40°	2082.2	18.1
40°-50°	3456.3	30.0
50°-60°	3527.3	30.7
60°-70°	578.4	5.0
70°-80°	25.3	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°	11508.0	100.0
0°-180°	11508.0	100.0

**Coefficient of Utilization**



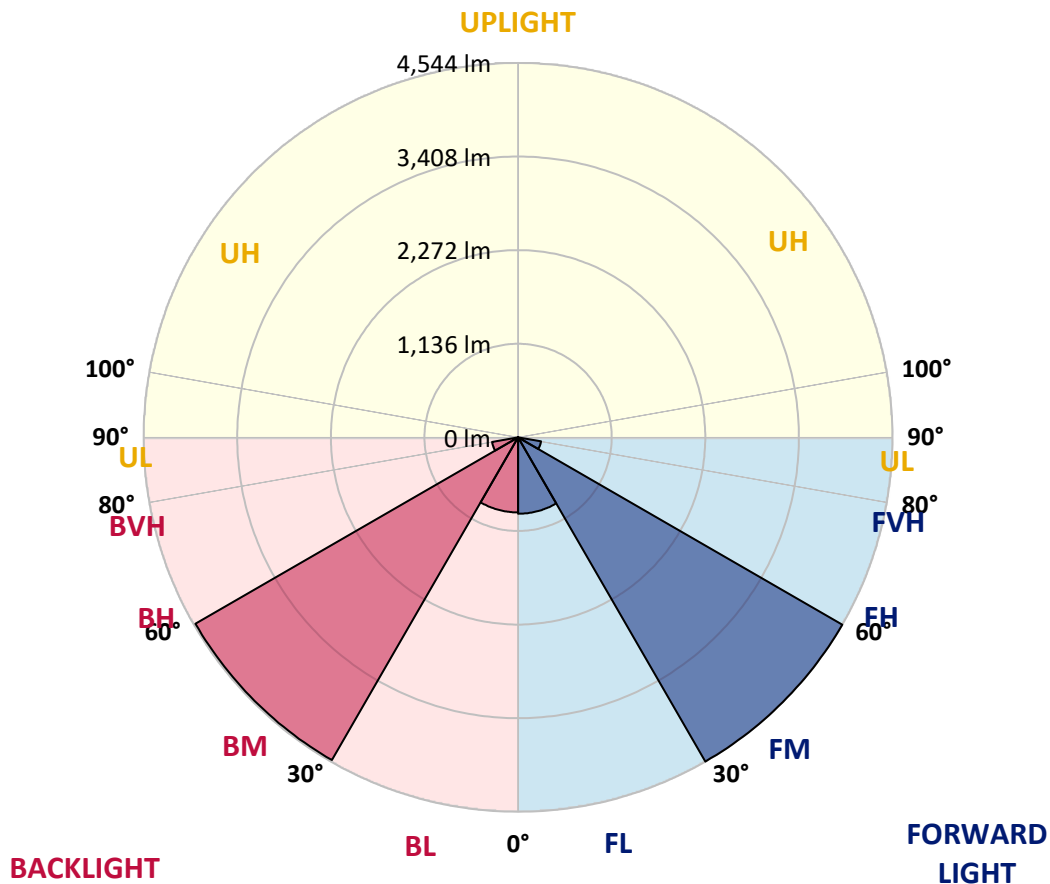
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.1	8.1			
FM (30°-60°)	4543.9	39.5			
FH (60°-80°)	283.0	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	911.0	7.9	B2/1000		
BM (30°-60°)	4521.8	39.3	B3/5000		
BH (60°-80°)	320.8	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°	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8
2.5°	1606.3	1610.1	1615.2	1620.3	1626.6	1633.0	1636.8	1648.3	1645.7	1655.9	1655.9
5°	1588.5	1592.3	1598.6	1610.1	1624.1	1638.1	1648.3	1671.2	1683.9	1704.3	1711.9
7.5°	1597.4	1602.5	1610.1	1627.9	1649.6	1671.2	1682.7	1719.6	1745.0	1783.2	1804.8
10°	1626.6	1631.7	1644.5	1675.0	1703.0	1733.6	1747.6	1794.7	1835.4	1887.6	1918.1
12.5°	1659.7	1666.1	1691.6	1737.4	1785.7	1826.5	1845.6	1897.8	1939.8	1998.3	2046.7
15°	1694.1	1704.3	1743.7	1811.2	1879.9	1934.7	1955.0	2011.0	2053.0	2115.4	2170.1
17.5°	1774.3	1785.7	1830.3	1902.8	1997.0	2060.7	2078.5	2137.0	2168.9	2210.9	2268.1
20°	1874.8	1896.5	1951.2	2039.0	2142.1	2203.2	2216.0	2273.2	2270.7	2288.5	2338.1
22.5°	1999.6	2014.9	2074.7	2179.0	2294.9	2362.3	2391.6	2415.8	2384.0	2368.7	2400.5
25°	2129.4	2147.2	2212.1	2326.7	2456.5	2534.2	2558.3	2577.4	2526.5	2469.2	2473.1
27.5°	2297.4	2310.1	2373.8	2496.0	2625.8	2713.6	2735.3	2768.4	2700.9	2609.3	2583.8
30°	2497.2	2510.0	2577.4	2706.0	2834.5	2909.6	2942.7	2983.5	2909.6	2795.1	2765.8
32.5°	2731.4	2744.2	2830.7	2963.1	3068.7	3150.2	3182.0	3225.3	3166.7	3038.2	3005.1
35°	3011.5	3019.1	3120.9	3264.8	3376.8	3455.7	3477.3	3528.2	3463.3	3334.8	3316.9
37.5°	3336.0	3344.9	3455.7	3622.4	3737.0	3824.8	3859.2	3873.2	3794.2	3650.4	3636.4
40°	3692.4	3721.7	3829.9	4009.3	4137.9	4248.6	4279.2	4232.1	4121.4	3925.3	3899.9
42.5°	4064.1	4089.5	4210.4	4405.2	4554.1	4667.4	4668.7	4566.8	4378.5	4107.4	4069.2
45°	4373.4	4383.6	4540.1	4736.1	4919.4	4999.6	5007.2	4822.7	4538.8	4213.0	4131.5
47.5°	4585.9	4602.5	4738.7	4927.0	5129.4	5202.0	5186.7	4956.3	4615.2	4281.7	4146.8
50°	4588.5	4616.5	4764.1	4946.1	5142.1	5230.0	5208.3	4994.5	4658.5	4284.3	4109.9
52.5°	4182.4	4228.3	4468.8	4732.3	5032.7	5182.9	5188.0	5044.1	4641.9	4243.5	4076.8
55°	3155.3	3204.9	3507.9	3957.2	4537.6	4956.3	5028.9	4985.6	4622.8	4261.4	4135.4
57.5°	1669.9	1631.7	1799.8	2245.2	2974.6	3715.3	3927.9	4274.1	4410.3	4283.0	4243.5
60°	364.0	388.2	516.8	696.2	1160.8	1747.6	1955.0	2548.2	3253.3	3566.4	3793.0
62.5°	156.6	154.0	160.4	182.0	266.0	442.9	540.9	883.3	1393.7	1914.3	2266.9
65°	128.6	129.8	134.9	134.9	126.0	127.3	133.6	202.4	325.8	456.9	613.5
67.5°	96.7	98.0	106.9	109.5	103.1	91.6	90.4	76.4	80.2	100.6	104.4
70°	61.1	61.1	66.2	68.7	68.7	63.6	62.4	54.7	53.5	61.1	68.7
72.5°	33.1	33.1	35.6	36.9	35.6	34.4	34.4	33.1	31.8	36.9	47.1
75°	14.0	14.0	15.3	15.3	14.0	14.0	14.0	14.0	14.0	16.5	25.5
77.5°	2.5	3.8	5.1	3.8	2.5	2.5	2.5	3.8	3.8	5.1	7.6
80°	1.3	1.3	2.5	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8	1636.8
2.5°	1664.8	1650.8	1655.9	1658.5	1654.7	1652.1	1638.1	1634.3	1627.9	1617.7	1615.2
5°	1720.8	1709.4	1708.1	1700.5	1682.7	1661.0	1634.3	1622.8	1610.1	1597.4	1594.8
7.5°	1815.0	1801.0	1792.1	1766.7	1725.9	1691.6	1647.0	1622.8	1606.3	1589.7	1585.9
10°	1935.9	1919.4	1893.9	1846.8	1792.1	1742.5	1690.3	1658.5	1633.0	1610.1	1608.8
12.5°	2064.5	2046.7	2000.9	1941.0	1874.8	1829.0	1762.8	1718.3	1680.1	1645.7	1641.9
15°	2199.4	2177.8	2115.4	2044.1	1983.0	1935.9	1863.4	1792.1	1733.6	1683.9	1678.8
17.5°	2302.5	2275.8	2202.0	2148.5	2098.9	2050.5	1969.0	1874.8	1797.2	1737.4	1723.4
20°	2367.4	2342.0	2272.0	2242.7	2219.8	2185.4	2088.7	1990.7	1904.1	1830.3	1817.6
22.5°	2429.8	2399.2	2338.1	2338.1	2356.0	2342.0	2237.6	2125.6	2023.8	1938.5	1919.4
25°	2499.8	2475.6	2432.3	2468.0	2512.5	2511.3	2404.3	2264.3	2147.2	2051.8	2032.7
27.5°	2601.6	2577.4	2562.2	2629.6	2685.6	2681.8	2564.7	2413.2	2289.8	2195.6	2177.8
30°	2781.1	2758.2	2741.6	2823.1	2894.4	2867.6	2739.1	2592.7	2468.0	2361.1	2348.3
32.5°	3020.4	2996.2	2974.6	3056.0	3119.7	3085.3	2963.1	2825.6	2681.8	2577.4	2552.0
35°	3334.8	3283.8	3262.2	3358.9	3385.7	3347.5	3230.4	3109.5	2956.7	2837.1	2820.5
37.5°	3659.3	3599.5	3584.2	3668.2	3711.5	3697.5	3560.0	3434.0	3268.6	3136.2	3117.1
40°	3936.8	3882.1	3855.3	3986.4	4084.4	4093.4	3969.9	3815.9	3621.1	3483.7	3449.3
42.5°	4099.7	4052.6	4046.3	4249.9	4410.3	4524.8	4377.2	4218.1	4013.2	3857.9	3829.9
45°	4136.6	4106.1	4159.5	4426.8	4676.3	4885.0	4759.0	4591.0	4369.5	4205.4	4178.6
47.5°	4132.8	4122.6	4218.1	4518.5	4834.1	5091.2	5028.9	4839.2	4625.4	4453.6	4428.1
50°	4078.1	4079.3	4238.5	4564.3	4897.8	5147.2	5084.9	4909.2	4718.3	4549.0	4528.7
52.5°	4056.4	4048.8	4200.3	4550.3	4962.7	5121.8	4981.8	4784.5	4571.9	4363.2	4332.6
55°	4132.8	4113.7	4205.4	4538.8	4970.3	5107.8	4738.7	4311.0	3875.7	3628.8	3608.4
57.5°	4247.4	4227.0	4270.3	4454.8	4571.9	4247.4	3487.5	2797.6	2349.6	2160.0	2077.2
60°	3793.0	3779.0	3745.9	3523.1	3021.6	2279.6	1552.8	990.2	711.5	575.3	575.3
62.5°	2353.4	2334.3	2154.9	1601.2	1163.3	673.3	370.4	231.7	175.6	164.2	162.9
65°	660.6	656.8	543.5	384.4	244.4	151.5	133.6	136.2	133.6	129.8	128.6
67.5°	99.3	109.5	109.5	89.1	85.3	95.5	112.0	119.6	113.3	106.9	104.4
70°	63.6	68.7	66.2	57.3	61.1	71.3	80.2	81.5	77.6	71.3	70.0
72.5°	44.5	49.6	40.7	36.9	38.2	42.0	45.8	45.8	44.5	42.0	39.5
75°	26.7	26.7	19.1	17.8	17.8	19.1	19.1	21.6	21.6	20.4	19.1
77.5°	8.9	10.2	6.4	5.1	5.1	5.1	6.4	7.6	7.6	6.4	5.1
80°	1.3	2.5	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	1.3
82.5°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
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)