

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: P633353

Luminaire Tested: GWS-SA2E-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

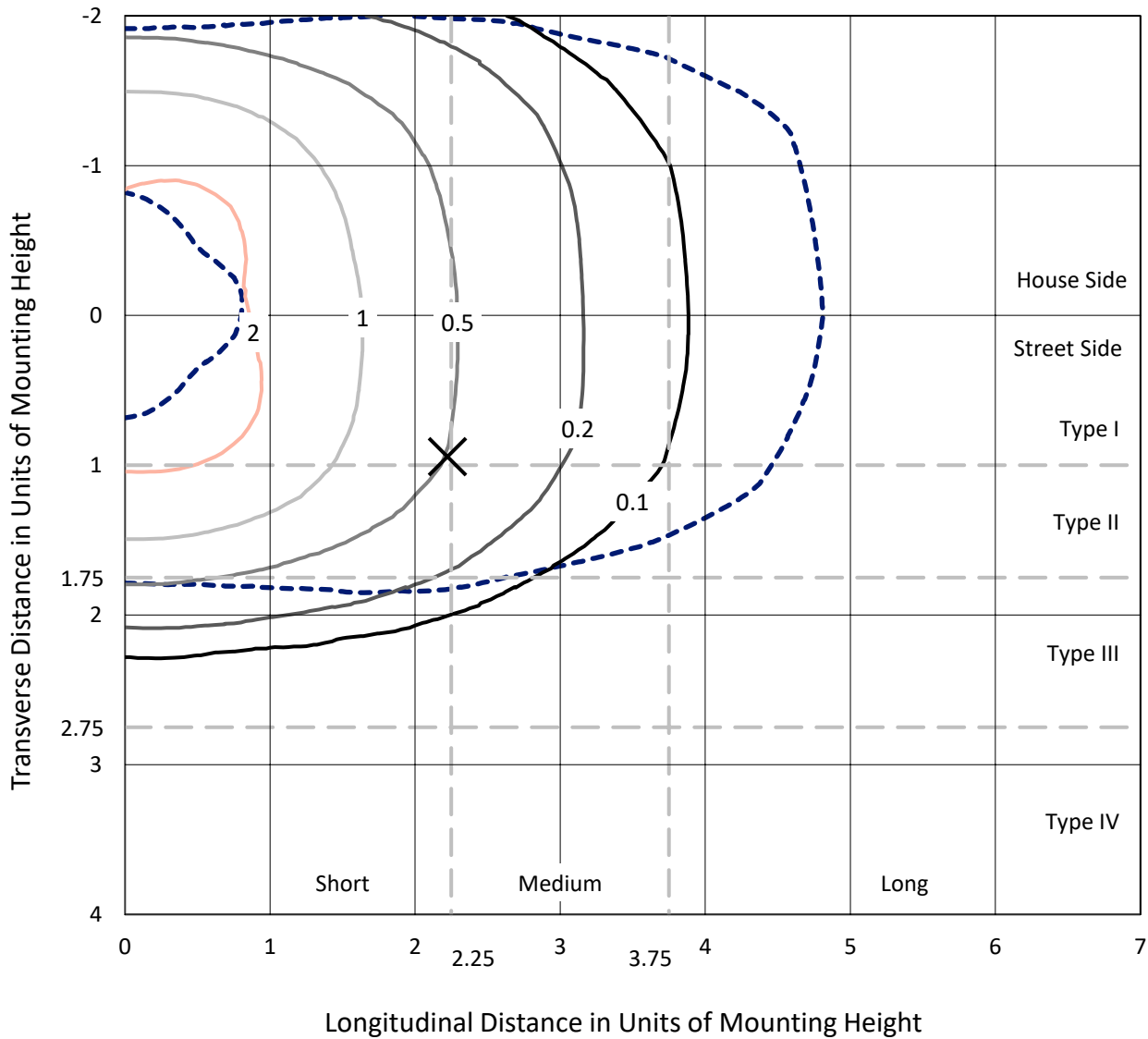
Lumens per Lamp: N/A  
Luminaire Lumens: 15364.6 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

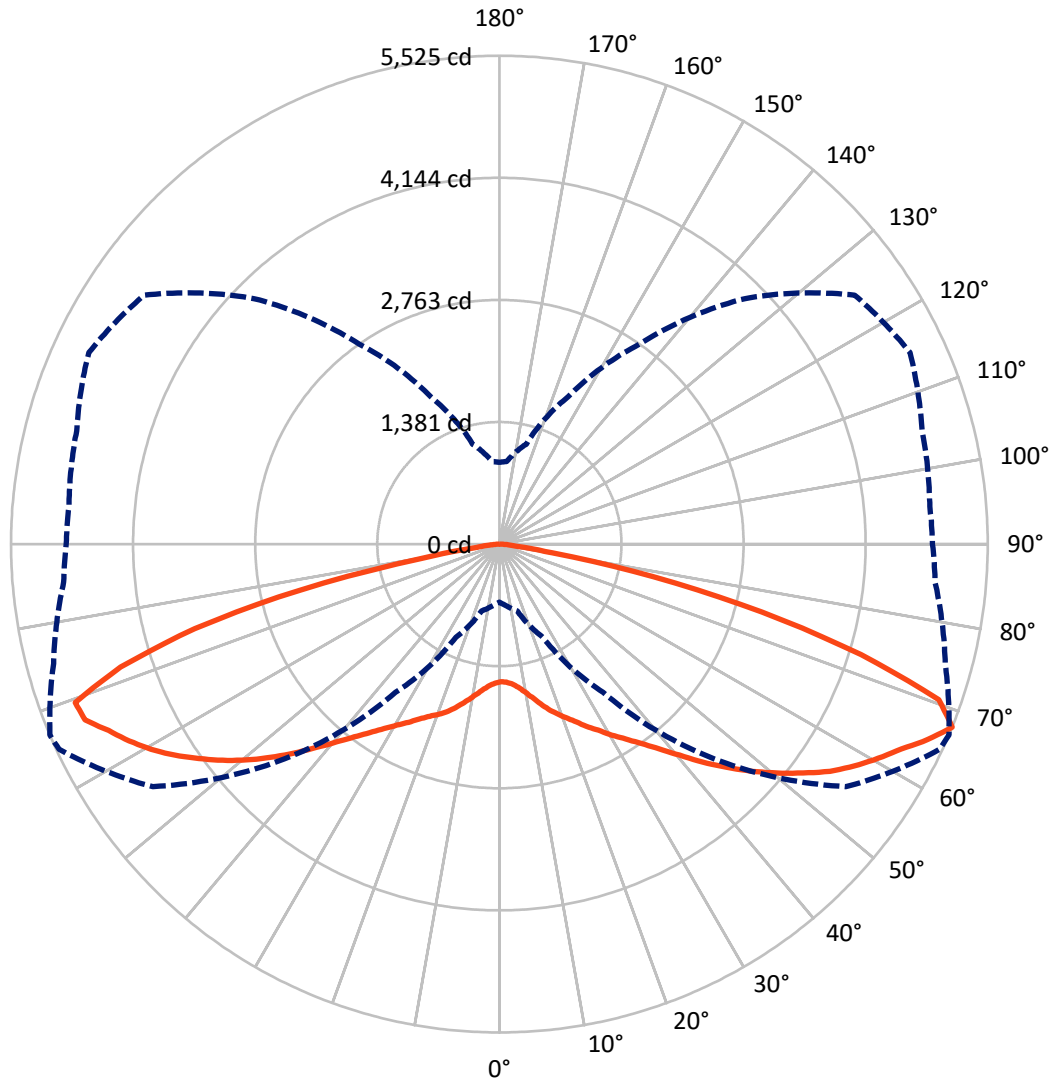
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7597.5	0.0	7597.5
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	7767.1	0.0	7767.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	15364.6	0.0	15364.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	1.0
10°-20°	515.7	3.4
20°-30°	1011.7	6.6
30°-40°	1723.7	11.2
40°-50°	2767.9	18.0
50°-60°	3761.0	24.5
60°-70°	3597.6	23.4
70°-80°	1710.4	11.1
80°-90°	124.0	0.8
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°	15364.6	100.0
0°-180°	15364.6	100.0

**Coefficient of Utilization**

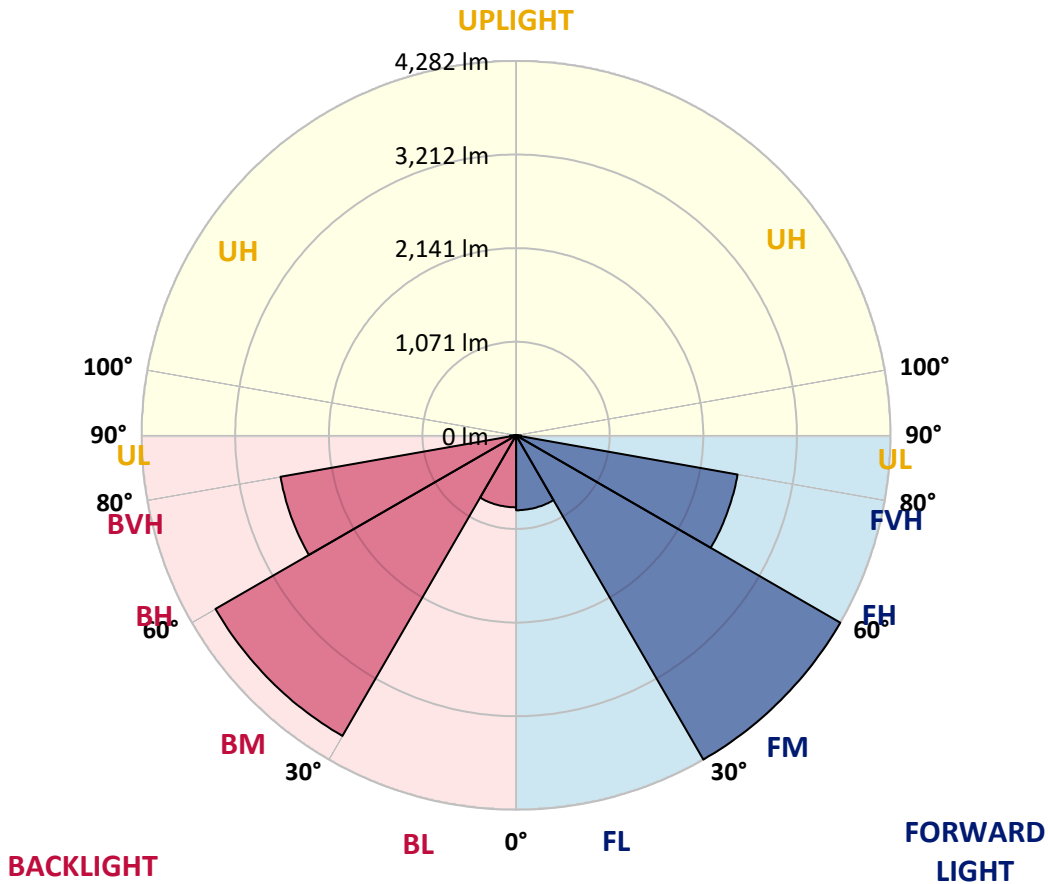


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.7	5.6			
FM (30°-60°)	4282.2	27.9			
FH (60°-80°)	2572.4	16.7			G2/5000
FVH (80°-90°)	55.7	0.4			G1/100
BL (0°-30°)	823.4	5.4	B2/1000		
BM (30°-60°)	3970.3	25.8	B3/5000		
BH (60°-80°)	2735.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	68.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	1523.7	1525.8	1529.0	1535.4	1541.8	1551.5	1561.1	1560.0	1564.3	1567.5	1570.7
5°	1515.1	1517.2	1522.6	1531.1	1540.8	1556.8	1577.2	1585.7	1592.1	1603.9	1614.6
7.5°	1533.3	1537.6	1545.1	1556.8	1571.8	1592.1	1620.0	1634.9	1644.6	1666.0	1684.1
10°	1557.9	1563.2	1578.2	1600.7	1623.2	1654.2	1689.5	1712.0	1718.4	1746.2	1780.4
12.5°	1581.4	1587.9	1612.5	1653.1	1693.8	1735.5	1777.2	1805.1	1807.2	1844.6	1883.2
15°	1618.9	1624.2	1657.4	1709.8	1771.9	1829.7	1881.0	1900.3	1908.8	1935.6	1983.7
17.5°	1701.3	1707.7	1750.5	1807.2	1872.5	1933.5	1984.8	2000.9	2000.9	2023.3	2062.9
20°	1790.1	1796.5	1853.2	1926.0	2005.1	2067.2	2106.8	2091.8	2086.5	2092.9	2120.7
22.5°	1889.6	1901.4	1955.9	2040.5	2137.8	2213.8	2234.1	2189.2	2174.2	2159.2	2165.6
25°	2016.9	2030.8	2084.3	2174.2	2269.4	2349.7	2361.4	2291.9	2283.3	2230.9	2211.6
27.5°	2163.5	2174.2	2240.5	2329.3	2418.2	2485.6	2498.4	2412.8	2383.9	2311.2	2266.2
30°	2352.9	2362.5	2420.3	2508.0	2585.1	2632.2	2648.2	2530.5	2508.0	2396.8	2327.2
32.5°	2559.4	2563.7	2622.5	2707.1	2775.5	2820.5	2798.0	2661.0	2627.9	2502.7	2407.5
35°	2795.9	2795.9	2871.8	2940.3	2994.9	3007.7	2964.9	2808.7	2770.2	2634.3	2515.5
37.5°	3028.0	3034.5	3105.1	3186.4	3234.6	3232.4	3154.3	2983.1	2939.2	2791.6	2660.0
40°	3279.5	3293.4	3364.0	3455.0	3501.0	3494.6	3374.7	3184.3	3139.3	2964.9	2836.5
42.5°	3510.6	3533.1	3615.5	3708.6	3758.8	3754.6	3629.4	3415.4	3371.5	3174.6	3046.2
45°	3694.6	3718.2	3820.9	3950.4	4030.6	4023.1	3896.9	3655.1	3601.6	3395.0	3253.8
47.5°	3856.2	3880.8	3995.3	4132.3	4259.6	4272.4	4156.9	3896.9	3840.2	3631.5	3472.1
50°	3980.3	3992.1	4120.5	4270.3	4417.9	4489.6	4389.1	4139.8	4071.3	3864.8	3685.0
52.5°	3970.7	3986.7	4145.1	4348.4	4546.3	4664.0	4594.5	4368.7	4302.4	4077.7	3902.2
55°	3774.9	3790.9	3979.3	4275.6	4618.0	4791.4	4783.9	4587.0	4538.9	4294.9	4128.0
57.5°	3489.2	3524.5	3711.8	4031.7	4523.9	4893.0	4923.0	4786.0	4735.7	4507.8	4351.6
60°	2977.8	3024.8	3241.0	3656.1	4222.1	4858.8	5071.7	4954.0	4923.0	4705.8	4553.8
62.5°	2163.5	2197.7	2485.6	3030.2	3774.9	4614.8	5196.9	5127.3	5103.8	4883.4	4736.8
65°	1295.7	1373.9	1605.0	2143.2	3045.2	4154.7	5128.4	5354.2	5329.6	5066.4	4893.0
67.5°	655.9	691.2	782.2	1162.0	2047.9	3437.8	4785.0	5495.4	5525.4	5222.6	4948.7
70°	406.6	416.2	441.9	573.5	1022.9	2258.7	3912.9	5127.3	5273.9	5198.0	4804.2
72.5°	326.3	328.5	332.8	357.4	491.1	1056.1	2473.8	4015.6	4279.9	4854.5	4597.7
75°	270.7	271.8	272.8	280.3	306.0	431.2	1203.7	2759.5	3068.7	4125.8	4262.8
77.5°	217.2	211.9	216.1	219.3	225.8	240.7	415.2	1472.3	1785.8	2708.1	3296.6
80°	141.2	139.1	147.7	150.9	157.3	166.9	221.5	499.7	606.7	985.5	1048.6
82.5°	76.0	71.7	89.9	86.7	89.9	97.4	130.5	183.0	205.4	297.5	251.4
85°	23.5	23.5	24.6	28.9	35.3	34.2	56.7	89.9	99.5	127.3	94.2
87.5°	4.3	4.3	4.3	4.3	4.3	5.3	11.8	18.2	24.6	43.9	33.2
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°	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8	1555.8
2.5°	1577.2	1567.5	1572.9	1576.1	1575.0	1572.9	1562.2	1560.0	1554.7	1546.1	1544.0
5°	1624.2	1613.5	1614.6	1611.4	1600.7	1586.8	1563.2	1551.5	1541.8	1531.1	1530.1
7.5°	1698.1	1686.3	1683.1	1668.1	1638.1	1606.0	1568.6	1547.2	1531.1	1517.2	1515.1
10°	1792.2	1780.4	1769.7	1734.4	1685.2	1642.4	1593.2	1562.2	1538.6	1521.5	1518.3
12.5°	1897.1	1887.4	1860.7	1809.3	1750.5	1700.2	1649.9	1611.4	1577.2	1551.5	1548.3
15°	2013.7	1992.3	1951.6	1885.3	1829.7	1789.0	1728.0	1675.6	1621.0	1586.8	1579.3
17.5°	2095.0	2076.8	2028.7	1964.5	1920.6	1885.3	1813.6	1738.7	1664.9	1614.6	1603.9
20°	2152.8	2133.5	2079.0	2031.9	2018.0	1988.0	1904.6	1817.9	1732.3	1670.2	1656.3
22.5°	2194.5	2174.2	2118.6	2095.0	2114.3	2108.9	2027.6	1929.2	1827.5	1753.7	1736.6
25°	2234.1	2214.9	2165.6	2174.2	2225.6	2241.6	2153.9	2039.4	1923.8	1837.2	1816.8
27.5°	2271.6	2247.0	2224.5	2271.6	2344.3	2374.3	2281.2	2151.7	2026.5	1937.7	1921.7
30°	2329.3	2300.5	2297.2	2365.7	2481.3	2507.0	2404.2	2274.8	2150.7	2060.8	2040.5
32.5°	2402.1	2375.4	2377.5	2480.2	2614.0	2635.4	2547.6	2426.7	2302.6	2212.7	2184.9
35°	2500.5	2467.4	2485.6	2611.8	2746.6	2786.2	2715.6	2615.0	2494.1	2402.1	2371.1
37.5°	2636.4	2588.3	2625.7	2758.4	2894.3	2953.1	2898.6	2823.7	2703.8	2610.8	2581.9
40°	2809.8	2770.2	2785.2	2931.7	3071.9	3142.5	3108.3	3034.5	2915.7	2818.3	2785.2
42.5°	3015.2	2975.6	2970.3	3126.5	3266.6	3373.6	3340.5	3273.1	3150.0	3038.7	3006.6
45°	3216.4	3180.0	3187.5	3346.9	3504.2	3620.8	3587.6	3508.5	3374.7	3246.3	3220.6
47.5°	3426.1	3396.1	3402.5	3571.6	3744.9	3861.6	3819.8	3723.5	3567.3	3430.4	3399.3
50°	3641.1	3606.9	3616.5	3794.2	3981.4	4091.6	4027.4	3885.1	3712.8	3579.1	3552.3
52.5°	3855.1	3814.5	3839.1	4007.1	4200.7	4288.5	4169.7	3997.4	3830.5	3697.9	3667.9
55°	4101.2	4058.4	4031.7	4211.4	4403.0	4439.3	4276.7	4075.6	3877.6	3726.7	3708.6
57.5°	4325.9	4289.6	4239.3	4419.0	4560.3	4533.5	4359.1	4054.2	3763.1	3569.5	3543.8
60°	4527.1	4496.1	4452.2	4605.2	4669.4	4609.5	4292.8	3800.6	3480.6	3278.4	3266.6
62.5°	4712.2	4679.0	4638.4	4768.9	4760.3	4621.2	3991.0	3411.1	2983.1	2765.9	2746.6
65°	4858.8	4828.8	4817.1	4919.8	4905.9	4391.2	3521.3	2773.4	2179.5	1934.5	1927.0
67.5°	4900.5	4888.7	4951.9	5126.3	4909.1	3929.0	2761.6	1839.3	1170.6	938.4	924.5
70°	4744.3	4743.2	4924.0	5173.4	4464.0	3001.3	1629.6	829.2	588.5	522.2	513.6
72.5°	4541.0	4537.8	4681.2	4462.9	3310.5	1642.4	685.9	444.0	368.1	349.9	349.9
75°	4207.2	4198.6	4306.7	3395.0	1861.8	618.4	363.8	304.9	288.9	285.7	285.7
77.5°	3429.3	3357.6	3187.5	2098.2	649.5	303.9	240.7	239.7	230.0	229.0	229.0
80°	1127.8	1127.8	1310.7	800.3	286.8	187.2	170.1	178.7	169.1	162.6	161.6
82.5°	184.0	253.6	360.6	229.0	155.1	116.6	104.9	111.3	116.6	93.1	93.1
85°	72.8	95.2	139.1	107.0	71.7	47.1	50.3	55.6	49.2	42.8	41.7
87.5°	27.8	34.2	49.2	25.7	15.0	8.6	5.3	5.3	4.3	4.3	4.3
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)