

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: P635553

Luminaire Tested: GWS-SA3E-722-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635553  
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-SA3E-722-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

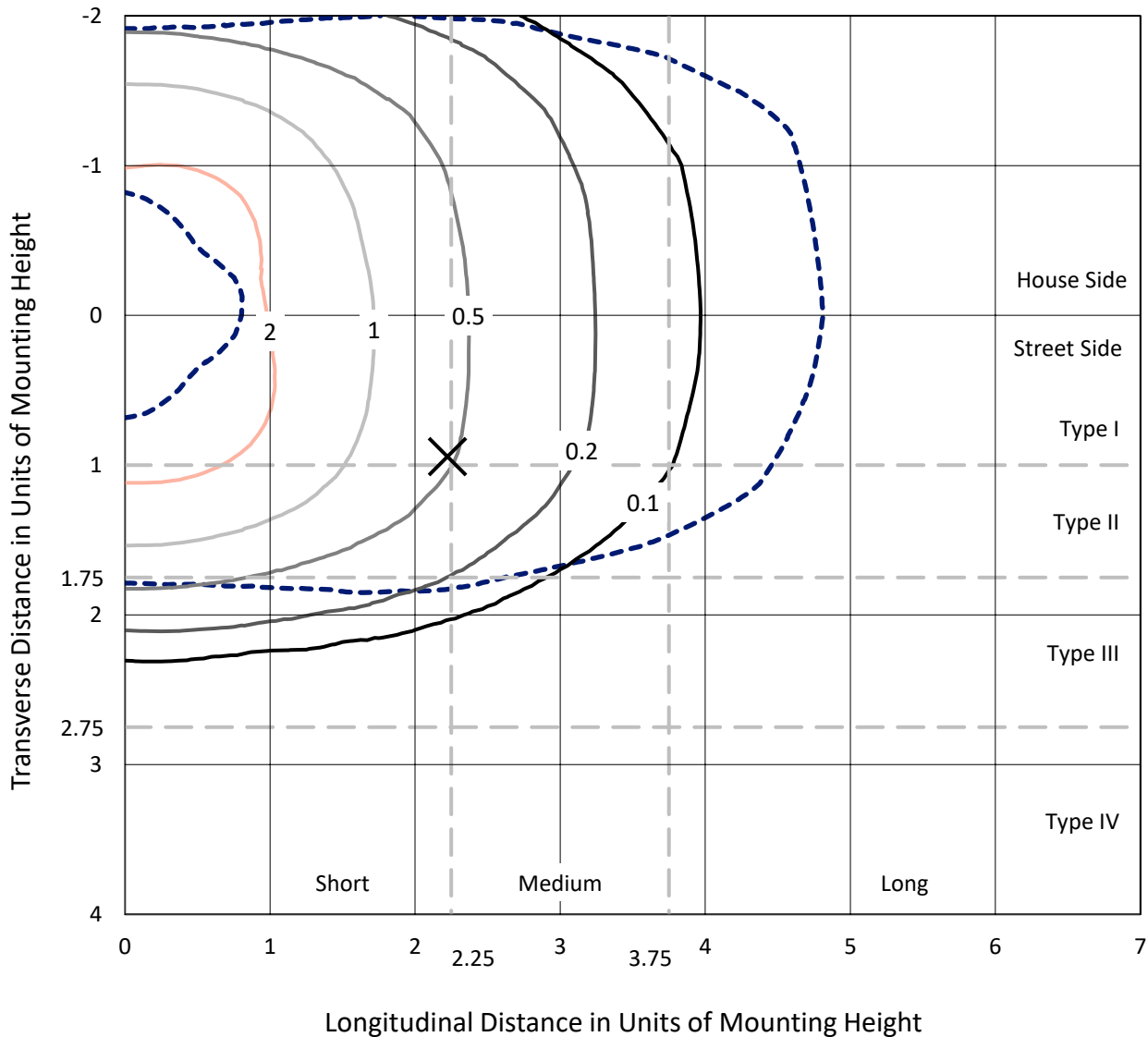
Lumens per Lamp: N/A  
Luminaire Lumens: 16675.6 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

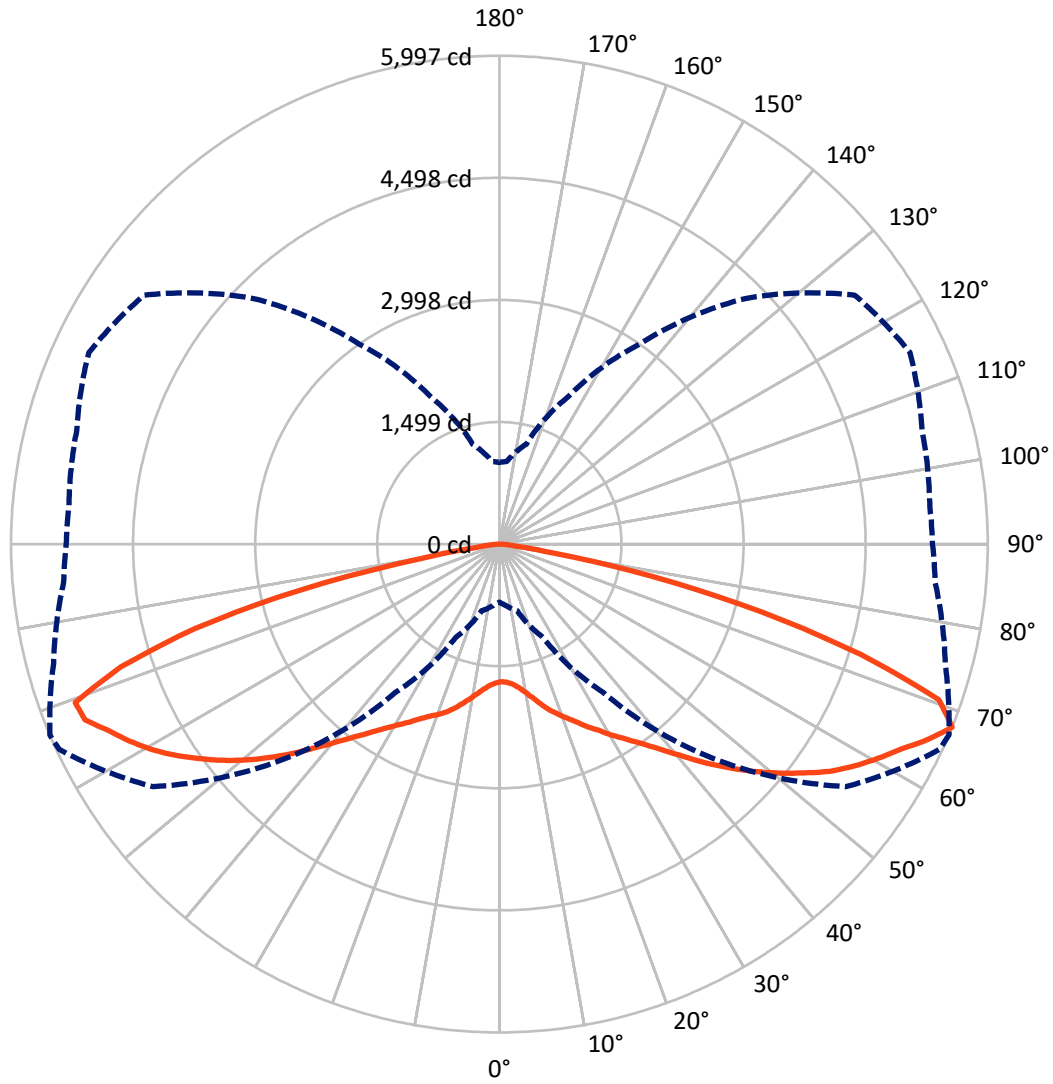
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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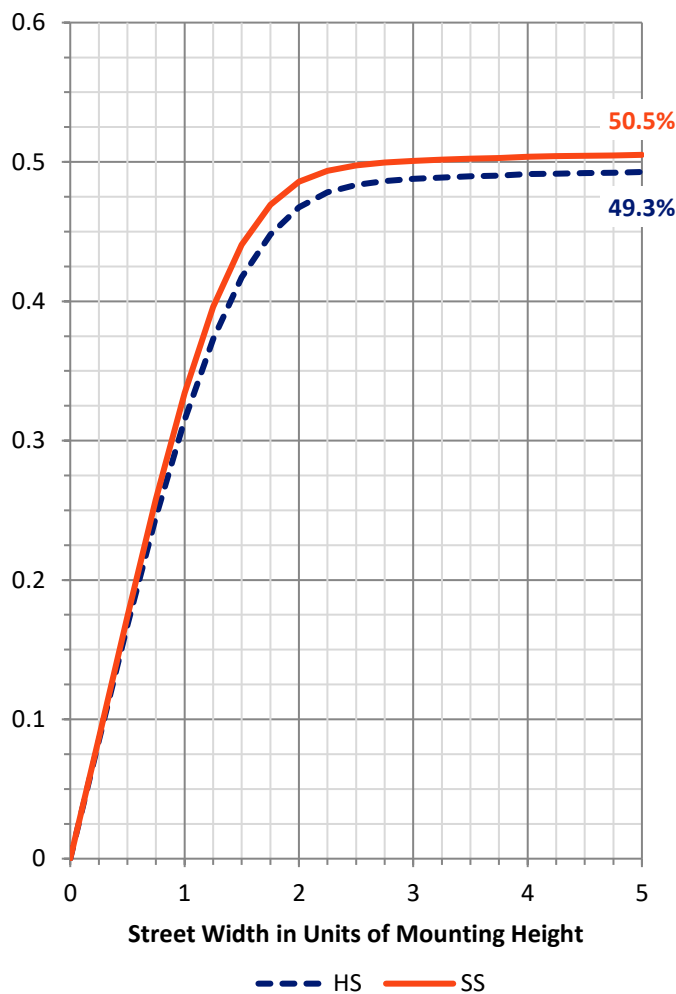
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8245.8	0.0	8245.8
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	8429.8	0.0	8429.8
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	16675.6	0.0	16675.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	1.0
10°-20°	559.7	3.4
20°-30°	1098.1	6.6
30°-40°	1870.8	11.2
40°-50°	3004.1	18.0
50°-60°	4081.9	24.5
60°-70°	3904.6	23.4
70°-80°	1856.4	11.1
80°-90°	134.5	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°	16675.6	100.0
0°-180°	16675.6	100.0

**Coefficient of Utilization**



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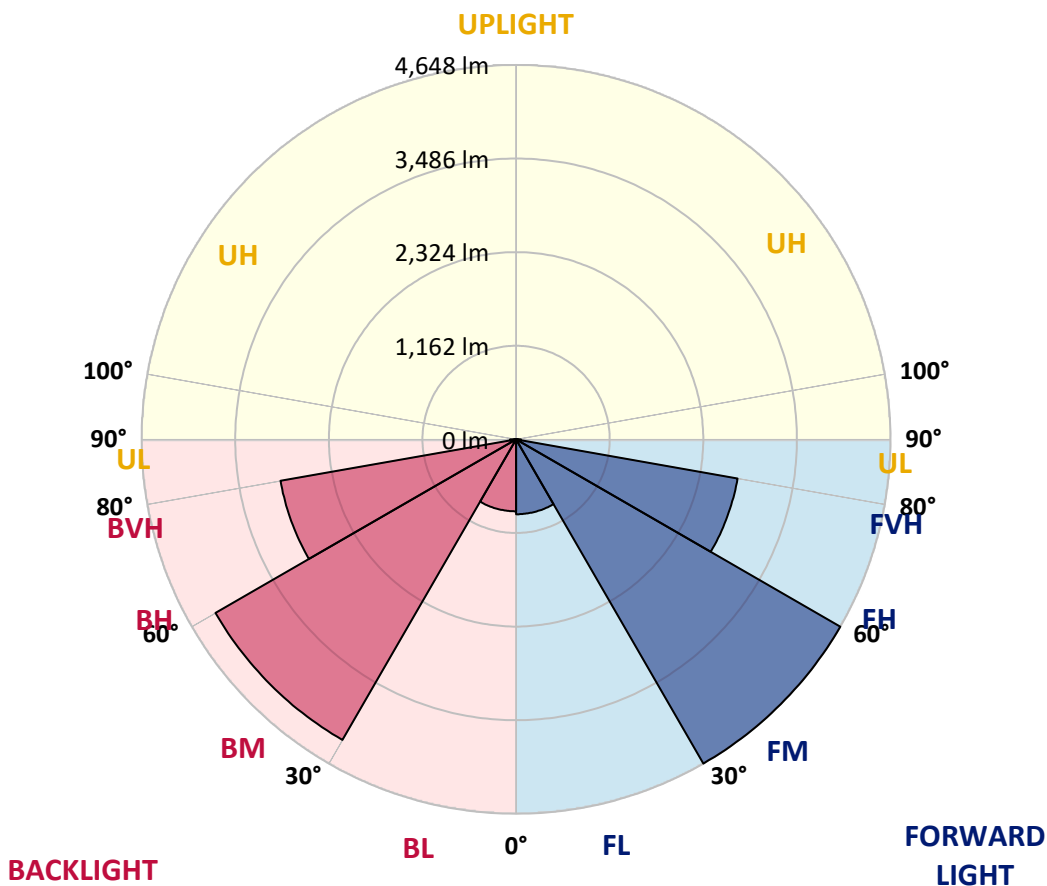
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.8	5.6			
FM (30°-60°)	4647.6	27.9			
FH (60°-80°)	2791.9	16.7			G2/5000
FVH (80°-90°)	60.5	0.4			G1/100
BL (0°-30°)	893.6	5.4	B2/1000		
BM (30°-60°)	4309.1	25.8	B3/5000		
BH (60°-80°)	2969.1	17.8	B4/5000		G4/5000
BVH (80°-90°)	74.1	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°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1653.7	1656.0	1659.5	1666.4	1673.4	1683.9	1694.3	1693.1	1697.8	1701.3	1704.8
5°	1644.4	1646.7	1652.5	1661.8	1672.2	1689.7	1711.7	1721.0	1728.0	1740.8	1752.4
7.5°	1664.1	1668.8	1676.9	1689.7	1705.9	1728.0	1758.2	1774.4	1784.9	1808.1	1827.9
10°	1690.8	1696.6	1712.9	1737.3	1761.7	1795.3	1833.7	1858.0	1865.0	1895.2	1932.4
12.5°	1716.4	1723.3	1750.0	1794.2	1838.3	1883.6	1928.9	1959.1	1961.4	2002.0	2043.8
15°	1757.0	1762.8	1798.8	1855.7	1923.1	1985.8	2041.5	2062.4	2071.7	2100.8	2153.0
17.5°	1846.4	1853.4	1899.8	1961.4	2032.2	2098.4	2154.2	2171.6	2171.6	2196.0	2238.9
20°	1942.8	1949.8	2011.3	2090.3	2176.2	2243.6	2286.6	2270.3	2264.5	2271.5	2301.7
22.5°	2050.8	2063.6	2122.8	2214.6	2320.2	2402.7	2424.7	2376.0	2359.7	2343.5	2350.4
25°	2189.0	2204.1	2262.2	2359.7	2463.1	2550.2	2562.9	2487.5	2478.2	2421.3	2400.4
27.5°	2348.1	2359.7	2431.7	2528.1	2624.5	2697.6	2711.6	2618.7	2587.3	2508.4	2459.6
30°	2553.6	2564.1	2626.8	2722.0	2805.6	2856.7	2874.2	2746.4	2722.0	2601.3	2525.8
32.5°	2777.8	2782.4	2846.3	2938.0	3012.4	3061.1	3036.7	2888.1	2852.1	2716.2	2612.9
35°	3034.4	3034.4	3116.9	3191.2	3250.4	3264.4	3217.9	3048.4	3006.5	2859.1	2730.2
37.5°	3286.4	3293.4	3370.0	3458.3	3510.5	3508.2	3423.4	3237.6	3190.0	3029.8	2886.9
40°	3559.3	3574.4	3651.1	3749.8	3799.7	3792.7	3662.7	3456.0	3407.2	3217.9	3078.5
42.5°	3810.2	3834.5	3924.0	4025.0	4079.6	4074.9	3939.1	3706.8	3659.2	3445.5	3306.2
45°	4009.9	4035.4	4146.9	4287.4	4374.5	4366.4	4229.4	3966.9	3908.9	3684.7	3531.4
47.5°	4185.2	4212.0	4336.2	4484.9	4623.0	4637.0	4511.6	4229.4	4167.8	3941.4	3768.3
50°	4320.0	4332.7	4472.1	4634.7	4794.9	4872.7	4763.6	4493.0	4418.7	4194.5	3999.4
52.5°	4309.5	4326.9	4498.8	4719.4	4934.3	5062.0	4986.5	4741.5	4669.5	4425.6	4235.2
55°	4097.0	4114.4	4318.8	4640.5	5012.1	5200.2	5192.1	4978.4	4926.1	4661.4	4480.2
57.5°	3786.9	3825.2	4028.5	4375.7	4909.9	5310.5	5343.0	5194.4	5139.8	4892.5	4722.9
60°	3231.8	3282.9	3517.5	3968.1	4582.4	5273.4	5504.5	5376.7	5343.0	5107.3	4942.4
62.5°	2348.1	2385.3	2697.6	3288.7	4097.0	5008.6	5640.3	5564.8	5539.3	5300.1	5141.0
65°	1406.3	1491.1	1741.9	2326.0	3305.0	4509.2	5566.0	5811.0	5784.3	5498.6	5310.5
67.5°	711.9	750.2	848.9	1261.1	2222.7	3731.2	5193.2	5964.3	5996.8	5668.2	5370.9
70°	441.3	451.7	479.6	622.4	1110.2	2451.5	4246.8	5564.8	5723.9	5641.5	5214.1
72.5°	354.2	356.5	361.2	387.9	533.0	1146.2	2684.9	4358.3	4645.1	5268.7	4990.0
75°	293.8	295.0	296.1	304.3	332.1	468.0	1306.4	2994.9	3330.5	4477.9	4626.5
77.5°	235.7	229.9	234.6	238.1	245.0	261.3	450.6	1597.9	1938.2	2939.2	3577.9
80°	153.3	151.0	160.3	163.7	170.7	181.2	240.4	542.3	658.4	1069.5	1138.1
82.5°	82.5	77.8	97.5	94.1	97.5	105.7	141.7	198.6	223.0	322.8	272.9
85°	25.5	25.5	26.7	31.4	38.3	37.2	61.5	97.5	108.0	138.2	102.2
87.5°	4.6	4.6	4.6	4.6	4.6	5.8	12.8	19.7	26.7	47.6	36.0
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°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1711.7	1701.3	1707.1	1710.6	1709.4	1707.1	1695.5	1693.1	1687.3	1678.0	1675.7
5°	1762.8	1751.2	1752.4	1748.9	1737.3	1722.2	1696.6	1683.9	1673.4	1661.8	1660.6
7.5°	1842.9	1830.2	1826.7	1810.4	1777.9	1743.1	1702.4	1679.2	1661.8	1646.7	1644.4
10°	1945.1	1932.4	1920.8	1882.4	1829.0	1782.6	1729.1	1695.5	1669.9	1651.3	1647.9
12.5°	2058.9	2048.5	2019.5	1963.7	1899.8	1845.3	1790.7	1748.9	1711.7	1683.9	1680.4
15°	2185.5	2162.3	2118.2	2046.2	1985.8	1941.7	1875.5	1818.6	1759.3	1722.2	1714.0
17.5°	2273.8	2254.0	2201.8	2132.1	2084.5	2046.2	1968.4	1887.1	1806.9	1752.4	1740.8
20°	2336.5	2315.6	2256.4	2205.3	2190.2	2157.7	2067.1	1973.0	1880.1	1812.8	1797.7
22.5°	2381.8	2359.7	2299.3	2273.8	2294.7	2288.9	2200.6	2093.8	1983.5	1903.3	1884.8
25°	2424.7	2403.8	2350.4	2359.7	2415.5	2432.9	2337.7	2213.4	2088.0	1993.9	1971.8
27.5°	2465.4	2438.7	2414.3	2465.4	2544.4	2576.9	2475.8	2335.3	2199.5	2103.1	2085.7
30°	2528.1	2496.7	2493.3	2567.6	2693.0	2720.9	2609.4	2468.9	2334.2	2236.6	2214.6
32.5°	2607.1	2578.0	2580.4	2691.8	2837.0	2860.2	2765.0	2633.8	2499.1	2401.5	2371.3
35°	2713.9	2677.9	2697.6	2834.7	2981.0	3024.0	2947.3	2838.2	2706.9	2607.1	2573.4
37.5°	2861.4	2809.1	2849.8	2993.8	3141.3	3205.1	3145.9	3064.6	2934.5	2833.5	2802.2
40°	3049.5	3006.5	3022.8	3181.9	3334.0	3410.7	3373.5	3293.4	3164.5	3058.8	3022.8
42.5°	3272.5	3229.5	3223.7	3393.3	3545.4	3661.5	3625.5	3552.3	3418.8	3298.0	3263.2
45°	3490.8	3451.3	3459.4	3632.5	3803.2	3929.8	3893.8	3807.8	3662.7	3523.3	3495.4
47.5°	3718.4	3685.9	3692.9	3876.3	4064.5	4191.1	4145.8	4041.2	3871.7	3723.1	3689.4
50°	3951.8	3914.7	3925.1	4117.9	4321.1	4440.7	4371.0	4216.6	4029.6	3884.5	3855.4
52.5°	4184.1	4140.0	4166.7	4349.0	4559.2	4654.4	4525.5	4338.5	4157.4	4013.4	3980.9
55°	4451.2	4404.7	4375.7	4570.8	4778.7	4818.1	4641.6	4423.3	4208.5	4044.7	4025.0
57.5°	4695.0	4655.6	4601.0	4796.1	4949.4	4920.3	4731.0	4400.1	4084.2	3874.0	3846.2
60°	4913.4	4879.7	4832.1	4998.1	5067.8	5002.8	4659.0	4124.9	3777.6	3558.2	3545.4
62.5°	5114.3	5078.3	5034.1	5175.8	5166.5	5015.6	4331.6	3702.2	3237.6	3001.9	2981.0
65°	5273.4	5240.8	5228.1	5339.6	5324.5	4765.9	3821.8	3010.0	2365.5	2099.6	2091.5
67.5°	5318.7	5305.9	5374.4	5563.7	5327.9	4264.2	2997.3	1996.2	1270.4	1018.4	1003.3
70°	5149.1	5147.9	5344.2	5614.8	4844.8	3257.4	1768.6	900.0	638.7	566.7	557.4
72.5°	4928.5	4925.0	5080.6	4843.7	3593.0	1782.6	744.4	481.9	399.5	379.7	379.7
75°	4566.1	4556.9	4674.1	3684.7	2020.6	671.2	394.8	331.0	313.5	310.1	310.1
77.5°	3721.9	3644.1	3459.4	2277.3	704.9	329.8	261.3	260.1	249.7	248.5	248.5
80°	1224.0	1224.0	1422.6	868.6	311.2	203.2	184.6	193.9	183.5	176.5	175.4
82.5°	199.7	275.2	391.4	248.5	168.4	126.6	113.8	120.8	126.6	101.0	101.0
85°	79.0	103.4	151.0	116.1	77.8	51.1	54.6	60.4	53.4	46.5	45.3
87.5°	30.2	37.2	53.4	27.9	16.3	9.3	5.8	5.8	4.6	4.6	4.6
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)