

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: P633077

Luminaire Tested: GWS-SA2E-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

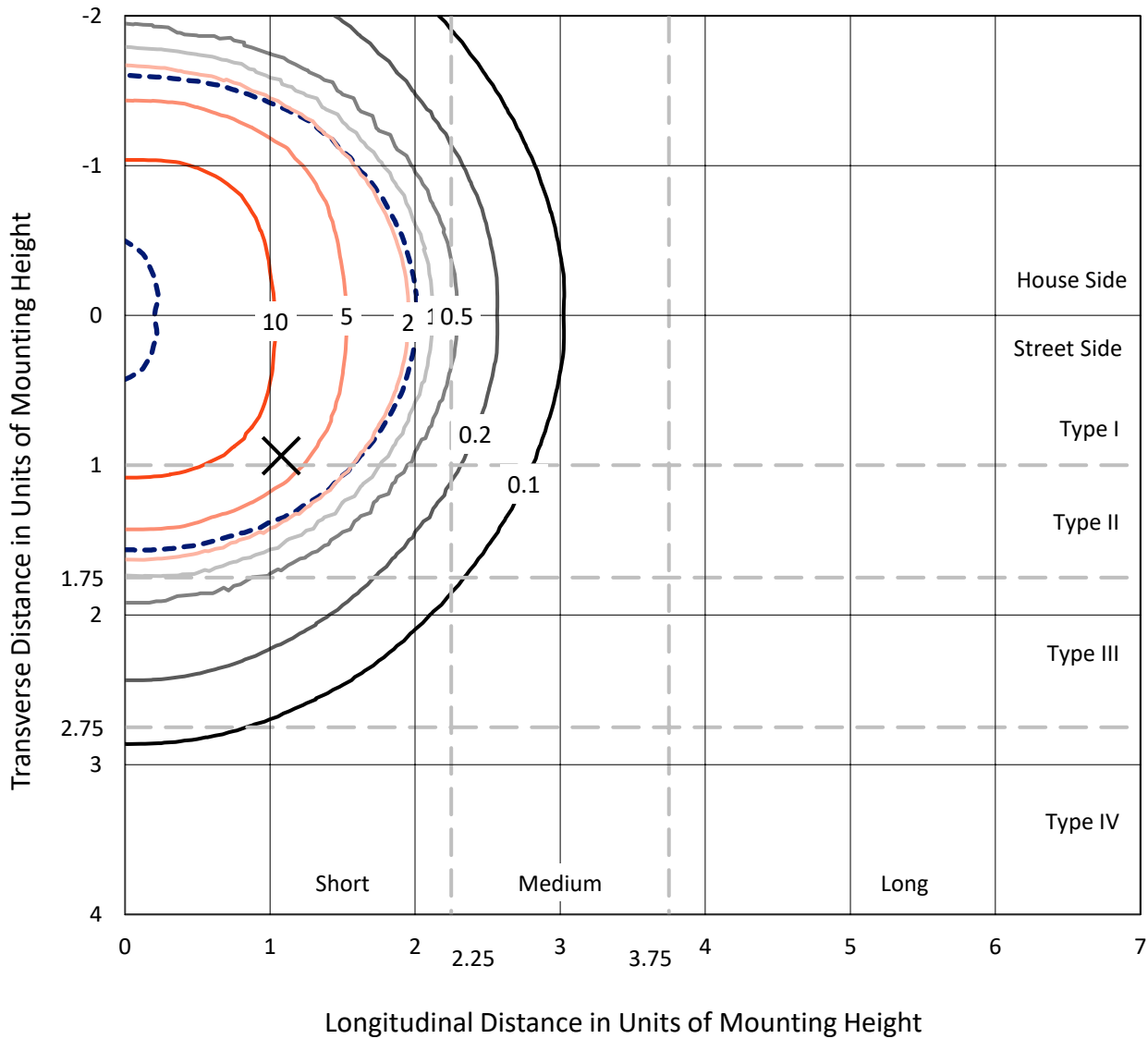
Lumens per Lamp: N/A  
Luminaire Lumens: 9474.5 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

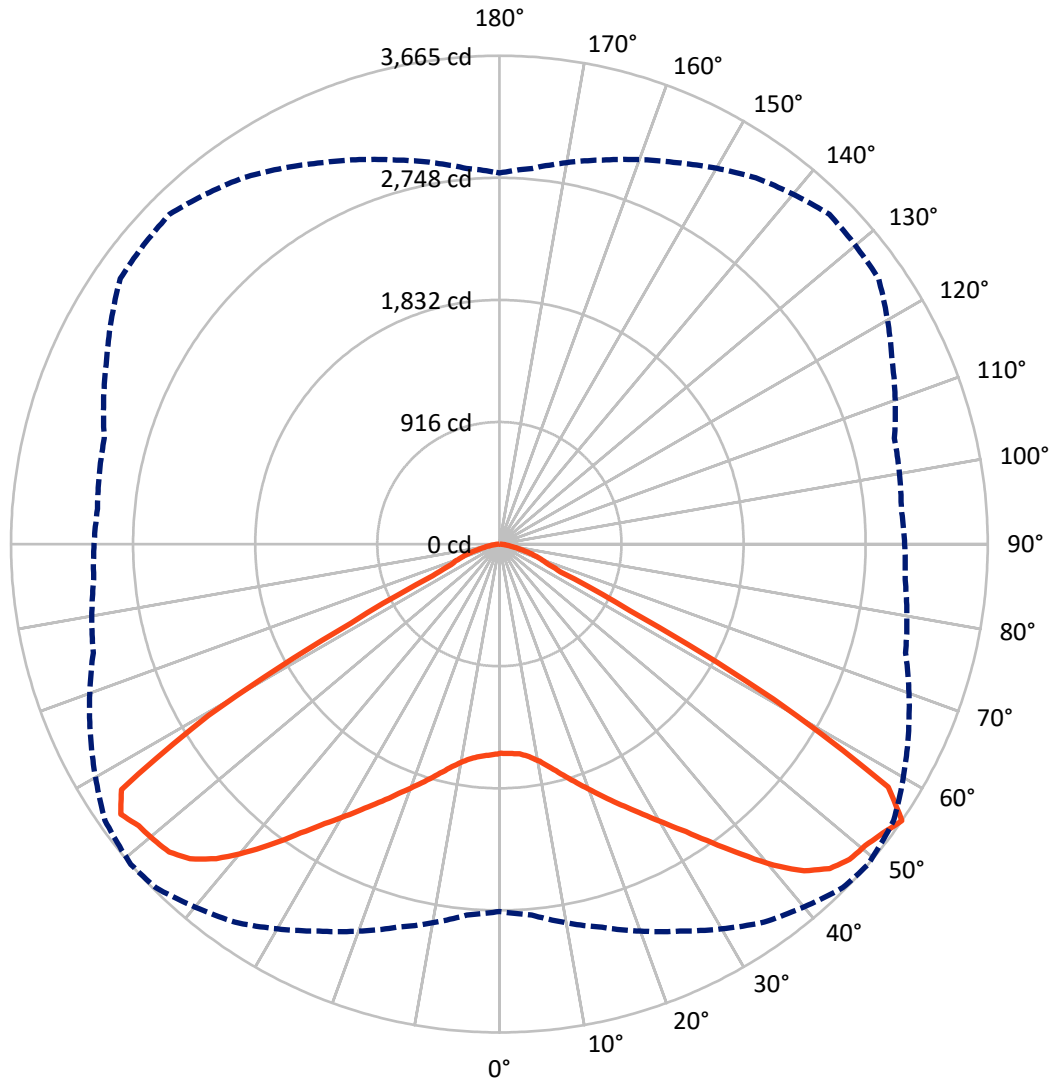
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4690.8	0.0	4690.8
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	4783.7	0.0	4783.7
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	9474.5	0.0	9474.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	1.6
10°-20°	505.0	5.3
20°-30°	961.9	10.2
30°-40°	1630.6	17.2
40°-50°	2454.0	25.9
50°-60°	2686.1	28.4
60°-70°	849.4	9.0
70°-80°	203.9	2.2
80°-90°	30.6	0.3
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°	9474.5	100.0
0°-180°	9474.5	100.0

**Coefficient of Utilization**



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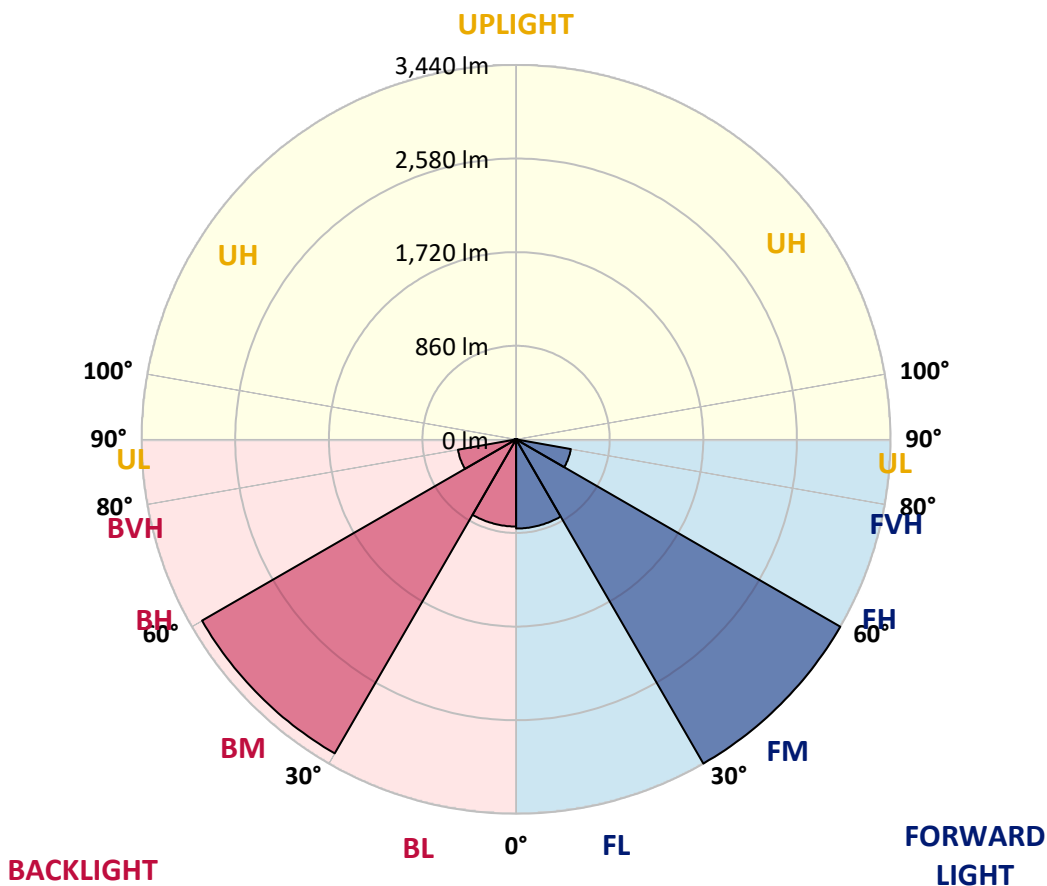
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.2	8.6			
FM (30°-60°)	3439.5	36.3			
FH (60°-80°)	510.9	5.4			G0/660
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	800.9	8.5	B2/1000		
BM (30°-60°)	3331.2	35.2	B3/5000		
BH (60°-80°)	542.3	5.7	B2/1000		G0/660
BVH (80°-90°)	16.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5
2.5°	1546.4	1547.9	1551.0	1556.4	1561.8	1569.5	1572.6	1576.4	1575.7	1580.3	1580.3
5°	1538.7	1541.0	1545.6	1553.3	1562.6	1577.2	1581.1	1590.3	1599.6	1611.1	1615.0
7.5°	1547.9	1551.0	1556.4	1568.7	1582.6	1601.9	1609.6	1625.0	1642.7	1663.5	1672.0
10°	1565.7	1569.5	1578.8	1598.8	1621.1	1650.4	1657.3	1676.6	1705.1	1733.6	1750.6
12.5°	1585.7	1591.9	1608.8	1640.4	1673.5	1712.1	1722.8	1746.7	1777.5	1814.5	1837.6
15°	1608.8	1614.2	1640.4	1685.1	1736.7	1787.6	1799.9	1823.0	1857.7	1893.9	1926.2
17.5°	1657.3	1666.6	1697.4	1749.0	1809.1	1869.2	1883.1	1909.3	1937.0	1965.5	1996.4
20°	1723.6	1731.3	1770.6	1834.6	1905.4	1960.2	1974.0	1997.1	2010.2	2024.9	2051.1
22.5°	1789.9	1800.7	1845.3	1920.9	2004.1	2063.4	2074.2	2095.8	2086.5	2081.9	2098.8
25°	1872.3	1887.0	1930.9	2013.3	2098.1	2171.3	2179.7	2198.2	2182.8	2158.9	2158.2
27.5°	1974.8	1987.9	2033.3	2118.1	2202.1	2278.4	2294.5	2319.2	2285.3	2256.0	2235.2
30°	2096.5	2105.0	2155.1	2245.2	2331.5	2404.0	2424.8	2449.4	2424.0	2375.5	2354.6
32.5°	2238.3	2249.9	2307.6	2402.4	2479.5	2551.9	2572.7	2603.5	2575.8	2521.1	2494.9
35°	2408.6	2420.1	2481.0	2584.3	2662.8	2737.6	2752.2	2777.7	2743.0	2679.8	2659.0
37.5°	2593.5	2608.1	2685.2	2783.0	2865.5	2952.6	2953.3	2961.0	2911.7	2833.1	2810.0
40°	2801.5	2820.8	2897.9	2999.6	3099.0	3169.8	3169.1	3147.5	3064.3	2942.5	2907.1
42.5°	3007.3	3022.7	3100.5	3205.3	3304.7	3371.7	3351.7	3299.3	3179.1	3013.4	2966.4
45°	3156.0	3167.5	3249.2	3367.1	3468.0	3509.6	3473.4	3410.2	3247.7	3058.1	2988.8
47.5°	3226.1	3241.5	3323.9	3441.1	3555.1	3579.0	3535.8	3476.5	3287.7	3099.7	3006.5
50°	3188.3	3208.4	3301.6	3410.2	3538.9	3588.2	3557.4	3498.1	3330.1	3140.6	3038.1
52.5°	3090.5	3109.7	3227.6	3359.4	3505.0	3602.9	3602.1	3553.5	3378.6	3152.1	3039.6
55°	2756.1	2793.8	2977.2	3204.5	3463.4	3646.0	3664.5	3612.9	3386.3	3155.2	3055.8
57.5°	1793.7	1860.0	2034.1	2330.0	2849.3	3316.2	3441.1	3453.4	3330.9	3142.1	3058.9
60°	748.9	802.1	940.0	1136.5	1565.7	2121.2	2363.1	2605.8	2898.6	3004.9	3030.4
62.5°	465.4	470.0	483.9	528.6	671.9	943.1	1098.7	1326.0	1761.4	2132.0	2303.0
65°	419.9	422.2	425.3	422.2	429.2	462.3	503.9	583.3	760.5	944.6	1163.5
67.5°	369.8	372.9	375.2	372.9	375.2	376.8	381.4	388.3	420.7	446.9	466.9
70°	299.0	303.6	307.4	305.9	315.1	315.1	319.8	325.2	341.3	360.6	374.5
72.5°	228.1	224.2	228.8	230.4	238.9	243.5	250.4	256.6	275.1	286.6	304.3
75°	147.9	144.1	151.0	154.9	166.4	172.6	178.8	184.9	198.0	205.7	222.7
77.5°	80.1	79.4	86.3	91.7	104.0	111.7	116.3	121.0	131.8	134.1	144.9
80°	46.2	46.2	50.9	54.7	62.4	70.9	75.5	79.4	87.1	89.4	94.0
82.5°	25.4	25.4	27.7	30.0	36.2	40.8	44.7	47.8	54.7	57.0	59.3
85°	12.3	11.6	13.1	14.6	17.0	19.3	21.6	23.1	28.5	30.0	33.1
87.5°	1.5	1.5	1.5	2.3	3.1	4.6	5.4	5.4	8.5	10.0	11.6
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°	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5	1569.5
2.5°	1584.9	1574.9	1581.1	1583.4	1583.4	1581.1	1571.0	1568.0	1563.3	1556.4	1556.4
5°	1620.4	1612.7	1614.2	1610.3	1601.1	1589.5	1571.0	1561.8	1554.1	1545.6	1544.9
7.5°	1681.2	1671.2	1669.7	1655.0	1630.4	1605.7	1578.0	1561.0	1549.5	1538.7	1537.9
10°	1760.6	1751.3	1739.8	1710.5	1674.3	1638.1	1600.3	1577.2	1560.3	1544.9	1544.1
12.5°	1849.2	1838.4	1816.8	1773.7	1728.2	1692.8	1649.6	1614.2	1588.8	1568.0	1564.1
15°	1945.5	1930.1	1893.1	1842.3	1797.6	1759.8	1713.6	1662.7	1624.2	1591.1	1587.2
17.5°	2019.5	1999.4	1959.4	1911.6	1874.6	1836.9	1776.8	1712.8	1657.3	1615.7	1609.6
20°	2070.3	2054.2	2008.7	1973.3	1951.7	1918.5	1848.4	1776.0	1713.6	1661.2	1658.1
22.5°	2117.3	2098.1	2053.4	2032.6	2032.6	2010.2	1943.2	1857.7	1784.5	1723.6	1715.9
25°	2170.5	2149.7	2115.8	2113.5	2124.3	2114.3	2033.3	1941.7	1856.1	1787.6	1775.2
27.5°	2244.5	2221.4	2201.3	2215.2	2230.6	2219.8	2129.7	2023.3	1933.2	1863.8	1853.1
30°	2362.4	2333.8	2315.4	2332.3	2362.4	2330.8	2232.9	2120.4	2029.5	1953.2	1947.8
32.5°	2499.5	2467.1	2447.9	2474.8	2501.8	2452.5	2355.4	2247.5	2152.0	2071.9	2062.6
35°	2664.4	2623.6	2595.0	2631.3	2659.0	2610.5	2514.1	2411.7	2305.3	2222.1	2209.8
37.5°	2810.8	2761.5	2742.2	2793.1	2830.0	2798.5	2693.7	2597.4	2481.0	2390.1	2384.7
40°	2917.1	2868.6	2854.7	2938.7	3003.4	2995.7	2901.7	2791.5	2682.1	2577.3	2567.3
42.5°	2963.3	2929.4	2932.5	3045.8	3146.0	3195.3	3111.3	2993.4	2887.8	2779.2	2772.3
45°	2973.4	2952.6	2977.2	3119.0	3250.7	3351.7	3280.0	3181.4	3062.0	2957.2	2954.1
47.5°	2984.1	2972.6	3010.3	3160.6	3317.0	3434.1	3394.1	3292.3	3171.4	3068.9	3061.2
50°	3009.6	3004.9	3047.3	3189.9	3348.6	3456.5	3411.0	3310.1	3186.0	3085.1	3066.6
52.5°	3017.3	3009.6	3070.4	3235.3	3401.0	3455.7	3357.8	3226.1	3101.3	2988.8	2969.5
55°	3041.2	3027.3	3068.9	3252.3	3473.4	3500.4	3354.8	3157.5	2983.4	2830.0	2784.6
57.5°	3047.3	3031.9	3058.9	3224.5	3394.8	3370.9	2948.7	2548.0	2219.8	2049.5	2068.8
60°	3014.2	3018.8	2972.6	2954.1	2722.9	2404.0	1805.3	1443.1	1133.4	1002.4	1030.9
62.5°	2294.5	2313.8	2155.9	1874.6	1441.6	1142.7	755.9	587.1	497.0	473.9	477.7
65°	1158.1	1184.3	1020.1	843.7	627.2	507.0	438.4	424.5	419.9	414.5	414.5
67.5°	458.4	466.2	460.0	430.7	400.7	389.9	386.8	385.2	379.9	376.8	377.5
70°	368.3	374.5	365.2	346.7	334.4	333.6	332.1	329.0	325.2	325.2	327.5
72.5°	300.5	306.7	293.6	282.0	272.8	265.8	262.0	259.7	254.3	254.3	256.6
75°	221.1	225.0	214.2	212.7	202.6	195.7	189.5	186.5	179.5	176.4	178.8
77.5°	147.2	146.4	141.0	141.0	137.1	128.7	121.7	114.8	105.6	99.4	100.9
80°	95.5	95.5	93.2	93.2	89.4	82.4	74.0	67.0	61.6	57.0	57.0
82.5°	60.9	60.1	59.3	58.6	57.0	50.1	43.9	39.3	35.4	32.4	33.1
85°	33.9	33.9	32.4	32.4	29.3	25.4	22.3	19.3	17.0	16.2	16.2
87.5°	11.6	11.6	10.8	10.8	9.2	6.9	5.4	4.6	3.9	3.1	3.9
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)