

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: P637407

Luminaire Tested: GWS-SA4C-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

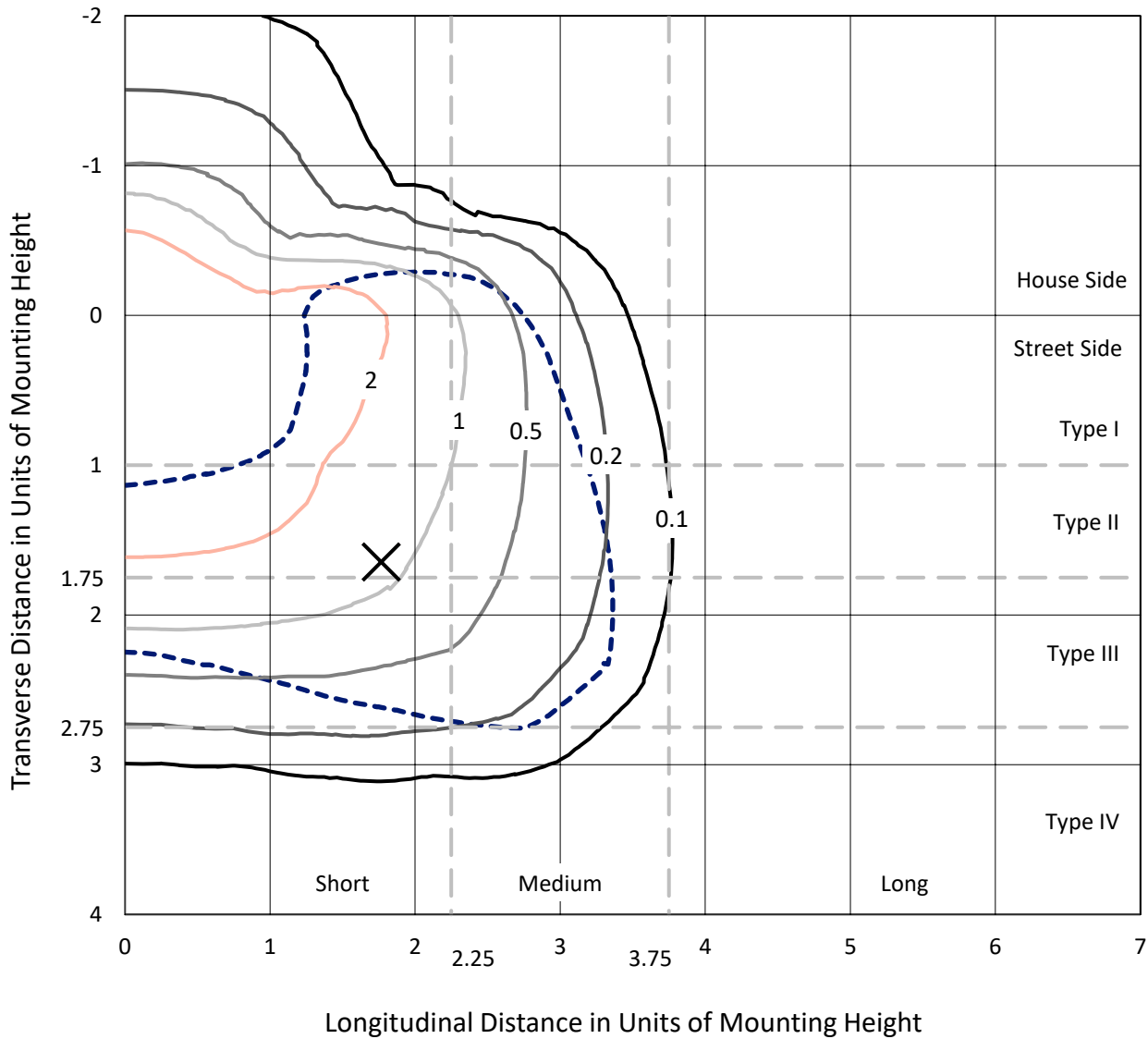
Lumens per Lamp: N/A  
Luminaire Lumens: 19416.5 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

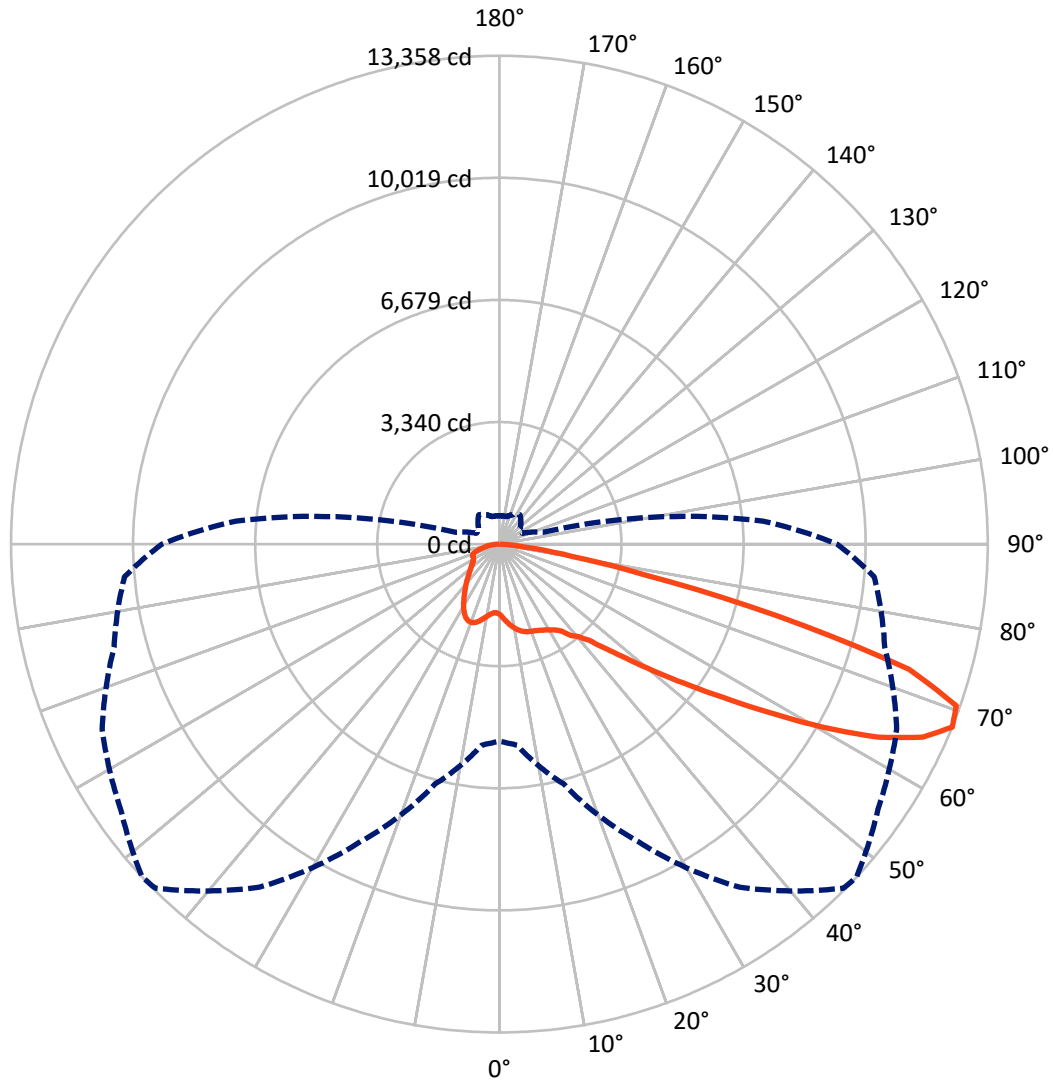
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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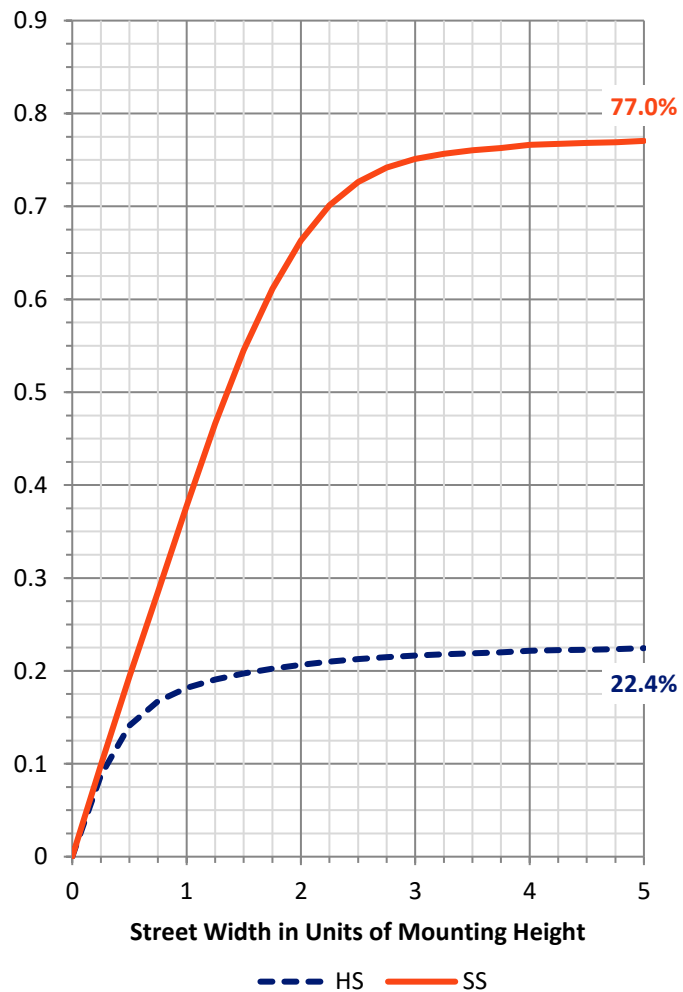
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4425.2	0.0	4425.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	14991.3	0.0	14991.3
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	19416.5	0.0	19416.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.7	1.0
10°-20°	655.4	3.4
20°-30°	1114.0	5.7
30°-40°	1631.9	8.4
40°-50°	2486.3	12.8
50°-60°	4448.6	22.9
60°-70°	5936.2	30.6
70°-80°	2684.5	13.8
80°-90°	263.0	1.4
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°	19416.5	100.0
0°-180°	19416.5	100.0

**Coefficient of Utilization**



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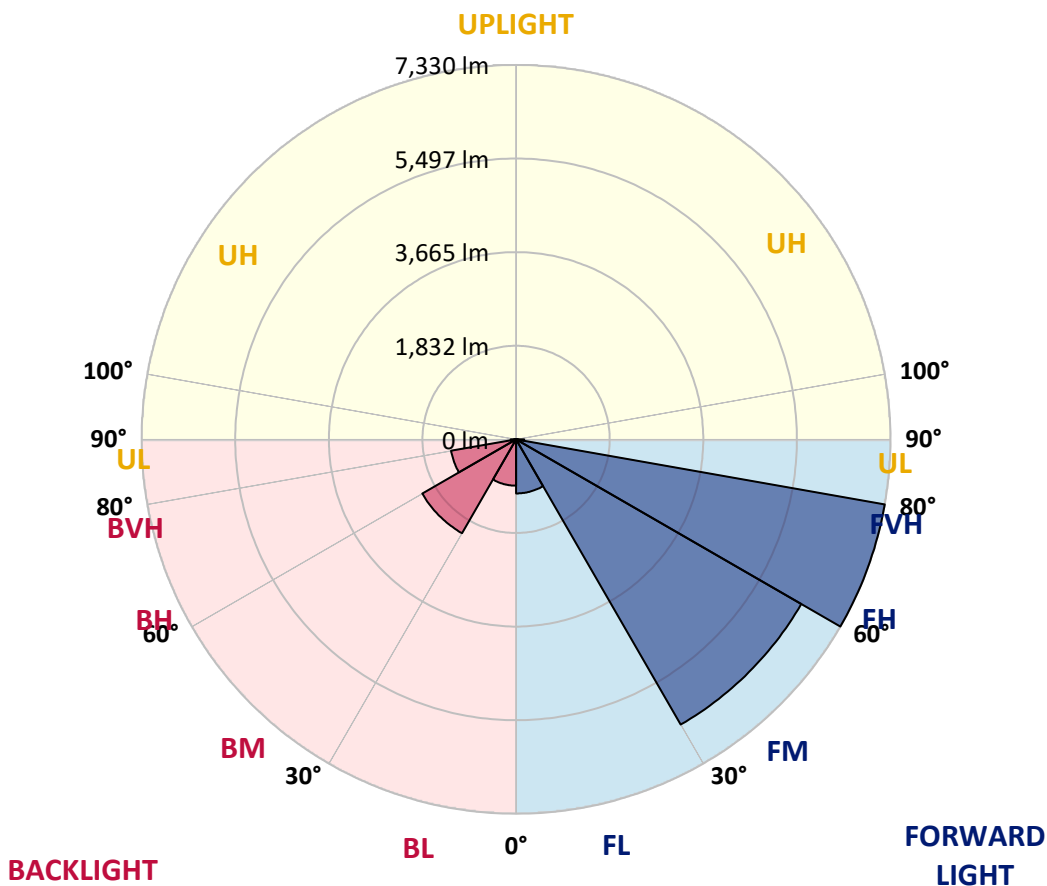
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.9	5.5			
FM (30°-60°)	6446.5	33.2			
FH (60°-80°)	7329.5	37.7			G3/7500
FVH (80°-90°)	156.4	0.8			G2/225
BL (0°-30°)	907.2	4.7	B2/1000		
BM (30°-60°)	2120.3	10.9	B2/2500		
BH (60°-80°)	1291.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	106.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8
2.5°	2052.5	2059.6	2058.2	2046.9	2039.9	2027.3	2028.7	2009.0	1979.5	1959.9	1937.4
5°	2233.7	2244.9	2230.8	2212.6	2184.5	2143.8	2139.6	2094.7	2038.5	1999.2	1958.5
7.5°	2390.9	2397.9	2381.1	2350.2	2309.5	2254.7	2244.9	2191.5	2121.3	2059.6	2000.6
10°	2513.0	2521.5	2499.0	2458.3	2404.9	2350.2	2343.2	2288.4	2214.0	2141.0	2066.6
12.5°	2616.9	2619.7	2595.9	2541.1	2483.6	2427.4	2420.4	2369.8	2301.0	2226.6	2145.2
15°	2677.3	2678.7	2649.2	2588.8	2534.1	2485.0	2480.7	2437.2	2374.0	2303.9	2216.8
17.5°	2673.1	2675.9	2654.8	2601.5	2553.8	2524.3	2520.1	2492.0	2442.8	2379.7	2292.6
20°	2621.1	2623.9	2609.9	2574.8	2549.5	2541.1	2542.5	2534.1	2504.6	2452.7	2364.2
22.5°	2580.4	2584.6	2572.0	2546.7	2543.9	2563.6	2567.8	2572.0	2558.0	2511.6	2426.0
25°	2600.1	2607.1	2587.4	2552.3	2558.0	2601.5	2609.9	2623.9	2612.7	2573.4	2499.0
27.5°	2736.3	2740.5	2689.9	2618.3	2601.5	2647.8	2660.4	2682.9	2674.5	2638.0	2580.4
30°	3052.1	3049.3	2941.2	2765.7	2695.5	2713.8	2723.6	2755.9	2758.7	2734.9	2680.1
32.5°	3497.2	3483.2	3316.1	3036.7	2833.1	2788.2	2799.4	2843.0	2875.3	2850.0	2775.6
35°	3967.5	3954.9	3771.0	3443.8	3087.2	2931.4	2918.8	2952.5	3001.6	2931.4	2824.7
37.5°	4415.4	4395.7	4207.6	3803.2	3400.3	3182.7	3164.5	3130.8	3101.3	2966.5	2885.1
40°	4912.4	4889.9	4725.6	4268.0	3745.7	3375.1	3328.7	3195.3	3168.7	3083.0	3042.3
42.5°	5443.0	5443.0	5306.9	4856.2	4162.7	3650.2	3589.9	3389.1	3417.2	3361.0	3313.3
45°	5973.7	5989.2	5881.1	5448.7	4720.0	4169.7	4072.8	3787.8	3855.2	3829.9	3806.1
47.5°	6425.8	6455.3	6434.2	6053.8	5402.3	4801.4	4654.0	4357.8	4502.4	4562.8	4630.2
50°	6913.0	6945.2	6924.2	6774.0	6201.2	5566.6	5434.6	5128.6	5377.1	5558.2	5778.6
52.5°	7636.0	7682.3	7506.8	7449.3	7171.3	6435.6	6317.7	5969.5	6420.2	6720.6	7212.0
55°	8246.7	8245.3	8183.5	8315.5	8213.0	7498.4	7367.8	7051.9	7627.6	7946.3	8665.1
57.5°	8530.3	8564.0	8776.0	9149.4	9354.4	8797.0	8672.1	8349.2	8923.4	9089.1	9865.4
60°	8676.3	8718.4	9128.4	9866.8	10418.6	10215.0	10165.9	9754.5	10077.4	10057.8	10877.7
62.5°	8471.3	8555.6	9214.0	10195.3	11178.1	11640.0	11624.5	11002.6	11058.8	10866.4	11505.2
65°	7530.7	7621.9	8655.2	10031.1	11611.9	12723.8	12728.0	12132.8	11812.7	11259.5	11399.9
67.5°	5385.5	5516.0	6793.6	8975.3	11458.9	13309.3	13358.4	12645.2	11989.6	10911.4	10293.6
70°	2935.6	3031.1	4032.1	6524.1	10080.2	13168.9	13260.1	12398.1	11209.0	9438.6	7923.8
72.5°	1333.7	1364.6	1875.7	3580.0	6886.3	11335.3	11717.2	11064.4	9205.6	6971.9	5038.7
75°	610.7	624.7	817.1	1712.8	3598.3	7585.4	7853.6	8241.1	6406.1	4402.7	2626.8
77.5°	383.3	387.5	464.7	783.4	1794.2	3786.4	4068.6	4906.7	3751.3	2178.9	1097.9
80°	226.0	230.2	289.2	424.0	842.4	1732.5	2000.6	1940.2	1763.3	940.6	499.8
82.5°	113.7	117.9	167.1	241.5	459.1	689.3	811.5	815.7	657.0	509.6	282.2
85°	40.7	42.1	54.8	95.5	195.1	227.4	254.1	310.3	321.5	296.2	136.2
87.5°	0.0	0.0	1.4	2.8	5.6	22.5	23.9	44.9	94.1	105.3	54.8
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°	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8	1924.8
2.5°	1930.4	1909.3	1902.3	1895.3	1884.1	1879.9	1871.4	1863.0	1863.0	1854.6	1850.4
5°	1940.2	1912.2	1893.9	1885.5	1878.5	1882.7	1882.7	1885.5	1895.3	1889.7	1892.5
7.5°	1975.3	1943.0	1917.8	1910.8	1910.8	1927.6	1938.8	1952.9	1971.1	1973.9	1973.9
10°	2037.1	1999.2	1972.5	1968.3	1975.3	1999.2	2016.0	2032.9	2055.4	2056.8	2059.6
12.5°	2104.5	2066.6	2039.9	2045.5	2052.5	2083.4	2101.7	2115.7	2138.2	2138.2	2136.8
15°	2174.7	2132.6	2110.1	2121.3	2142.4	2177.5	2180.3	2181.7	2192.9	2190.1	2188.7
17.5°	2247.7	2202.8	2185.9	2202.8	2225.2	2242.1	2228.0	2208.4	2204.2	2198.6	2195.7
20°	2319.3	2273.0	2265.9	2278.6	2285.6	2271.6	2228.0	2191.5	2174.7	2166.3	2163.5
22.5°	2381.1	2341.8	2337.5	2337.5	2302.4	2253.3	2188.7	2139.6	2117.1	2105.9	2103.1
25°	2454.1	2417.6	2410.5	2372.6	2282.8	2192.9	2105.9	2061.0	2042.7	2037.1	2038.5
27.5°	2539.7	2514.4	2492.0	2383.9	2226.6	2086.2	1988.0	1968.3	1961.3	1968.3	1972.5
30°	2645.0	2619.7	2569.2	2369.8	2136.8	1947.3	1853.2	1851.8	1872.8	1891.1	1893.9
32.5°	2730.6	2719.4	2636.6	2324.9	2010.4	1794.2	1714.2	1719.8	1757.7	1783.0	1787.2
35°	2798.0	2816.3	2692.7	2250.5	1860.2	1649.6	1586.4	1589.3	1610.3	1645.4	1646.8
37.5°	2893.5	2955.3	2743.3	2136.8	1687.5	1524.7	1467.1	1446.0	1443.2	1453.1	1455.9
40°	3085.8	3178.5	2779.8	1971.1	1520.5	1412.4	1347.8	1307.1	1272.0	1245.3	1236.9
42.5°	3376.5	3483.2	2800.8	1770.4	1371.6	1301.4	1228.4	1176.5	1114.7	1058.6	1038.9
45°	3909.9	3945.0	2800.8	1557.0	1239.7	1197.6	1124.5	1062.8	984.2	918.2	904.1
47.5°	4763.5	4651.2	2803.7	1350.6	1123.1	1106.3	1043.1	972.9	885.9	831.1	822.7
50°	6049.5	5655.0	2861.2	1179.3	1026.3	1029.1	982.8	905.5	826.9	786.2	779.2
52.5°	7506.8	6891.9	3015.6	1052.9	944.8	965.9	940.6	866.2	796.0	760.9	753.9
55°	8877.1	8029.1	3147.6	963.1	876.1	912.6	911.2	842.4	779.2	744.1	739.9
57.5°	10042.3	8808.3	3128.0	890.1	817.1	863.4	884.5	826.9	768.0	738.5	734.3
60°	10766.7	9221.0	2848.6	822.7	772.2	828.3	869.0	822.7	773.6	766.5	768.0
62.5°	11081.2	9145.2	2312.3	772.2	742.7	811.5	885.9	852.2	825.5	842.4	852.2
65°	10592.7	8493.8	1701.6	734.3	714.6	815.7	925.2	898.5	825.5	836.7	841.0
67.5°	9236.5	7230.2	1229.8	696.3	679.5	828.3	981.3	891.5	777.8	777.8	769.4
70°	6656.0	5200.2	892.9	658.4	644.4	810.1	984.2	843.8	723.0	718.8	697.8
72.5°	4005.4	3067.6	696.3	616.3	591.1	718.8	922.4	787.6	669.7	634.6	609.3
75°	2080.6	1537.3	584.0	570.0	506.8	609.3	843.8	700.6	572.8	541.9	527.9
77.5°	891.5	718.8	501.2	508.2	421.2	512.4	680.9	606.5	508.2	468.9	456.3
80°	439.4	408.5	395.9	407.1	336.9	395.9	586.8	530.7	431.0	386.1	367.8
82.5°	251.3	238.7	285.0	289.2	240.1	331.3	495.6	449.3	356.6	307.5	278.0
85°	116.5	124.9	172.7	174.1	148.8	227.4	324.3	252.7	189.5	157.2	150.2
87.5°	46.3	54.8	75.8	74.4	43.5	42.1	28.1	15.4	12.6	11.2	9.8
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)