

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: P631324

Luminaire Tested: GWS-SA1F-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-740-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

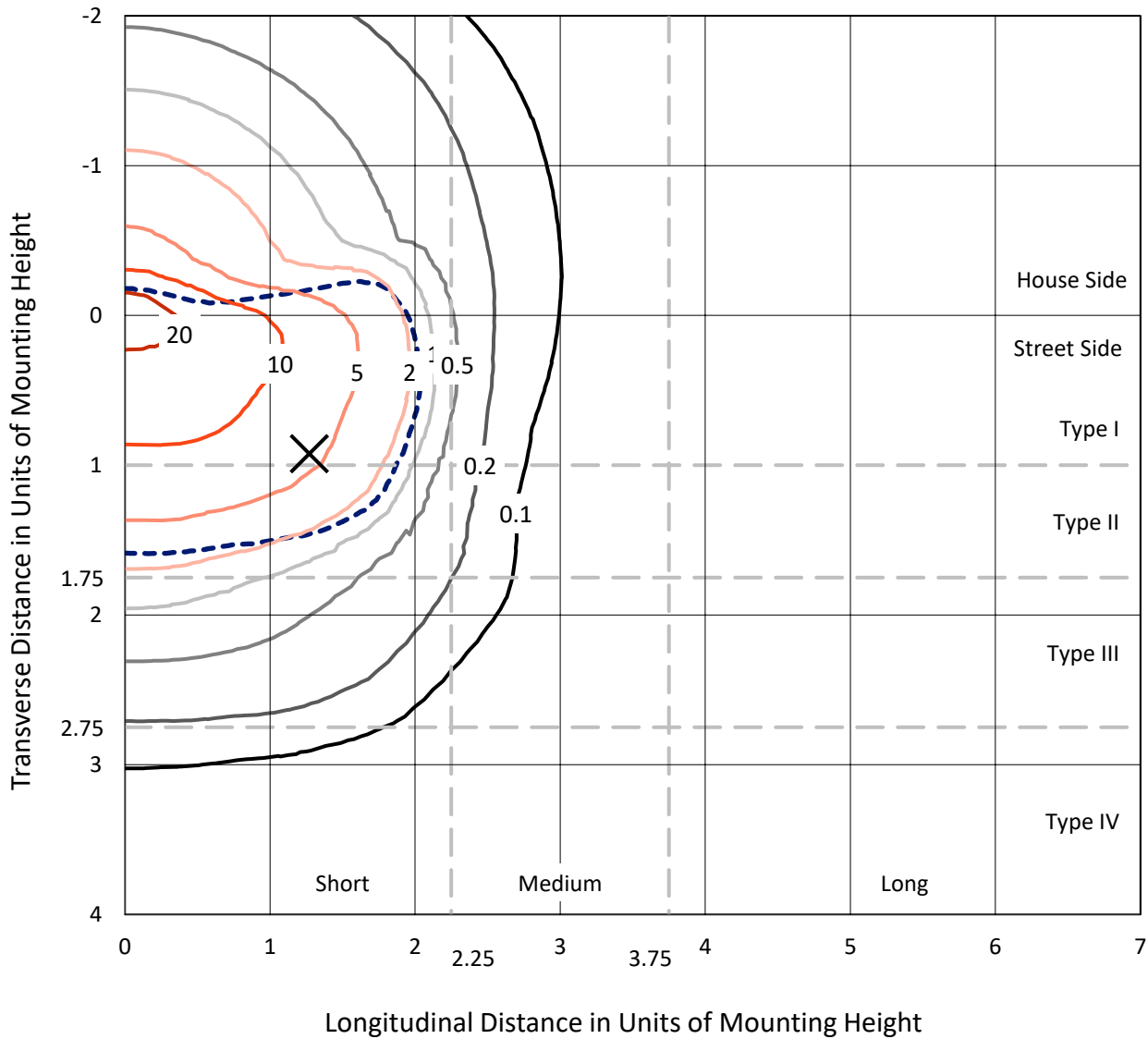
Lumens per Lamp: N/A  
Luminaire Lumens: 7055.4 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

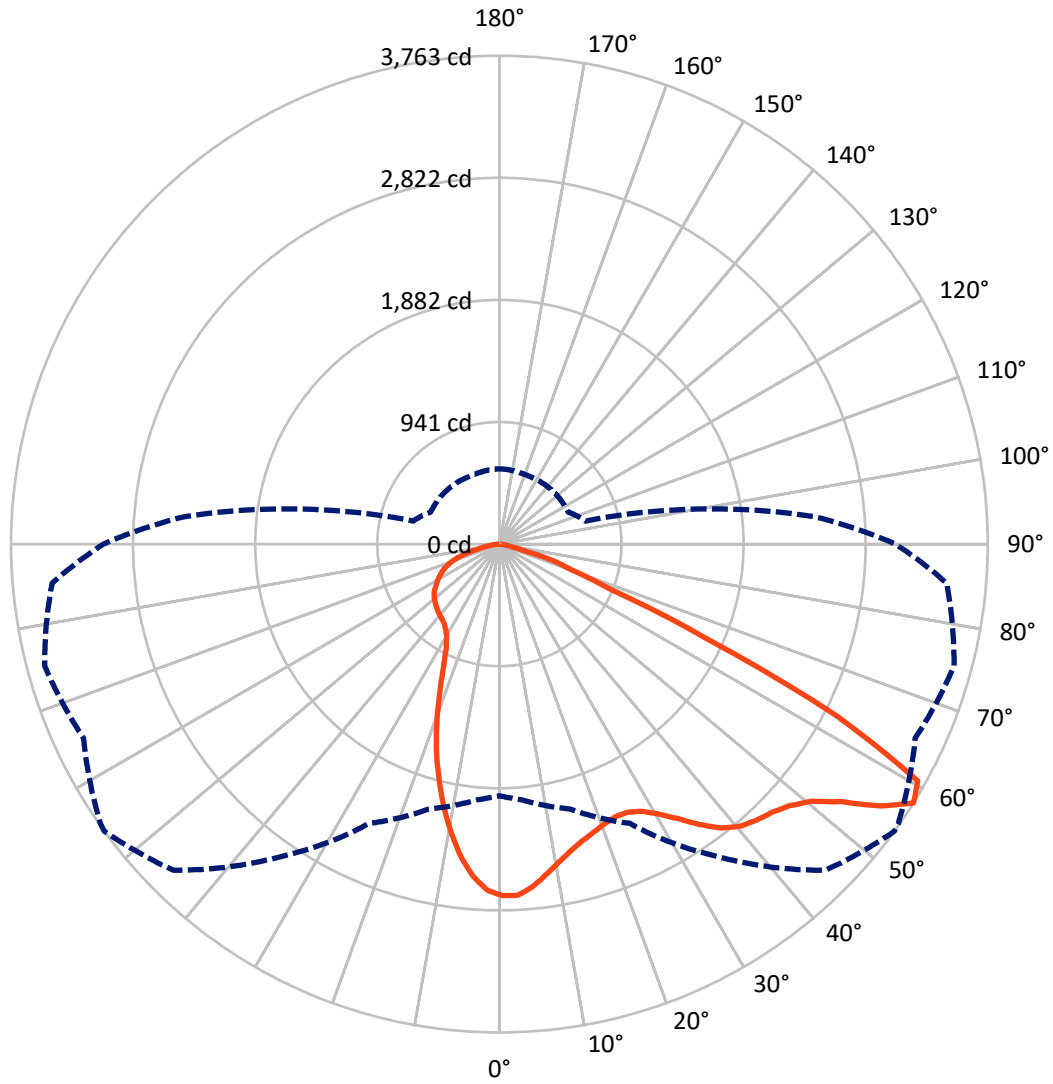
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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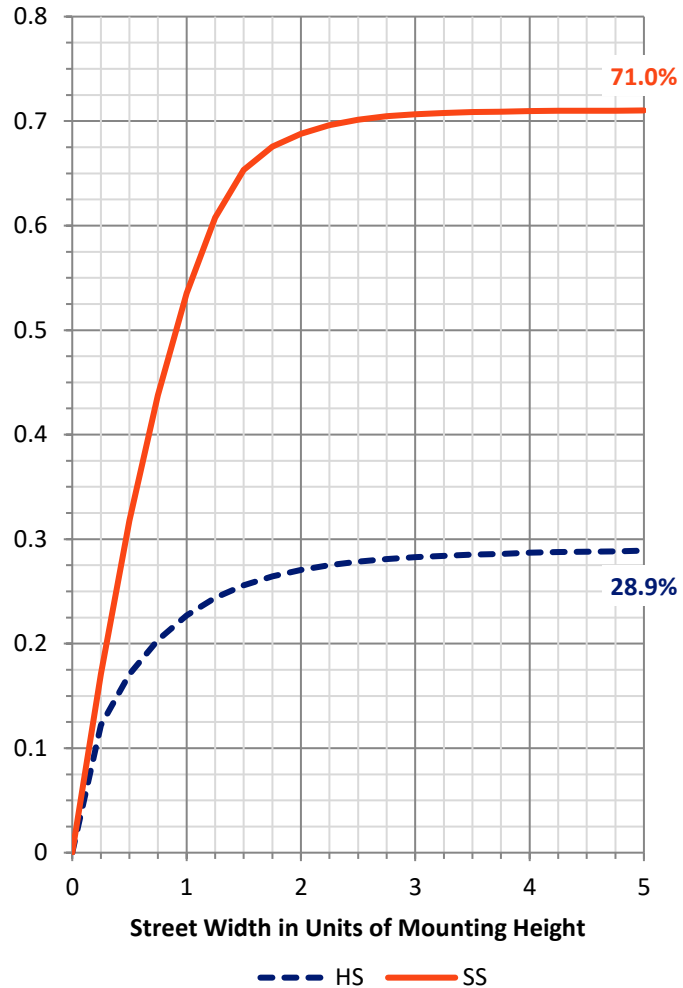
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2051.1	0.0	2051.1
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	5004.3	0.0	5004.3
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	7055.4	0.0	7055.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	3.4
10°-20°	568.1	8.1
20°-30°	786.2	11.1
30°-40°	1092.4	15.5
40°-50°	1442.8	20.4
50°-60°	1714.5	24.3
60°-70°	949.9	13.5
70°-80°	236.5	3.4
80°-90°	26.9	0.4
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°	7055.4	100.0
0°-180°	7055.4	100.0

**Coefficient of Utilization**



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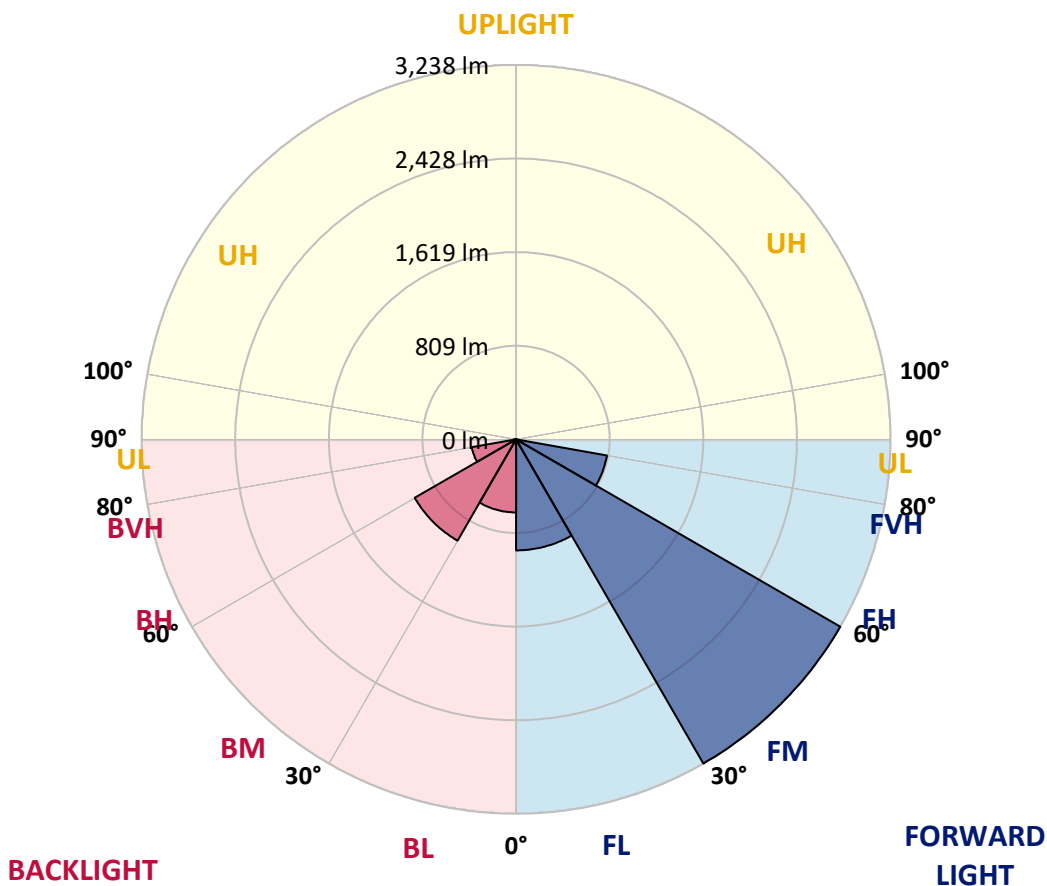
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.4	13.6			
FM (30°-60°)	3237.8	45.9			
FH (60°-80°)	797.7	11.3			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	632.1	9.0	B2/1000		
BM (30°-60°)	1011.8	14.3	B2/2500		
BH (60°-80°)	388.7	5.5	B1/500		G1/500
BVH (80°-90°)	18.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7
2.5°	2658.0	2663.4	2667.1	2679.7	2690.6	2700.3	2710.5	2710.5	2709.9	2708.1	2704.5
5°	2552.9	2558.9	2567.4	2584.9	2608.5	2625.4	2653.2	2655.6	2667.7	2672.5	2670.1
7.5°	2430.9	2432.7	2443.6	2466.5	2504.0	2534.2	2574.0	2578.9	2607.9	2624.8	2621.8
10°	2297.4	2291.4	2310.7	2344.5	2393.5	2444.2	2495.5	2499.8	2546.3	2578.3	2575.9
12.5°	2175.4	2176.0	2195.4	2236.4	2297.4	2360.2	2429.1	2438.8	2496.1	2537.2	2533.0
15°	2073.4	2075.8	2099.3	2145.8	2215.3	2290.2	2376.0	2385.0	2457.5	2511.8	2499.8
17.5°	1991.8	1994.3	2014.8	2067.9	2142.2	2232.8	2337.3	2346.4	2436.3	2501.0	2476.2
20°	1935.7	1934.5	1954.4	2005.1	2081.8	2180.3	2303.5	2316.8	2429.7	2505.2	2460.5
22.5°	1912.7	1912.1	1926.6	1968.3	2040.2	2139.8	2282.9	2301.1	2436.9	2523.9	2450.8
25°	1924.2	1921.8	1934.5	1965.3	2022.6	2124.1	2289.0	2308.3	2467.8	2562.6	2452.7
27.5°	1959.8	1956.8	1967.7	1995.5	2038.9	2140.4	2331.3	2353.6	2533.0	2633.2	2476.8
30°	2014.2	2012.4	2023.2	2049.8	2087.9	2194.8	2412.2	2437.6	2633.8	2743.2	2529.4
32.5°	2077.6	2074.6	2093.9	2124.7	2168.8	2293.8	2520.9	2554.1	2753.4	2884.5	2617.5
35°	2148.9	2146.4	2173.0	2217.7	2281.1	2431.5	2652.6	2688.8	2875.4	3044.5	2734.7
37.5°	2218.3	2218.3	2269.7	2336.1	2415.8	2581.3	2776.4	2799.3	2960.0	3186.5	2860.3
40°	2279.9	2283.5	2360.9	2460.5	2562.0	2716.6	2857.9	2877.2	2997.4	3284.3	2969.6
42.5°	2348.2	2351.2	2441.2	2571.6	2692.4	2825.9	2907.4	2917.1	3004.7	3333.2	3046.9
45°	2402.5	2406.8	2518.5	2658.0	2806.0	2908.0	2946.7	2955.1	3014.9	3359.8	3103.1
47.5°	2430.9	2436.9	2565.0	2727.5	2882.7	2981.7	3011.3	3014.9	3057.2	3406.3	3170.8
50°	2426.1	2438.2	2582.5	2761.9	2939.4	3056.0	3115.2	3121.2	3143.6	3474.5	3249.9
52.5°	2469.0	2474.4	2619.9	2802.9	3020.4	3193.1	3295.8	3304.2	3294.0	3525.9	3297.0
55°	2397.7	2423.7	2573.4	2796.9	3143.6	3405.1	3563.3	3559.1	3430.5	3583.3	3375.5
57.5°	1939.3	1977.3	2114.4	2374.1	2940.6	3553.7	3763.2	3753.0	3536.1	3627.3	3460.6
60°	1342.6	1348.6	1472.4	1656.6	2269.7	3139.3	3704.6	3727.0	3555.5	3571.8	3303.0
62.5°	1073.8	1072.0	1083.5	1088.3	1443.4	2206.8	2924.3	3005.9	2953.9	2783.0	2340.9
65°	916.8	923.4	957.3	939.8	942.2	1242.9	1747.2	1758.7	1722.5	1660.9	1238.1
67.5°	717.5	729.0	788.8	857.0	835.3	800.2	906.5	901.1	710.2	549.6	454.2
70°	449.3	456.6	520.6	672.8	727.2	657.1	582.8	580.4	380.5	312.8	343.0
72.5°	262.1	263.3	281.4	375.1	482.6	449.3	428.8	413.1	244.6	249.4	273.6
75°	144.3	144.3	143.7	161.9	190.2	168.5	163.1	158.8	163.7	185.4	203.5
77.5°	30.2	30.8	32.6	42.9	55.6	67.6	85.2	85.8	106.9	123.8	138.3
80°	13.9	14.5	18.1	23.0	29.6	39.3	51.9	52.5	64.6	77.9	87.6
82.5°	7.2	7.9	9.7	12.1	15.7	20.5	29.0	29.0	38.7	45.9	51.9
85°	2.4	2.4	3.6	4.8	6.6	8.5	11.5	11.5	16.9	22.3	26.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	2.4	2.4	3.0	3.6	6.0
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°	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7	2708.7
2.5°	2696.6	2677.9	2678.5	2682.2	2670.7	2653.2	2641.7	2627.2	2618.1	2616.3	2623.0
5°	2658.0	2636.3	2621.2	2605.5	2572.8	2534.2	2504.0	2479.2	2462.9	2456.9	2449.6
7.5°	2604.8	2576.5	2538.4	2494.3	2435.1	2366.3	2318.0	2272.7	2241.3	2232.2	2228.0
10°	2551.7	2510.6	2443.0	2360.9	2262.4	2169.4	2081.8	2014.8	1961.6	1931.4	1941.1
12.5°	2496.7	2446.0	2340.3	2214.1	2077.0	1936.9	1822.1	1711.0	1625.2	1582.4	1569.7
15°	2448.4	2379.6	2232.2	2061.3	1878.9	1702.5	1536.5	1369.8	1261.1	1201.9	1185.6
17.5°	2407.4	2318.0	2118.1	1905.5	1687.4	1436.2	1232.1	1077.5	1003.2	970.6	968.1
20°	2366.9	2257.6	2005.1	1737.6	1466.4	1185.0	1002.6	930.1	903.5	892.0	891.4
22.5°	2330.7	2194.2	1886.1	1569.7	1246.6	995.9	895.7	864.3	857.0	857.0	855.8
25°	2299.9	2130.7	1764.1	1391.5	1047.9	886.6	840.1	826.8	829.8	835.3	835.9
27.5°	2287.2	2081.2	1646.4	1208.5	910.8	823.2	802.0	800.2	808.7	817.1	818.4
30°	2300.5	2047.4	1525.6	1033.4	828.6	784.5	774.9	778.5	788.8	797.2	797.2
32.5°	2341.5	2030.5	1402.4	905.3	780.9	757.4	754.3	758.0	765.8	770.6	771.2
35°	2411.0	2037.1	1274.9	819.0	750.1	737.4	736.8	739.2	742.3	745.3	745.9
37.5°	2498.6	2066.7	1138.5	768.8	730.2	722.9	721.7	721.1	721.7	721.7	722.3
40°	2584.3	2111.4	1016.5	739.2	716.3	710.2	707.2	703.0	702.4	701.2	700.6
42.5°	2647.7	2145.8	919.2	718.1	703.6	696.4	692.7	686.1	685.5	684.9	684.3
45°	2695.4	2174.8	838.3	697.6	690.3	683.7	675.8	669.8	671.0	672.2	672.2
47.5°	2749.2	2200.2	779.1	678.2	674.0	667.4	657.7	653.5	657.7	661.9	661.9
50°	2814.4	2235.8	730.8	658.9	657.1	649.2	640.8	639.0	643.8	649.9	649.9
52.5°	2862.1	2266.6	696.4	639.6	639.6	629.3	622.1	621.5	626.9	632.9	633.5
55°	2951.5	2338.5	684.3	617.2	614.8	607.0	601.5	597.3	604.0	609.4	609.4
57.5°	3052.4	2433.9	687.3	585.2	582.2	579.8	575.6	570.7	572.5	578.6	579.2
60°	2838.6	2249.1	654.1	553.2	551.4	550.2	544.8	536.3	538.7	543.6	544.2
62.5°	1982.8	1494.8	529.1	513.4	519.4	518.8	511.5	501.9	502.5	509.1	509.1
65°	1029.1	808.7	464.4	477.1	486.2	482.6	470.5	462.0	460.8	469.3	467.5
67.5°	443.9	441.5	422.8	439.1	448.7	440.9	428.2	414.3	415.5	418.5	416.1
70°	357.5	368.4	376.3	393.8	401.6	387.1	373.2	365.4	358.7	358.1	353.9
72.5°	285.7	300.8	318.3	336.4	338.8	324.3	306.8	299.6	289.3	288.7	284.5
75°	215.0	227.7	241.6	256.1	256.1	242.2	230.7	227.1	215.0	211.4	207.8
77.5°	146.8	154.6	165.5	169.1	172.7	167.3	155.8	149.8	135.9	132.3	127.4
80°	92.4	97.8	104.5	106.9	110.5	103.9	94.8	88.2	78.5	75.5	73.1
82.5°	55.6	59.2	63.4	64.6	67.6	62.8	54.4	49.5	44.1	41.7	39.9
85°	28.4	30.2	32.6	33.2	32.6	27.8	24.8	22.3	18.7	18.1	16.9
87.5°	7.2	8.5	9.1	8.5	7.9	6.0	4.2	3.0	1.2	1.2	0.6
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)