

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: P632302

Luminaire Tested: GWS-SA2C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

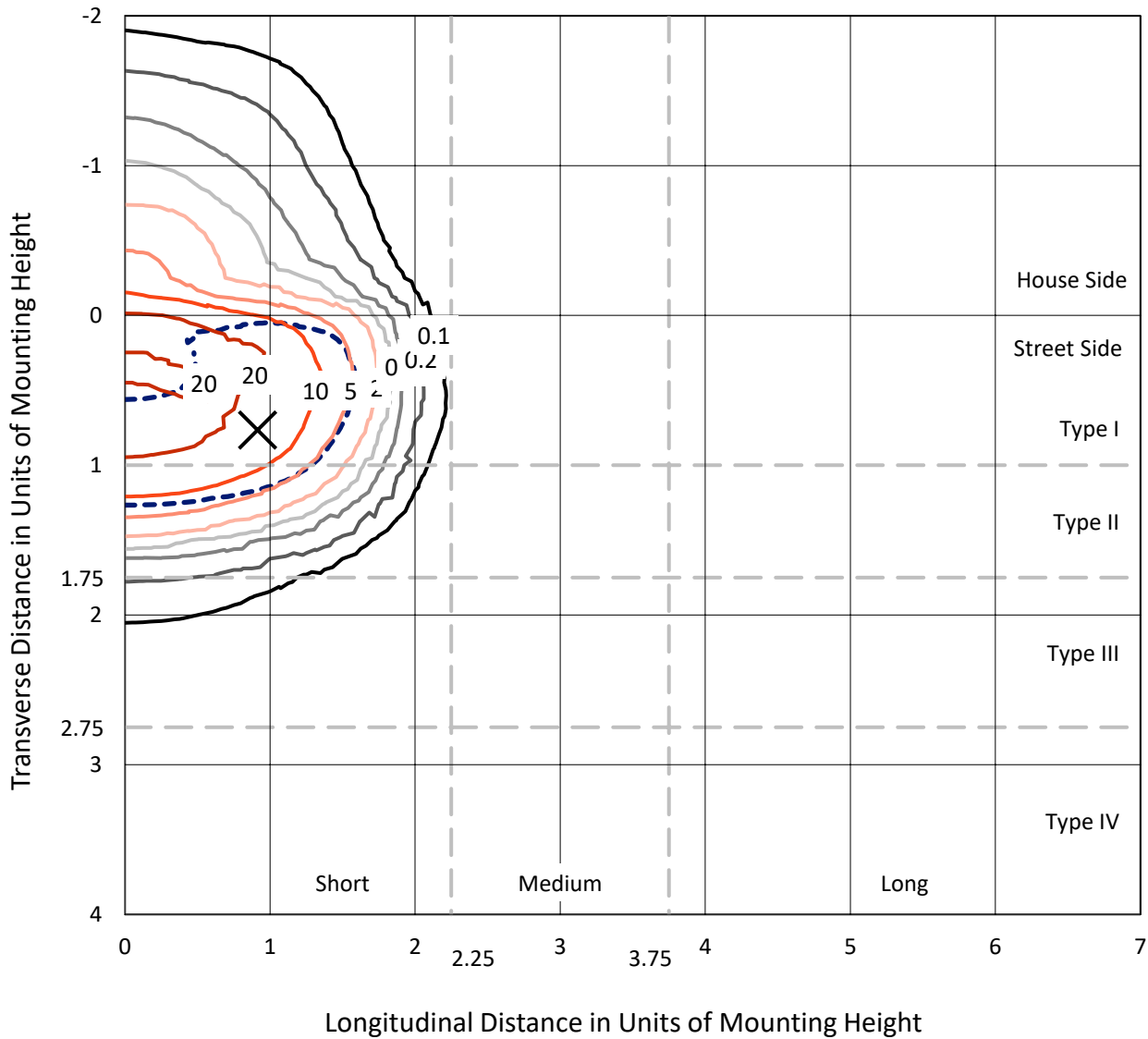
Lumens per Lamp: N/A  
Luminaire Lumens: 6970.6 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

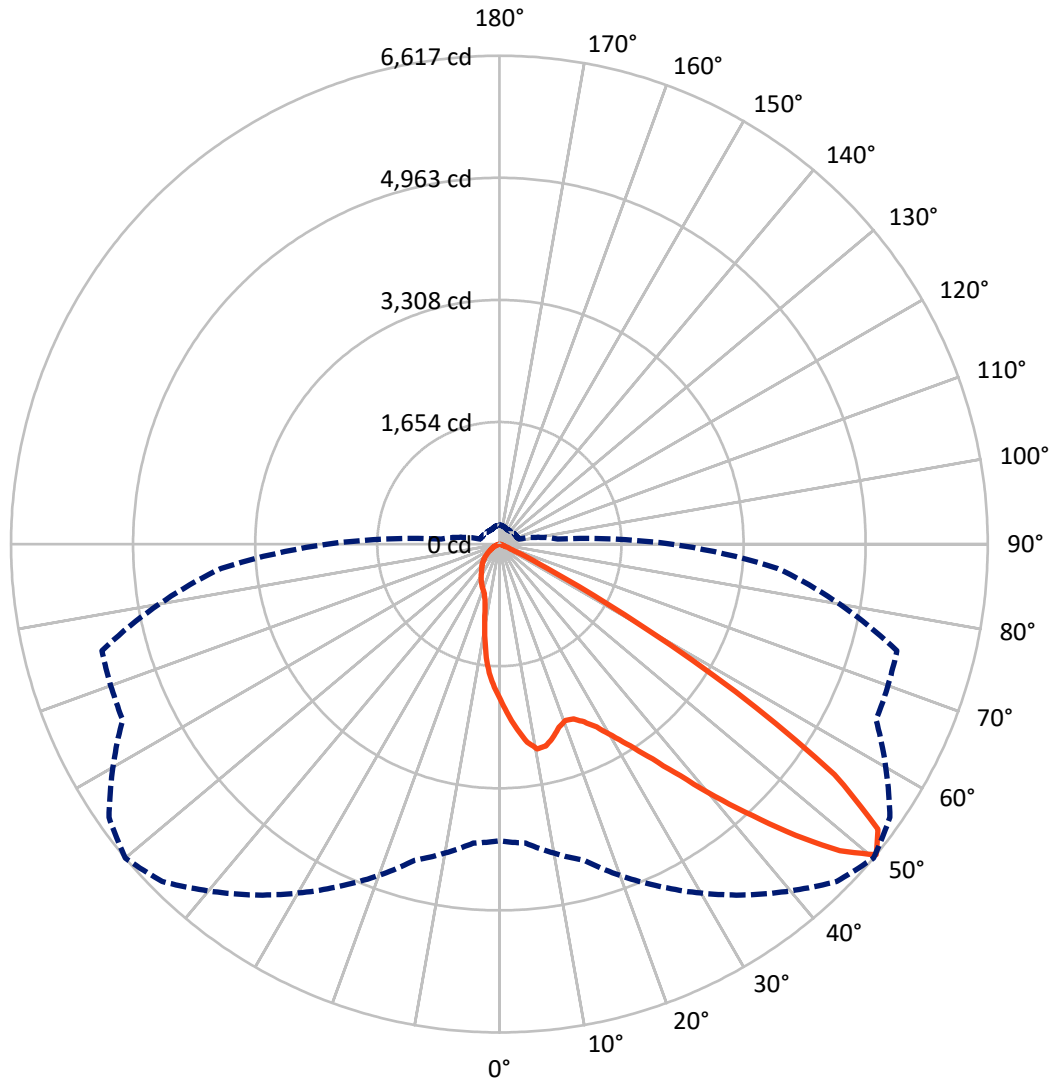
✕ Max cd  
 - - - 1/2 Max cd



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 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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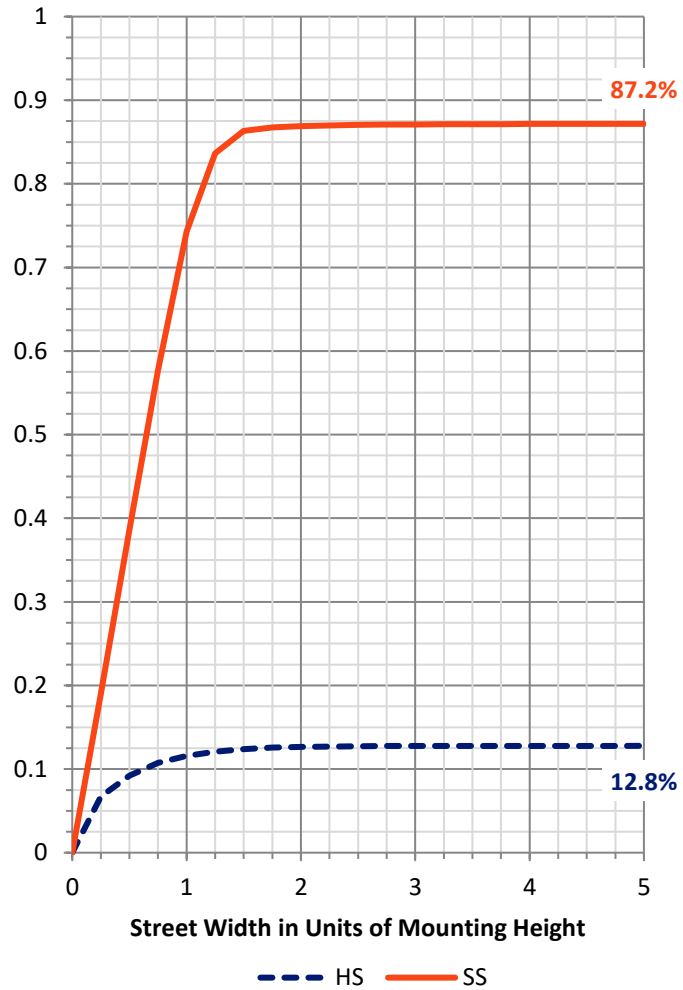
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	895.6	0.0	895.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6075.0	0.0	6075.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6970.6	0.0	6970.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	2.8
10°-20°	505.4	7.3
20°-30°	834.2	12.0
30°-40°	1376.5	19.7
40°-50°	2178.0	31.2
50°-60°	1649.0	23.7
60°-70°	206.4	3.0
70°-80°	23.4	0.3
80°-90°	1.8	0.0
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°	6970.6	100.0
0°-180°	6970.6	100.0

**Coefficient of Utilization**



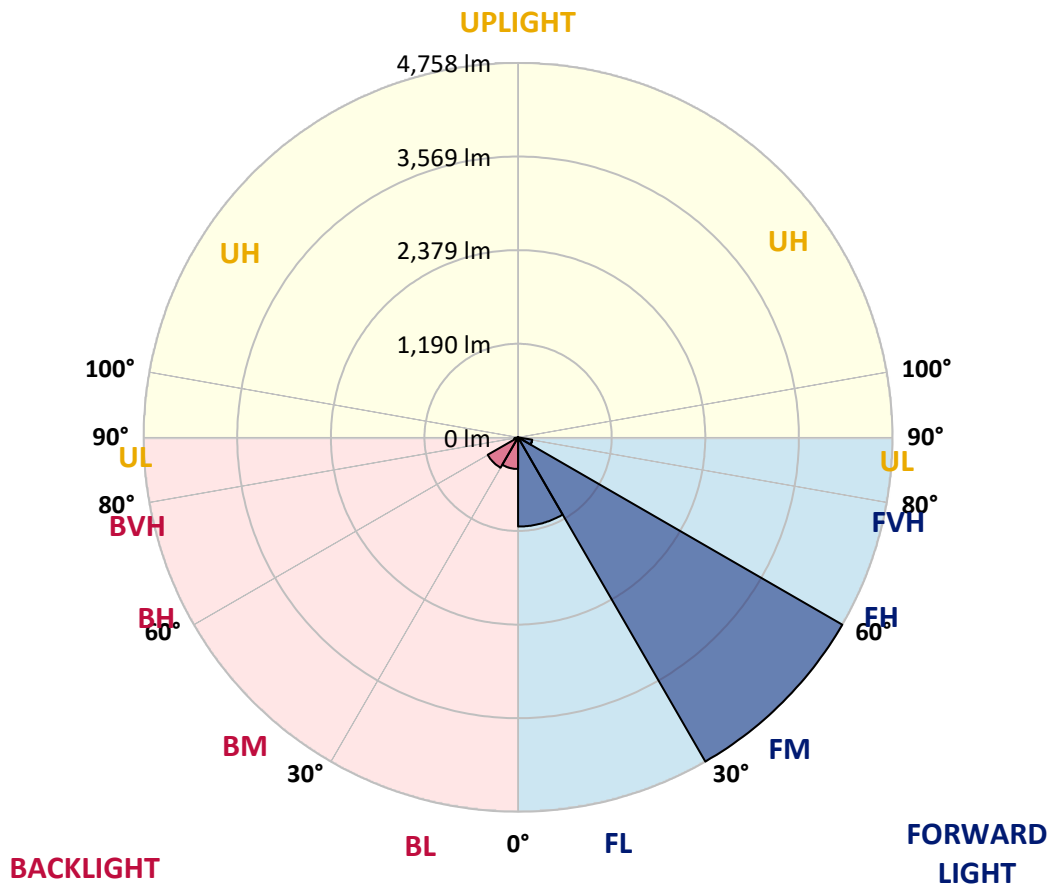
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.5	16.3			
FM (30°-60°)	4758.2	68.3			
FH (60°-80°)	182.5	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	402.0	5.8	B1/500		
BM (30°-60°)	445.4	6.4	B1/1000		
BH (60°-80°)	47.3	0.7	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2406.4	2425.6	2420.3	2395.1	2367.9	2348.7	2318.8	2309.5	2241.9	2194.7	2145.0
5°	2697.0	2703.0	2696.3	2665.8	2618.0	2572.3	2523.2	2494.6	2381.2	2279.0	2174.8
7.5°	2766.7	2759.4	2772.0	2787.2	2780.6	2760.7	2708.9	2677.8	2542.4	2375.9	2218.0
10°	2549.0	2532.5	2579.6	2658.5	2741.4	2835.0	2821.7	2824.4	2699.6	2498.0	2274.4
12.5°	2260.4	2253.8	2289.0	2380.5	2543.1	2755.4	2806.5	2892.1	2843.6	2630.0	2338.7
15°	2133.7	2137.0	2158.3	2216.0	2332.7	2596.8	2719.6	2874.1	2972.3	2758.0	2409.7
17.5°	2152.9	2164.9	2164.2	2183.5	2254.5	2466.1	2609.4	2817.7	3071.9	2905.3	2491.3
20°	2283.7	2295.6	2277.7	2263.1	2287.0	2432.9	2551.7	2760.7	3138.9	3053.9	2577.6
22.5°	2479.4	2493.3	2450.8	2409.0	2393.8	2487.3	2573.6	2737.5	3189.9	3189.9	2654.5
25°	2716.2	2735.5	2669.8	2595.5	2553.0	2602.1	2667.1	2789.9	3242.4	3312.0	2706.9
27.5°	2981.0	2981.6	2925.2	2841.6	2762.0	2768.0	2807.1	2908.0	3300.1	3443.4	2748.1
30°	3278.9	3280.8	3205.9	3105.7	3005.5	2978.3	3011.5	3087.8	3420.2	3608.6	2805.1
32.5°	3663.7	3673.0	3565.5	3418.2	3288.1	3237.1	3256.3	3336.6	3611.2	3815.6	2890.7
35°	4183.8	4193.8	4035.2	3840.8	3633.8	3556.8	3576.1	3657.0	3887.9	4109.5	3027.4
37.5°	4697.3	4710.6	4550.1	4368.9	4085.0	3957.6	3977.5	4054.4	4303.2	4515.6	3246.3
40°	5052.3	5070.2	5020.5	4898.4	4635.0	4467.8	4491.7	4519.5	4760.4	5001.2	3530.3
42.5°	5239.4	5264.6	5285.8	5348.2	5209.5	5069.5	5029.1	5031.1	5225.5	5496.2	3825.5
45°	5250.7	5275.2	5384.0	5624.9	5730.4	5701.2	5627.5	5577.8	5580.4	5825.9	4010.0
47.5°	4885.8	4931.5	5135.2	5607.0	6003.7	6245.9	6208.7	6090.6	5729.7	5847.8	3990.1
50°	4021.3	4066.4	4436.6	5115.3	5804.7	6463.5	6616.8	6458.2	5632.2	5575.1	3785.1
52.5°	2920.6	2925.2	3165.4	3958.2	4997.9	6062.1	6423.0	6407.8	5483.6	5244.7	3505.1
55°	1387.3	1370.7	1640.8	2233.9	3456.7	4903.0	5511.4	5683.9	5272.6	5005.9	3288.1
57.5°	404.1	412.0	532.1	871.8	1729.0	3133.6	3774.5	4095.6	4327.8	4115.5	2550.4
60°	181.1	181.8	202.4	265.4	575.9	1457.6	1951.3	2348.7	2587.5	2397.8	1265.2
62.5°	131.4	132.0	140.0	149.9	195.7	493.6	731.8	975.3	993.2	650.2	320.5
65°	109.5	109.5	110.8	110.8	117.4	176.5	222.3	286.6	241.5	179.1	125.4
67.5°	88.2	88.9	90.2	90.2	88.2	88.2	95.5	104.8	112.1	138.7	115.4
70°	69.0	68.3	68.3	69.0	67.0	57.1	61.7	70.3	77.0	108.1	100.2
72.5°	53.7	54.4	53.7	51.1	46.4	33.8	36.5	45.8	49.1	67.7	67.7
75°	40.5	41.1	38.5	29.2	19.2	10.6	13.9	22.6	28.5	33.2	24.5
77.5°	5.3	5.3	4.0	4.0	3.3	4.0	4.0	5.3	8.0	8.0	6.0
80°	0.7	0.7	0.7	1.3	2.0	2.7	2.7	2.7	2.7	3.3	3.3
82.5°	0.7	0.7	0.7	0.7	2.0	2.0	2.7	2.7	2.7	2.7	2.7
85°	0.0	0.0	0.0	0.7	1.3	2.0	2.0	2.7	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.7	1.3	2.0	2.0	2.0	2.7	2.7	2.7
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°	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2115.1	2076.7	2030.2	1998.4	1953.2	1923.4	1880.9	1852.4	1827.9	1808.6	1819.2
5°	2115.8	2054.8	1959.9	1878.9	1790.7	1709.8	1622.8	1554.5	1492.8	1464.9	1480.2
7.5°	2129.1	2041.5	1896.2	1752.2	1583.0	1415.8	1259.3	1131.9	1068.8	1039.0	1048.3
10°	2154.9	2035.5	1825.2	1586.3	1311.7	1083.4	931.5	845.3	810.1	791.5	794.8
12.5°	2178.8	2031.5	1733.0	1368.1	1035.0	840.6	761.7	749.7	757.0	757.7	757.0
15°	2211.3	2024.2	1618.9	1143.8	828.0	726.5	728.5	745.7	763.0	768.3	767.0
17.5°	2245.8	2013.0	1471.6	928.9	702.6	693.3	716.5	739.8	757.0	759.7	760.3
20°	2281.7	1989.7	1303.7	758.3	644.2	668.1	694.0	711.2	723.8	727.8	729.1
22.5°	2298.2	1940.6	1110.0	636.3	605.1	636.9	656.2	678.7	682.7	668.1	670.8
25°	2289.6	1857.7	920.9	554.0	565.9	597.8	626.3	615.0	598.4	587.8	591.1
27.5°	2262.4	1747.6	735.8	493.6	524.1	564.6	567.9	555.3	552.7	544.0	546.7
30°	2233.2	1620.8	591.8	445.2	481.7	524.1	514.2	518.8	519.5	509.5	512.9
32.5°	2215.3	1488.2	471.1	412.7	454.5	462.4	482.3	491.6	492.3	469.1	473.1
35°	2221.3	1357.5	398.7	386.1	429.3	427.3	455.1	460.4	422.0	390.1	393.4
37.5°	2269.7	1236.7	357.6	365.6	385.5	400.7	422.0	386.8	378.2	363.6	365.6
40°	2360.0	1133.9	333.1	353.0	355.6	380.2	347.7	352.3	353.0	343.7	345.7
42.5°	2465.4	1048.3	318.5	345.7	339.0	343.0	310.5	319.8	329.7	325.8	326.4
45°	2518.5	964.7	305.9	320.5	322.4	284.6	277.3	287.3	299.9	301.9	302.5
47.5°	2471.4	885.1	292.6	284.0	297.2	259.4	250.8	254.1	268.7	276.7	278.0
50°	2327.4	793.5	272.7	251.5	244.2	232.9	224.9	225.6	242.2	256.1	258.8
52.5°	2125.1	698.0	240.2	213.0	196.4	205.0	207.0	203.0	218.3	232.2	234.9
55°	1928.7	578.5	190.4	173.2	157.9	176.5	181.8	176.5	181.1	190.4	191.1
57.5°	1358.1	327.1	146.0	143.3	130.7	151.3	159.9	151.9	144.0	149.9	151.3
60°	629.6	171.2	112.1	112.1	108.8	130.0	144.6	133.4	118.1	120.8	122.7
62.5°	197.0	108.1	82.3	77.6	88.9	110.8	122.7	111.5	93.5	93.5	96.2
65°	111.5	92.9	65.0	59.7	72.3	88.9	96.2	84.3	68.3	67.0	67.0
67.5°	103.5	88.2	57.7	48.4	51.1	57.1	59.7	51.8	47.1	46.4	47.1
70°	85.6	73.6	46.4	33.2	31.2	30.5	31.8	29.9	28.5	29.2	31.2
72.5°	53.1	44.5	29.2	19.9	17.3	16.6	16.6	16.6	15.9	15.9	15.9
75°	19.2	16.6	13.3	10.0	8.6	8.0	8.0	8.6	8.0	7.3	6.6
77.5°	6.0	5.3	5.3	5.3	4.6	4.0	3.3	3.3	2.7	2.0	2.0
80°	3.3	3.3	3.3	3.3	2.7	2.7	2.0	1.3	0.7	0.7	0.0
82.5°	3.3	3.3	3.3	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.0	1.3	0.7	0.0	0.0
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)