

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: P636048

Luminaire Tested: GWS-SA3F-722-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636048  
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-SA3F-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**

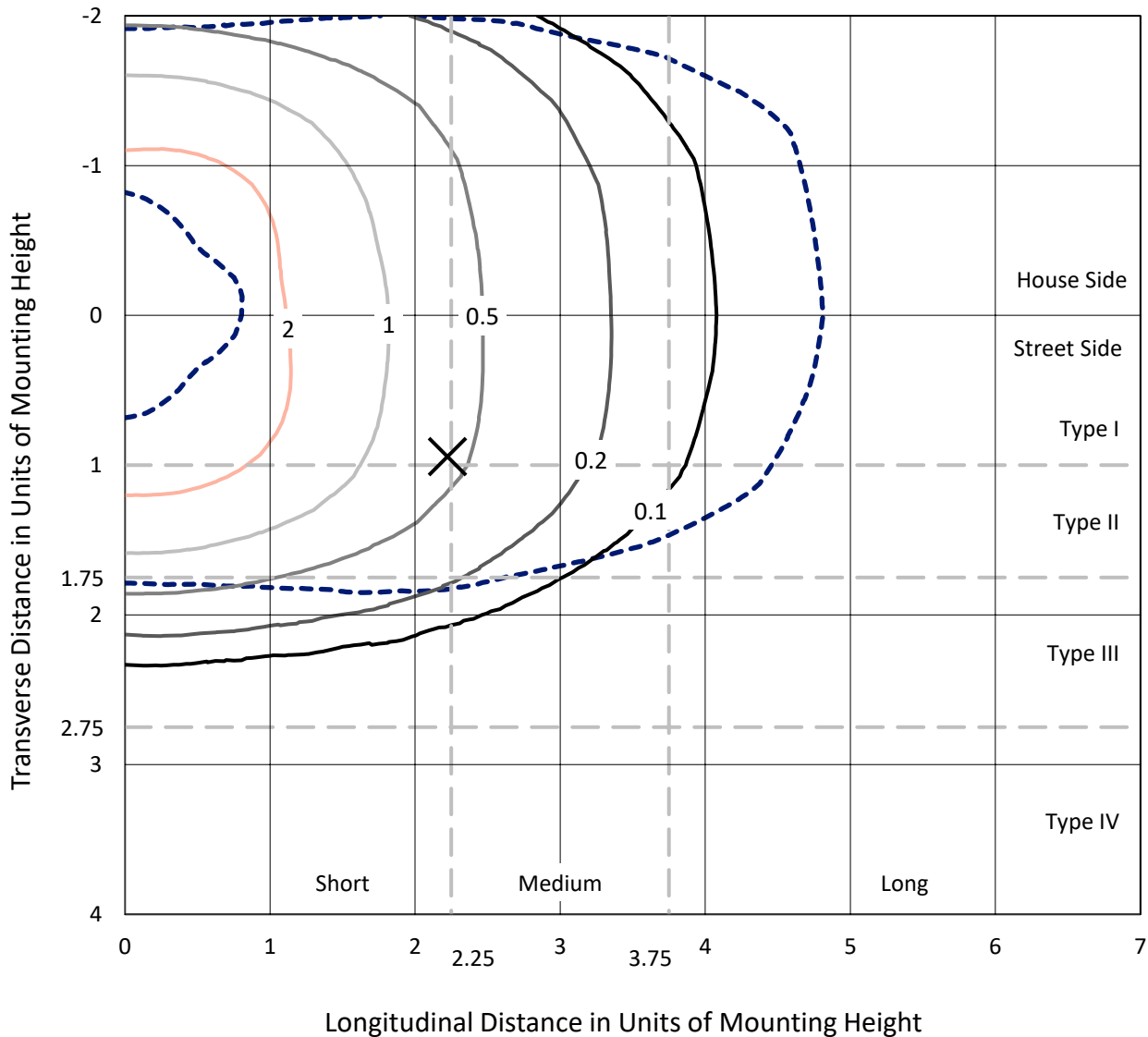
Lumens per Lamp: N/A  
Luminaire Lumens: 18540.2 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

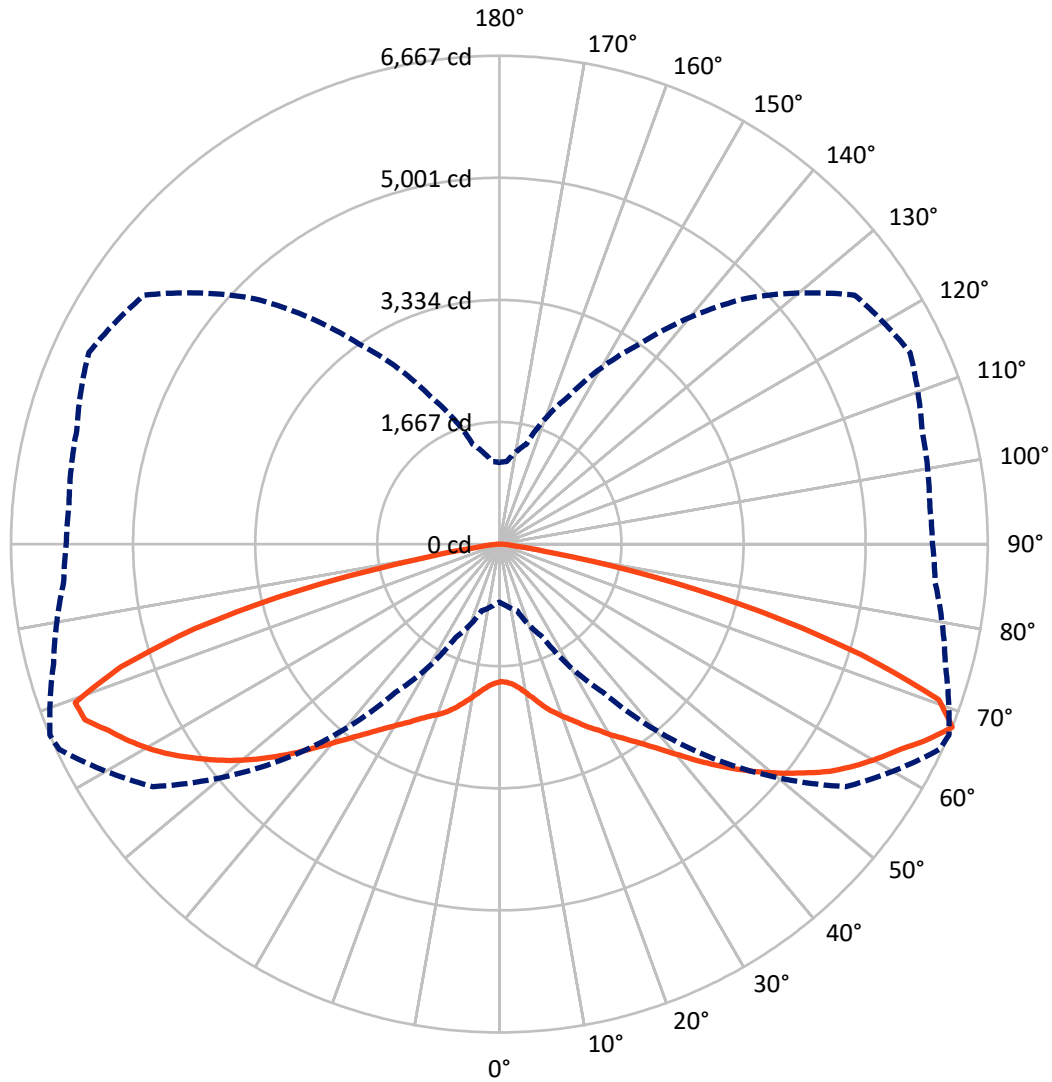
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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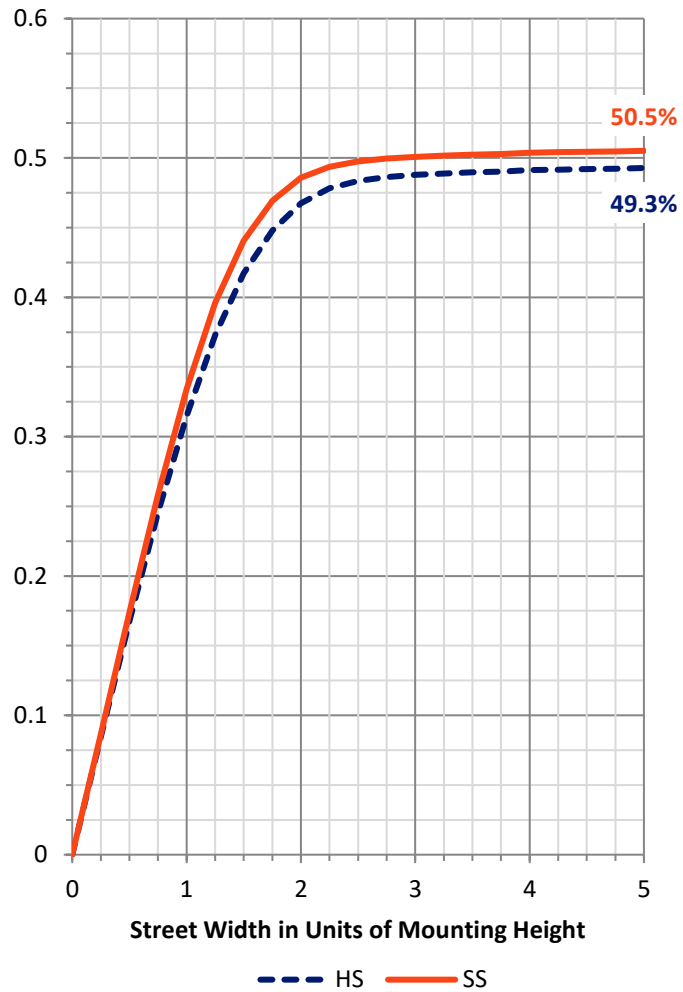
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9167.8	0.0	9167.8
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	9372.4	0.0	9372.4
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	18540.2	0.0	18540.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	1.0
10°-20°	622.3	3.4
20°-30°	1220.9	6.6
30°-40°	2079.9	11.2
40°-50°	3340.0	18.0
50°-60°	4538.3	24.5
60°-70°	4341.2	23.4
70°-80°	2064.0	11.1
80°-90°	149.6	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°	18540.2	100.0
0°-180°	18540.2	100.0

**Coefficient of Utilization**



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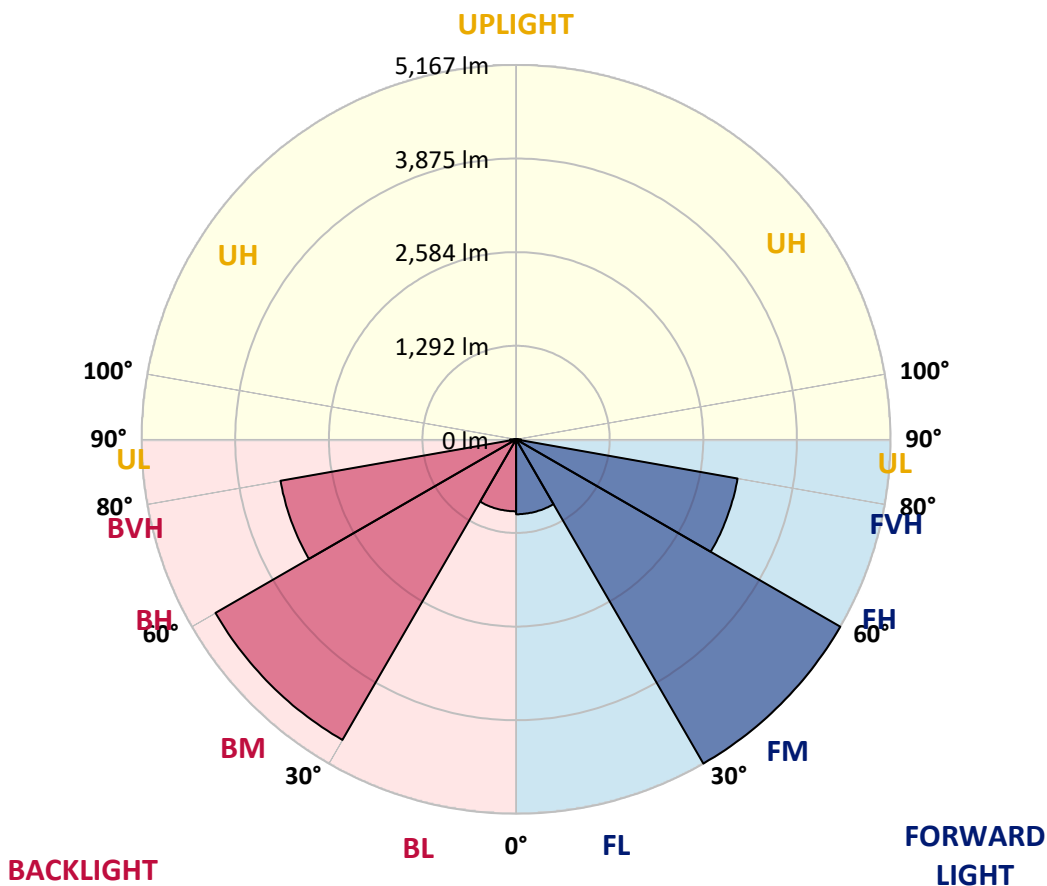
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.8	5.6			
FM (30°-60°)	5167.3	27.9			
FH (60°-80°)	3104.1	16.7			G2/5000
FVH (80°-90°)	67.2	0.4			G1/100
BL (0°-30°)	993.5	5.4	B2/1000		
BM (30°-60°)	4790.9	25.8	B3/5000		
BH (60°-80°)	3301.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	82.3	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°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1838.6	1841.1	1845.0	1852.8	1860.5	1872.1	1883.8	1882.5	1887.6	1891.5	1895.4
5°	1828.2	1830.8	1837.3	1847.6	1859.2	1878.6	1903.1	1913.5	1921.2	1935.4	1948.3
7.5°	1850.2	1855.3	1864.4	1878.6	1896.7	1921.2	1954.8	1972.8	1984.5	2010.3	2032.2
10°	1879.9	1886.3	1904.4	1931.5	1958.6	1996.1	2038.7	2065.8	2073.5	2107.1	2148.4
12.5°	1908.3	1916.0	1945.7	1994.8	2043.9	2094.2	2144.6	2178.1	2180.7	2225.9	2272.4
15°	1953.5	1959.9	2000.0	2063.2	2138.1	2207.8	2269.8	2293.0	2303.4	2335.6	2393.7
17.5°	2052.9	2060.6	2112.3	2180.7	2259.5	2333.1	2395.0	2414.4	2414.4	2441.5	2489.3
20°	2160.1	2167.8	2236.2	2324.0	2419.6	2494.5	2542.2	2524.2	2517.7	2525.4	2559.0
22.5°	2280.1	2294.3	2360.2	2462.2	2579.7	2671.3	2695.9	2641.6	2623.6	2605.5	2613.2
25°	2433.8	2450.6	2515.1	2623.6	2738.5	2835.3	2849.5	2765.6	2755.3	2692.0	2668.8
27.5°	2610.7	2623.6	2703.6	2810.8	2917.9	2999.3	3014.8	2911.5	2876.6	2788.8	2734.6
30°	2839.2	2850.8	2920.5	3026.4	3119.4	3176.2	3195.5	3053.5	3026.4	2892.1	2808.2
32.5°	3088.4	3093.5	3164.6	3266.6	3349.2	3403.4	3376.3	3211.0	3171.0	3019.9	2905.0
35°	3373.7	3373.7	3465.4	3548.0	3613.9	3629.4	3577.7	3389.2	3342.7	3178.8	3035.4
37.5°	3653.9	3661.6	3746.9	3845.0	3903.1	3900.5	3806.2	3599.7	3546.7	3368.6	3209.7
40°	3957.3	3974.1	4059.3	4169.0	4224.6	4216.8	4072.2	3842.4	3788.2	3577.7	3422.8
42.5°	4236.2	4263.3	4362.7	4475.0	4535.7	4530.6	4379.5	4121.3	4068.3	3830.8	3675.8
45°	4458.3	4486.7	4610.6	4766.8	4863.7	4854.6	4702.3	4410.5	4345.9	4096.7	3926.3
47.5°	4653.2	4682.9	4821.1	4986.3	5140.0	5155.5	5016.0	4702.3	4633.9	4382.1	4189.7
50°	4803.0	4817.2	4972.1	5152.9	5331.1	5417.6	5296.2	4995.4	4912.7	4663.6	4446.6
52.5°	4791.4	4810.7	5001.8	5247.1	5486.0	5628.0	5544.1	5271.7	5191.6	4920.5	4708.7
55°	4555.1	4574.5	4801.7	5159.3	5572.5	5781.7	5772.6	5535.1	5477.0	5182.6	4981.2
57.5°	4210.4	4253.0	4478.9	4865.0	5458.9	5904.3	5940.5	5775.2	5714.5	5439.5	5251.0
60°	3593.2	3650.0	3910.8	4411.8	5094.8	5863.0	6119.9	5977.9	5940.5	5678.4	5495.0
62.5°	2610.7	2652.0	2999.3	3656.5	4555.1	5568.6	6271.0	6187.1	6158.7	5892.7	5715.8
65°	1563.6	1657.8	1936.7	2586.1	3674.5	5013.4	6188.4	6460.8	6431.1	6113.5	5904.3
67.5°	791.5	834.1	943.8	1402.2	2471.2	4148.4	5773.9	6631.2	6667.4	6302.0	5971.5
70°	490.6	502.2	533.2	692.0	1234.3	2725.6	4721.7	6187.1	6364.0	6272.3	5797.2
72.5°	393.8	396.4	401.5	431.2	592.6	1274.3	2985.1	4845.6	5164.5	5857.8	5548.0
75°	326.7	327.9	329.2	338.3	369.3	520.3	1452.5	3329.8	3703.0	4978.6	5143.8
77.5°	262.1	255.6	260.8	264.7	272.4	290.5	501.0	1776.6	2154.9	3267.8	3978.0
80°	170.4	167.8	178.2	182.0	189.8	201.4	267.3	603.0	732.1	1189.1	1265.3
82.5°	91.7	86.5	108.5	104.6	108.5	117.5	157.5	220.8	247.9	358.9	303.4
85°	28.4	28.4	29.7	34.9	42.6	41.3	68.4	108.5	120.1	153.6	113.6
87.5°	5.2	5.2	5.2	5.2	5.2	6.5	14.2	21.9	29.7	52.9	40.0
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°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1903.1	1891.5	1898.0	1901.8	1900.5	1898.0	1885.0	1882.5	1876.0	1865.7	1863.1
5°	1959.9	1947.0	1948.3	1944.4	1931.5	1914.7	1886.3	1872.1	1860.5	1847.6	1846.3
7.5°	2049.0	2034.8	2030.9	2012.9	1976.7	1938.0	1892.8	1867.0	1847.6	1830.8	1828.2
10°	2162.6	2148.4	2135.5	2092.9	2033.5	1981.9	1922.5	1885.0	1856.6	1836.0	1832.1
12.5°	2289.2	2277.5	2245.3	2183.3	2112.3	2051.6	1990.9	1944.4	1903.1	1872.1	1868.3
15°	2429.9	2404.1	2355.0	2275.0	2207.8	2158.8	2085.2	2021.9	1956.1	1914.7	1905.7
17.5°	2528.0	2506.1	2448.0	2370.5	2317.6	2275.0	2188.5	2098.1	2009.0	1948.3	1935.4
20°	2597.7	2574.5	2508.7	2451.9	2435.1	2398.9	2298.2	2193.6	2090.3	2015.4	1998.7
22.5°	2648.1	2623.6	2556.4	2528.0	2551.3	2544.8	2446.7	2327.9	2205.2	2116.2	2095.5
25°	2695.9	2672.6	2613.2	2623.6	2685.5	2704.9	2599.0	2460.9	2321.4	2216.9	2192.3
27.5°	2741.1	2711.4	2684.3	2741.1	2828.9	2865.0	2752.7	2596.5	2445.4	2338.2	2318.9
30°	2810.8	2775.9	2772.0	2854.7	2994.1	3025.1	2901.2	2744.9	2595.2	2486.7	2462.2
32.5°	2898.6	2866.3	2868.9	2992.8	3154.2	3180.0	3074.2	2928.3	2778.5	2670.1	2636.5
35°	3017.4	2977.3	2999.3	3151.6	3314.3	3362.1	3276.9	3155.5	3009.6	2898.6	2861.1
37.5°	3181.3	3123.2	3168.4	3328.5	3492.5	3563.5	3497.7	3407.3	3262.7	3150.3	3115.5
40°	3390.5	3342.7	3360.8	3537.7	3706.8	3792.0	3750.7	3661.6	3518.3	3400.8	3360.8
42.5°	3638.4	3590.6	3584.2	3772.7	3941.8	4070.9	4030.9	3949.6	3801.1	3666.8	3628.1
45°	3881.1	3837.2	3846.3	4038.6	4228.4	4369.2	4329.1	4233.6	4072.2	3917.3	3886.3
47.5°	4134.2	4098.0	4105.8	4309.8	4518.9	4659.7	4609.3	4493.1	4304.6	4139.4	4101.9
50°	4393.7	4352.4	4364.0	4578.3	4804.3	4937.3	4859.8	4688.1	4480.2	4318.8	4286.5
52.5°	4651.9	4602.9	4632.6	4835.3	5069.0	5174.8	5031.5	4823.7	4622.2	4462.1	4426.0
55°	4948.9	4897.2	4865.0	5081.9	5313.0	5356.9	5160.6	4917.9	4679.0	4497.0	4475.0
57.5°	5220.0	5176.1	5115.4	5332.4	5502.8	5470.5	5260.1	4892.1	4540.9	4307.2	4276.2
60°	5462.8	5425.3	5372.4	5557.0	5634.5	5562.2	5180.0	4586.1	4200.0	3956.0	3941.8
62.5°	5686.1	5646.1	5597.0	5754.6	5744.2	5576.4	4815.9	4116.1	3599.7	3337.6	3314.3
65°	5863.0	5826.9	5812.7	5936.6	5919.8	5298.8	4249.1	3346.6	2630.0	2334.4	2325.3
67.5°	5913.4	5899.2	5975.3	6185.8	5923.7	4741.0	3332.4	2219.4	1412.5	1132.3	1115.5
70°	5724.9	5723.6	5941.8	6242.6	5386.6	3621.6	1966.4	1000.6	710.1	630.1	619.7
72.5°	5479.5	5475.7	5648.7	5385.3	3994.7	1981.9	827.6	535.8	444.1	422.2	422.2
75°	5076.7	5066.4	5196.8	4096.7	2246.6	746.3	439.0	368.0	348.6	344.7	344.7
77.5°	4138.1	4051.6	3846.3	2531.9	783.7	366.7	290.5	289.2	277.6	276.3	276.3
80°	1360.8	1360.8	1581.6	965.8	346.0	225.9	205.3	215.6	204.0	196.3	195.0
82.5°	222.1	306.0	435.1	276.3	187.2	140.7	126.5	134.3	140.7	112.3	112.3
85°	87.8	114.9	167.8	129.1	86.5	56.8	60.7	67.1	59.4	51.6	50.4
87.5°	33.6	41.3	59.4	31.0	18.1	10.3	6.5	6.5	5.2	5.2	5.2
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)