

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: P639462

Luminaire Tested: GWS-SA5B-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

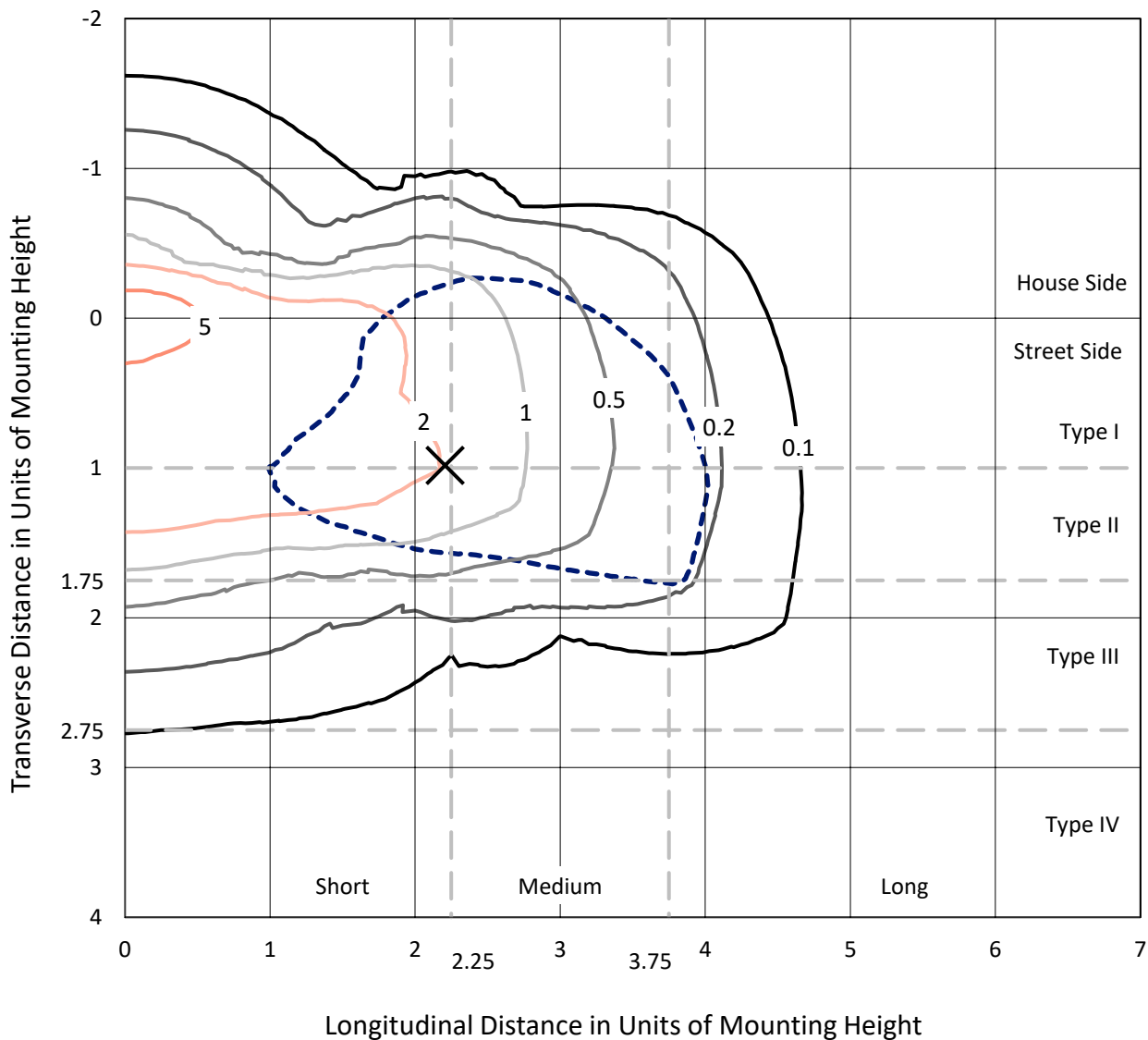
Lumens per Lamp: N/A  
Luminaire Lumens: 13860.8 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

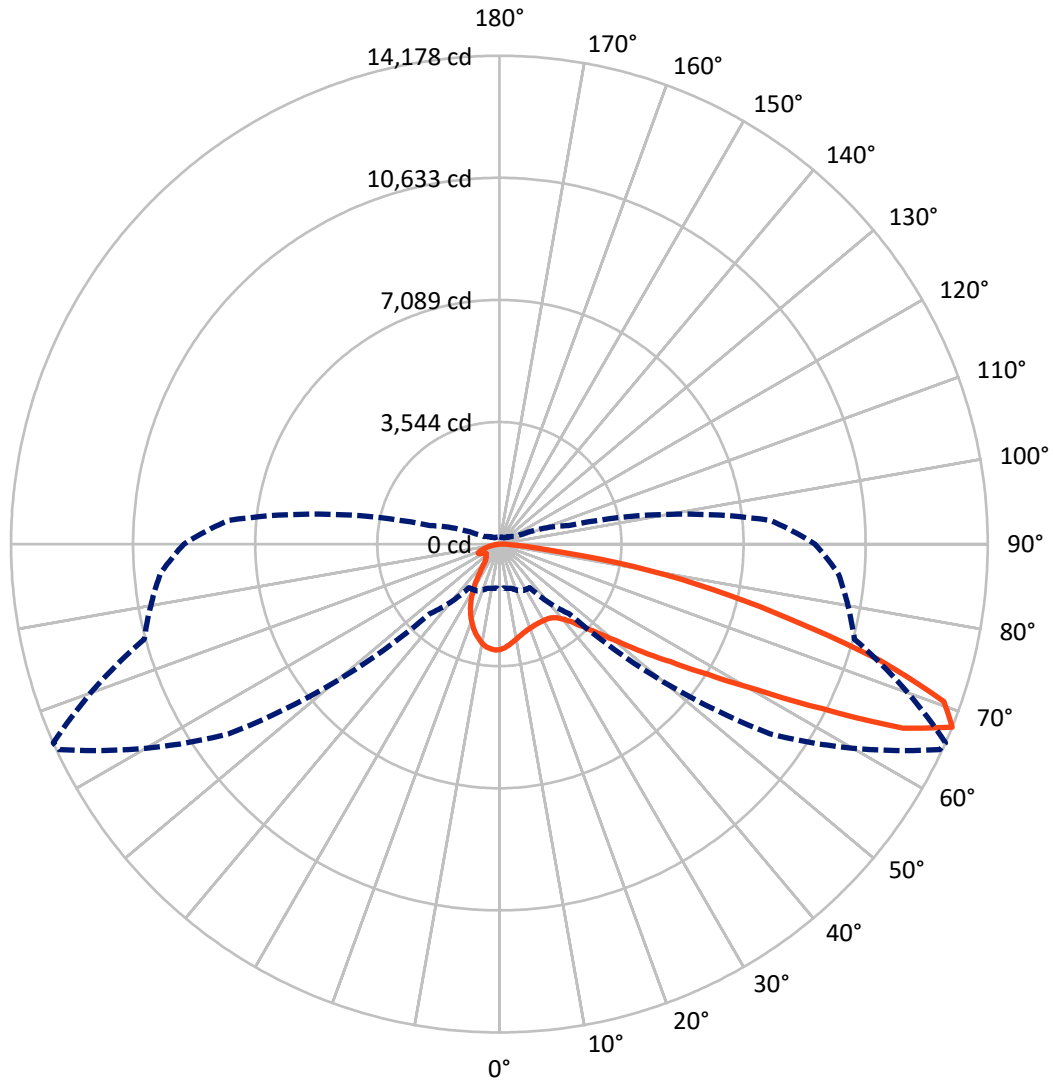
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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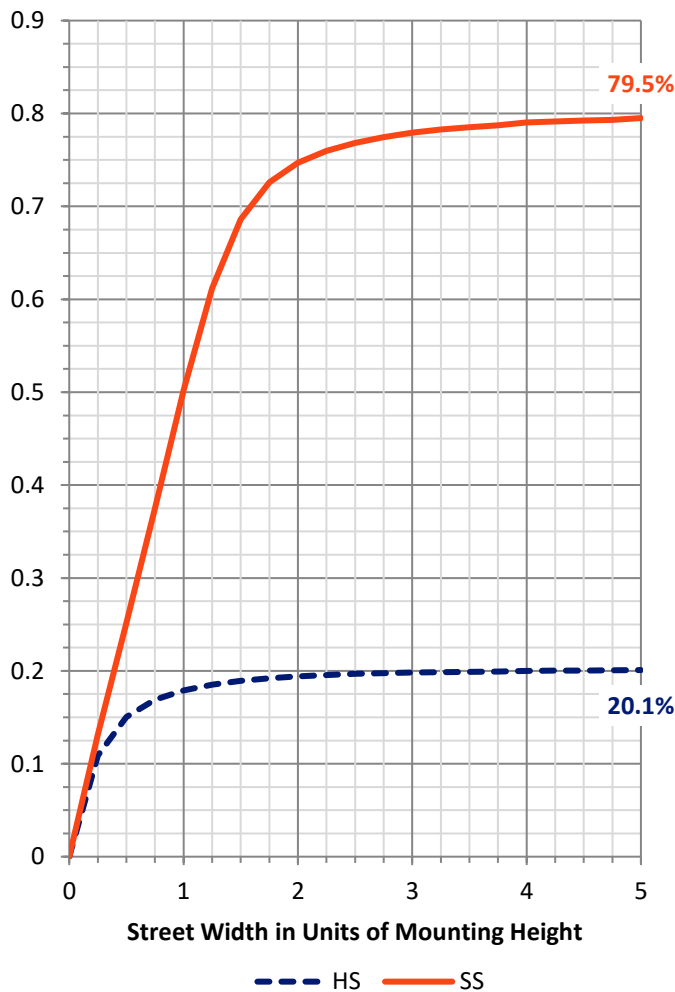
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2812.7	0.0	2812.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	11048.1	0.0	11048.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	13860.8	0.0	13860.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.8	1.9
10°-20°	660.6	4.8
20°-30°	908.0	6.6
30°-40°	1241.4	9.0
40°-50°	1881.1	13.6
50°-60°	2924.2	21.1
60°-70°	3560.2	25.7
70°-80°	2168.7	15.6
80°-90°	247.7	1.8
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°	13860.8	100.0
0°-180°	13860.8	100.0

**Coefficient of Utilization**



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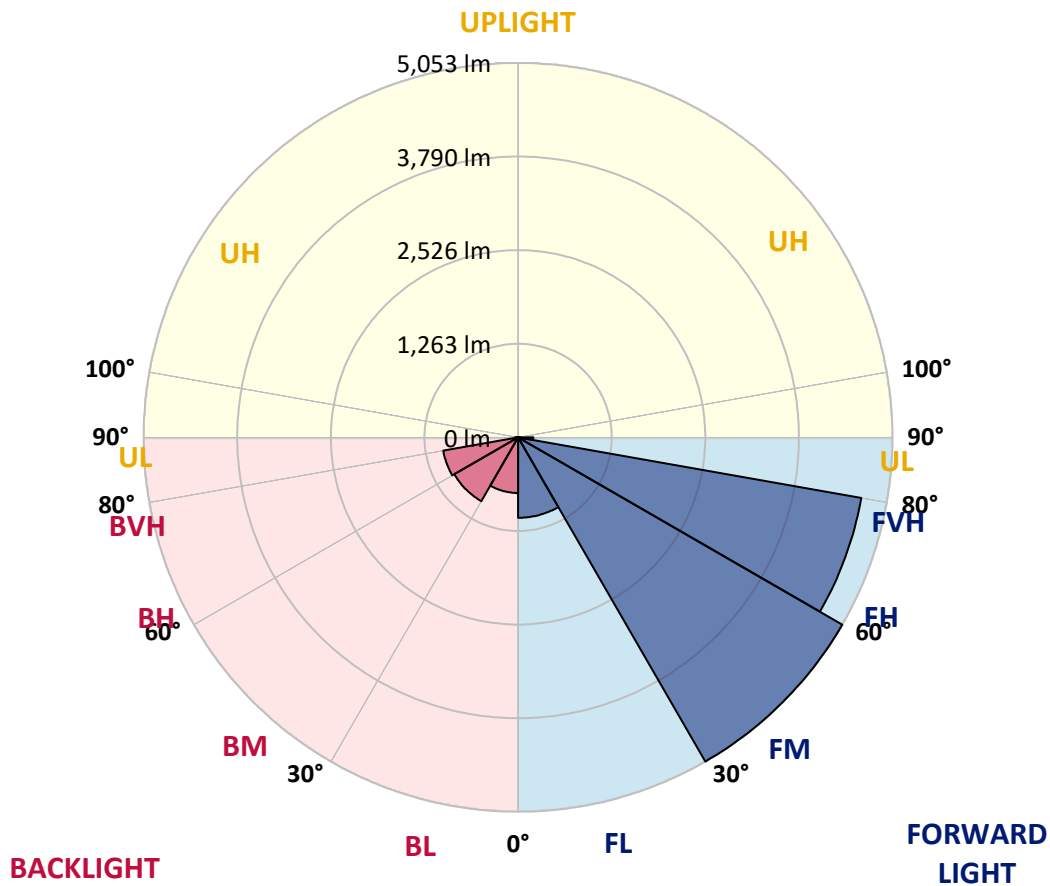
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.1	7.8			
FM (30°-60°)	5052.8	36.5			
FH (60°-80°)	4703.3	33.9			G2/5000
FVH (80°-90°)	206.0	1.5			G2/225
BL (0°-30°)	751.4	5.4	B2/1000		
BM (30°-60°)	994.0	7.2	B1/1000		
BH (60°-80°)	1025.6	7.4	B3/2500		G3/2500
BVH (80°-90°)	41.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8
2.5°	2868.7	2878.8	2872.7	2911.2	2913.2	2961.7	2989.0	3012.3	3014.3	3044.6	3064.9
5°	2672.5	2678.6	2678.6	2715.0	2739.3	2804.0	2866.7	2933.4	2938.5	3011.3	3066.9
7.5°	2513.8	2519.8	2515.8	2564.3	2595.7	2667.5	2747.4	2849.5	2859.6	2976.9	3074.0
10°	2389.4	2387.4	2397.5	2442.0	2482.4	2568.4	2657.4	2773.6	2788.8	2937.5	3082.1
12.5°	2304.5	2306.5	2312.6	2359.1	2402.5	2487.5	2579.5	2705.9	2722.1	2892.0	3078.0
15°	2264.0	2260.0	2265.0	2307.5	2349.0	2423.8	2518.8	2649.3	2665.5	2851.5	3079.0
17.5°	2254.9	2251.9	2250.9	2281.2	2312.6	2382.3	2473.3	2605.8	2623.0	2825.2	3085.1
20°	2283.2	2279.2	2268.1	2281.2	2294.4	2353.0	2441.0	2574.4	2593.7	2808.0	3097.2
22.5°	2361.1	2354.0	2336.8	2320.6	2303.5	2338.8	2420.7	2551.2	2570.4	2796.9	3109.4
25°	2479.4	2473.3	2455.1	2418.7	2356.0	2350.0	2416.7	2541.1	2560.3	2788.8	3114.4
27.5°	2642.2	2633.1	2614.9	2562.3	2460.2	2391.4	2431.9	2540.1	2558.3	2779.7	3109.4
30°	2835.3	2829.3	2819.2	2755.4	2618.9	2479.4	2466.3	2548.2	2562.3	2774.7	3099.2
32.5°	3031.5	3025.4	3033.5	3003.2	2835.3	2625.0	2541.1	2570.4	2580.5	2773.6	3090.1
35°	3204.4	3211.5	3270.1	3275.2	3110.4	2822.2	2659.4	2622.0	2624.0	2793.9	3094.2
37.5°	3385.4	3412.7	3489.6	3555.3	3417.8	3083.1	2835.3	2719.0	2717.0	2845.4	3119.5
40°	3625.1	3637.2	3735.3	3858.6	3772.7	3441.0	3085.1	2877.8	2863.6	2950.6	3187.2
42.5°	3858.6	3888.0	4044.7	4186.3	4157.9	3844.5	3399.6	3115.4	3090.1	3136.7	3326.8
45°	4155.9	4184.2	4360.2	4542.2	4593.8	4300.5	3802.0	3453.2	3427.9	3416.8	3582.6
47.5°	4453.2	4482.5	4640.3	4903.2	5084.2	4870.8	4325.8	3899.1	3857.6	3814.1	3968.9
50°	4653.4	4687.8	4838.5	5153.9	5578.6	5582.7	4946.7	4483.5	4431.0	4362.2	4512.9
52.5°	4646.3	4668.6	4812.2	5176.2	5934.6	6400.7	5777.8	5227.8	5185.3	5035.6	5167.1
55°	4281.3	4314.7	4459.3	4914.3	5973.0	7176.3	6999.3	6105.5	6029.6	5761.7	5906.3
57.5°	3548.2	3576.5	3722.1	4283.3	5632.2	7573.7	8550.5	7223.8	7119.7	6552.4	6719.2
60°	2678.6	2644.2	2713.0	3204.4	4817.2	7583.8	9919.6	8740.6	8566.7	7397.7	7537.3
62.5°	2010.2	1975.8	1991.0	2129.5	3266.1	6971.0	10700.2	10815.5	10528.3	8352.3	8325.0
65°	1588.6	1569.3	1612.8	1707.9	1904.0	5308.7	10706.3	13059.3	12878.3	9458.5	9132.9
67.5°	1294.3	1282.2	1326.7	1502.6	1544.1	2852.5	9600.1	14106.9	14177.7	10669.9	9882.2
70°	1042.5	1024.3	1094.1	1325.6	1435.9	1726.1	6877.0	13573.0	13687.2	11391.9	9670.9
72.5°	720.0	721.0	756.4	1073.9	1386.3	1490.5	3890.0	11301.9	11549.6	10737.6	8501.9
75°	485.4	489.4	499.5	708.8	1277.1	1446.0	2072.9	8556.5	8731.5	8875.1	7027.7
77.5°	293.2	295.3	318.5	428.7	880.7	1349.9	1404.5	6202.5	6340.1	5850.6	4356.1
80°	169.9	177.0	198.2	287.2	594.6	1014.2	1087.0	3803.0	3958.7	2600.7	1384.3
82.5°	74.8	79.9	108.2	166.8	346.8	862.5	848.4	1502.6	1480.4	725.0	480.3
85°	13.1	16.2	23.3	52.6	127.4	455.0	658.3	663.3	623.9	275.0	199.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	99.1	178.0	177.0	77.9	68.8
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°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8
2.5°	3078.0	3050.7	3075.0	3078.0	3073.0	3068.9	3038.6	3012.3	3009.3	2980.9	2980.9
5°	3089.1	3063.9	3076.0	3052.7	3016.3	2978.9	2914.2	2869.7	2849.5	2813.1	2813.1
7.5°	3104.3	3078.0	3063.9	3006.2	2921.3	2839.4	2735.2	2648.3	2612.9	2561.3	2559.3
10°	3118.5	3085.1	3036.6	2924.3	2788.8	2658.4	2506.7	2383.3	2299.4	2237.7	2237.7
12.5°	3117.4	3074.0	2977.9	2812.1	2625.0	2435.9	2233.7	2047.6	1936.4	1840.3	1834.3
15°	3115.4	3055.8	2903.1	2681.6	2433.9	2172.0	1897.0	1654.3	1489.5	1395.4	1387.3
17.5°	3113.4	3032.5	2819.2	2533.0	2201.3	1844.4	1481.4	1218.5	1080.9	1023.3	1025.3
20°	3113.4	3006.2	2729.2	2362.1	1933.4	1452.0	1087.0	895.9	861.5	864.6	867.6
22.5°	3104.3	2973.9	2629.1	2176.0	1635.1	1067.8	801.9	737.1	755.3	783.7	787.7
25°	3083.1	2920.3	2512.8	1969.8	1280.1	777.6	654.2	642.1	675.5	710.9	721.0
27.5°	3049.7	2858.6	2382.3	1728.1	942.4	624.9	575.4	574.3	600.6	626.9	636.0
30°	3014.3	2789.8	2244.8	1459.1	682.5	544.0	524.8	524.8	537.9	554.1	552.1
32.5°	2972.8	2720.1	2097.2	1179.0	556.1	498.5	492.4	489.4	491.4	497.5	497.5
35°	2937.5	2658.4	1945.5	882.8	498.5	473.2	467.2	460.1	457.1	453.0	455.0
37.5°	2924.3	2609.8	1788.8	665.4	470.2	455.0	444.9	434.8	427.7	425.7	424.7
40°	2945.5	2589.6	1632.0	548.1	450.0	435.8	424.7	411.5	405.5	405.5	405.5
42.5°	3028.5	2604.8	1472.3	495.5	435.8	419.6	403.5	391.3	389.3	391.3	392.3
45°	3180.1	2663.4	1306.4	469.2	423.7	403.5	384.2	375.1	375.1	377.2	377.2
47.5°	3451.1	2817.1	1142.6	453.0	411.5	390.3	370.1	361.0	360.0	362.0	362.0
50°	3920.3	3094.2	995.0	441.9	402.4	380.2	360.0	347.8	344.8	343.8	343.8
52.5°	4511.9	3574.5	901.0	433.8	391.3	369.1	348.9	332.7	326.6	323.6	323.6
55°	5226.8	4214.6	901.0	427.7	377.2	355.9	332.7	316.5	307.4	303.4	303.4
57.5°	6036.7	4959.8	1056.7	422.7	366.0	340.8	315.5	299.3	289.2	283.1	283.1
60°	6860.8	5747.5	1441.9	415.6	355.9	321.6	296.3	281.1	268.0	260.9	259.9
62.5°	7715.3	6615.1	1949.5	419.6	348.9	303.4	276.1	258.9	247.7	240.7	239.6
65°	8497.9	7441.2	2393.4	451.0	349.9	287.2	252.8	237.6	228.5	219.4	218.4
67.5°	9162.2	7897.3	2082.0	514.7	371.1	268.0	229.5	214.4	206.3	200.2	199.2
70°	8697.1	7201.6	1181.1	554.1	400.4	247.7	203.2	193.1	185.0	181.0	180.0
72.5°	7437.2	6097.4	789.7	489.4	365.0	221.4	179.0	170.9	164.8	159.8	158.8
75°	6024.6	4835.4	603.7	401.4	284.1	180.0	153.7	147.6	141.6	136.5	135.5
77.5°	3564.4	2793.9	444.9	317.5	200.2	140.6	127.4	122.4	116.3	112.2	111.2
80°	1137.6	970.7	282.1	218.4	132.5	108.2	98.1	94.0	88.0	82.9	81.9
82.5°	433.8	375.1	149.7	111.2	88.0	73.8	65.7	61.7	57.6	52.6	51.6
85°	192.1	180.0	82.9	59.7	47.5	36.4	32.4	30.3	25.3	21.2	20.2
87.5°	67.7	67.7	35.4	17.2	10.1	5.1	3.0	1.0	0.0	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)