

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: STREETWORKS

Report Number: P386833

Luminaire Tested: GAW-SA2C-735-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-735-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13584.6 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

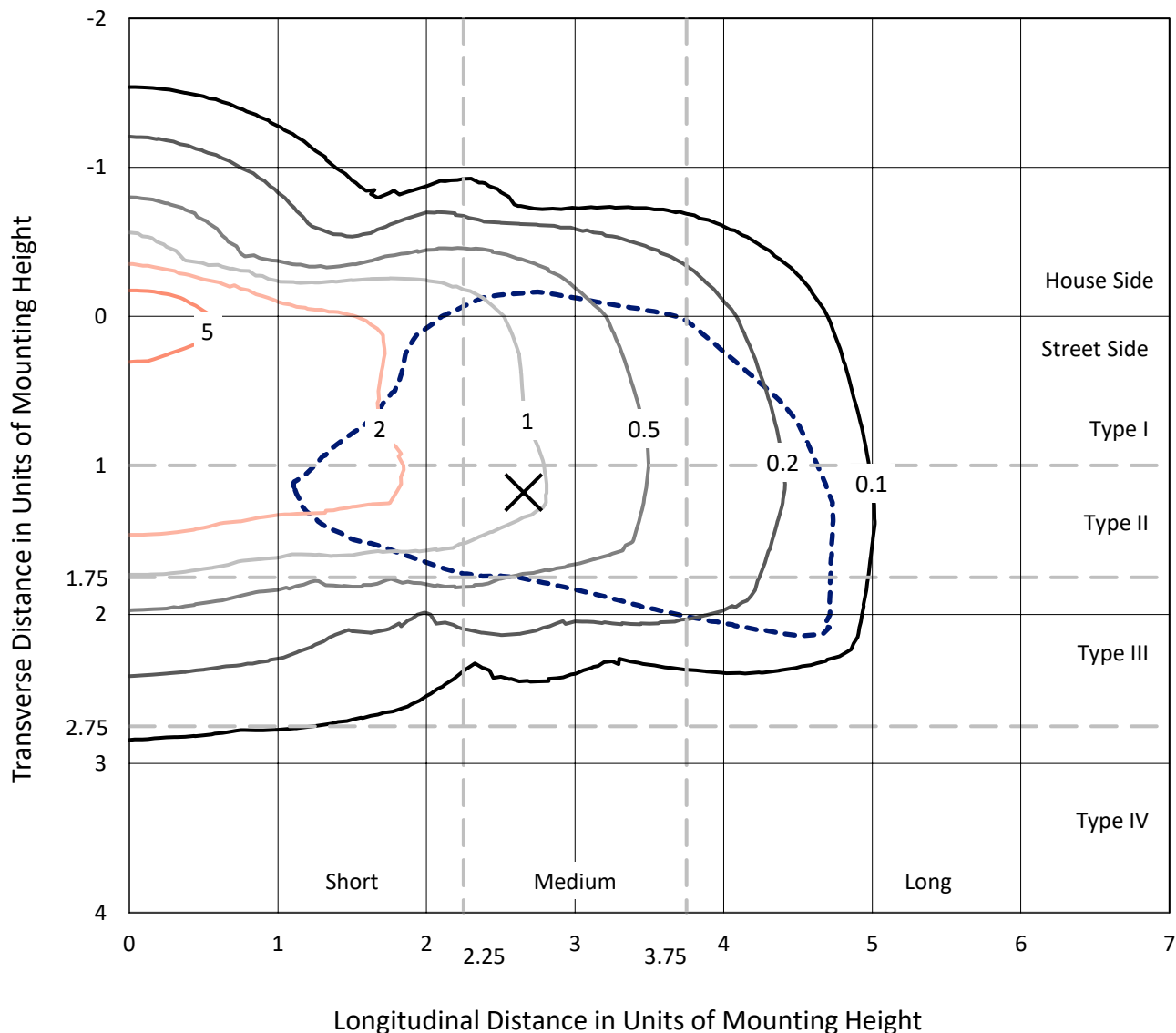
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

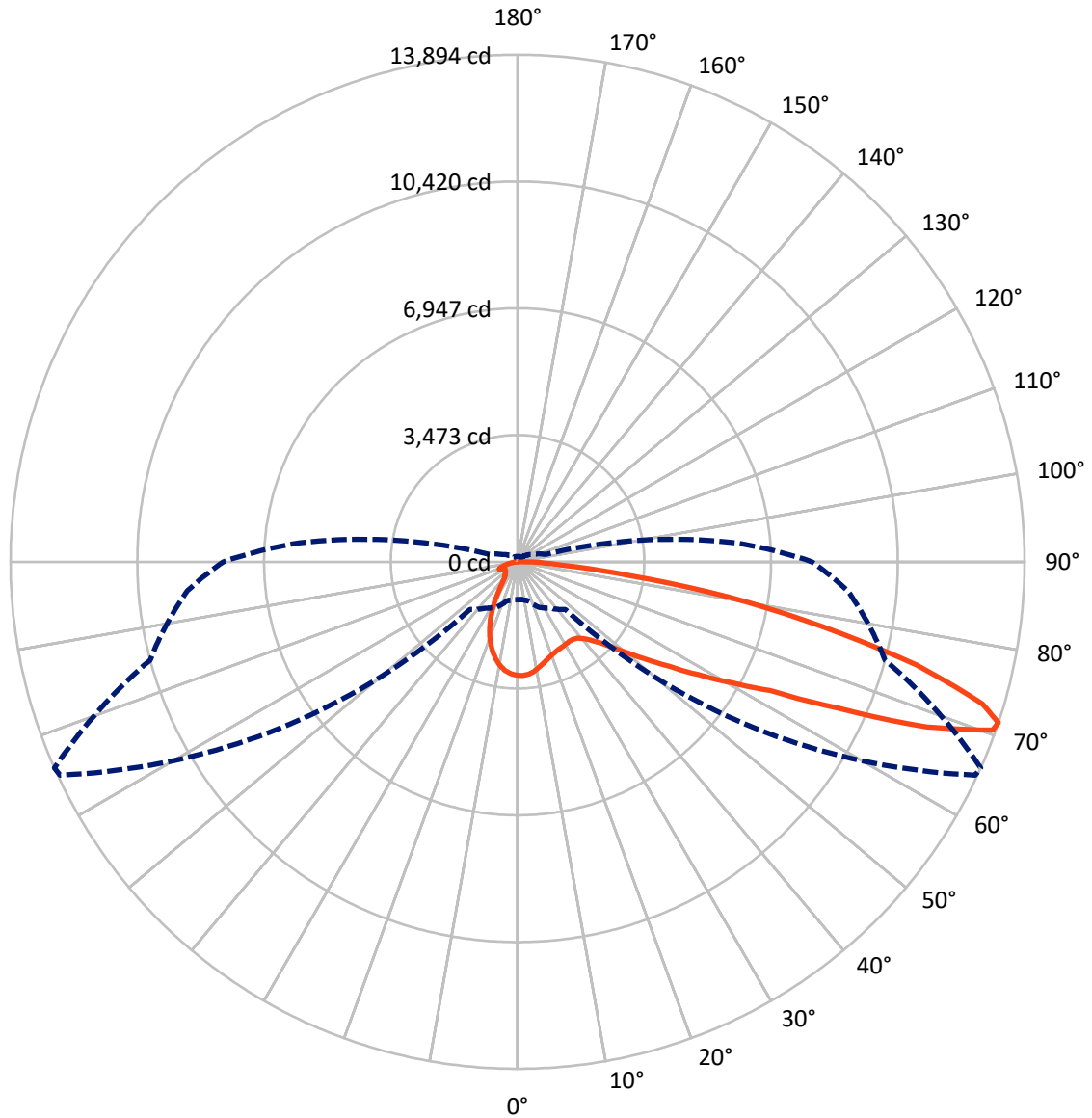
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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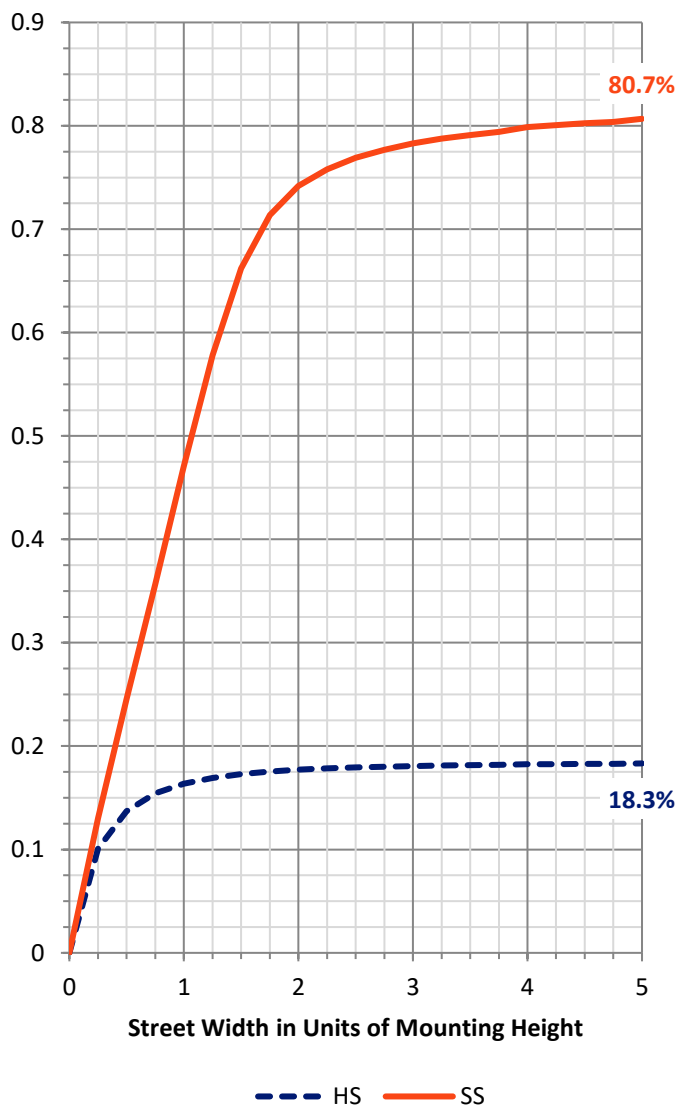
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.6	0.0	2517.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11067.0	0.0	11067.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	13584.6	0.0	13584.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	2.0
10°-20°	657.0	4.8
20°-30°	882.5	6.5
30°-40°	1160.9	8.5
40°-50°	1688.8	12.4
50°-60°	2638.2	19.4
60°-70°	3304.7	24.3
70°-80°	2520.8	18.6
80°-90°	457.7	3.4
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°	13584.6	100.0
0°-180°	13584.6	100.0

Coefficient of Utilization



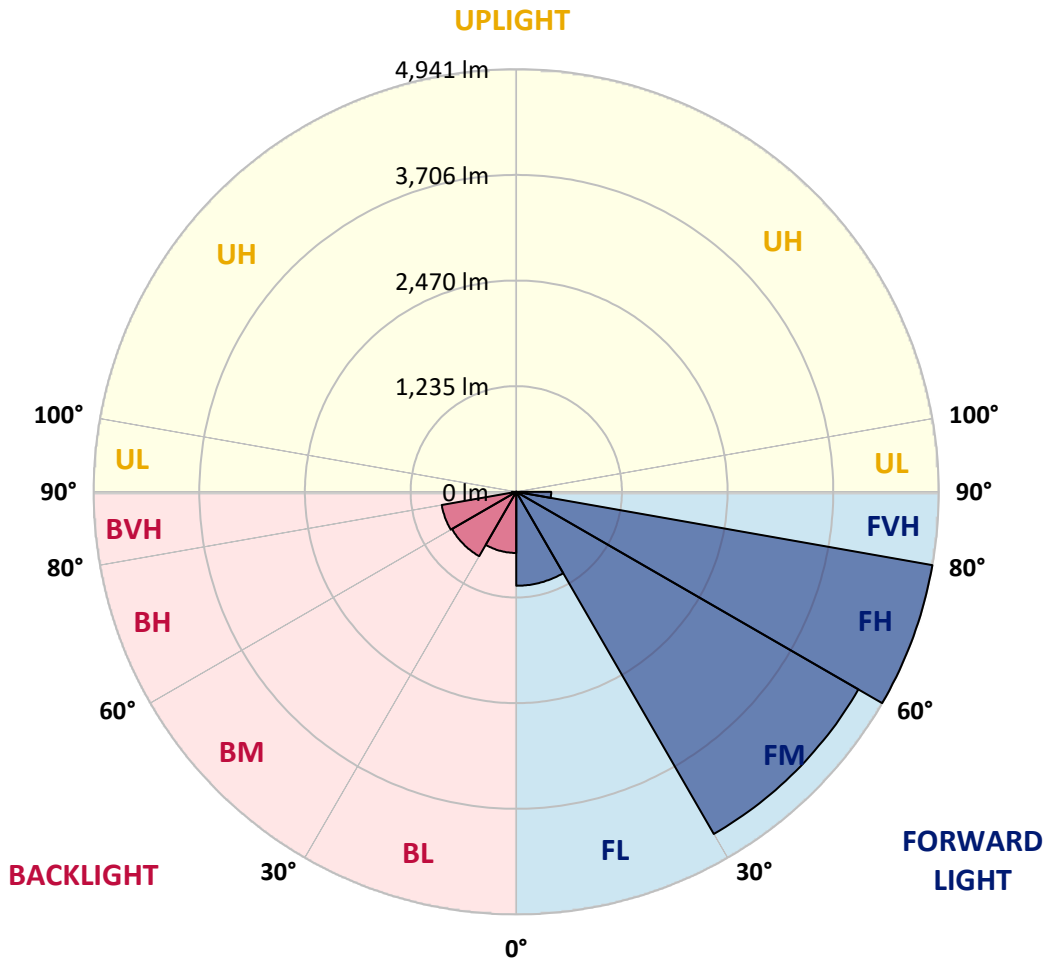
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.5	8.1			
FM (30°-60°)	4619.4	34.0			
FH (60°-80°)	4940.9	36.4			G2/5000
FVH (80°-90°)	408.2	3.0			G3/500
BL (0°-30°)	714.9	5.3	B2/1000		
BM (30°-60°)	868.5	6.4	B1/1000		
BH (60°-80°)	884.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	49.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9
2.5°	3054.3	3049.6	3063.6	3078.2	3083.8	3093.2	3107.2	3115.2	3114.7	3116.2	3111.5
5°	2851.6	2845.5	2873.7	2896.7	2940.8	2990.5	3051.0	3094.2	3095.1	3119.4	3126.0
7.5°	2659.8	2655.6	2688.0	2725.0	2776.1	2852.1	2950.2	3043.0	3048.6	3114.7	3137.8
10°	2506.0	2505.1	2536.5	2576.9	2636.4	2721.2	2833.9	2969.9	2978.3	3092.3	3139.6
12.5°	2385.9	2387.8	2415.0	2460.9	2523.8	2612.5	2734.4	2887.8	2901.4	3056.6	3128.8
15°	2297.3	2304.8	2326.8	2373.3	2435.2	2525.2	2650.4	2811.8	2832.5	3016.8	3122.7
17.5°	2246.7	2255.0	2270.5	2309.0	2367.2	2453.9	2572.6	2749.4	2768.2	2986.2	3123.2
20°	2231.6	2238.7	2247.6	2271.0	2320.2	2399.0	2511.2	2693.1	2713.3	2961.9	3127.9
22.5°	2261.1	2266.3	2267.2	2265.3	2295.4	2359.7	2466.6	2651.8	2673.4	2945.9	3131.2
25°	2324.4	2331.5	2326.3	2309.0	2299.2	2338.5	2443.6	2624.7	2646.2	2934.2	3124.6
27.5°	2419.7	2420.6	2416.4	2393.9	2347.5	2340.9	2436.6	2608.7	2629.4	2920.6	3111.0
30°	2549.1	2555.2	2547.7	2517.2	2441.3	2378.5	2445.1	2593.2	2612.0	2903.3	3089.0
32.5°	2700.7	2715.6	2715.1	2683.3	2574.5	2462.3	2479.7	2583.8	2598.4	2885.0	3062.2
35°	2857.7	2878.4	2916.8	2903.3	2768.7	2595.1	2546.3	2598.8	2608.7	2882.6	3043.4
37.5°	3021.0	3041.6	3120.9	3157.5	2999.9	2785.0	2651.3	2651.8	2656.5	2911.2	3042.0
40°	3191.7	3213.8	3332.9	3428.1	3299.5	3025.7	2820.7	2762.6	2757.4	2981.5	3069.8
42.5°	3430.9	3450.6	3593.7	3715.1	3632.1	3333.8	3054.7	2933.3	2922.5	3119.4	3158.4
45°	3733.4	3750.3	3902.2	4032.2	3989.5	3685.6	3348.8	3168.2	3166.4	3349.3	3338.0
47.5°	4093.1	4106.3	4242.8	4368.5	4384.0	4090.3	3718.4	3530.8	3500.3	3664.5	3616.2
50°	4467.9	4482.4	4575.3	4710.4	4825.3	4632.1	4194.0	3975.0	3934.2	4080.5	4010.2
52.5°	4716.0	4735.2	4815.9	4987.1	5321.6	5225.8	4756.3	4513.4	4451.5	4584.7	4530.8
55°	4605.3	4648.5	4771.8	5046.2	5718.3	6132.9	5450.1	5141.4	5071.5	5182.3	5150.3
57.5°	4102.1	4161.1	4329.6	4753.1	5774.2	6932.2	6498.7	5881.1	5831.9	5799.9	5814.5
60°	3182.3	3239.0	3447.8	3999.8	5385.4	7515.6	8077.0	6792.9	6721.6	6420.0	6433.1
62.5°	2252.3	2223.6	2366.7	2770.6	4376.0	7584.1	9872.9	8012.3	7777.8	7074.8	7017.1
65°	1717.6	1711.0	1775.3	1903.8	2650.4	6764.7	10942.7	10061.9	9695.7	7844.9	7708.9
67.5°	1411.3	1399.6	1462.9	1650.0	1706.8	4364.2	10966.2	12439.9	12080.1	8803.5	8509.0
70°	1160.3	1147.2	1206.4	1447.9	1577.3	2213.3	9229.5	13832.4	13813.2	10017.4	9113.1
71°	1040.3	1030.9	1101.7	1370.0	1549.6	1844.7	7968.7	13836.1	13893.8	10428.2	9077.5
72.5°	847.1	850.3	925.4	1219.4	1529.1	1628.9	5856.7	13191.3	13313.2	10819.8	8753.4
75°	562.8	565.6	664.2	938.1	1482.6	1593.8	3218.9	11069.0	11293.1	10585.4	7987.5
77.5°	378.0	377.1	444.1	643.5	1291.7	1593.8	1887.3	8278.7	8524.9	8422.7	6157.8
80°	260.3	258.4	305.8	444.1	977.9	1612.9	1459.2	5801.8	5876.4	4548.5	2502.7
82.5°	159.5	160.9	199.8	313.8	665.6	1451.6	1377.5	3163.6	3082.4	1275.7	625.2
85°	91.5	91.0	127.6	212.5	427.2	1225.1	1343.2	1361.6	1249.0	384.1	226.1
87.5°	32.8	35.1	68.5	117.7	244.8	853.2	1139.8	708.2	638.3	173.5	102.2
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°	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9	3111.9
2.5°	3108.2	3111.0	3107.7	3089.0	3073.0	3047.2	3032.7	3012.5	3006.4	3003.6	3011.1
5°	3119.9	3120.9	3093.2	3043.9	2988.6	2923.4	2876.5	2818.8	2791.6	2779.9	2787.4
7.5°	3130.7	3126.5	3066.0	2971.7	2869.5	2756.0	2655.1	2562.8	2508.8	2486.8	2488.6
10°	3132.1	3114.3	3017.2	2871.4	2712.8	2546.3	2391.5	2249.0	2158.9	2100.3	2118.1
12.5°	3117.6	3087.6	2945.5	2741.4	2521.4	2294.5	2085.3	1871.4	1742.9	1683.3	1685.2
15°	3106.3	3051.9	2857.3	2588.5	2293.1	1992.4	1706.8	1455.4	1318.4	1257.5	1228.8
17.5°	3097.0	3013.5	2755.1	2416.4	2023.4	1642.1	1298.7	1074.6	999.5	981.7	974.2
20°	3083.8	2972.6	2641.1	2217.1	1716.2	1250.0	948.3	837.7	838.1	858.8	861.6
22.5°	3065.5	2926.2	2519.5	1993.3	1386.5	910.4	743.4	711.5	743.9	783.3	790.3
25°	3038.3	2871.4	2384.5	1746.1	1057.2	699.8	635.0	633.6	673.1	714.3	720.4
27.5°	2999.9	2799.6	2234.4	1480.7	779.0	594.7	568.9	578.8	607.9	637.8	640.2
30°	2948.3	2716.1	2068.8	1200.7	610.7	529.5	526.7	535.6	553.5	574.5	576.4
32.5°	2891.5	2631.2	1892.0	929.6	523.0	494.3	497.1	501.4	509.8	518.3	520.1
35°	2840.0	2544.4	1711.0	706.3	481.3	471.4	469.5	468.6	469.5	466.7	467.2
37.5°	2806.6	2472.7	1522.5	562.3	457.3	451.2	445.6	438.5	430.5	425.8	426.8
40°	2794.4	2419.2	1331.6	485.9	437.6	433.3	422.6	407.6	398.2	395.4	395.4
42.5°	2827.3	2391.5	1147.2	447.4	421.2	414.2	396.3	379.0	371.9	371.4	371.0
45°	2927.6	2402.8	971.8	426.3	406.2	392.6	369.1	354.6	349.9	350.9	350.4
47.5°	3107.7	2473.6	821.7	412.3	391.2	373.3	347.1	335.4	329.7	329.7	330.2
50°	3414.0	2639.2	702.1	400.6	378.5	355.6	331.1	316.6	309.1	308.6	308.6
52.5°	3860.1	2935.6	627.5	390.7	364.4	339.6	315.2	296.8	288.0	286.1	285.2
55°	4419.1	3360.6	606.9	384.1	345.7	322.2	295.9	277.7	267.8	263.6	263.1
57.5°	5044.4	3877.4	647.7	376.1	326.4	301.5	274.9	257.5	247.2	242.0	241.5
60°	5677.0	4441.6	814.3	364.9	310.5	279.1	253.3	237.3	227.1	221.4	220.5
62.5°	6310.7	5036.4	1154.2	363.9	299.2	257.5	231.2	217.7	207.8	201.7	200.3
65°	7025.4	5687.4	1540.7	388.8	295.4	237.8	208.7	197.9	189.5	183.8	183.4
67.5°	7846.3	6422.4	1503.7	439.9	308.1	220.0	187.6	179.1	173.0	168.3	167.9
70°	8231.3	6307.4	934.8	476.1	326.0	202.6	167.4	161.4	156.7	153.4	152.0
71°	8070.0	5988.9	783.7	471.9	324.1	195.1	159.5	154.8	150.1	147.3	145.9
72.5°	7630.0	5461.7	653.8	439.0	303.0	181.5	149.2	144.5	140.3	137.0	136.0
75°	6846.8	4877.8	523.4	350.9	241.5	153.4	130.9	125.7	122.4	120.5	118.6
77.5°	5033.1	3481.1	404.8	277.2	177.7	125.2	111.6	107.8	104.6	101.7	100.3
80°	1928.1	1348.4	272.5	206.9	130.4	98.9	90.1	88.2	84.9	83.0	83.0
82.5°	519.2	402.9	145.4	125.2	87.3	72.2	69.0	68.0	65.2	61.4	61.9
85°	210.1	177.7	81.6	69.0	53.5	42.6	46.4	46.9	43.6	38.9	39.4
87.5°	92.4	75.5	45.5	30.5	23.5	16.4	21.1	21.1	19.3	16.0	14.6
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)