

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: P386947

Luminaire Tested: GAW-SA2C-830-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-830-U-SL3
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11731 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

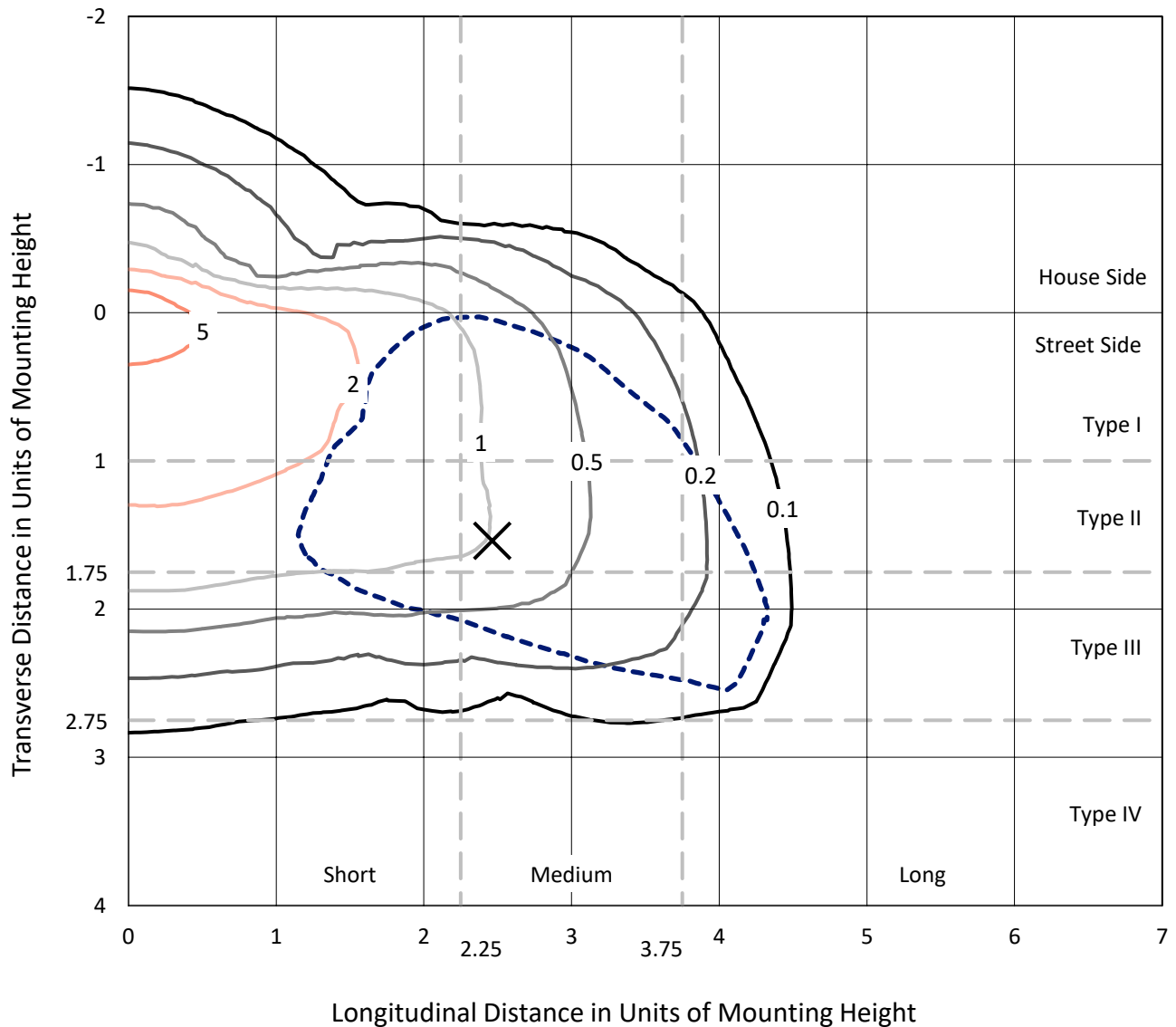
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

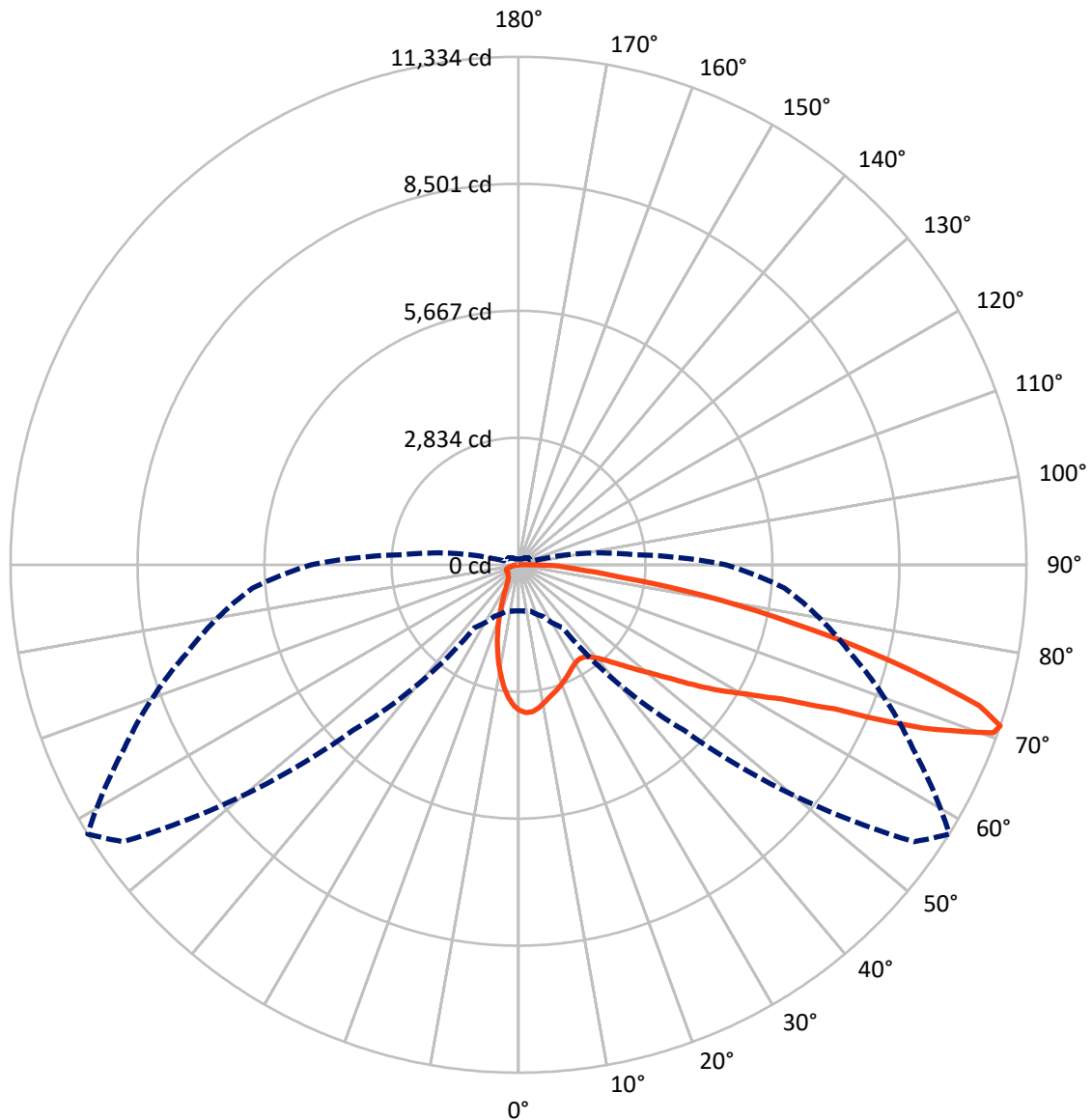
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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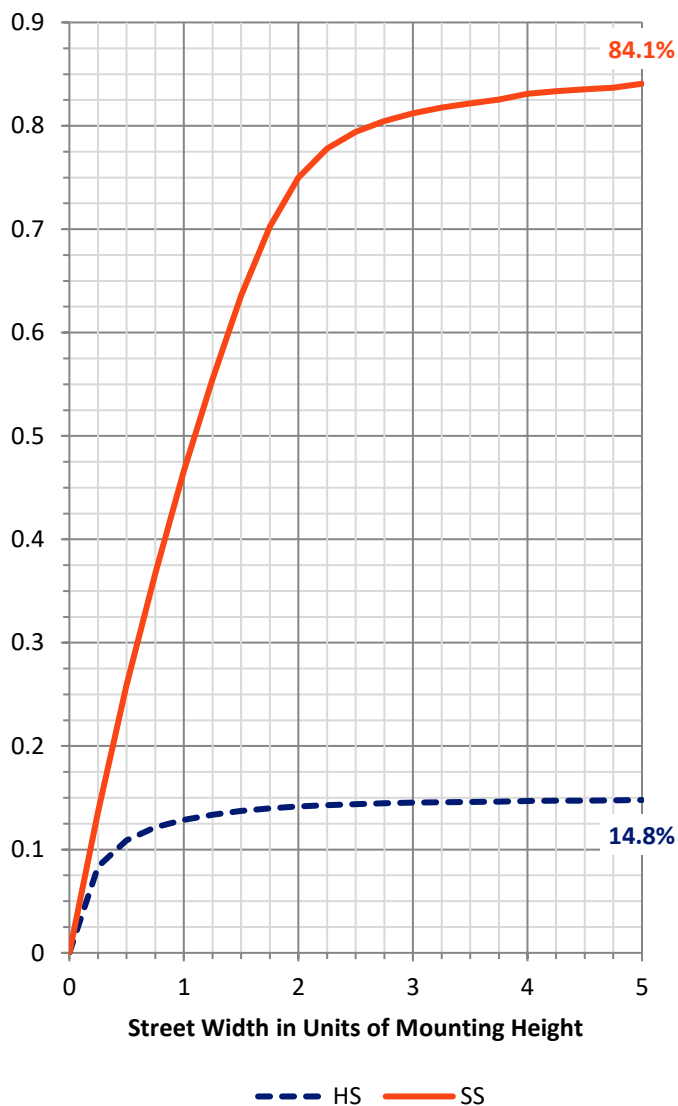
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.9	0.0	1753.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9977.1	0.0	9977.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	11731.0	0.0	11731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	2.4
10°-20°	623.5	5.3
20°-30°	792.4	6.8
30°-40°	1009.4	8.6
40°-50°	1431.3	12.2
50°-60°	2215.1	18.9
60°-70°	3015.5	25.7
70°-80°	2011.7	17.1
80°-90°	351.7	3.0
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°	11731.0	100.0
0°-180°	11731.0	100.0

Coefficient of Utilization

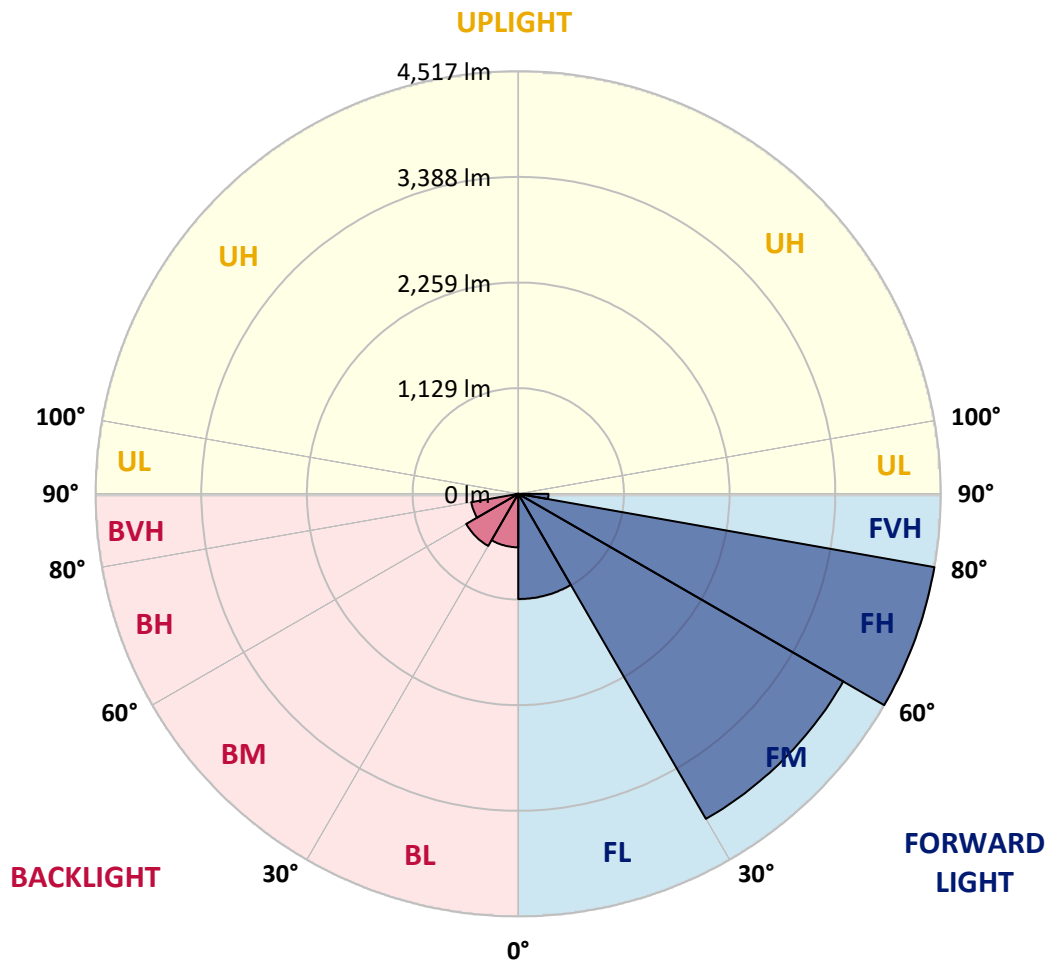


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.6	9.6			
FM (30°-60°)	4012.6	34.2			
FH (60°-80°)	4517.5	38.5			G2/5000
FVH (80°-90°)	322.5	2.7			G3/500
BL (0°-30°)	571.7	4.9	B2/1000		
BM (30°-60°)	643.2	5.5	B1/1000		
BH (60°-80°)	509.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.2			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°	58°	65°	75°	85°
0°	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3
2.5°	3336.5	3332.0	3333.6	3330.4	3322.6	3314.8	3303.4	3305.4	3289.5	3265.8	3236.4
5°	3273.6	3271.9	3284.2	3291.1	3296.9	3292.4	3289.1	3293.2	3269.9	3237.2	3186.1
7.5°	3141.6	3123.6	3139.1	3162.4	3184.5	3201.2	3223.3	3226.2	3211.5	3177.1	3110.1
10°	2954.0	2936.8	2959.7	2996.1	3040.2	3080.3	3124.8	3133.0	3135.9	3104.8	3023.5
12.5°	2759.5	2746.4	2769.3	2820.4	2893.5	2955.2	3026.3	3038.6	3063.9	3043.1	2943.4
15°	2585.4	2580.5	2608.3	2658.6	2742.7	2837.1	2939.7	2962.2	3005.1	2998.1	2880.9
17.5°	2435.0	2433.8	2455.1	2507.8	2601.0	2720.3	2853.5	2891.5	2955.2	2963.4	2829.4
20°	2323.1	2320.6	2335.3	2374.2	2470.2	2605.4	2760.3	2812.6	2904.6	2933.2	2776.3
22.5°	2263.0	2262.6	2263.0	2281.4	2359.9	2485.7	2669.6	2733.3	2855.1	2909.1	2717.4
25°	2252.8	2251.6	2242.6	2240.5	2285.1	2385.6	2579.7	2650.0	2808.1	2892.3	2661.4
27.5°	2279.4	2281.0	2269.1	2249.9	2258.9	2319.8	2501.7	2576.8	2770.5	2889.0	2622.6
30°	2334.5	2333.7	2323.5	2303.5	2285.9	2295.3	2446.1	2521.3	2745.2	2903.3	2596.0
32.5°	2395.4	2399.9	2397.9	2386.8	2360.7	2323.1	2429.3	2502.9	2737.8	2937.7	2584.6
35°	2468.6	2473.5	2488.2	2496.8	2466.1	2405.6	2465.3	2529.0	2759.1	3002.2	2603.0
37.5°	2538.0	2550.7	2592.0	2628.3	2602.2	2534.8	2560.9	2606.3	2824.9	3104.0	2652.4
40°	2618.1	2629.1	2696.6	2773.8	2769.7	2699.8	2715.0	2745.2	2940.9	3249.9	2741.9
42.5°	2697.0	2719.0	2816.7	2926.2	2957.7	2896.0	2920.1	2936.0	3104.4	3443.1	2898.0
45°	2802.0	2825.7	2961.4	3093.4	3166.9	3132.2	3170.6	3176.7	3309.9	3706.3	3124.8
47.5°	2961.0	2987.9	3146.1	3284.6	3397.0	3400.6	3464.0	3461.5	3566.6	4007.5	3410.5
50°	3208.6	3247.4	3376.9	3506.5	3643.0	3719.0	3803.6	3791.7	3874.3	4328.2	3739.4
52.5°	3533.0	3551.0	3647.1	3742.7	3912.3	4082.7	4204.0	4193.4	4223.2	4658.0	4112.9
55°	3869.4	3882.8	3922.5	3974.8	4202.8	4480.7	4737.3	4720.5	4644.9	5000.4	4481.9
57.5°	4171.7	4199.1	4226.5	4248.2	4495.4	4896.7	5282.8	5284.0	5102.6	5369.9	4863.1
60°	4218.7	4242.8	4423.9	4594.7	4996.0	5451.6	5866.8	5854.5	5576.2	5770.7	5288.1
62.5°	3729.2	3783.5	4085.9	4540.3	5478.1	6466.6	6611.7	6596.6	6142.6	6264.8	5783.0
65°	2672.5	2734.2	3099.1	3781.9	5244.4	7585.1	7956.1	7752.6	6914.9	6872.4	6362.4
67.5°	1541.8	1556.5	1714.6	2263.0	3993.2	7643.5	10007.0	9722.2	8114.2	7561.8	6646.0
70°	1140.1	1139.7	1177.3	1392.6	2160.9	6238.2	10982.4	11237.8	9376.9	7788.6	6245.1
71°	1031.0	1032.2	1074.3	1267.6	1711.4	5221.5	10775.3	11334.3	9709.5	7676.6	5955.0
72.5°	881.8	885.9	944.4	1136.8	1439.6	3600.9	9882.8	10755.6	9867.3	7400.4	5501.0
75°	668.9	678.3	759.2	958.2	1315.8	1826.2	7253.2	8588.7	8765.6	6530.0	4087.6
77.5°	477.3	487.9	579.4	805.8	1250.8	1376.3	4857.4	6264.8	6450.7	4184.8	1843.8
80°	301.6	314.2	383.3	641.1	1175.2	1306.8	3052.5	4211.0	3517.5	1339.1	469.1
82.5°	176.9	186.7	237.8	418.8	959.9	1258.6	1795.9	2334.1	1368.9	404.5	213.3
85°	102.6	107.1	148.3	266.8	697.1	1187.9	1319.5	1304.8	594.2	197.8	100.9
87.5°	47.8	53.1	87.9	139.3	387.0	861.0	1042.8	901.0	369.4	92.8	47.4
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°	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3	3250.3
2.5°	3222.1	3215.1	3186.1	3160.4	3133.4	3098.3	3059.4	3054.5	3030.8	3035.3	3027.2
5°	3158.3	3140.8	3070.9	3007.5	2932.8	2865.7	2793.0	2759.5	2711.3	2708.0	2695.8
7.5°	3067.2	3034.5	2926.2	2806.1	2685.9	2571.5	2458.3	2384.0	2308.0	2275.7	2272.8
10°	2964.6	2909.1	2749.7	2571.9	2398.7	2231.5	2069.7	1950.0	1842.1	1791.0	1789.0
12.5°	2867.4	2785.2	2566.6	2324.7	2087.7	1871.1	1649.2	1491.9	1356.7	1311.3	1292.1
15°	2784.8	2669.2	2388.5	2079.1	1791.4	1490.7	1238.2	1072.7	947.6	904.3	896.1
17.5°	2704.7	2556.0	2205.8	1831.1	1483.3	1152.8	899.8	776.8	710.2	692.6	692.2
20°	2625.1	2439.5	2015.0	1577.3	1185.4	862.2	691.8	636.7	614.2	612.1	608.9
22.5°	2534.8	2316.1	1814.3	1322.7	925.1	677.9	588.0	566.0	563.1	570.5	570.5
25°	2450.2	2193.5	1610.8	1073.5	719.6	565.5	525.1	520.6	528.4	541.4	542.7
27.5°	2371.3	2075.4	1412.2	852.0	576.6	498.1	481.4	486.7	500.6	515.7	516.1
30°	2306.3	1963.9	1219.4	671.4	487.1	447.9	445.0	455.6	470.7	482.6	485.5
32.5°	2256.1	1868.7	1033.0	539.8	428.7	410.3	412.7	421.7	431.1	437.6	442.1
35°	2232.8	1787.0	861.0	455.2	391.5	381.3	384.5	389.4	393.5	398.4	402.1
37.5°	2236.9	1723.6	707.3	402.5	366.5	361.2	361.2	361.2	361.2	363.7	364.1
40°	2274.9	1687.2	582.3	369.0	349.8	344.1	339.6	335.5	332.2	333.9	333.0
42.5°	2372.1	1684.0	490.8	347.7	336.3	326.9	317.9	312.2	308.1	309.7	310.6
45°	2537.2	1724.8	429.1	332.6	323.6	309.3	297.9	291.8	288.9	294.2	295.0
47.5°	2750.9	1813.9	391.5	321.6	311.8	293.0	280.7	275.0	275.8	283.6	285.6
50°	3026.3	1958.6	373.5	314.6	303.6	279.1	266.4	261.5	264.0	275.0	277.5
52.5°	3328.7	2167.0	375.5	312.6	298.3	268.9	255.4	249.7	253.8	264.0	266.0
55°	3677.7	2417.5	409.5	315.5	290.5	262.3	246.4	236.6	239.9	249.3	250.9
57.5°	4065.5	2704.3	477.7	314.6	280.7	256.2	237.0	222.3	224.7	230.5	232.1
60°	4469.2	3050.9	583.5	317.1	276.2	248.9	224.3	206.0	205.1	210.0	210.9
62.5°	4953.9	3451.7	704.5	318.7	279.1	239.5	207.6	189.6	187.2	188.4	189.2
65°	5453.2	3741.9	659.1	312.2	288.1	231.7	192.9	173.7	169.2	168.4	168.8
67.5°	5468.7	3430.9	462.2	299.1	291.8	227.6	181.8	160.2	152.8	150.0	149.6
70°	4904.4	2787.3	360.0	285.2	277.1	221.1	171.6	149.2	138.1	133.6	133.2
71°	4629.0	2565.8	341.2	278.3	266.0	214.5	167.1	144.2	132.8	127.9	127.1
72.5°	4197.1	2300.2	318.3	267.2	244.8	197.8	158.5	137.3	125.5	119.7	118.5
75°	3012.0	1504.2	273.4	238.2	202.7	157.7	138.9	123.4	113.2	106.2	105.4
77.5°	1160.5	598.6	206.8	198.2	155.3	123.4	114.4	106.7	99.3	92.4	91.9
80°	358.8	267.7	150.8	149.2	112.4	91.9	89.1	87.0	84.2	76.8	75.2
82.5°	191.6	153.6	103.8	96.4	73.6	61.3	64.6	65.4	65.8	58.0	57.2
85°	91.5	81.3	58.4	54.8	42.9	34.3	39.6	42.9	43.3	35.6	33.1
87.5°	43.7	42.5	27.4	20.8	15.9	11.4	13.9	17.2	18.8	13.5	11.9
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)