

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: P387029

Luminaire Tested: GAW-SA2D-730-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387029
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-SA2D-730-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 14446 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

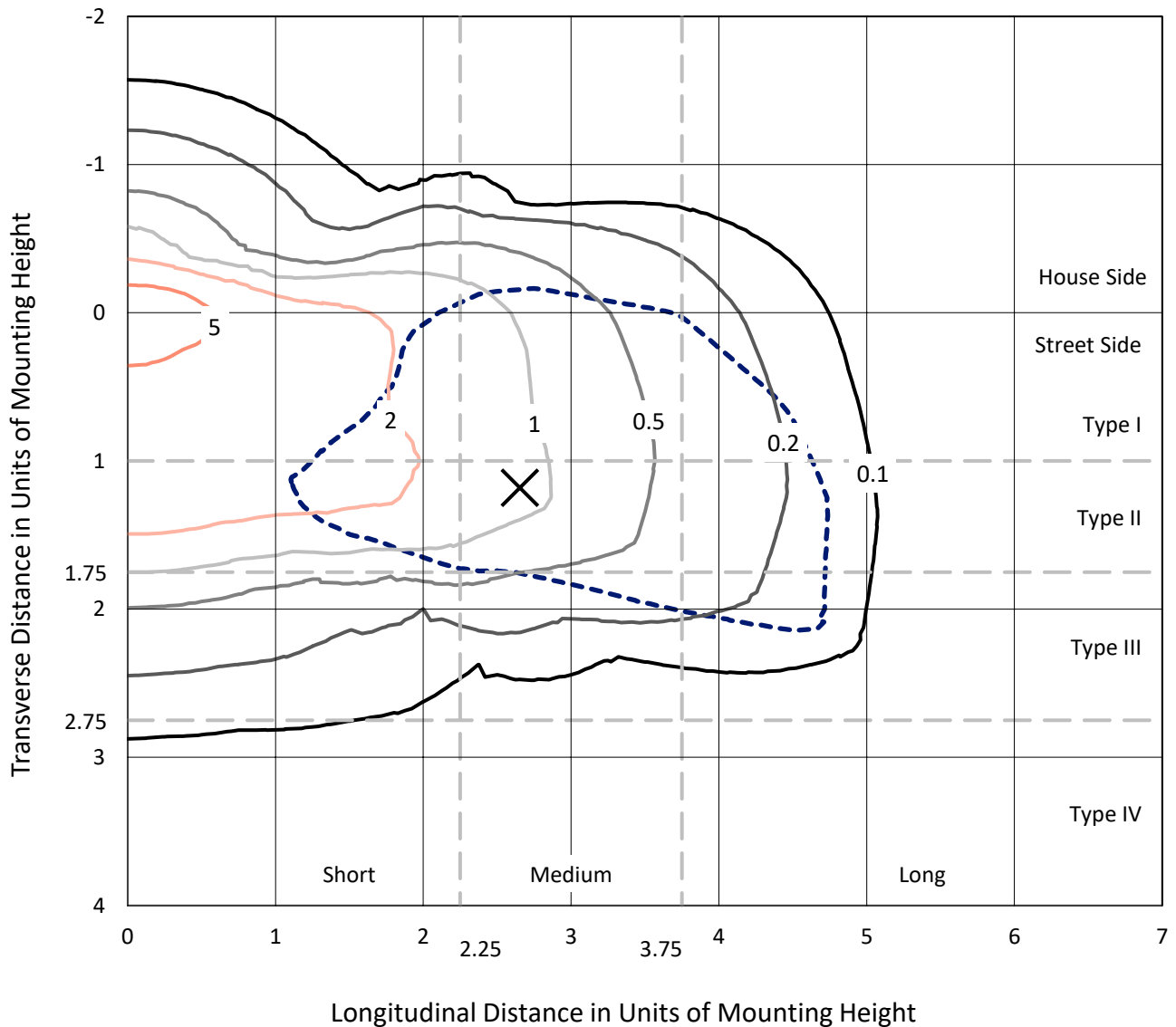
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

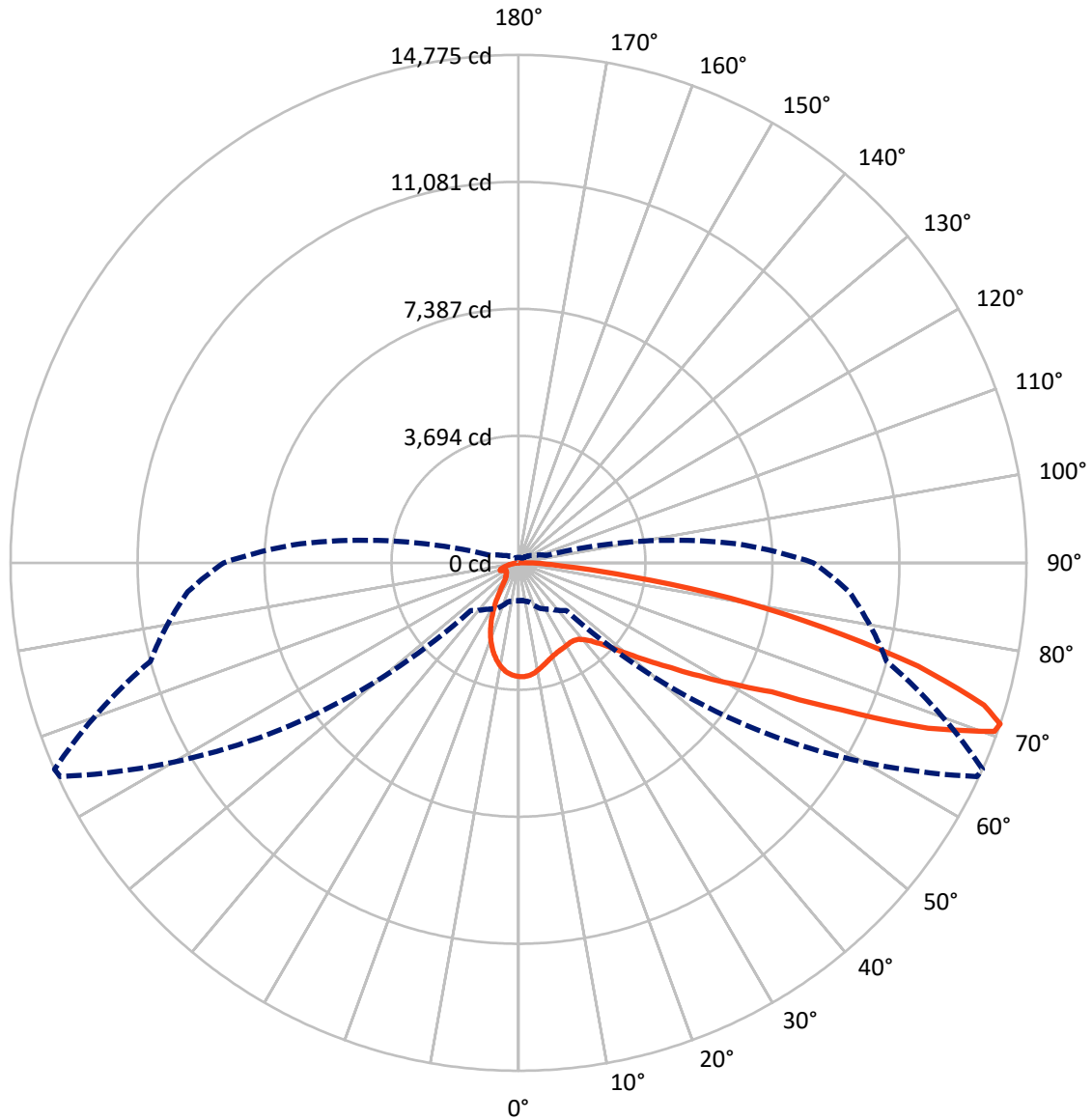
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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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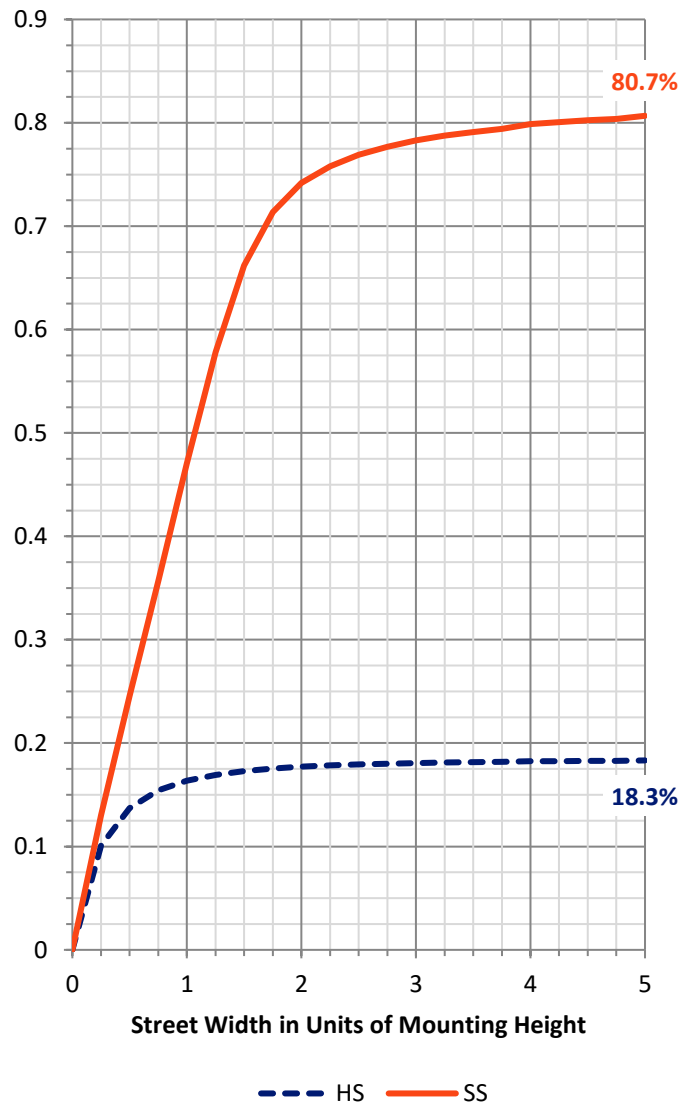
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.2	0.0	2677.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11768.8	0.0	11768.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	14446.0	0.0	14446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	2.0
10°-20°	698.7	4.8
20°-30°	938.5	6.5
30°-40°	1234.5	8.5
40°-50°	1795.9	12.4
50°-60°	2805.4	19.4
60°-70°	3514.3	24.3
70°-80°	2680.6	18.6
80°-90°	486.8	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°	14446.0	100.0
0°-180°	14446.0	100.0

Coefficient of Utilization

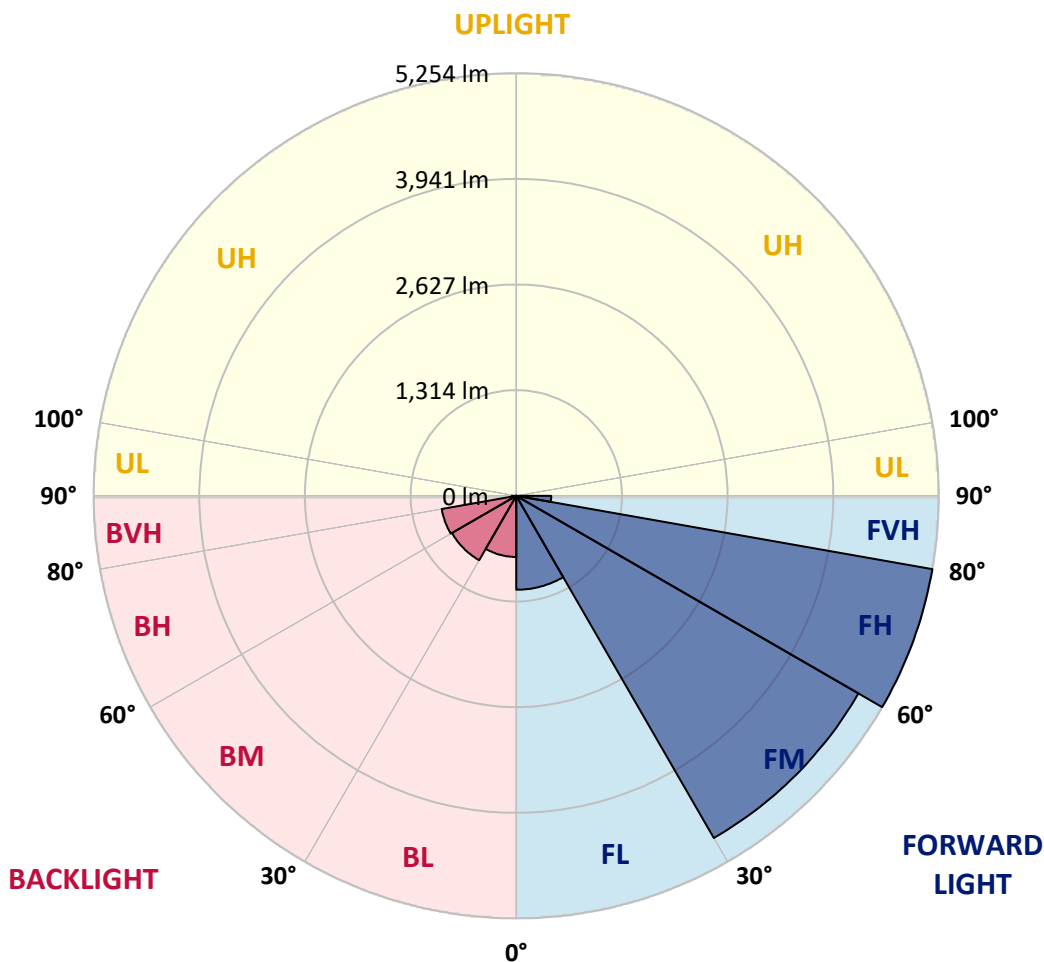


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.2	8.1			
FM (30°-60°)	4912.4	34.0			
FH (60°-80°)	5254.2	36.4			G3/7500
FVH (80°-90°)	434.1	3.0			G3/500
BL (0°-30°)	760.3	5.3	B2/1000		
BM (30°-60°)	923.6	6.4	B1/1000		
BH (60°-80°)	940.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	52.7	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°	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3
2.5°	3248.0	3243.0	3257.9	3273.4	3279.4	3289.3	3304.3	3312.8	3312.3	3313.8	3308.8
5°	3032.5	3026.0	3055.9	3080.4	3127.3	3180.1	3244.5	3290.3	3291.3	3317.3	3324.3
7.5°	2828.5	2824.0	2858.4	2897.8	2952.2	3033.0	3137.2	3236.0	3242.0	3312.3	3336.7
10°	2664.9	2663.9	2697.3	2740.2	2803.6	2893.8	3013.5	3158.2	3167.2	3288.4	3338.7
12.5°	2537.2	2539.2	2568.1	2617.0	2683.8	2778.1	2907.8	3070.9	3085.4	3250.4	3327.3
15°	2442.9	2450.9	2474.4	2523.7	2589.6	2685.3	2818.5	2990.1	3012.0	3208.0	3320.8
17.5°	2389.1	2398.1	2414.5	2455.4	2517.3	2609.5	2735.7	2923.8	2943.7	3175.6	3321.3
20°	2373.1	2380.6	2390.1	2415.0	2467.4	2551.2	2670.4	2863.9	2885.3	3149.7	3326.3
22.5°	2404.5	2410.0	2411.0	2409.0	2441.0	2509.3	2623.0	2820.0	2843.0	3132.7	3329.7
25°	2471.9	2479.4	2473.9	2455.4	2444.9	2486.8	2598.6	2791.1	2814.0	3120.3	3322.8
27.5°	2573.1	2574.1	2569.6	2545.7	2496.3	2489.3	2591.1	2774.1	2796.1	3105.8	3308.3
30°	2710.8	2717.3	2709.3	2676.9	2596.1	2529.2	2600.1	2757.7	2777.6	3087.3	3284.9
32.5°	2871.9	2887.8	2887.3	2853.4	2737.7	2618.5	2637.0	2747.7	2763.2	3067.9	3256.4
35°	3039.0	3060.9	3101.8	3087.3	2944.2	2759.7	2707.8	2763.7	2774.1	3065.4	3236.5
37.5°	3212.5	3234.5	3318.8	3357.7	3190.1	2961.7	2819.5	2820.0	2825.0	3095.8	3235.0
40°	3394.1	3417.5	3544.2	3645.5	3508.8	3217.5	2999.6	2937.7	2932.2	3170.6	3264.4
42.5°	3648.5	3669.4	3821.5	3950.7	3862.4	3545.2	3248.4	3119.3	3107.8	3317.3	3358.7
45°	3970.2	3988.1	4149.7	4287.9	4242.5	3919.3	3561.2	3369.2	3367.2	3561.7	3549.7
47.5°	4352.7	4366.7	4511.8	4645.5	4661.9	4349.7	3954.2	3754.7	3722.3	3896.8	3845.5
50°	4751.2	4766.7	4865.4	5009.1	5131.3	4925.8	4459.9	4227.0	4183.6	4339.2	4264.4
52.5°	5015.1	5035.5	5121.3	5303.4	5659.0	5557.2	5058.0	4799.6	4733.8	4875.4	4818.1
55°	4897.4	4943.2	5074.4	5366.2	6080.9	6521.8	5795.6	5467.5	5393.1	5510.8	5476.9
57.5°	4362.2	4425.0	4604.1	5054.5	6140.3	7371.7	6910.9	6254.0	6201.6	6167.7	6183.2
60°	3384.1	3444.5	3666.4	4253.5	5726.8	7992.2	8589.2	7223.6	7147.8	6827.1	6841.0
62.5°	2395.1	2364.6	2516.8	2946.2	4653.5	8065.0	10499.0	8520.4	8271.0	7523.4	7462.0
65°	1826.5	1819.5	1887.8	2024.5	2818.5	7193.7	11636.7	10700.0	10310.4	8342.3	8197.7
67.5°	1500.8	1488.3	1555.6	1754.7	1815.0	4641.0	11661.6	13228.7	12846.2	9361.8	9048.6
70°	1233.9	1220.0	1282.8	1539.7	1677.3	2353.7	9814.7	14709.5	14689.1	10652.6	9691.0
71°	1106.3	1096.3	1171.6	1456.9	1647.9	1961.6	8474.0	14713.5	14774.9	11089.5	9653.1
72.5°	900.8	904.3	984.1	1296.8	1626.0	1732.2	6228.1	14027.7	14157.4	11506.0	9308.4
75°	598.5	601.5	706.2	997.5	1576.6	1694.8	3423.0	11770.8	12009.2	11256.6	8494.0
77.5°	402.0	401.0	472.3	684.3	1373.6	1694.8	2007.0	8803.7	9065.5	8956.8	6548.3
80°	276.8	274.8	325.2	472.3	1039.9	1715.2	1551.7	6169.7	6249.0	4837.0	2661.4
82.5°	169.6	171.1	212.5	333.7	707.7	1543.7	1464.9	3364.2	3277.9	1356.6	664.9
85°	97.3	96.8	135.7	225.9	454.4	1302.8	1428.5	1447.9	1328.2	408.5	240.4
87.5°	34.9	37.4	72.8	125.2	260.4	907.3	1212.0	753.1	678.8	184.5	108.7
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°	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3	3309.3
2.5°	3305.3	3308.3	3304.8	3284.9	3267.9	3240.5	3225.0	3203.6	3197.1	3194.1	3202.1
5°	3317.8	3318.8	3289.3	3237.0	3178.1	3108.8	3058.9	2997.6	2968.6	2956.2	2964.2
7.5°	3329.2	3324.8	3260.4	3160.2	3051.4	2930.7	2823.5	2725.2	2667.9	2644.4	2646.4
10°	3330.7	3311.8	3208.5	3053.4	2884.9	2707.8	2543.2	2391.6	2295.8	2233.5	2252.4
12.5°	3315.3	3283.4	3132.2	2915.3	2681.4	2440.0	2217.5	1990.1	1853.4	1790.1	1792.1
15°	3303.3	3245.5	3038.5	2752.7	2438.5	2118.7	1815.0	1547.7	1402.0	1337.2	1306.8
17.5°	3293.3	3204.6	2929.7	2569.6	2151.7	1746.2	1381.1	1142.7	1062.9	1043.9	1035.9
20°	3279.4	3161.2	2808.5	2357.7	1825.0	1329.2	1008.5	890.8	891.3	913.2	916.2
22.5°	3259.9	3111.8	2679.4	2119.7	1474.3	968.1	790.5	756.6	791.0	832.9	840.4
25°	3231.0	3053.4	2535.7	1856.9	1124.2	744.2	675.3	673.8	715.7	759.6	766.1
27.5°	3190.1	2977.1	2376.1	1574.6	828.4	632.4	605.0	615.5	646.4	678.3	680.8
30°	3135.2	2888.3	2200.0	1276.8	649.4	563.1	560.1	569.6	588.5	611.0	613.0
32.5°	3074.9	2798.1	2012.0	988.6	556.1	525.7	528.7	533.2	542.2	551.1	553.1
35°	3020.0	2705.8	1819.5	751.1	511.7	501.3	499.3	498.3	499.3	496.3	496.8
37.5°	2984.6	2629.5	1619.0	598.0	486.3	479.8	473.8	466.3	457.9	452.9	453.9
40°	2971.6	2572.6	1416.0	516.7	465.3	460.9	449.4	433.4	423.5	420.5	420.5
42.5°	3006.5	2543.2	1220.0	475.8	447.9	440.4	421.5	403.0	395.5	395.0	394.5
45°	3113.3	2555.2	1033.4	453.4	431.9	417.5	392.5	377.1	372.1	373.1	372.6
47.5°	3304.8	2630.5	873.8	438.4	416.0	397.0	369.1	356.6	350.6	350.6	351.1
50°	3630.5	2806.5	746.6	425.9	402.5	378.1	352.1	336.7	328.7	328.2	328.2
52.5°	4104.8	3121.8	667.3	415.5	387.5	361.1	335.2	315.7	306.2	304.2	303.2
55°	4699.4	3573.6	645.4	408.5	367.6	342.7	314.7	295.3	284.8	280.3	279.8
57.5°	5364.2	4123.3	688.8	400.0	347.1	320.7	292.3	273.8	262.8	257.4	256.9
60°	6037.0	4723.3	865.9	388.0	330.2	296.8	269.3	252.4	241.4	235.4	234.4
62.5°	6710.9	5355.7	1227.5	387.0	318.2	273.8	245.9	231.4	221.0	214.5	213.0
65°	7471.0	6048.0	1638.4	413.5	314.2	252.9	221.9	210.5	201.5	195.5	195.0
67.5°	8343.8	6829.6	1599.0	467.8	327.7	233.9	199.5	190.5	184.0	179.1	178.6
70°	8753.3	6707.4	994.0	506.2	346.6	215.5	178.1	171.6	166.6	163.1	161.6
71°	8581.7	6368.7	833.4	501.8	344.6	207.5	169.6	164.6	159.6	156.6	155.1
72.5°	8113.9	5808.1	695.3	466.8	322.2	193.0	158.6	153.6	149.1	145.6	144.6
75°	7281.0	5187.1	556.6	373.1	256.9	163.1	139.2	133.7	130.2	128.2	126.2
77.5°	5352.2	3701.8	430.4	294.8	189.0	133.2	118.7	114.7	111.2	108.2	106.7
80°	2050.4	1433.9	289.8	220.0	138.7	105.2	95.8	93.8	90.3	88.3	88.3
82.5°	552.1	428.4	154.6	133.2	92.8	76.8	73.3	72.3	69.3	65.3	65.8
85°	223.4	189.0	86.8	73.3	56.9	45.4	49.4	49.9	46.4	41.4	41.9
87.5°	98.3	80.3	48.4	32.4	24.9	17.5	22.4	22.4	20.4	17.0	15.5
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)