

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: P387003

Luminaire Tested: GAW-SA2D-727-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387003  
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-SA2D-727-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 13544 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

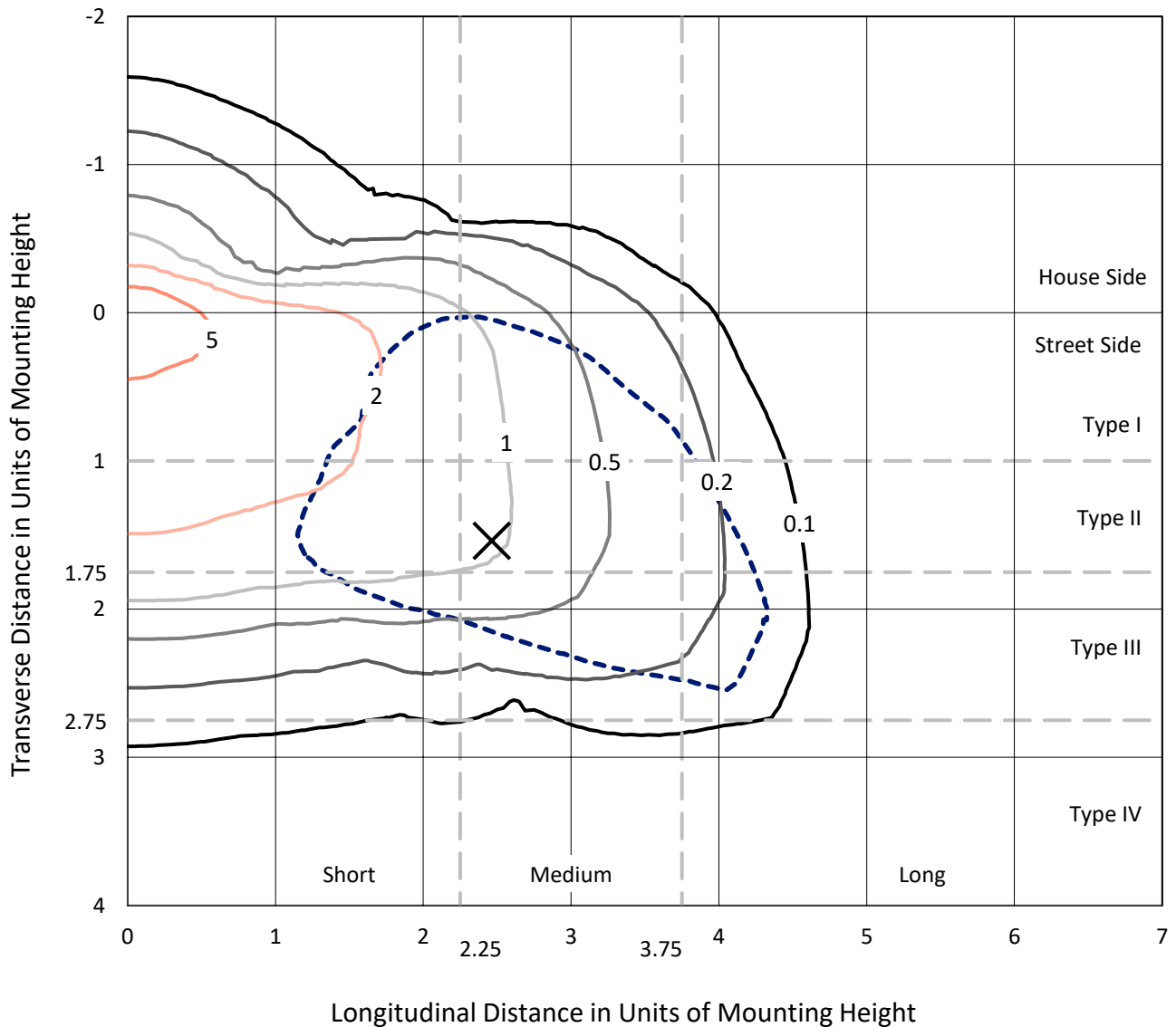
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

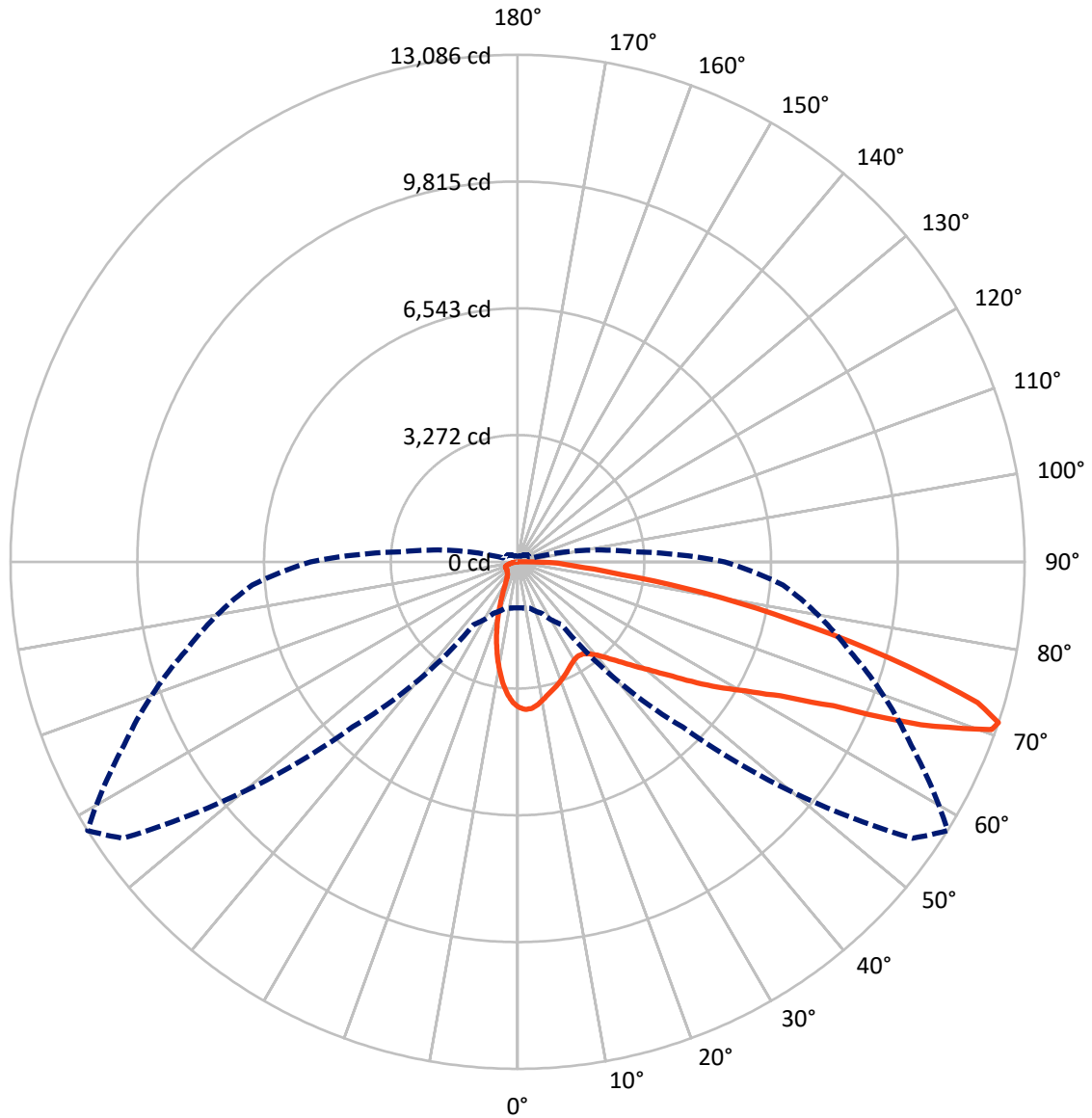
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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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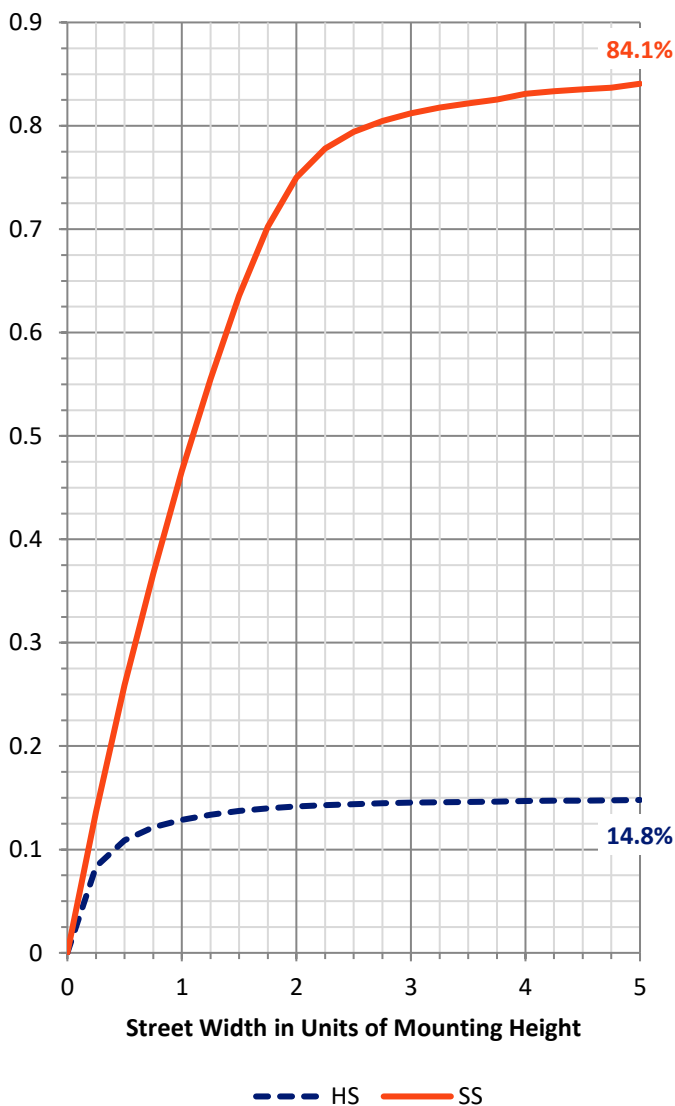
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2024.9	0.0	2024.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	11519.1	0.0	11519.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	13544.0	0.0	13544.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.7	2.4
10°-20°	719.9	5.3
20°-30°	914.9	6.8
30°-40°	1165.4	8.6
40°-50°	1652.6	12.2
50°-60°	2557.4	18.9
60°-70°	3481.6	25.7
70°-80°	2322.6	17.1
80°-90°	406.1	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°	13544.0	100.0
0°-180°	13544.0	100.0

**Coefficient of Utilization**

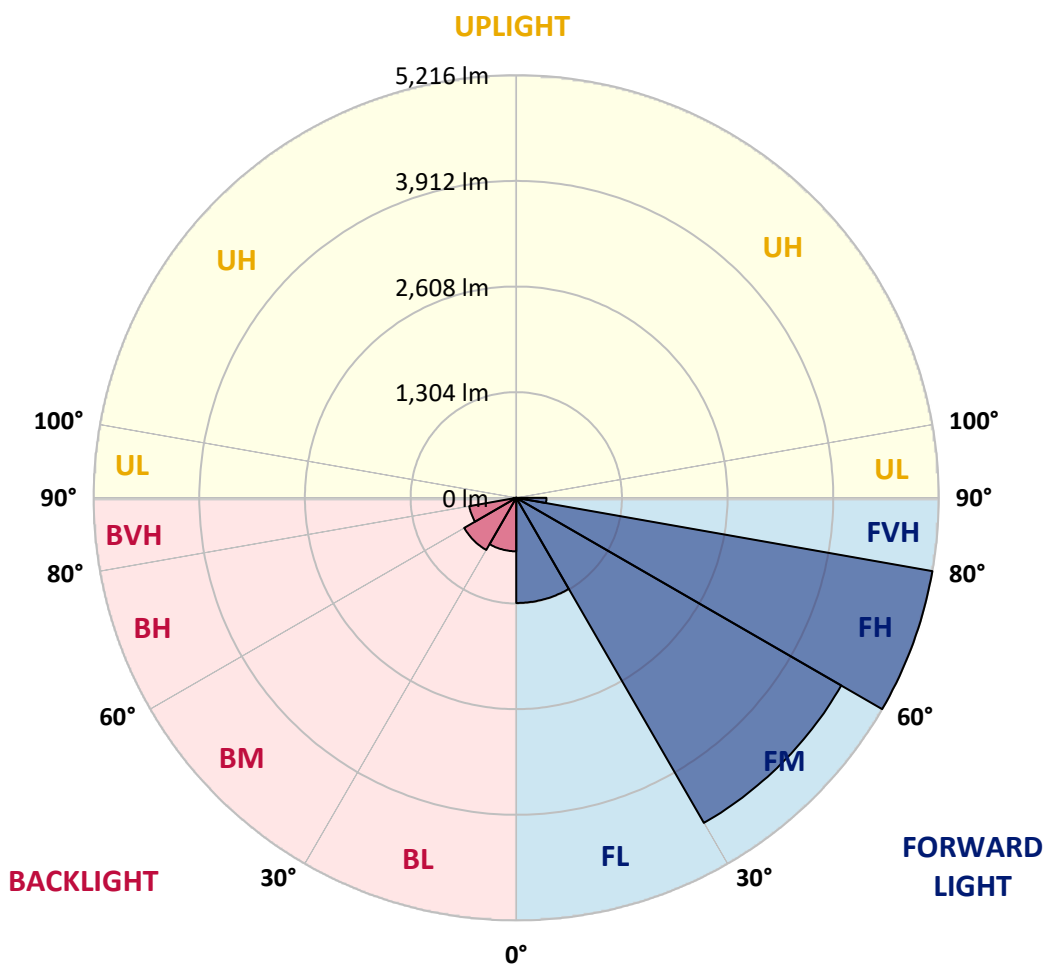


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.4	9.6			
FM (30°-60°)	4632.7	34.2			
FH (60°-80°)	5215.6	38.5			G3/7500
FVH (80°-90°)	372.3	2.7			G3/500
BL (0°-30°)	660.1	4.9	B2/1000		
BM (30°-60°)	742.6	5.5	B1/1000		
BH (60°-80°)	588.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.7	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°	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6
2.5°	3852.1	3847.0	3848.8	3845.1	3836.1	3827.1	3813.9	3816.3	3797.9	3770.5	3736.6
5°	3779.5	3777.6	3791.8	3799.8	3806.4	3801.2	3797.4	3802.1	3775.2	3737.5	3678.5
7.5°	3627.1	3606.3	3624.3	3651.2	3676.6	3696.0	3721.5	3724.8	3707.8	3668.1	3590.8
10°	3410.5	3390.7	3417.2	3459.1	3510.1	3556.3	3607.8	3617.2	3620.5	3584.6	3490.8
12.5°	3186.0	3170.9	3197.3	3256.3	3340.7	3412.0	3494.1	3508.2	3537.5	3513.4	3398.3
15°	2985.0	2979.3	3011.4	3069.4	3166.6	3275.6	3394.0	3420.0	3469.5	3461.5	3326.1
17.5°	2811.4	2810.0	2834.5	2895.4	3002.9	3140.7	3294.5	3338.4	3412.0	3421.4	3266.7
20°	2682.1	2679.3	2696.3	2741.1	2852.0	3008.1	3186.9	3247.3	3353.5	3386.5	3205.3
22.5°	2612.8	2612.3	2612.8	2634.0	2724.6	2869.9	3082.2	3155.8	3296.4	3358.7	3137.4
25°	2601.0	2599.5	2589.2	2586.8	2638.2	2754.3	2978.4	3059.5	3242.1	3339.3	3072.7
27.5°	2631.6	2633.5	2619.8	2597.7	2608.0	2678.3	2888.3	2975.1	3198.7	3335.5	3027.9
30°	2695.3	2694.4	2682.6	2659.5	2639.2	2650.0	2824.1	2910.9	3169.5	3352.0	2997.3
32.5°	2765.6	2770.8	2768.4	2755.7	2725.5	2682.1	2804.8	2889.7	3161.0	3391.7	2984.1
35°	2850.1	2855.7	2872.7	2882.6	2847.2	2777.4	2846.3	2919.9	3185.5	3466.2	3005.3
37.5°	2930.3	2944.9	2992.5	3034.5	3004.3	2926.5	2956.7	3009.1	3261.5	3583.7	3062.4
40°	3022.7	3035.5	3113.3	3202.5	3197.8	3117.1	3134.6	3169.5	3395.5	3752.1	3165.7
42.5°	3113.8	3139.3	3252.0	3378.5	3414.8	3343.6	3371.4	3389.8	3584.2	3975.3	3345.9
45°	3235.0	3262.4	3419.0	3571.4	3656.3	3616.2	3660.6	3667.7	3821.5	4279.1	3607.8
47.5°	3418.6	3449.7	3632.3	3792.2	3922.0	3926.2	3999.3	3996.5	4117.8	4626.8	3937.5
50°	3704.5	3749.3	3898.8	4048.4	4206.0	4293.7	4391.4	4377.7	4473.0	4997.2	4317.3
52.5°	4079.1	4099.8	4210.7	4321.1	4516.9	4713.6	4853.7	4841.5	4875.9	5377.9	4748.5
55°	4467.4	4482.9	4528.7	4589.1	4852.3	5173.1	5469.4	5450.1	5362.8	5773.3	5174.6
57.5°	4816.5	4848.1	4879.7	4904.7	5190.1	5653.4	6099.3	6100.7	5891.2	6199.8	5614.7
60°	4870.7	4898.6	5107.6	5304.8	5768.1	6294.1	6773.4	6759.3	6438.0	6662.6	6105.4
62.5°	4305.5	4368.3	4717.4	5242.0	6324.8	7466.0	7633.5	7616.1	7091.9	7233.0	6676.7
65°	3085.5	3156.7	3578.0	4366.4	6054.9	8757.3	9185.7	8950.7	7983.6	7934.5	7345.7
67.5°	1780.1	1797.0	1979.6	2612.8	4610.3	8824.8	11553.6	11224.8	9368.3	8730.4	7673.1
70°	1316.3	1315.8	1359.2	1607.8	2494.8	7202.3	12679.7	12974.6	10826.1	8992.3	7210.3
71°	1190.3	1191.7	1240.3	1463.5	1975.8	6028.5	12440.6	13086.0	11210.1	8863.0	6875.4
72.5°	1018.1	1022.8	1090.3	1312.5	1662.1	4157.4	11410.2	12417.9	11392.2	8544.1	6351.2
75°	772.3	783.2	876.6	1106.3	1519.2	2108.4	8374.2	9916.0	10120.3	7539.2	4719.3
77.5°	551.0	563.3	669.0	930.4	1444.1	1589.0	5608.1	7233.0	7447.6	4831.6	2128.7
80°	348.2	362.8	442.5	740.2	1356.9	1508.8	3524.2	4861.8	4061.1	1546.0	541.6
82.5°	204.3	215.6	274.6	483.6	1108.2	1453.1	2073.5	2694.8	1580.5	467.1	246.3
85°	118.4	123.6	171.3	308.1	804.9	1371.5	1523.4	1506.4	686.0	228.3	116.5
87.5°	55.2	61.3	101.4	160.9	446.8	994.1	1204.0	1040.3	426.5	107.1	54.7
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°	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6	3752.6
2.5°	3720.0	3712.0	3678.5	3648.8	3617.7	3577.1	3532.3	3526.6	3499.2	3504.4	3495.0
5°	3646.4	3626.2	3545.5	3472.4	3386.0	3308.6	3224.7	3186.0	3130.3	3126.5	3112.4
7.5°	3541.2	3503.5	3378.5	3239.8	3101.1	2969.0	2838.3	2752.4	2664.7	2627.4	2624.1
10°	3422.8	3358.7	3174.7	2969.4	2769.4	2576.4	2389.6	2251.4	2126.8	2067.8	2065.5
12.5°	3310.5	3215.7	2963.3	2684.0	2410.4	2160.3	1904.1	1722.5	1566.3	1514.0	1491.8
15°	3215.2	3081.7	2757.6	2400.5	2068.3	1721.1	1429.5	1238.4	1094.1	1044.1	1034.6
17.5°	3122.8	2951.0	2546.7	2114.1	1712.6	1330.9	1038.9	896.9	820.0	799.7	799.2
20°	3030.8	2816.6	2326.4	1821.1	1368.7	995.5	798.7	735.0	709.1	706.7	703.0
22.5°	2926.5	2674.1	2094.7	1527.2	1068.1	782.7	678.9	653.4	650.1	658.6	658.6
25°	2828.8	2532.6	1859.8	1239.4	830.8	653.0	606.2	601.1	610.0	625.1	626.5
27.5°	2737.8	2396.2	1630.5	983.7	665.7	575.1	555.8	561.9	577.9	595.4	595.9
30°	2662.8	2267.4	1407.8	775.1	562.4	517.1	513.8	526.0	543.5	557.2	560.5
32.5°	2604.7	2157.5	1192.7	623.2	494.9	473.7	476.5	486.9	497.7	505.3	510.5
35°	2577.8	2063.1	994.1	525.6	452.0	440.2	444.0	449.6	454.3	460.0	464.2
37.5°	2582.6	1990.0	816.7	464.7	423.2	417.1	417.1	417.1	417.1	419.9	420.4
40°	2626.4	1948.0	672.3	426.0	403.8	397.2	392.1	387.3	383.6	385.4	384.5
42.5°	2738.7	1944.2	566.6	401.5	388.3	377.4	367.1	360.4	355.7	357.6	358.6
45°	2929.3	1991.4	495.4	384.0	373.7	357.1	343.9	336.9	333.6	339.7	340.6
47.5°	3176.1	2094.3	452.0	371.3	360.0	338.3	324.1	317.5	318.5	327.4	329.8
50°	3494.1	2261.3	431.2	363.3	350.5	322.2	307.6	301.9	304.8	317.5	320.3
52.5°	3843.2	2501.9	433.6	360.9	344.4	310.4	294.9	288.3	293.0	304.8	307.1
55°	4246.1	2791.1	472.7	364.2	335.4	302.9	284.5	273.2	276.9	287.8	289.7
57.5°	4693.8	3122.3	551.5	363.3	324.1	295.8	273.6	256.7	259.5	266.1	268.0
60°	5159.9	3522.4	673.7	366.1	318.9	287.3	259.0	237.8	236.8	242.5	243.4
62.5°	5719.5	3985.2	813.4	368.0	322.2	276.5	239.7	218.9	216.1	217.5	218.4
65°	6296.0	4320.2	761.0	360.4	332.6	267.5	222.7	200.5	195.3	194.4	194.8
67.5°	6313.9	3961.1	533.6	345.3	336.9	262.8	209.9	184.9	176.4	173.1	172.7
70°	5662.4	3218.1	415.6	329.3	319.9	255.2	198.2	172.2	159.5	154.3	153.8
71°	5344.4	2962.4	393.9	321.3	307.1	247.7	193.0	166.5	153.3	147.7	146.7
72.5°	4845.7	2655.7	367.5	308.5	282.6	228.3	183.1	158.5	144.8	138.2	136.8
75°	3477.5	1736.6	315.6	275.1	234.0	182.1	160.4	142.5	130.7	122.7	121.7
77.5°	1339.9	691.2	238.7	228.8	179.3	142.5	132.1	123.1	114.6	106.6	106.2
80°	414.2	309.0	174.1	172.2	129.7	106.2	102.8	100.5	97.2	88.7	86.8
82.5°	221.3	177.4	119.8	111.3	84.9	70.8	74.5	75.5	76.0	67.0	66.1
85°	105.7	93.9	67.5	63.2	49.5	39.6	45.8	49.5	50.0	41.0	38.2
87.5°	50.5	49.1	31.6	24.1	18.4	13.2	16.0	19.8	21.7	15.6	13.7
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)