

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319347

Luminaire Tested: **GAN-SA3A-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319347
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 13937 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

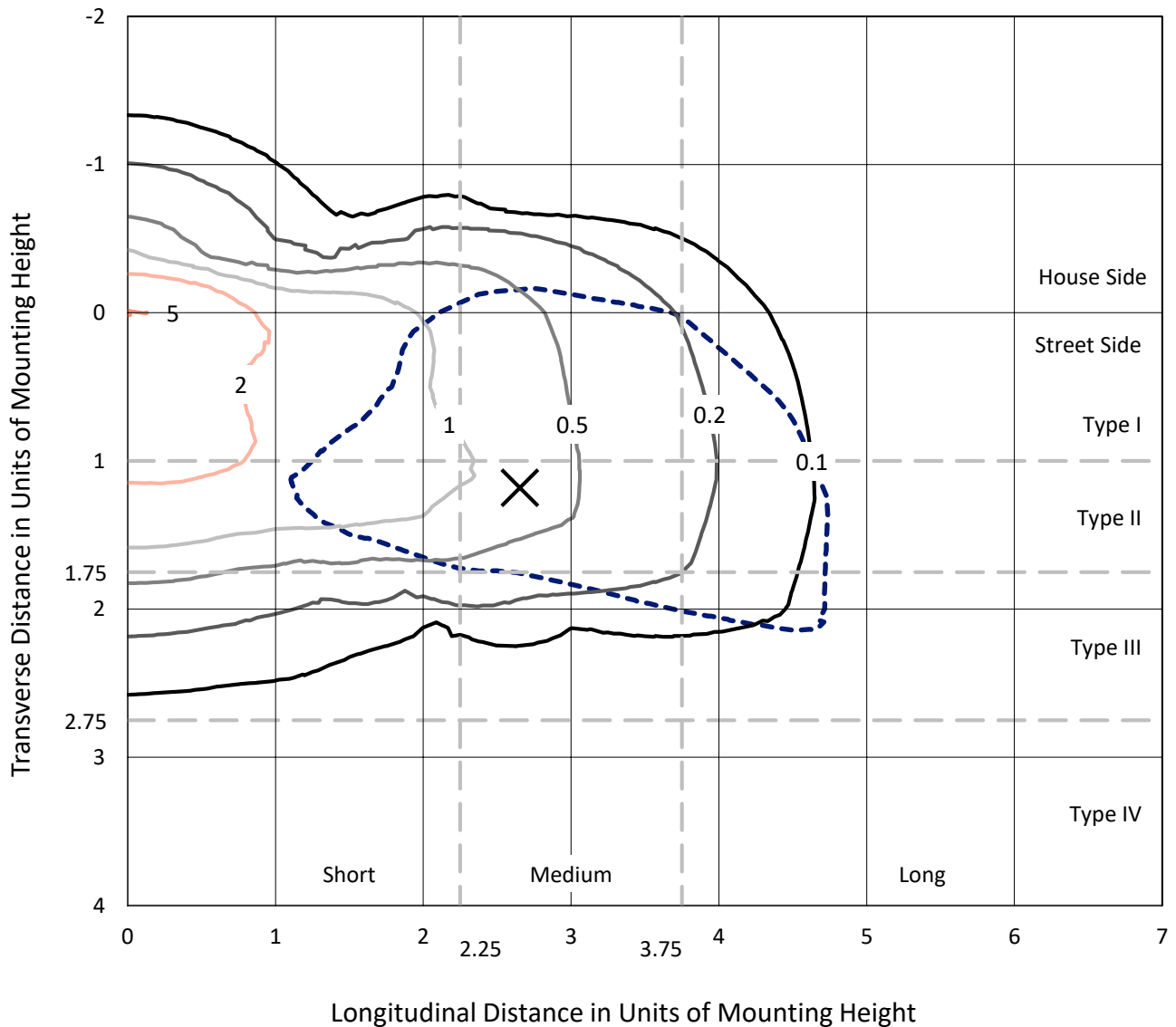
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

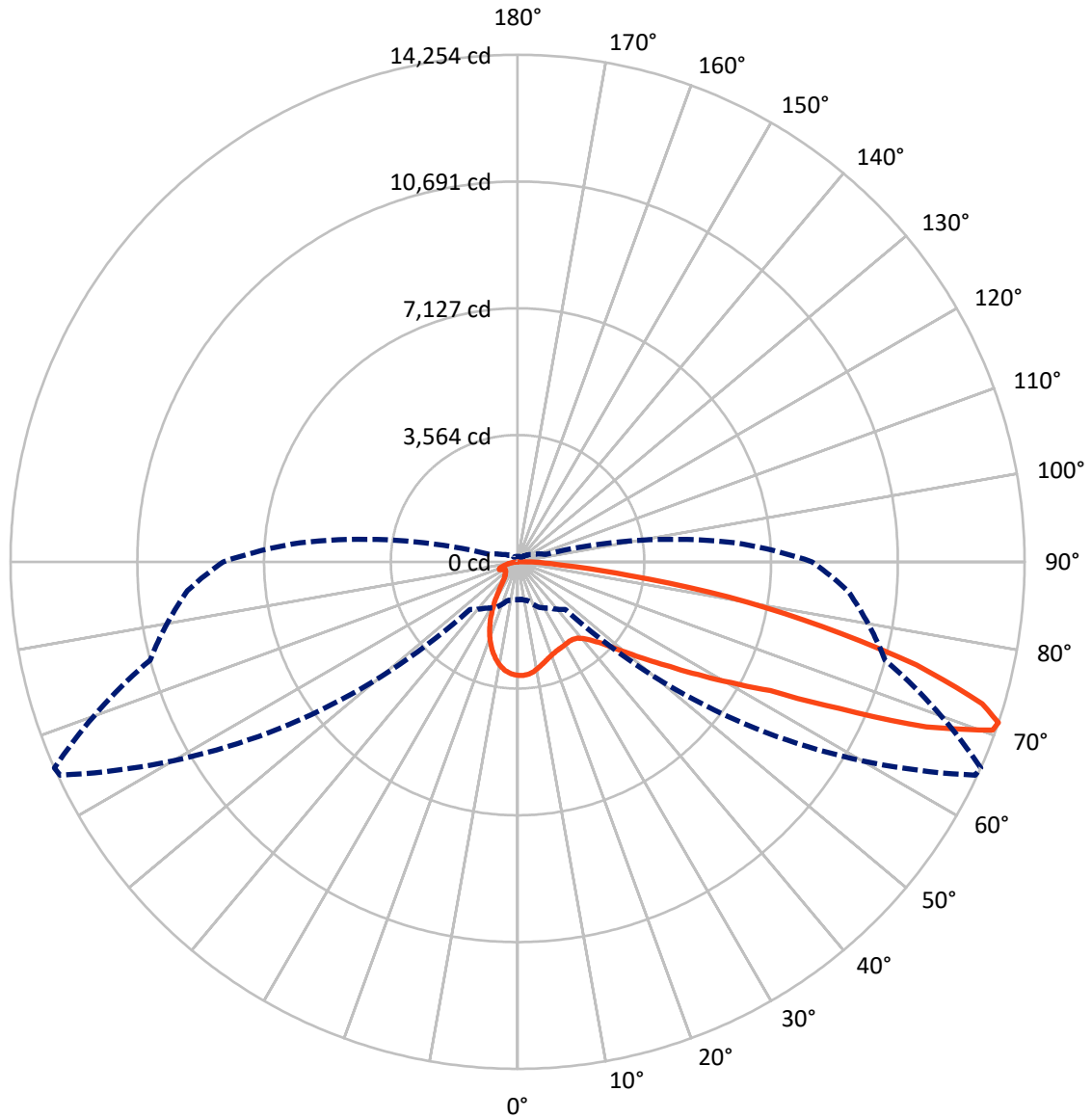
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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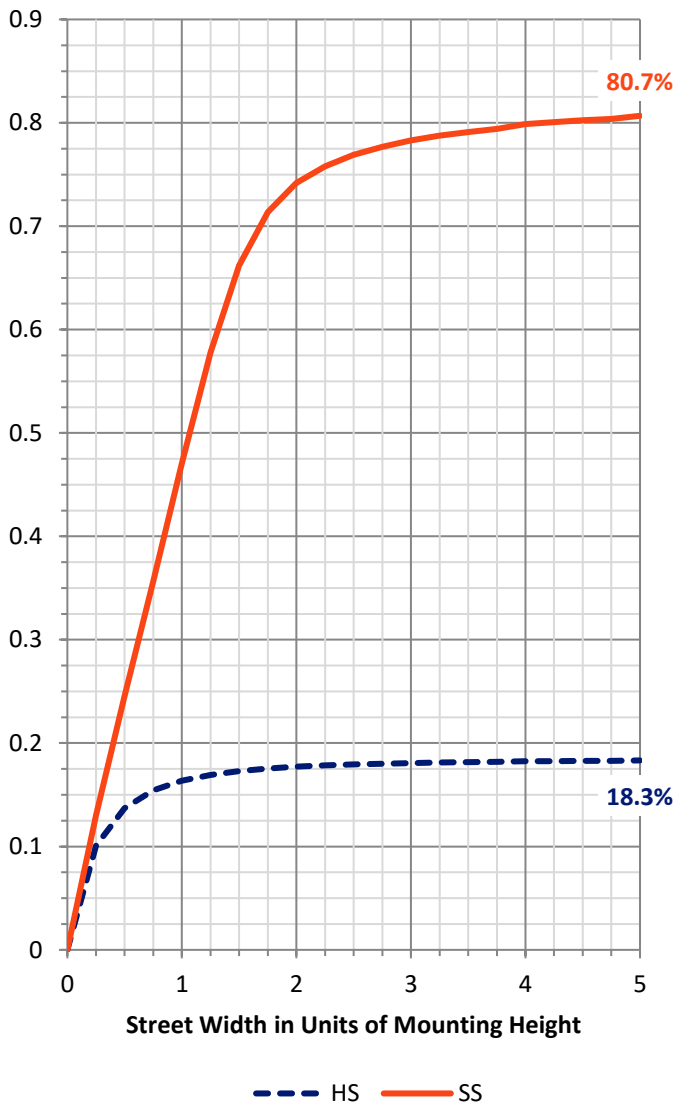
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.9	0.0	2582.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11354.1	0.0	11354.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	13937.0	0.0	13937.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	2.0
10°-20°	674.0	4.8
20°-30°	905.4	6.5
30°-40°	1191.0	8.5
40°-50°	1732.7	12.4
50°-60°	2706.6	19.4
60°-70°	3390.4	24.3
70°-80°	2586.2	18.6
80°-90°	469.6	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°	13937.0	100.0
0°-180°	13937.0	100.0

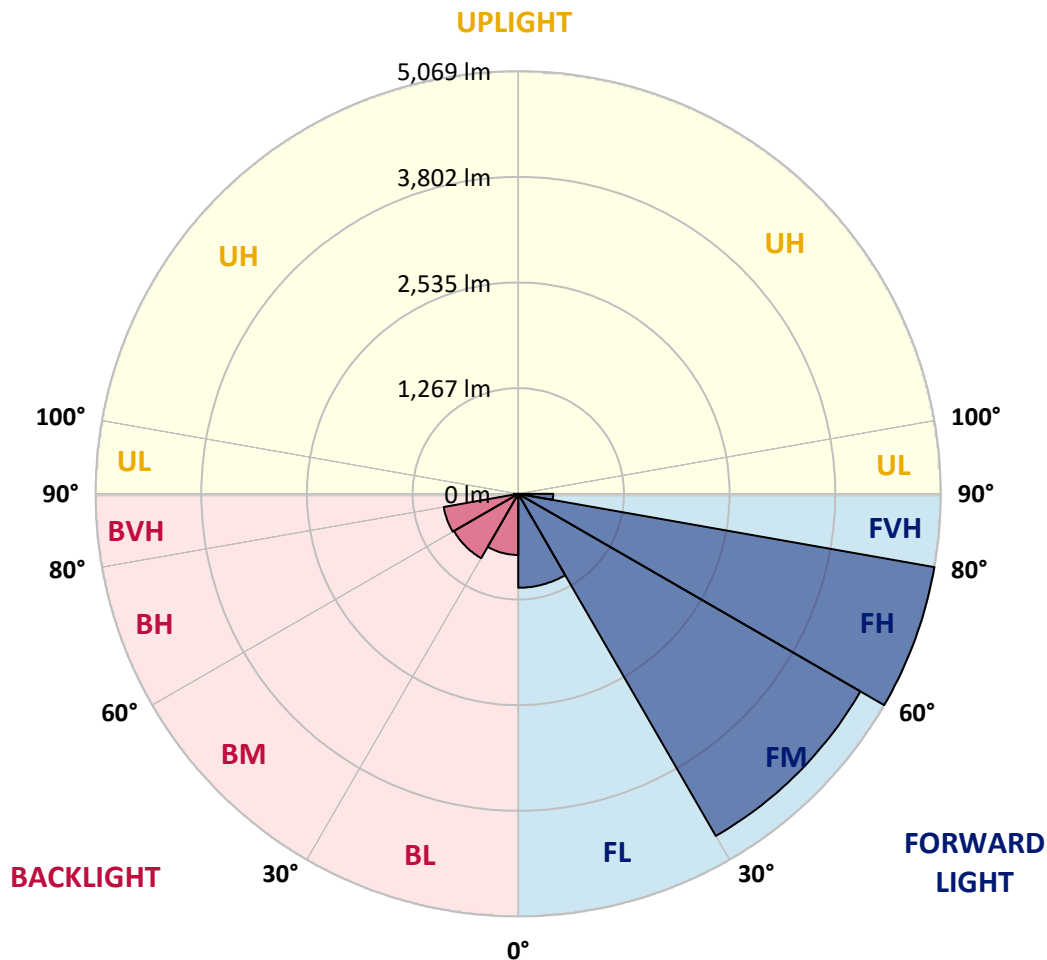


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.0	8.1			
FM (30°-60°)	4739.3	34.0			
FH (60°-80°)	5069.0	36.4			G3/7500
FVH (80°-90°)	418.8	3.0			G3/500
BL (0°-30°)	733.5	5.3	B2/1000		
BM (30°-60°)	891.0	6.4	B1/1000		
BH (60°-80°)	907.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	50.8	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°	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7
2.5°	3133.5	3128.7	3143.1	3158.1	3163.8	3173.4	3187.9	3196.1	3195.6	3197.0	3192.2
5°	2925.6	2919.4	2948.3	2971.8	3017.1	3068.1	3130.1	3174.4	3175.4	3200.4	3207.1
7.5°	2728.8	2724.5	2757.7	2795.7	2848.2	2926.1	3026.7	3122.0	3127.7	3195.6	3219.2
10°	2571.0	2570.0	2602.3	2643.7	2704.8	2791.9	2907.4	3046.9	3055.6	3172.5	3221.1
12.5°	2447.8	2449.7	2477.6	2524.8	2589.3	2680.2	2805.3	2962.7	2976.6	3135.9	3210.0
15°	2356.9	2364.6	2387.2	2434.8	2498.3	2590.7	2719.2	2884.7	2905.9	3095.0	3203.8
17.5°	2304.9	2313.6	2329.4	2368.9	2428.6	2517.6	2639.3	2820.7	2840.0	3063.7	3204.2
20°	2289.5	2296.7	2305.9	2329.9	2380.4	2461.3	2576.3	2763.0	2783.7	3038.7	3209.1
22.5°	2319.8	2325.1	2326.1	2324.1	2354.9	2420.9	2530.6	2720.6	2742.8	3022.4	3212.4
25°	2384.8	2392.0	2386.7	2368.9	2358.8	2399.2	2507.0	2692.7	2714.9	3010.3	3205.7
27.5°	2482.5	2483.4	2479.1	2456.0	2408.4	2401.6	2499.8	2676.4	2697.6	2996.4	3191.7
30°	2615.3	2621.5	2613.8	2582.5	2504.6	2440.1	2508.4	2660.5	2679.7	2978.6	3169.1
32.5°	2770.7	2786.1	2785.6	2752.9	2641.3	2526.2	2544.1	2650.9	2665.8	2959.8	3141.7
35°	2931.9	2953.1	2992.5	2978.6	2840.5	2662.4	2612.4	2666.3	2676.4	2957.4	3122.4
37.5°	3099.3	3120.5	3201.8	3239.4	3077.7	2857.3	2720.2	2720.6	2725.5	2986.7	3121.0
40°	3274.5	3297.1	3419.3	3517.0	3385.2	3104.2	2893.9	2834.2	2828.9	3058.9	3149.4
42.5°	3519.9	3540.1	3686.9	3811.5	3726.3	3420.3	3134.0	3009.4	2998.3	3200.4	3240.3
45°	3830.3	3847.6	4003.5	4136.8	4093.0	3781.2	3435.7	3250.4	3248.5	3436.2	3424.6
47.5°	4199.3	4212.8	4352.8	4481.8	4497.7	4196.5	3814.9	3622.4	3591.1	3759.5	3710.0
50°	4583.8	4598.7	4694.0	4832.6	4950.5	4752.2	4302.8	4078.1	4036.2	4186.4	4114.2
52.5°	4838.4	4858.1	4940.9	5116.5	5459.6	5361.4	4879.7	4630.5	4567.0	4703.6	4648.3
55°	4724.8	4769.1	4895.6	5177.1	5866.7	6292.0	5591.4	5274.8	5203.1	5316.7	5283.9
57.5°	4208.5	4269.1	4441.9	4876.4	5923.9	7112.0	6667.4	6033.6	5983.1	5950.4	5965.3
60°	3264.9	3323.1	3537.2	4103.6	5525.0	7710.6	8286.6	6969.1	6895.9	6586.5	6600.0
62.5°	2310.7	2281.3	2428.1	2842.4	4489.5	7780.8	10129.1	8220.2	7979.6	7258.3	7199.1
65°	1762.1	1755.4	1821.3	1953.2	2719.2	6940.2	11226.6	10323.0	9947.2	8048.4	7908.8
67.5°	1447.9	1435.9	1500.8	1692.8	1751.1	4477.5	11250.7	12762.6	12393.5	9031.9	8729.8
70°	1190.5	1177.0	1237.6	1485.4	1618.2	2270.7	9468.9	14191.3	14171.5	10277.3	9349.5
71°	1067.3	1057.7	1130.3	1405.6	1589.9	1892.5	8175.4	14195.1	14254.3	10698.8	9313.0
72.5°	869.0	872.4	949.4	1251.1	1568.7	1671.2	6008.6	13533.5	13658.6	11100.6	8980.5
75°	577.4	580.3	681.4	962.4	1521.0	1635.1	3302.4	11356.1	11586.1	10860.0	8194.7
77.5°	387.8	386.9	455.7	660.2	1325.2	1635.1	1936.3	8493.5	8746.1	8641.2	6317.5
80°	267.1	265.1	313.7	455.7	1003.3	1654.8	1497.0	5952.3	6028.8	4666.6	2567.6
82.5°	163.6	165.0	205.0	321.9	682.8	1489.3	1413.3	3245.6	3162.4	1308.8	641.4
85°	93.8	93.4	130.9	218.0	438.4	1256.9	1378.1	1396.9	1281.4	394.1	231.9
87.5°	33.7	36.1	70.3	120.8	251.2	875.3	1169.3	726.6	654.9	178.0	104.9
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°	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7	3192.7
2.5°	3188.8	3191.7	3188.4	3169.1	3152.8	3126.3	3111.4	3090.7	3084.4	3081.5	3089.2
5°	3200.9	3201.8	3173.4	3122.9	3066.1	2999.3	2951.1	2892.0	2864.0	2852.0	2859.7
7.5°	3211.9	3207.6	3145.5	3048.8	2943.9	2827.5	2724.0	2629.2	2573.9	2551.3	2553.2
10°	3213.4	3195.1	3095.5	2945.8	2783.2	2612.4	2453.6	2307.3	2214.9	2154.8	2173.1
12.5°	3198.5	3167.7	3021.9	2812.6	2586.9	2354.0	2139.4	1919.9	1788.1	1727.0	1728.9
15°	3186.9	3131.1	2931.4	2655.7	2352.5	2044.1	1751.1	1493.1	1352.6	1290.1	1260.7
17.5°	3177.3	3091.6	2826.5	2479.1	2075.9	1684.6	1332.4	1102.4	1025.4	1007.1	999.4
20°	3163.8	3049.8	2709.6	2274.6	1760.7	1282.4	973.0	859.4	859.9	881.1	883.9
22.5°	3145.1	3002.1	2585.0	2045.1	1422.4	934.0	762.7	730.0	763.2	803.6	810.8
25°	3117.2	2945.8	2446.4	1791.5	1084.6	717.9	651.5	650.1	690.5	732.9	739.1
27.5°	3077.7	2872.2	2292.4	1519.1	799.3	610.1	583.7	593.8	623.6	654.4	656.8
30°	3024.8	2786.6	2122.5	1231.8	626.5	543.3	540.4	549.5	567.8	589.5	591.4
32.5°	2966.5	2699.5	1941.1	953.7	536.5	507.2	510.1	514.4	523.1	531.7	533.6
35°	2913.6	2610.5	1755.4	724.7	493.7	483.6	481.7	480.7	481.7	478.8	479.3
37.5°	2879.4	2536.8	1561.9	576.9	469.2	462.9	457.1	449.9	441.7	436.9	437.9
40°	2866.9	2482.0	1366.1	498.5	449.0	444.6	433.6	418.2	408.5	405.6	405.6
42.5°	2900.6	2453.6	1177.0	459.1	432.1	424.9	406.6	388.8	381.6	381.1	380.6
45°	3003.6	2465.1	997.0	437.4	416.7	402.8	378.7	363.8	359.0	359.9	359.4
47.5°	3188.4	2537.8	843.0	423.0	401.3	383.0	356.1	344.1	338.3	338.3	338.8
50°	3502.6	2707.7	720.3	410.9	388.3	364.7	339.7	324.8	317.1	316.6	316.6
52.5°	3960.2	3011.8	643.8	400.8	373.9	348.4	323.4	304.6	295.5	293.5	292.6
55°	4533.8	3447.7	622.7	394.1	354.6	330.6	303.6	284.9	274.8	270.4	269.9
57.5°	5175.2	3978.0	664.5	385.9	334.9	309.4	282.0	264.2	253.6	248.3	247.8
60°	5824.3	4556.9	835.3	374.4	318.5	286.3	259.8	243.5	232.9	227.1	226.2
62.5°	6474.4	5167.0	1184.2	373.4	307.0	264.2	237.2	223.3	213.2	206.9	205.5
65°	7207.7	5834.9	1580.7	398.9	303.1	244.0	214.1	203.1	194.4	188.6	188.1
67.5°	8049.8	6588.9	1542.7	451.4	316.1	225.7	192.5	183.8	177.6	172.7	172.3
70°	8444.9	6471.0	959.0	488.4	334.4	207.9	171.8	165.5	160.7	157.3	155.9
71°	8279.4	6144.3	804.1	484.1	332.5	200.2	163.6	158.8	154.0	151.1	149.7
72.5°	7828.0	5603.5	670.8	450.4	310.8	186.2	153.0	148.2	143.9	140.5	139.5
75°	7024.4	5004.4	537.0	359.9	247.8	157.3	134.3	129.0	125.6	123.7	121.7
77.5°	5163.7	3571.4	415.3	284.4	182.4	128.5	114.5	110.7	107.3	104.4	103.0
80°	1978.2	1383.4	279.6	212.2	133.8	101.5	92.4	90.5	87.1	85.2	85.2
82.5°	532.7	413.3	149.2	128.5	89.5	74.1	70.7	69.8	66.9	63.0	63.5
85°	215.6	182.4	83.7	70.7	54.9	43.8	47.6	48.1	44.8	39.9	40.4
87.5°	94.8	77.5	46.7	31.3	24.1	16.8	21.7	21.7	19.7	16.4	14.9
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)