

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: P319307

Luminaire Tested: **GAN-SA3A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319307
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-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 12693 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

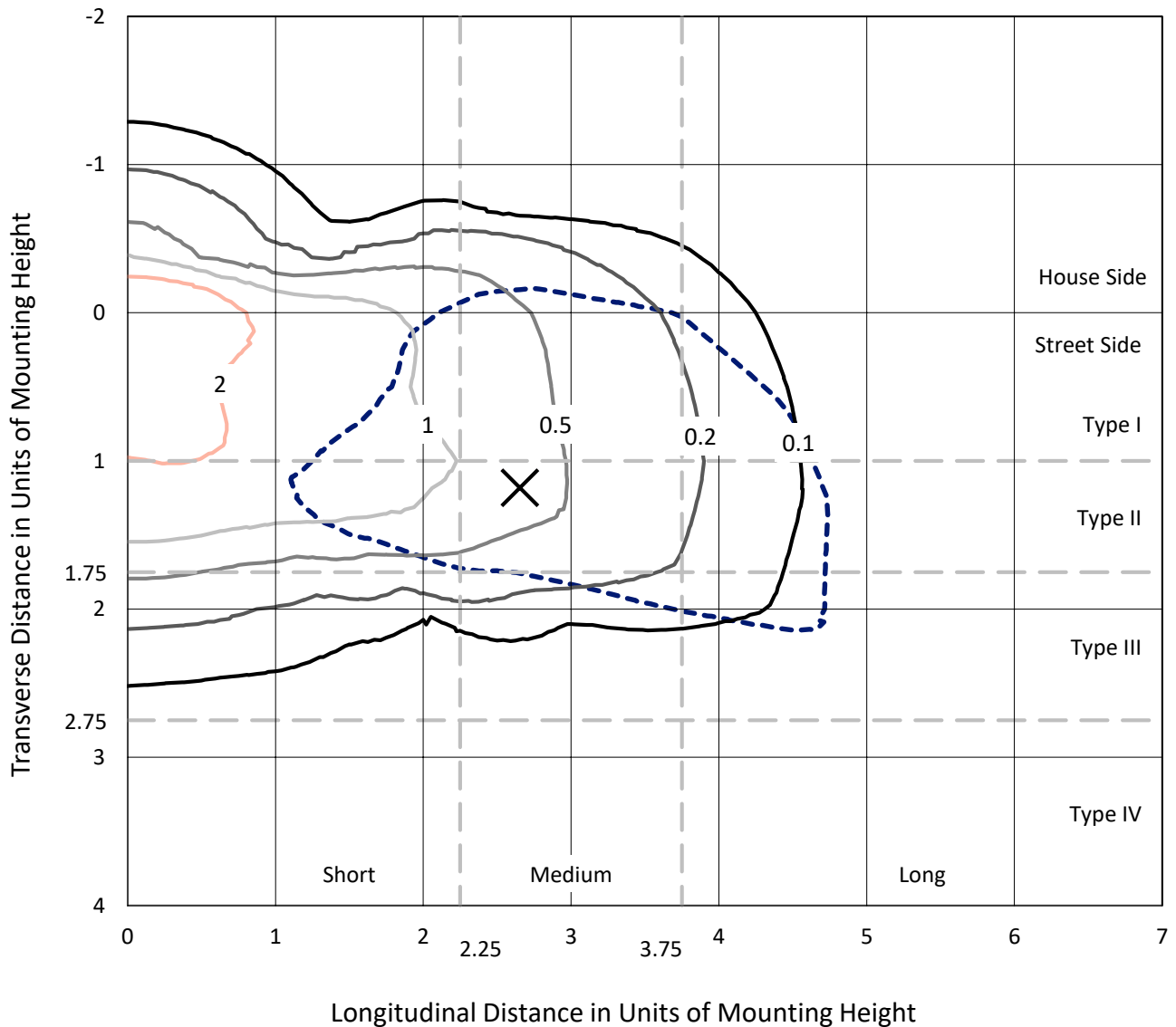
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

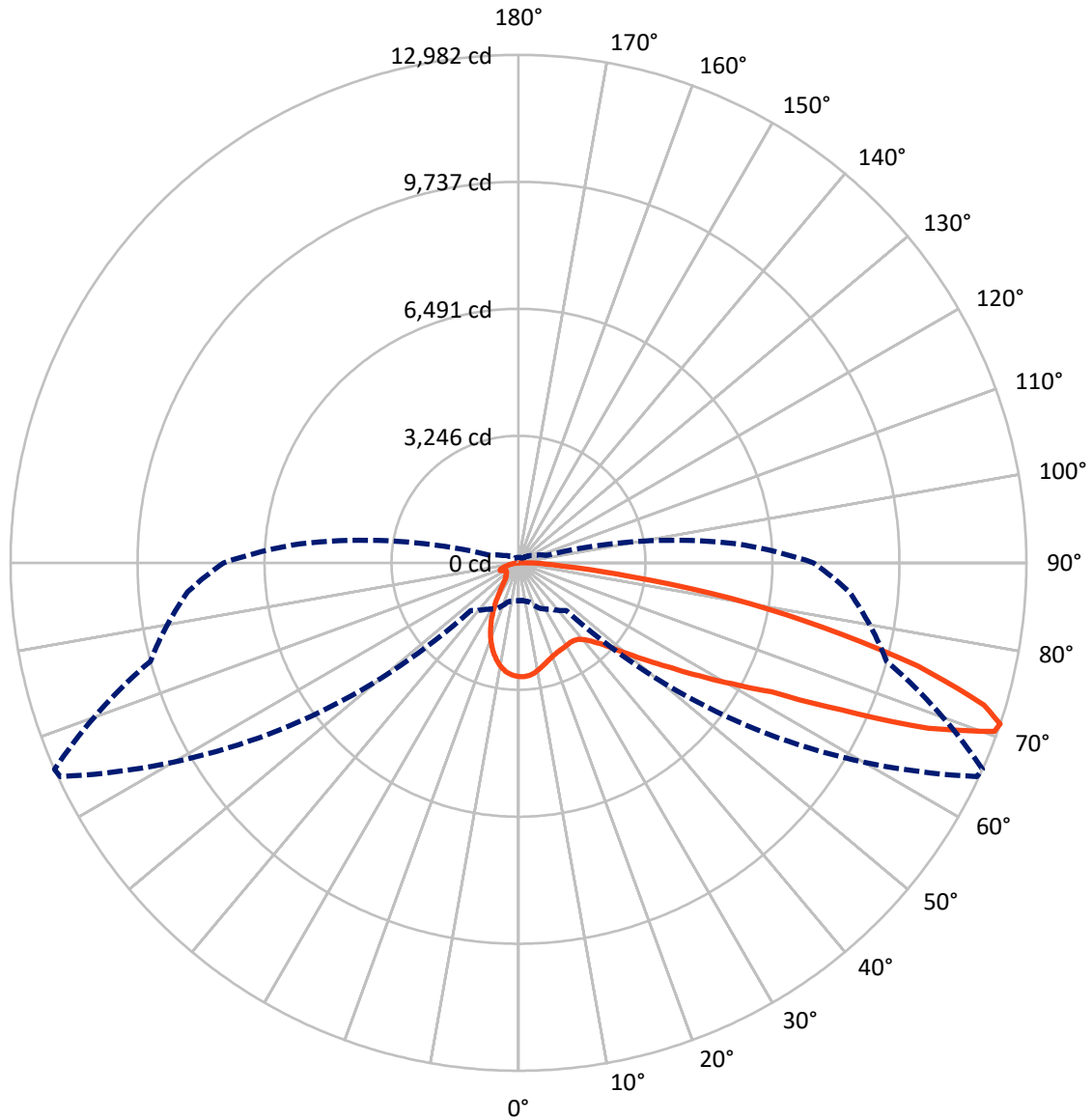
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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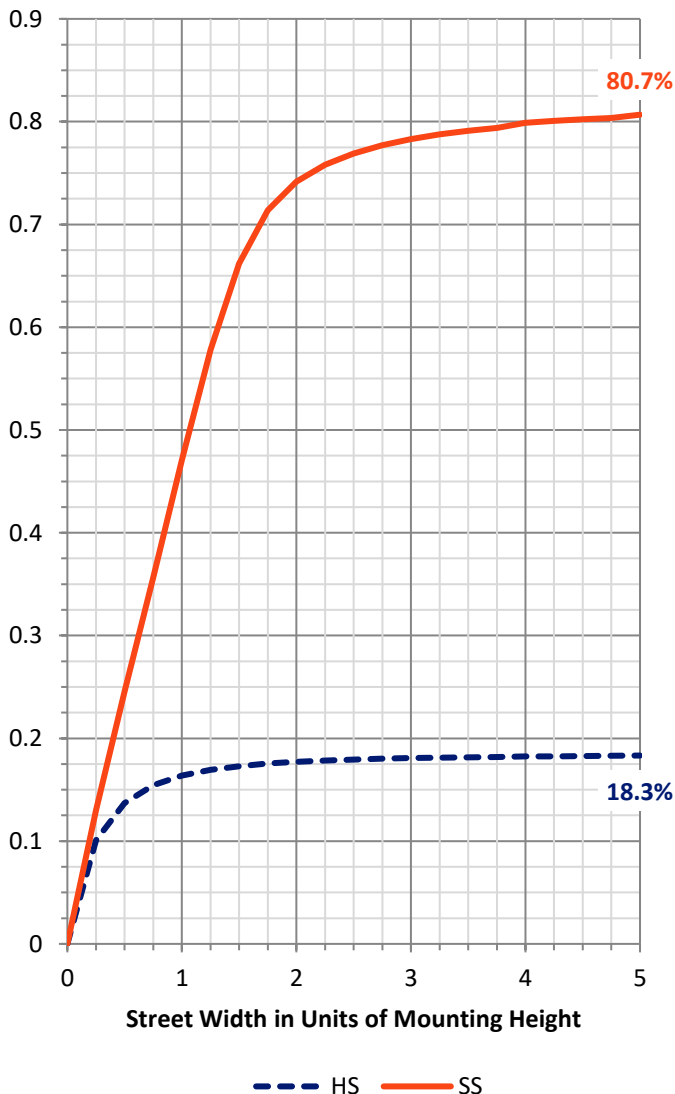
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2352.4	0.0	2352.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10340.6	0.0	10340.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	12693.0	0.0	12693.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	2.0
10°-20°	613.9	4.8
20°-30°	824.6	6.5
30°-40°	1084.7	8.5
40°-50°	1578.0	12.4
50°-60°	2465.0	19.4
60°-70°	3087.8	24.3
70°-80°	2355.3	18.6
80°-90°	427.7	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°	12693.0	100.0
0°-180°	12693.0	100.0

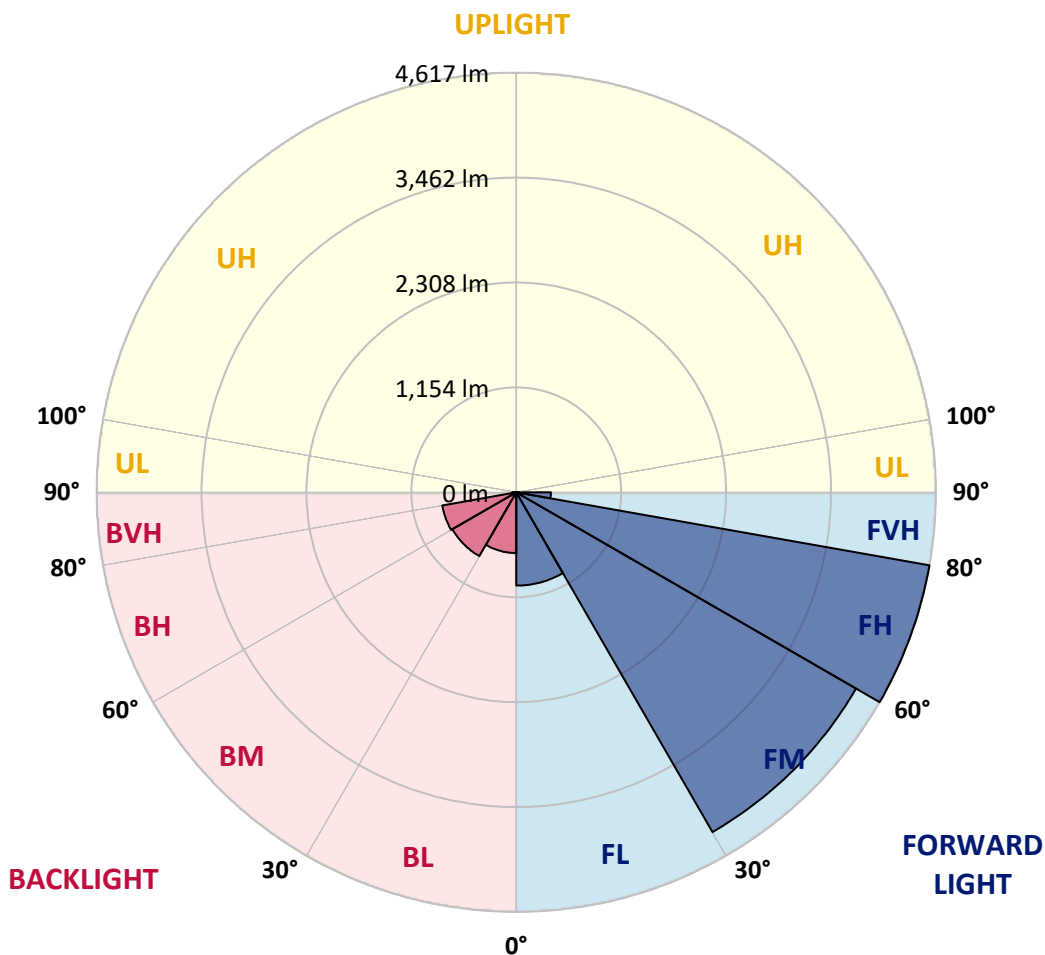


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.4	8.1			
FM (30°-60°)	4316.3	34.0			
FH (60°-80°)	4616.6	36.4			G2/5000
FVH (80°-90°)	381.4	3.0			G3/500
BL (0°-30°)	668.0	5.3	B2/1000		
BM (30°-60°)	811.5	6.4	B1/1000		
BH (60°-80°)	826.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	46.3	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°	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7
2.5°	2853.8	2849.4	2862.6	2876.2	2881.4	2890.2	2903.3	2910.8	2910.4	2911.7	2907.3
5°	2664.5	2658.8	2685.1	2706.6	2747.8	2794.2	2850.7	2891.1	2891.9	2914.7	2920.9
7.5°	2485.3	2481.3	2511.6	2546.2	2593.9	2664.9	2756.5	2843.3	2848.6	2910.4	2931.8
10°	2341.5	2340.6	2370.0	2407.7	2463.3	2542.7	2647.8	2774.9	2782.8	2889.3	2933.6
12.5°	2229.3	2231.1	2256.5	2299.4	2358.2	2441.0	2554.9	2698.2	2711.0	2856.0	2923.5
15°	2146.5	2153.5	2174.1	2217.5	2275.3	2359.5	2476.5	2627.2	2646.5	2818.8	2917.8
17.5°	2099.2	2107.1	2121.5	2157.5	2211.8	2292.9	2403.7	2569.0	2586.5	2790.3	2918.2
20°	2085.1	2091.7	2100.0	2122.0	2168.0	2241.6	2346.3	2516.4	2535.2	2767.5	2922.6
22.5°	2112.8	2117.6	2118.5	2116.7	2144.7	2204.8	2304.7	2477.8	2498.0	2752.6	2925.7
25°	2171.9	2178.5	2173.7	2157.5	2148.3	2185.1	2283.2	2452.4	2472.5	2741.6	2919.6
27.5°	2260.9	2261.8	2257.8	2236.8	2193.4	2187.3	2276.7	2437.5	2456.8	2728.9	2906.8
30°	2381.8	2387.5	2380.5	2352.0	2281.0	2222.3	2284.5	2423.0	2440.6	2712.7	2886.2
32.5°	2523.4	2537.4	2537.0	2507.2	2405.5	2300.8	2317.0	2414.3	2427.8	2695.6	2861.3
35°	2670.2	2689.5	2725.4	2712.7	2586.9	2424.8	2379.2	2428.3	2437.5	2693.4	2843.7
37.5°	2822.7	2842.0	2916.0	2950.2	2803.0	2602.3	2477.4	2477.8	2482.2	2720.2	2842.4
40°	2982.2	3002.8	3114.1	3203.1	3083.0	2827.1	2635.6	2581.2	2576.4	2785.9	2868.3
42.5°	3205.7	3224.1	3357.8	3471.3	3393.7	3115.0	2854.3	2740.8	2730.7	2914.7	2951.1
45°	3488.4	3504.2	3646.2	3767.5	3727.7	3443.7	3129.0	2960.3	2958.6	3129.5	3119.0
47.5°	3824.5	3836.8	3964.3	4081.8	4096.2	3821.9	3474.4	3299.1	3270.6	3424.0	3378.8
50°	4174.7	4188.3	4275.0	4401.2	4508.6	4328.1	3918.7	3714.1	3676.0	3812.7	3746.9
52.5°	4406.5	4424.5	4499.8	4659.8	4972.3	4882.9	4444.2	4217.2	4159.3	4283.8	4233.4
55°	4303.1	4343.4	4458.7	4715.0	5343.0	5730.4	5092.3	4804.0	4738.7	4842.1	4812.3
57.5°	3832.8	3888.1	4045.4	4441.1	5395.2	6477.2	6072.2	5495.1	5449.1	5419.3	5432.9
60°	2973.5	3026.5	3221.5	3737.3	5031.9	7022.4	7546.9	6347.0	6280.4	5998.6	6010.9
62.5°	2104.4	2077.7	2211.4	2588.7	4088.8	7086.3	9224.9	7486.4	7267.3	6610.4	6556.5
65°	1604.8	1598.7	1658.7	1778.8	2476.5	6320.7	10224.6	9401.6	9059.3	7330.0	7202.9
67.5°	1318.7	1307.7	1366.9	1541.7	1594.8	4077.8	10246.5	11623.4	11287.3	8225.8	7950.5
70°	1084.2	1071.9	1127.2	1352.8	1473.8	2068.1	8623.7	12924.6	12906.6	9359.9	8515.0
71°	972.0	963.3	1029.4	1280.1	1447.9	1723.6	7445.7	12928.1	12982.0	9743.8	8481.7
72.5°	791.5	794.5	864.6	1139.4	1428.7	1522.0	5472.3	12325.5	12439.4	10109.8	8178.9
75°	525.9	528.5	620.5	876.5	1385.3	1489.1	3007.6	10342.5	10551.9	9890.6	7463.2
77.5°	353.2	352.3	415.0	601.3	1206.9	1489.1	1763.5	7735.4	7965.4	7869.9	5753.6
80°	243.2	241.5	285.7	415.0	913.7	1507.1	1363.4	5421.0	5490.7	4250.0	2338.4
82.5°	149.0	150.3	186.7	293.2	621.9	1356.4	1287.1	2955.9	2880.1	1192.0	584.2
85°	85.5	85.0	119.2	198.5	399.2	1144.7	1255.1	1272.2	1167.0	358.9	211.2
87.5°	30.7	32.9	64.0	110.0	228.8	797.2	1064.9	661.7	596.4	162.1	95.5
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°	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7	2907.7
2.5°	2904.2	2906.8	2903.8	2886.2	2871.3	2847.2	2833.7	2814.8	2809.1	2806.5	2813.5
5°	2915.2	2916.0	2890.2	2844.2	2792.5	2731.5	2687.7	2633.8	2608.4	2597.4	2604.5
7.5°	2925.3	2921.3	2864.8	2776.7	2681.2	2575.1	2480.9	2394.5	2344.1	2323.5	2325.3
10°	2926.6	2909.9	2819.2	2682.9	2534.8	2379.2	2234.6	2101.4	2017.2	1962.4	1979.1
12.5°	2913.0	2884.9	2752.1	2561.5	2356.0	2143.9	1948.4	1748.6	1628.5	1572.8	1574.6
15°	2902.5	2851.6	2669.8	2418.6	2142.6	1861.6	1594.8	1359.9	1231.9	1174.9	1148.2
17.5°	2893.7	2815.7	2574.2	2257.8	1890.6	1534.3	1213.5	1004.0	933.9	917.2	910.2
20°	2881.4	2777.6	2467.7	2071.6	1603.5	1167.9	886.1	782.7	783.1	802.4	805.0
22.5°	2864.3	2734.2	2354.2	1862.5	1295.4	850.6	694.6	664.8	695.0	731.9	738.4
25°	2838.9	2682.9	2228.0	1631.6	987.8	653.9	593.4	592.1	628.9	667.4	673.1
27.5°	2803.0	2615.9	2087.8	1383.5	727.9	555.7	531.6	540.8	568.0	596.0	598.2
30°	2754.8	2537.8	1933.1	1121.9	570.6	494.8	492.1	500.5	517.1	536.8	538.6
32.5°	2701.7	2458.5	1767.9	868.6	488.6	461.9	464.5	468.5	476.4	484.3	486.0
35°	2653.5	2377.5	1598.7	660.0	449.6	440.4	438.7	437.8	438.7	436.0	436.5
37.5°	2622.4	2310.4	1422.5	525.4	427.3	421.6	416.3	409.8	402.3	397.9	398.8
40°	2611.0	2260.4	1244.2	454.0	408.9	404.9	394.9	380.8	372.1	369.4	369.4
42.5°	2641.7	2234.6	1071.9	418.1	393.5	387.0	370.3	354.1	347.5	347.1	346.6
45°	2735.5	2245.1	908.0	398.4	379.5	366.8	344.9	331.3	326.9	327.8	327.4
47.5°	2903.8	2311.3	767.8	385.2	365.5	348.8	324.3	313.3	308.1	308.1	308.5
50°	3189.9	2466.0	656.0	374.3	353.7	332.2	309.4	295.8	288.8	288.4	288.4
52.5°	3606.7	2742.9	586.4	365.1	340.5	317.3	294.5	277.4	269.1	267.3	266.4
55°	4129.1	3140.0	567.1	358.9	323.0	301.1	276.5	259.4	250.2	246.3	245.9
57.5°	4713.3	3622.9	605.2	351.5	305.0	281.8	256.8	240.6	231.0	226.1	225.7
60°	5304.5	4150.1	760.8	341.0	290.1	260.8	236.6	221.7	212.1	206.8	206.0
62.5°	5896.5	4705.8	1078.5	340.1	279.6	240.6	216.1	203.3	194.1	188.4	187.1
65°	6564.4	5314.1	1439.6	363.3	276.1	222.2	195.0	184.9	177.0	171.8	171.4
67.5°	7331.3	6000.8	1405.0	411.1	287.9	205.5	175.3	167.4	161.7	157.3	156.9
70°	7691.1	5893.4	873.4	444.8	304.6	189.3	156.5	150.8	146.4	143.3	142.0
71°	7540.4	5595.9	732.3	440.9	302.8	182.3	149.0	144.6	140.2	137.6	136.3
72.5°	7129.3	5103.3	610.9	410.2	283.1	169.6	139.4	135.0	131.0	128.0	127.1
75°	6397.4	4557.7	489.1	327.8	225.7	143.3	122.3	117.4	114.4	112.6	110.9
77.5°	4702.8	3252.6	378.2	259.0	166.1	117.0	104.3	100.8	97.7	95.1	93.8
80°	1801.6	1259.9	254.6	193.3	121.8	92.5	84.1	82.4	79.3	77.6	77.6
82.5°	485.1	376.4	135.9	117.0	81.5	67.5	64.4	63.5	60.9	57.4	57.8
85°	196.3	166.1	76.3	64.4	50.0	39.9	43.4	43.8	40.8	36.4	36.8
87.5°	86.3	70.6	42.5	28.5	21.9	15.3	19.7	19.7	18.0	14.9	13.6
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)