

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: P318989

Luminaire Tested: **GAN-SA5A-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21063 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

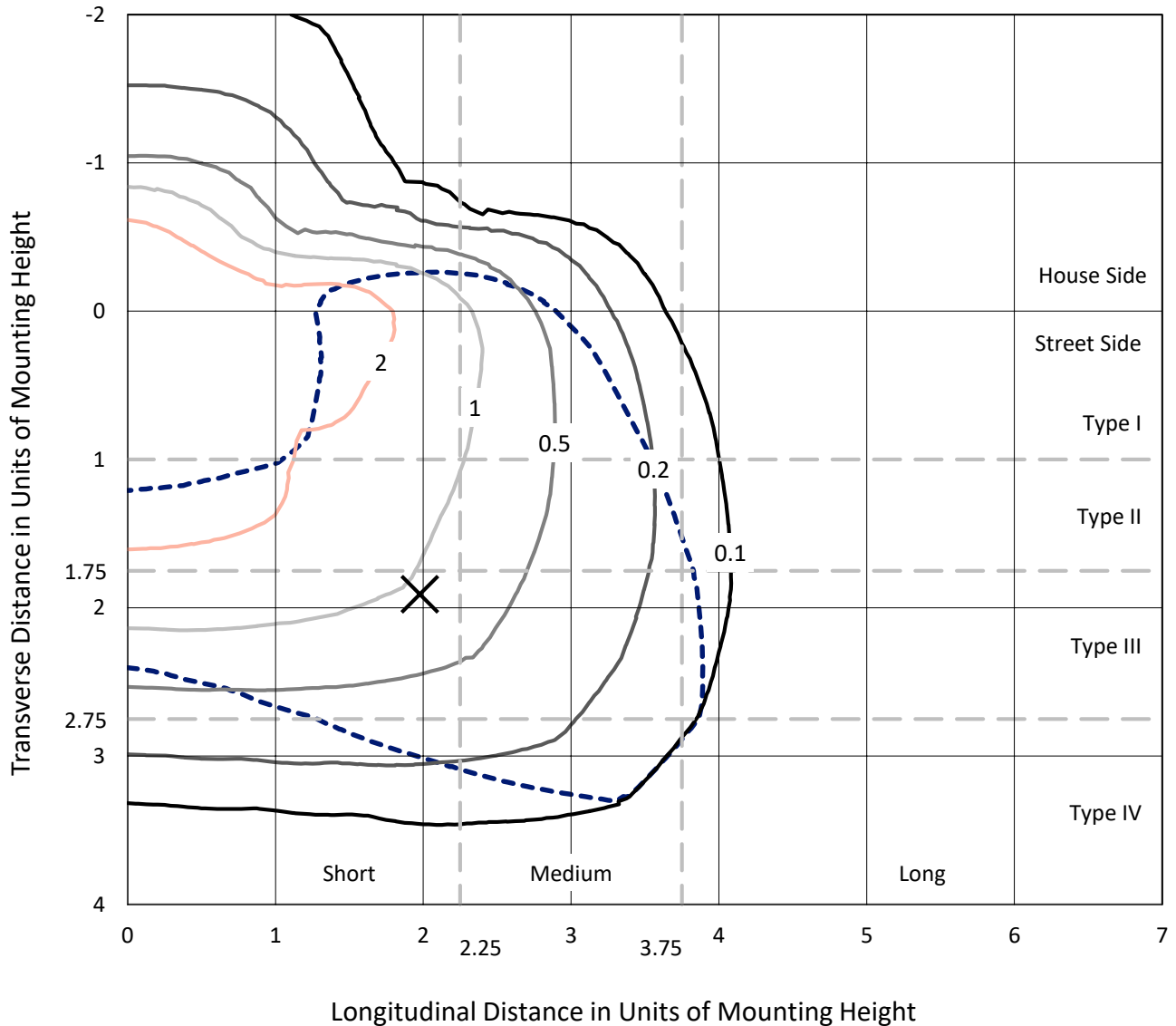
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

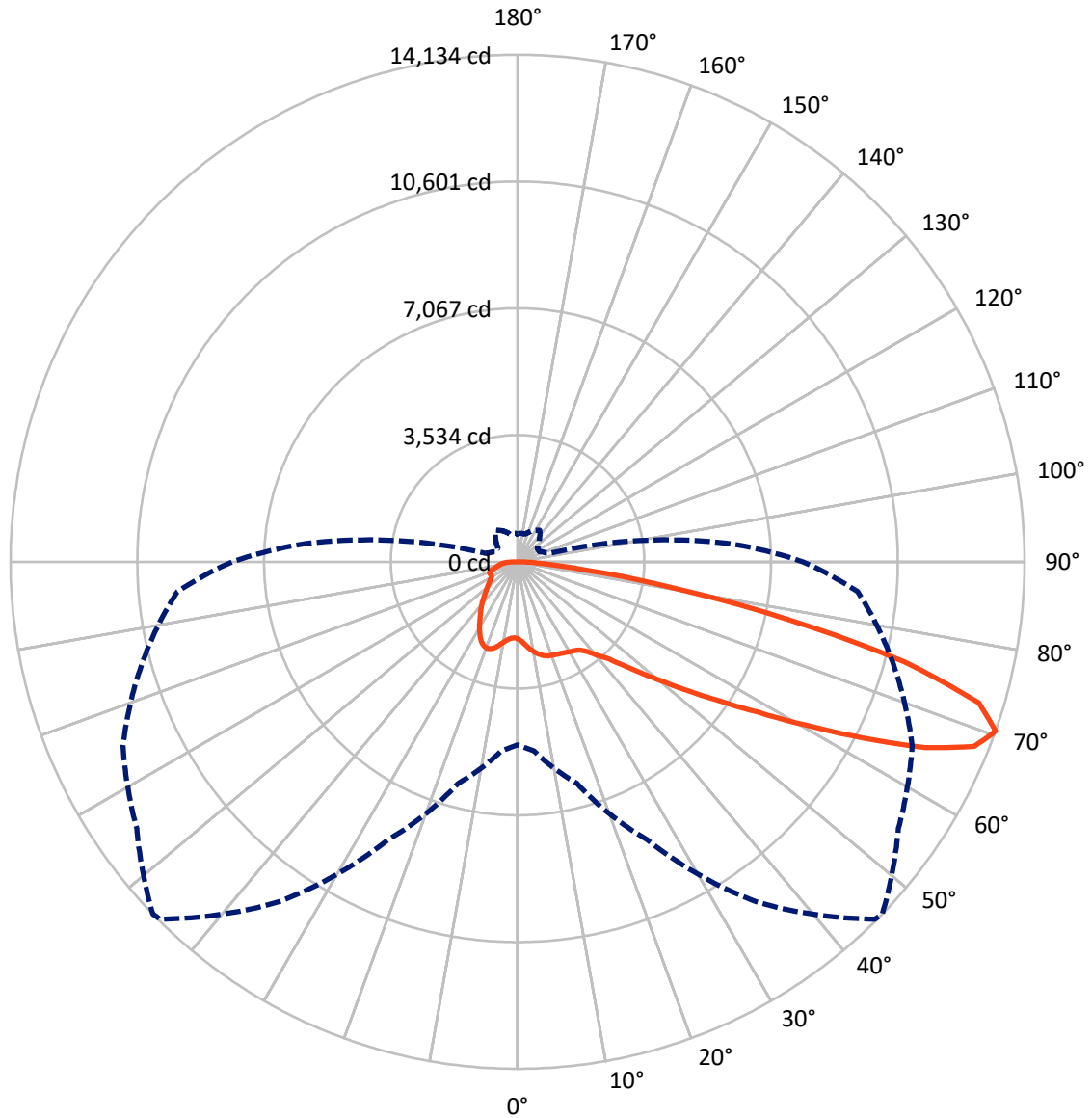
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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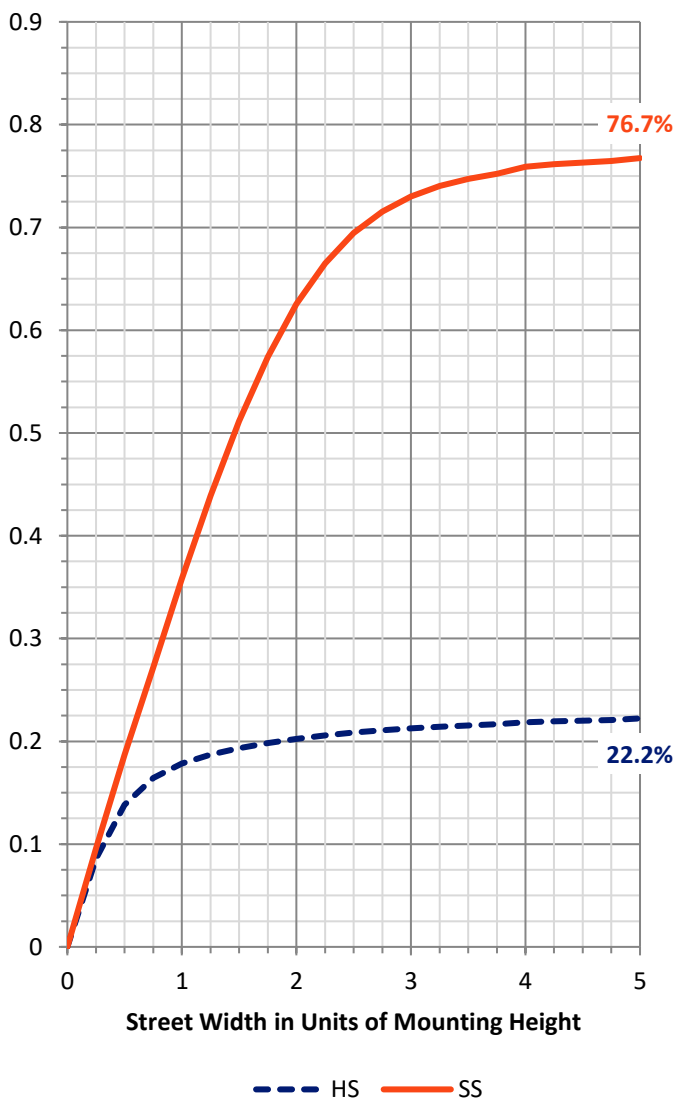
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4827.6	0.0	4827.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	16235.4	0.0	16235.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	21063.0	0.0	21063.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.8	1.0
10°-20°	728.8	3.5
20°-30°	1215.3	5.8
30°-40°	1724.5	8.2
40°-50°	2536.7	12.0
50°-60°	4295.9	20.4
60°-70°	6097.9	29.0
70°-80°	3704.5	17.6
80°-90°	540.6	2.6
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°	21063.0	100.0
0°-180°	21063.0	100.0

**Coefficient of Utilization**

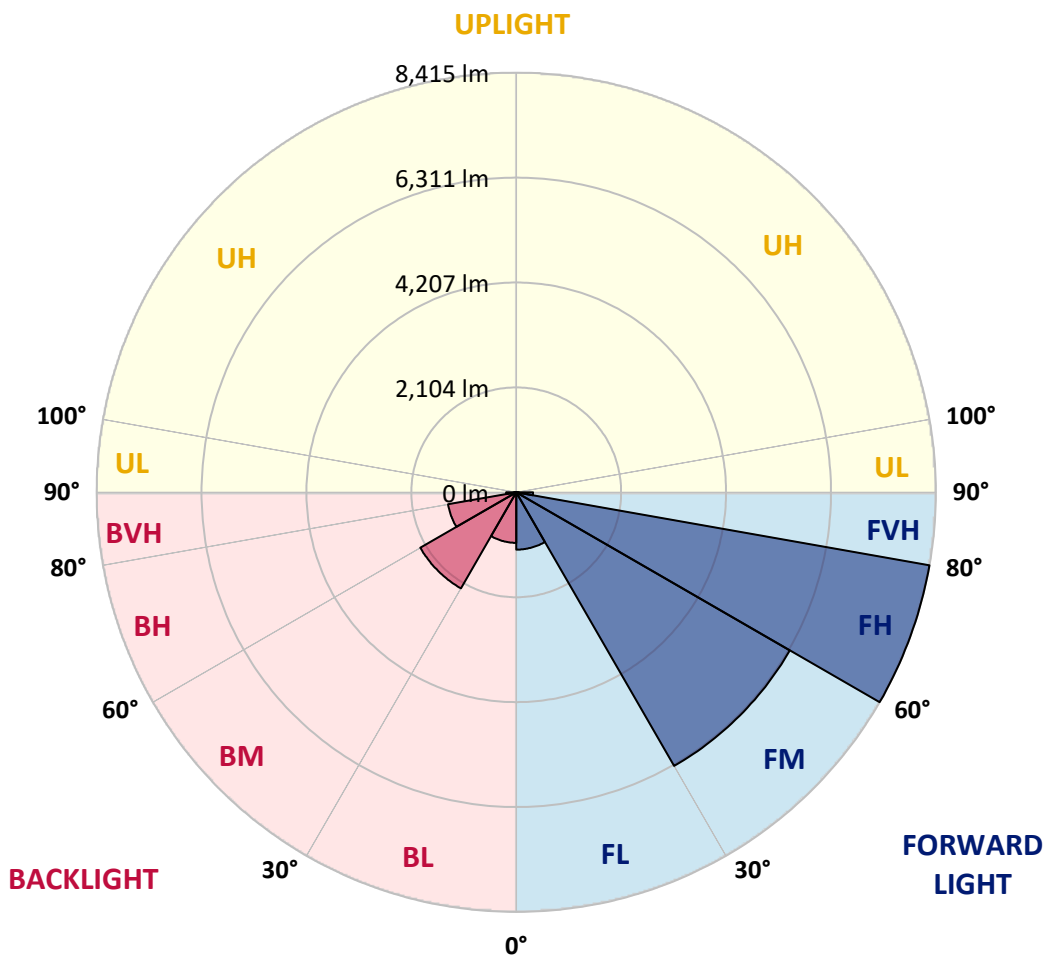


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.3	5.5			
FM (30°-60°)	6334.8	30.1			
FH (60°-80°)	8414.6	39.9			G4/12000
FVH (80°-90°)	336.8	1.6			G3/500
BL (0°-30°)	1013.6	4.8	B3/2500		
BM (30°-60°)	2222.3	10.6	B2/2500		
BH (60°-80°)	1387.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	203.9	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9
2.5°	2253.3	2254.8	2257.6	2250.4	2230.2	2224.5	2222.3	2201.4	2187.7	2167.5	2150.2
5°	2433.5	2435.0	2430.6	2410.5	2365.8	2332.6	2329.7	2282.1	2238.9	2192.8	2158.2
7.5°	2621.7	2623.8	2610.1	2571.9	2509.2	2451.5	2447.9	2383.1	2317.5	2247.5	2195.6
10°	2788.2	2779.5	2757.2	2703.8	2629.6	2558.9	2556.1	2488.3	2412.6	2328.3	2259.1
12.5°	2899.2	2892.0	2863.1	2798.3	2716.8	2651.9	2646.2	2583.5	2509.9	2417.7	2334.8
15°	2960.4	2965.5	2926.6	2853.0	2773.7	2719.0	2713.9	2669.2	2603.6	2510.6	2415.5
17.5°	2968.4	2972.7	2935.2	2862.4	2797.5	2760.1	2757.9	2728.3	2680.8	2591.4	2491.9
20°	2922.2	2925.1	2894.1	2834.3	2791.8	2780.2	2779.5	2766.5	2731.2	2651.9	2555.3
22.5°	2855.2	2857.4	2835.0	2791.8	2777.4	2795.4	2800.4	2795.4	2770.1	2695.9	2605.1
25°	2838.6	2837.2	2814.1	2770.1	2782.4	2820.6	2827.1	2829.3	2812.0	2747.1	2668.5
27.5°	2918.6	2913.6	2869.6	2799.0	2806.9	2853.0	2861.7	2882.6	2871.8	2814.8	2740.6
30°	3150.0	3141.4	3051.3	2908.5	2869.6	2893.4	2904.2	2937.4	2939.5	2892.0	2836.5
32.5°	3540.7	3529.9	3368.4	3113.3	2975.6	2934.5	2944.6	2994.3	3021.0	2984.2	2924.4
35°	4034.5	4022.2	3810.3	3461.4	3152.9	3013.1	3020.3	3059.9	3113.3	3061.4	2982.1
37.5°	4549.2	4519.6	4315.6	3870.9	3434.7	3181.0	3181.0	3186.1	3211.3	3103.2	3049.8
40°	5060.9	5031.4	4846.9	4352.4	3799.5	3445.6	3429.0	3317.3	3297.1	3204.1	3186.1
42.5°	5536.7	5528.0	5419.2	4896.6	4227.7	3705.8	3682.7	3493.1	3497.5	3439.8	3440.5
45°	6042.7	6042.7	5954.0	5445.9	4726.5	4123.9	4100.8	3821.8	3865.1	3838.4	3902.6
47.5°	6455.7	6468.7	6456.5	6018.2	5306.7	4655.1	4613.3	4277.4	4398.5	4490.0	4676.7
50°	6877.4	6897.6	6899.8	6646.0	6008.1	5286.6	5239.0	4882.2	5152.5	5414.9	5781.8
52.5°	7489.4	7534.8	7353.9	7272.4	6867.3	6036.2	5989.4	5659.9	6111.2	6479.5	7111.7
55°	8056.7	8017.1	7888.0	7938.5	7787.1	6889.7	6854.4	6565.3	7179.5	7658.1	8479.1
57.5°	8363.8	8360.9	8490.6	8706.9	8779.0	7942.1	7912.5	7631.4	8384.0	8743.7	9762.9
60°	8724.2	8729.2	9050.7	9541.6	9838.6	9252.6	9239.6	9026.2	9553.9	9757.1	10769.9
62.5°	8774.6	8865.5	9419.1	10263.9	10830.5	10783.6	10812.4	10282.6	10600.5	10565.9	11521.7
65°	8194.4	8314.0	9316.0	10482.3	11816.5	12458.1	12484.8	11546.2	11425.9	11257.2	11790.6
67.5°	7005.0	7182.3	8270.8	10007.3	12141.6	13695.7	13733.2	12525.8	12110.6	11491.5	11143.3
70°	5097.7	5294.5	6390.1	8546.9	11562.1	14091.5	14134.0	12959.1	12136.6	10824.7	9512.8
72.5°	3079.4	3233.6	4136.8	6292.1	9758.6	13370.7	13446.3	12409.8	11080.6	9168.9	7024.5
75°	1352.3	1453.2	2000.3	3625.8	6986.3	11062.6	11157.0	10622.1	9003.2	6663.3	4152.0
77.5°	575.9	604.8	820.3	1575.0	3949.4	7559.3	7689.1	7761.2	6108.3	3625.8	1754.5
80°	359.0	370.5	464.2	712.9	1848.2	4245.7	4385.5	4566.5	3033.2	1332.8	612.7
82.5°	218.4	231.4	308.5	431.1	962.3	1924.6	1991.7	2119.2	1177.1	575.9	317.2
85°	131.2	140.6	188.9	272.5	547.8	756.9	756.1	836.2	554.3	370.5	167.2
87.5°	62.7	69.9	100.9	141.3	276.1	284.0	266.0	301.3	336.6	242.9	84.3
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°	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9	2145.9
2.5°	2144.5	2141.6	2132.2	2125.0	2123.6	2119.2	2115.6	2117.8	2120.7	2121.4	2121.4
5°	2143.7	2135.8	2123.6	2118.5	2125.0	2133.7	2144.5	2158.9	2167.5	2174.0	2178.3
7.5°	2178.3	2163.2	2149.5	2146.6	2159.6	2182.7	2207.2	2237.5	2258.4	2272.8	2275.7
10°	2236.0	2217.3	2203.6	2206.5	2229.5	2262.7	2297.3	2336.2	2367.9	2387.4	2388.8
12.5°	2302.3	2284.3	2271.3	2283.6	2321.8	2362.2	2398.2	2432.1	2460.9	2480.4	2480.4
15°	2378.7	2365.8	2350.6	2378.7	2430.6	2466.7	2481.8	2498.4	2514.3	2528.7	2525.8
17.5°	2452.3	2440.0	2432.1	2465.2	2519.3	2535.9	2525.8	2513.5	2513.5	2521.5	2522.9
20°	2515.7	2504.9	2509.9	2542.4	2570.5	2553.2	2515.7	2476.8	2460.9	2465.2	2469.6
22.5°	2571.2	2566.2	2581.3	2596.4	2576.2	2515.7	2446.5	2393.9	2374.4	2373.0	2374.4
25°	2636.1	2635.4	2654.1	2626.7	2537.3	2425.6	2332.6	2281.4	2270.6	2279.3	2293.7
27.5°	2716.8	2724.7	2734.1	2633.9	2458.0	2289.4	2194.9	2159.6	2170.4	2191.3	2205.0
30°	2819.9	2841.5	2821.3	2615.9	2344.1	2133.7	2043.5	2033.5	2063.0	2092.6	2107.0
32.5°	2920.1	2954.0	2904.9	2569.0	2197.1	1968.6	1898.7	1895.8	1931.8	1960.7	1980.8
35°	3000.8	3067.8	2967.7	2476.0	2027.0	1816.5	1765.3	1745.8	1758.8	1792.7	1815.8
37.5°	3106.1	3217.8	3010.9	2334.0	1842.4	1691.1	1631.2	1586.5	1575.0	1588.7	1600.2
40°	3298.5	3446.3	3031.1	2135.8	1662.2	1565.6	1505.1	1439.5	1394.1	1360.9	1361.6
42.5°	3612.8	3744.0	3018.1	1895.1	1495.7	1443.1	1374.6	1298.9	1225.4	1150.4	1144.7
45°	4123.1	4186.6	2979.2	1639.9	1349.4	1314.8	1250.6	1175.0	1076.9	991.9	983.9
47.5°	4939.8	4799.3	2918.6	1417.1	1220.4	1205.9	1146.8	1059.6	955.8	887.3	881.6
50°	6053.5	5683.7	2889.1	1239.8	1106.5	1110.8	1062.5	970.2	872.2	821.7	816.0
52.5°	7385.6	6713.8	2946.0	1102.9	1014.9	1030.1	994.0	907.5	825.3	785.7	779.9
55°	8767.4	7780.6	3007.3	1003.4	928.4	958.0	945.7	874.4	800.1	763.4	758.3
57.5°	9950.3	8577.1	2884.8	922.7	851.3	897.4	908.2	853.5	787.1	754.0	748.2
60°	10694.9	8897.9	2563.3	847.0	790.0	849.1	886.6	847.7	792.2	789.3	785.0
62.5°	11048.1	8869.8	2081.0	787.1	751.8	828.2	902.5	880.1	849.9	875.8	878.0
65°	10889.6	8446.0	1549.8	747.5	724.4	836.2	950.1	941.4	866.4	892.4	896.0
67.5°	9845.8	7434.6	1147.6	712.9	694.2	858.5	1036.6	961.6	834.0	852.7	841.2
70°	7958.0	5894.2	885.2	674.0	663.2	855.6	1075.5	949.3	798.7	803.0	772.0
72.5°	5487.7	4019.3	720.1	637.9	618.5	779.9	1048.1	919.1	769.1	736.0	694.9
75°	2984.2	2157.4	612.0	600.5	539.9	684.8	997.6	897.4	742.5	698.5	675.4
77.5°	1174.2	895.3	531.3	549.3	472.1	604.8	941.4	856.3	705.7	648.0	636.5
80°	479.4	457.0	440.4	475.0	405.8	529.1	873.6	808.0	661.7	601.2	578.1
82.5°	271.8	284.0	342.4	374.8	329.4	487.3	841.2	769.1	609.1	538.5	511.1
85°	139.1	166.5	238.6	268.9	242.2	414.5	774.9	673.3	488.7	412.3	414.5
87.5°	67.0	93.0	150.7	168.7	157.1	299.9	578.8	488.0	380.6	301.3	291.9
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)