

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: P319109

Luminaire Tested: **GAN-SA5A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319109
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-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 23129 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

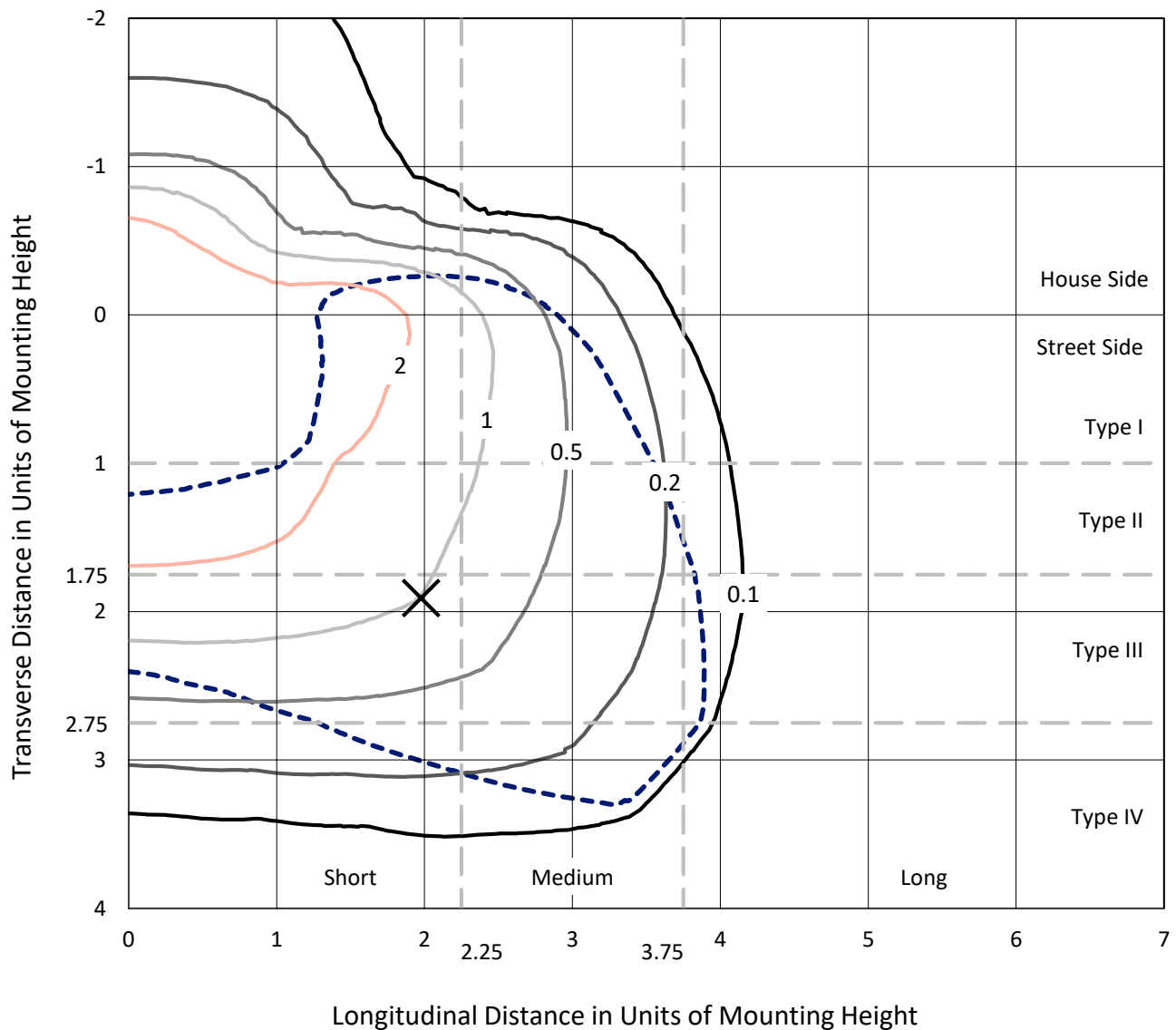
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319109
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Iso-Footcandle Lines of Horizontal Illumination

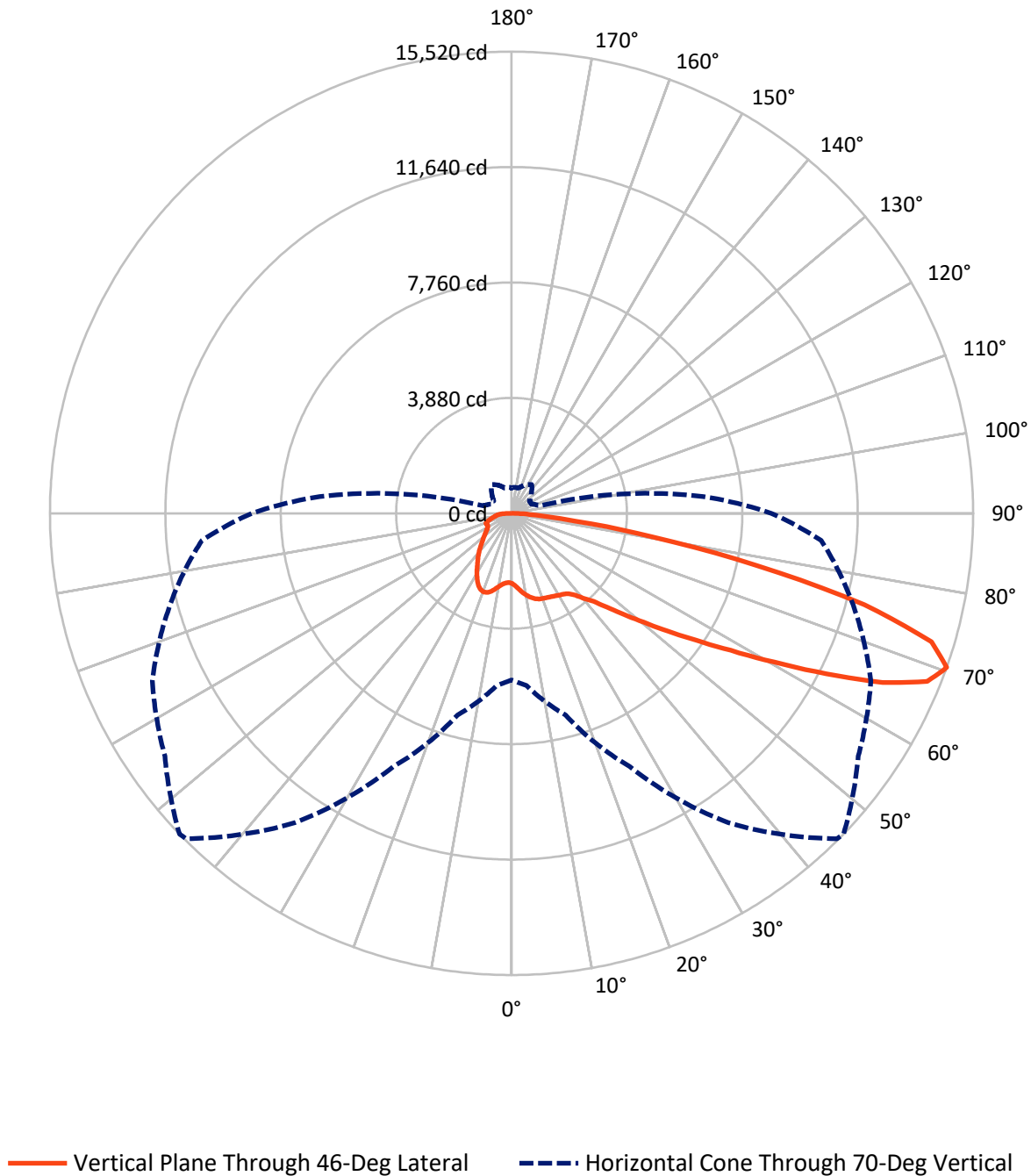
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - N/A

REPORT NUMBER: P319109
CATALOG NUMBER: GAN-SA5A-760-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5301.1	0.0	5301.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17827.9	0.0	17827.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	23129.0	0.0	23129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.0
10°-20°	800.3	3.5
20°-30°	1334.5	5.8
30°-40°	1893.7	8.2
40°-50°	2785.5	12.0
50°-60°	4717.2	20.4
60°-70°	6696.0	29.0
70°-80°	4067.9	17.6
80°-90°	593.7	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°	23129.0	100.0
0°-180°	23129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319109

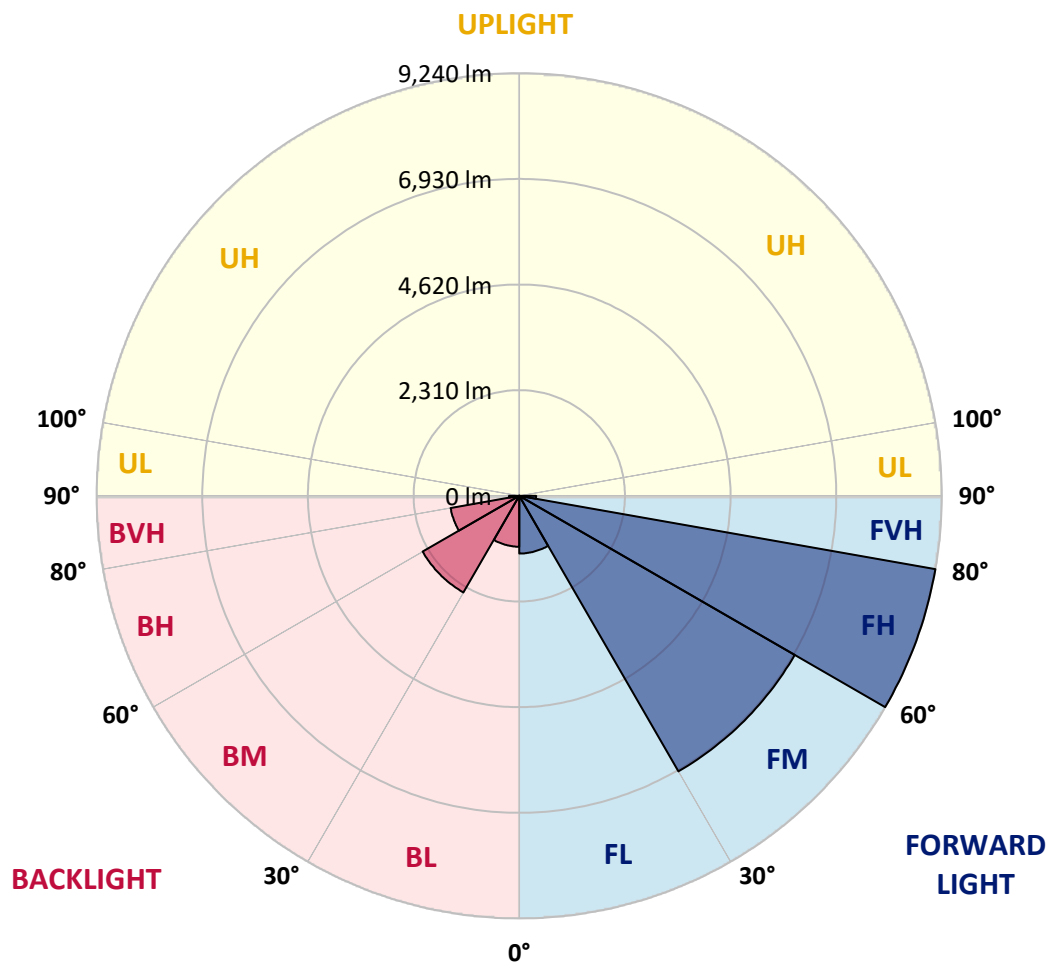
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1262.0	5.5			
FM	(30°-60°)	6956.2	30.1			
FH	(60°-80°)	9239.9	39.9			G4/12000
FVH	(80°-90°)	369.8	1.6			G3/500
BL	(0°-30°)	1113.0	4.8	B3/2500		
BM	(30°-60°)	2440.2	10.6	B2/2500		
BH	(60°-80°)	1524.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	223.9	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





REPORT NUMBER: P319109

CATALOG NUMBER: GAN-SA5A-760-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4
2.5°	2474.3	2475.9	2479.1	2471.2	2449.0	2442.7	2440.3	2417.3	2402.3	2380.1	2361.1
5°	2672.2	2673.8	2669.0	2646.9	2597.8	2561.4	2558.2	2506.0	2458.5	2407.8	2369.8
7.5°	2878.8	2881.2	2866.1	2824.2	2755.3	2692.0	2688.0	2616.8	2544.8	2468.0	2411.0
10°	3061.6	3052.1	3027.6	2969.0	2887.5	2809.9	2806.8	2732.4	2649.3	2556.7	2480.7
12.5°	3183.5	3175.6	3144.0	3072.7	2983.3	2912.0	2905.7	2836.9	2756.1	2654.8	2563.8
15°	3250.8	3256.4	3213.6	3132.9	3045.8	2985.7	2980.1	2931.0	2859.0	2756.9	2652.4
17.5°	3259.5	3264.3	3223.1	3143.2	3071.9	3030.8	3028.4	2996.0	2943.7	2845.6	2736.3
20°	3208.9	3212.0	3178.0	3112.3	3065.6	3052.9	3052.1	3037.9	2999.1	2912.0	2806.0
22.5°	3135.3	3137.6	3113.1	3065.6	3049.8	3069.6	3075.1	3069.6	3041.9	2960.3	2860.6
25°	3117.1	3115.5	3090.1	3041.9	3055.3	3097.3	3104.4	3106.8	3087.8	3016.5	2930.3
27.5°	3204.9	3199.4	3151.1	3073.5	3082.2	3132.9	3142.4	3165.3	3153.5	3090.9	3009.4
30°	3459.0	3449.5	3350.6	3193.8	3151.1	3177.2	3189.1	3225.5	3227.9	3175.6	3114.7
32.5°	3888.0	3876.1	3698.8	3418.6	3267.4	3222.3	3233.4	3288.0	3317.3	3276.9	3211.2
35°	4430.2	4416.8	4184.0	3800.9	3462.2	3308.6	3316.5	3360.1	3418.6	3361.6	3274.6
37.5°	4995.4	4962.9	4738.9	4250.5	3771.7	3493.0	3493.0	3498.6	3526.3	3407.5	3349.0
40°	5557.4	5524.9	5322.3	4779.3	4172.2	3783.5	3765.3	3642.6	3620.5	3518.4	3498.6
42.5°	6079.8	6070.3	5950.7	5376.9	4642.3	4069.3	4043.9	3835.8	3840.5	3777.2	3778.0
45°	6635.4	6635.4	6538.1	5980.0	5190.1	4528.4	4503.0	4196.7	4244.2	4214.9	4285.4
47.5°	7089.0	7103.2	7089.8	6608.5	5827.3	5111.7	5065.8	4697.0	4829.9	4930.5	5135.5
50°	7552.0	7574.2	7576.5	7297.9	6597.4	5805.1	5752.9	5361.0	5657.9	5946.0	6348.9
52.5°	8224.0	8273.9	8075.2	7985.8	7540.9	6628.3	6576.8	6215.1	6710.6	7115.1	7809.3
55°	8847.0	8803.4	8661.7	8717.1	8550.9	7565.5	7526.7	7209.3	7883.7	8409.2	9310.8
57.5°	9184.2	9181.0	9323.5	9560.9	9640.1	8721.1	8688.7	8380.0	9206.3	9601.3	10720.5
60°	9579.9	9585.5	9938.5	10477.5	10803.6	10160.1	10145.9	9911.6	10491.0	10714.2	11826.3
62.5°	9635.3	9735.1	10343.0	11270.6	11892.8	11841.3	11873.0	11291.2	11640.3	11602.3	12651.9
65°	8998.1	9129.5	10229.8	11510.5	12975.6	13680.1	13709.3	12678.8	12546.6	12361.4	12947.1
67.5°	7692.1	7886.8	9082.0	10988.8	13332.6	15039.1	15080.3	13754.5	13298.5	12618.6	12236.3
70°	5597.7	5813.8	7016.9	9385.2	12696.2	15473.7	15520.4	14230.2	13327.0	11886.4	10445.9
72.5°	3381.4	3550.8	4542.6	6909.3	10715.8	14682.1	14765.2	13627.0	12167.4	10068.3	7713.5
75°	1484.9	1595.7	2196.5	3981.4	7671.5	12147.7	12251.3	11664.0	9886.2	7316.9	4559.2
77.5°	632.4	664.1	900.8	1729.5	4336.8	8300.8	8443.3	8522.4	6707.4	3981.4	1926.6
80°	394.2	406.8	509.7	782.8	2029.5	4662.1	4815.7	5014.4	3330.8	1463.5	672.8
82.5°	239.8	254.1	338.8	473.3	1056.7	2113.4	2187.0	2327.1	1292.6	632.4	348.3
85°	144.1	154.3	207.4	299.2	601.6	831.1	830.3	918.2	608.7	406.8	183.6
87.5°	68.9	76.8	110.8	155.1	303.2	311.9	292.1	330.9	369.6	266.7	92.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319109

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4	2356.4
2.5°	2354.8	2351.6	2341.4	2333.4	2331.9	2327.1	2323.1	2325.5	2328.7	2329.5	2329.5
5°	2354.0	2345.3	2331.9	2326.3	2333.4	2342.9	2354.8	2370.6	2380.1	2387.3	2392.0
7.5°	2392.0	2375.4	2360.4	2357.2	2371.4	2396.8	2423.7	2456.9	2479.9	2495.7	2498.9
10°	2455.3	2434.8	2419.7	2422.9	2448.2	2484.6	2522.6	2565.4	2600.2	2621.6	2623.1
12.5°	2528.2	2508.4	2494.1	2507.6	2549.5	2593.9	2633.4	2670.6	2702.3	2723.7	2723.7
15°	2612.1	2597.8	2581.2	2612.1	2669.0	2708.6	2725.2	2743.5	2760.9	2776.7	2773.5
17.5°	2692.8	2679.3	2670.6	2707.0	2766.4	2784.6	2773.5	2760.1	2760.1	2768.8	2770.4
20°	2762.4	2750.6	2756.1	2791.7	2822.6	2803.6	2762.4	2719.7	2702.3	2707.0	2711.8
22.5°	2823.4	2817.9	2834.5	2851.1	2828.9	2762.4	2686.5	2628.7	2607.3	2605.7	2607.3
25°	2894.6	2893.8	2914.4	2884.3	2786.2	2663.5	2561.4	2505.2	2493.3	2502.8	2518.7
27.5°	2983.3	2992.0	3002.3	2892.3	2699.1	2513.9	2410.2	2371.4	2383.3	2406.3	2421.3
30°	3096.5	3120.2	3098.1	2872.5	2574.1	2342.9	2244.0	2232.9	2265.4	2297.8	2313.6
32.5°	3206.5	3243.7	3189.9	2821.0	2412.6	2161.7	2084.9	2081.7	2121.3	2153.0	2175.1
35°	3295.1	3368.8	3258.7	2718.9	2225.8	1994.7	1938.5	1917.1	1931.3	1968.5	1993.9
37.5°	3410.7	3533.4	3306.2	2563.0	2023.2	1856.9	1791.2	1742.2	1729.5	1744.5	1757.2
40°	3622.1	3784.3	3328.4	2345.3	1825.3	1719.2	1652.7	1580.7	1530.8	1494.4	1495.2
42.5°	3967.2	4111.2	3314.1	2080.9	1642.4	1584.6	1509.5	1426.3	1345.6	1263.3	1257.0
45°	4527.6	4597.2	3271.4	1800.7	1481.7	1443.8	1373.3	1290.2	1182.5	1089.1	1080.4
47.5°	5424.4	5270.0	3204.9	1556.2	1340.1	1324.2	1259.3	1163.6	1049.6	974.4	968.0
50°	6647.3	6241.2	3172.5	1361.4	1215.0	1219.8	1166.7	1065.4	957.8	902.3	896.0
52.5°	8110.0	7372.3	3235.0	1211.0	1114.5	1131.1	1091.5	996.5	906.3	862.8	856.4
55°	9627.4	8543.8	3302.3	1101.8	1019.5	1051.9	1038.5	960.1	878.6	838.2	832.7
57.5°	10926.3	9418.4	3167.7	1013.2	934.8	985.5	997.3	937.2	864.4	827.9	821.6
60°	11744.0	9770.7	2814.7	930.1	867.5	932.4	973.6	930.8	869.9	866.7	862.0
62.5°	12131.8	9739.8	2285.2	864.4	825.6	909.5	991.0	966.5	933.2	961.7	964.1
65°	11957.7	9274.4	1701.8	820.8	795.5	918.2	1043.2	1033.7	951.4	979.9	983.9
67.5°	10811.5	8163.9	1260.1	782.8	762.2	942.7	1138.2	1055.9	915.8	936.4	923.7
70°	8738.5	6472.4	972.0	740.1	728.2	939.5	1181.0	1042.4	877.0	881.8	847.7
72.5°	6025.9	4413.6	790.7	700.5	679.1	856.4	1150.9	1009.2	844.6	808.2	763.0
75°	3276.9	2369.1	672.0	659.3	592.9	752.0	1095.5	985.5	815.3	767.0	741.7
77.5°	1289.4	983.1	583.4	603.1	518.5	664.1	1033.7	940.3	774.9	711.6	698.9
80°	526.4	501.8	483.6	521.6	445.6	581.0	959.3	887.3	726.6	660.1	634.8
82.5°	298.4	311.9	376.0	411.6	361.7	535.1	923.7	844.6	668.8	591.3	561.2
85°	152.8	182.8	262.0	295.2	266.0	455.1	850.9	739.3	536.7	452.8	455.1
87.5°	73.6	102.1	165.4	185.2	172.6	329.3	635.6	535.9	417.9	330.9	320.6
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)