

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: P318869

Luminaire Tested: **GAN-SA5A-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18620 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

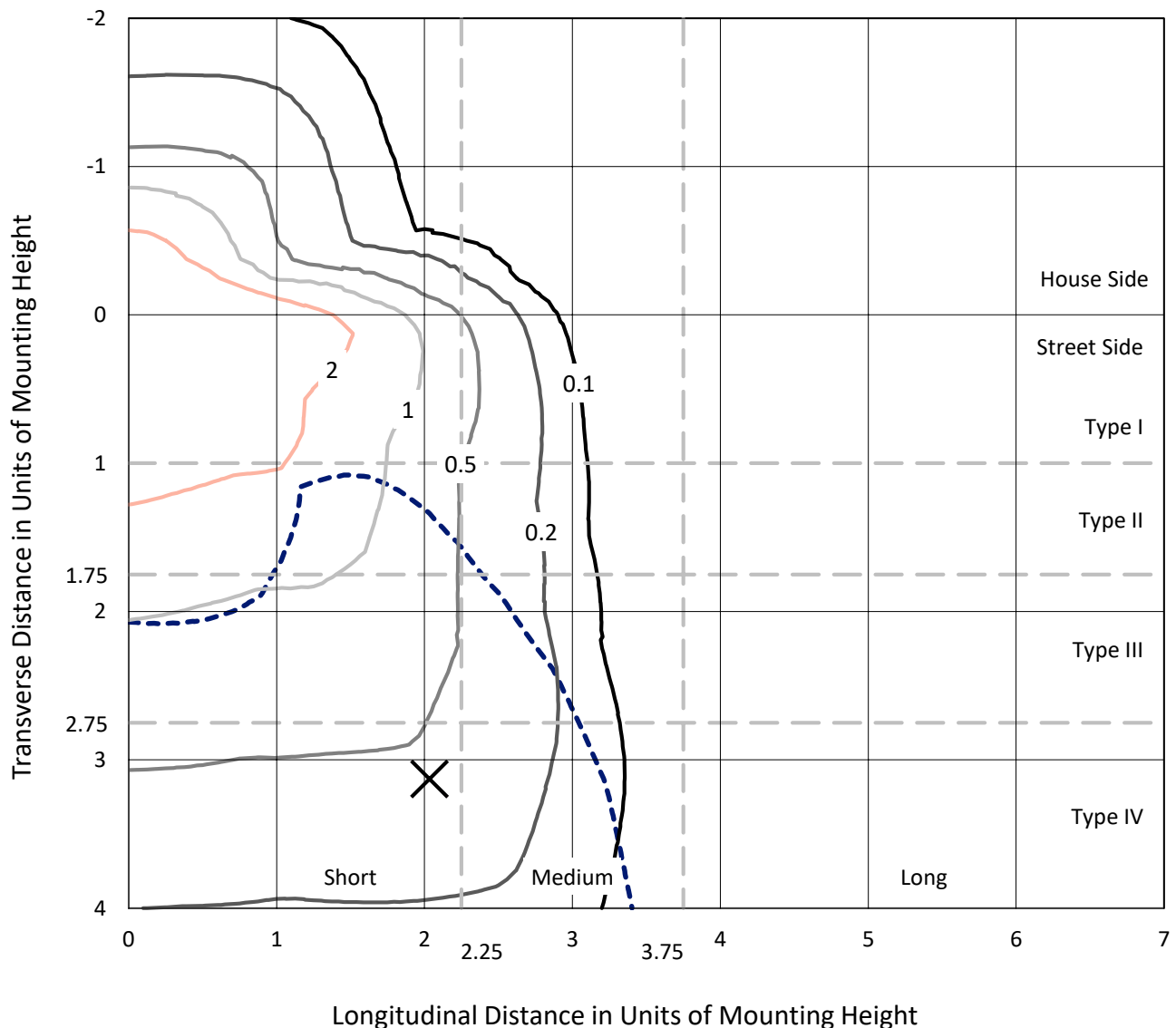
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

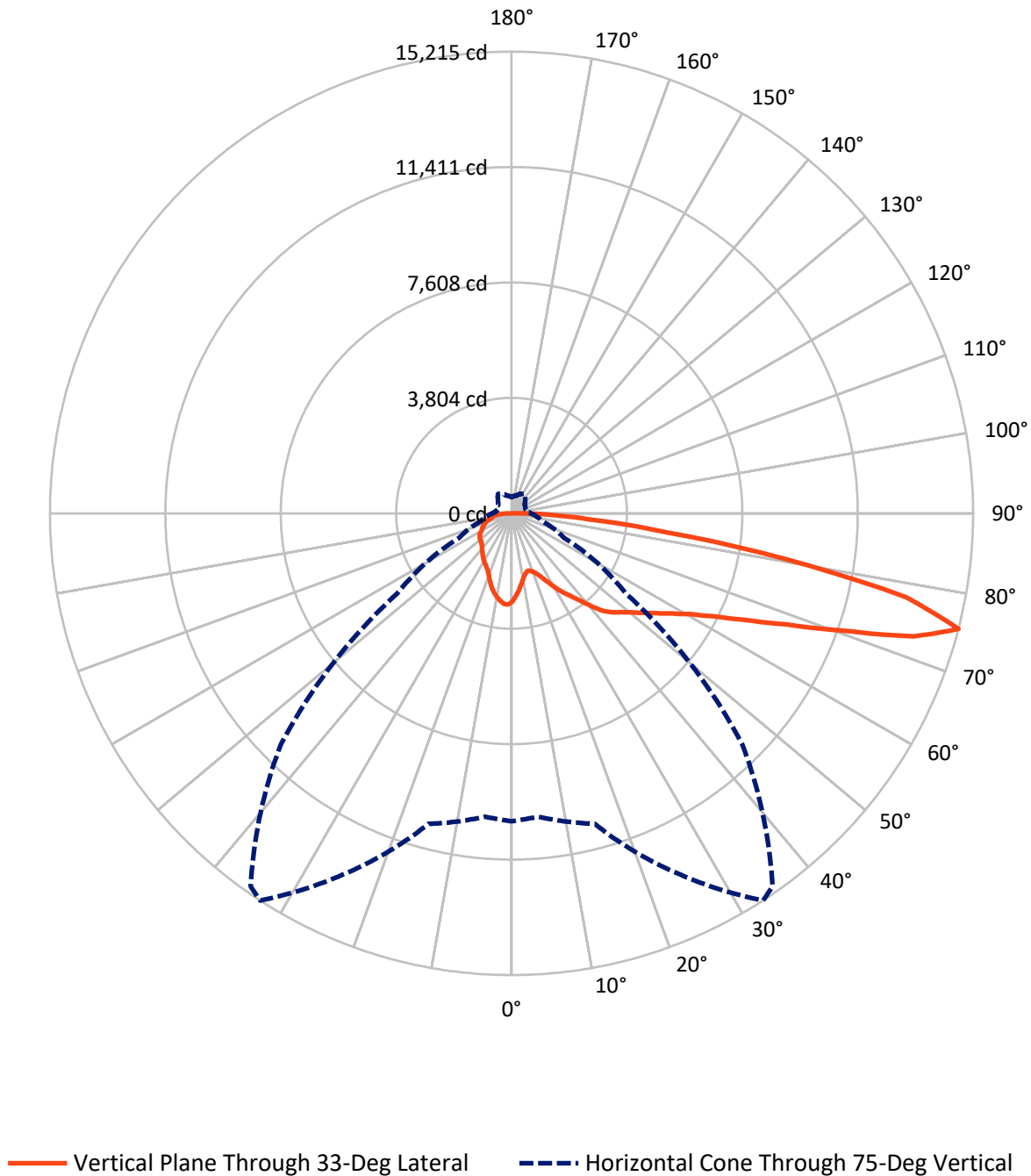
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3998.2	0.0	3998.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14621.8	0.0	14621.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	18620.0	0.0	18620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.4
10°-20°	712.9	3.8
20°-30°	1164.2	6.3
30°-40°	1733.8	9.3
40°-50°	2486.8	13.4
50°-60°	3414.0	18.3
60°-70°	4274.1	23.0
70°-80°	3866.6	20.8
80°-90°	704.3	3.8
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°	18620.0	100.0
0°-180°	18620.0	100.0

Coefficient of Utilization



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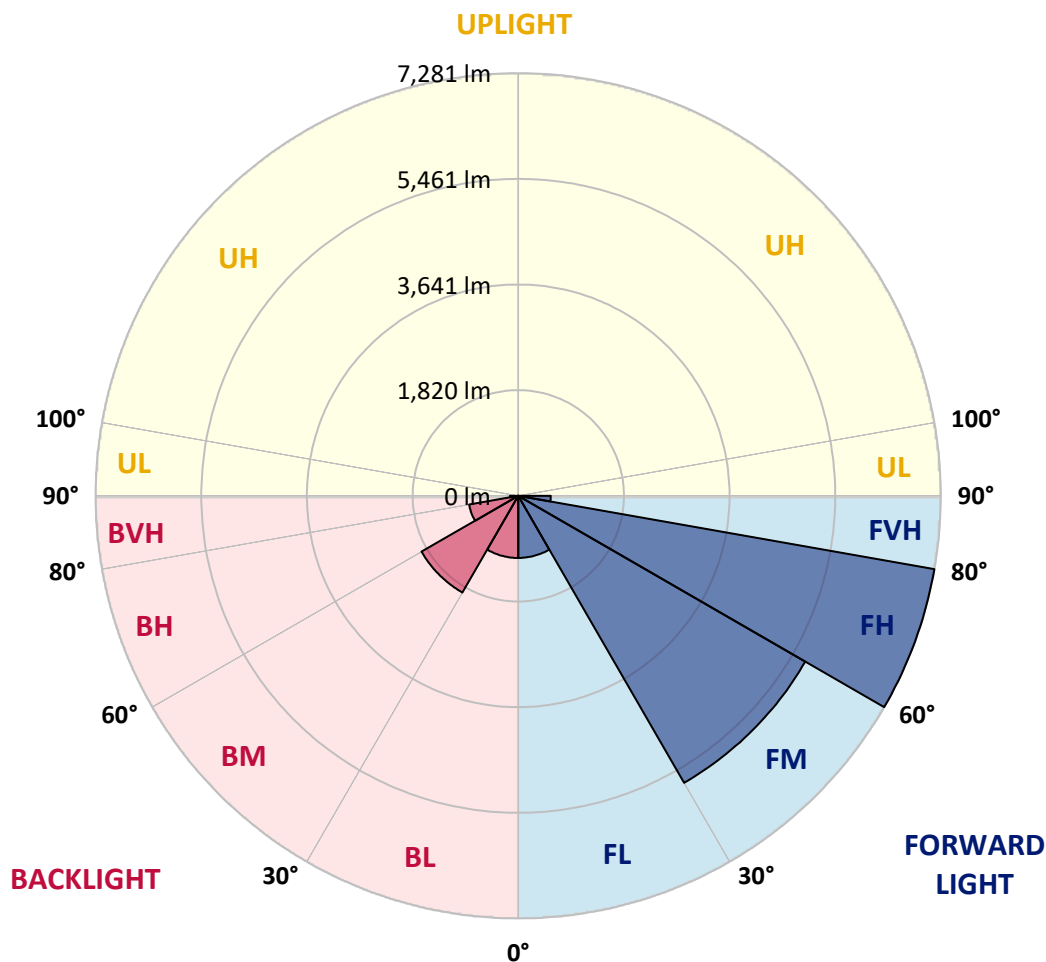
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.4	5.7			
FM	(30°-60°)	5710.4	30.7			
FH	(60°-80°)	7281.1	39.1			G3/7500
FVH	(80°-90°)	560.9	3.0			G4/750
BL	(0°-30°)	1070.9	5.8	B3/2500		
BM	(30°-60°)	1924.2	10.3	B2/2500		
BH	(60°-80°)	859.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	143.4	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4
2.5°	2702.7	2692.4	2711.7	2714.2	2731.0	2737.4	2760.5	2796.6	2826.2	2860.2	2891.1
5°	2457.6	2450.5	2477.5	2496.8	2533.5	2548.9	2603.6	2680.2	2748.3	2825.5	2895.6
7.5°	2224.8	2220.9	2251.1	2294.9	2337.3	2358.6	2453.1	2564.4	2678.2	2803.0	2910.4
10°	2028.6	2027.3	2056.3	2099.4	2161.7	2185.5	2307.7	2454.4	2613.9	2785.6	2935.5
12.5°	1918.6	1923.1	1936.6	1972.6	2030.5	2054.3	2190.0	2362.4	2559.9	2779.8	2972.2
15°	1945.6	1952.7	1929.6	1928.3	1969.4	1988.1	2115.4	2296.8	2521.3	2789.5	3025.5
17.5°	2060.8	2062.0	2000.9	1962.4	1987.4	1997.1	2092.3	2259.5	2498.8	2811.4	3092.4
20°	2222.8	2219.6	2111.6	2047.3	2060.8	2063.3	2125.1	2260.2	2496.8	2849.3	3179.3
22.5°	2437.7	2413.9	2268.5	2181.0	2177.8	2174.0	2209.3	2307.7	2525.1	2911.1	3282.8
25°	2718.1	2695.6	2495.6	2375.9	2350.2	2340.5	2345.7	2409.4	2581.1	2977.3	3398.6
27.5°	3030.0	2990.8	2797.9	2628.7	2575.3	2561.8	2530.9	2552.8	2642.2	3041.0	3536.2
30°	3291.2	3270.0	3101.4	2900.8	2837.7	2818.4	2737.4	2713.6	2730.3	3127.8	3709.9
32.5°	3437.2	3423.0	3320.8	3158.7	3100.1	3073.1	2958.6	2911.1	2871.8	3264.8	3945.3
35°	3614.1	3605.0	3543.3	3425.6	3338.8	3310.5	3221.7	3172.2	3071.2	3453.3	4249.5
37.5°	3839.2	3829.5	3830.8	3735.6	3632.1	3605.7	3547.2	3495.1	3329.8	3700.9	4580.1
40°	4093.9	4075.2	4068.1	4063.6	3998.0	3983.2	3952.4	3881.6	3653.9	3996.7	4906.2
42.5°	4477.2	4411.0	4269.5	4322.8	4387.8	4380.1	4405.2	4303.5	4014.1	4346.6	5224.6
45°	4847.0	4738.3	4493.9	4505.5	4647.7	4690.7	4878.6	4806.5	4404.5	4730.0	5553.9
47.5°	5015.6	4933.2	4725.5	4726.1	4867.0	4956.4	5368.0	5316.6	4814.9	5165.4	5955.9
50°	5204.0	5121.7	4935.2	5005.3	5128.1	5223.3	5840.8	5814.4	5205.3	5642.0	6437.6
52.5°	5409.8	5270.3	5151.9	5277.3	5449.7	5560.3	6314.1	6242.1	5563.5	6121.8	6991.4
55°	5412.4	5374.5	5464.5	5556.5	5814.4	5950.1	6810.0	6619.7	5855.6	6593.3	7442.3
57.5°	5720.5	5658.7	5849.8	5892.2	6229.2	6382.3	7303.4	6948.3	6152.7	6954.8	7685.4
60°	6128.3	6075.5	6231.8	6343.7	6742.5	6947.0	7830.1	7286.0	6386.2	7227.5	7673.8
62.5°	6832.6	6772.7	6770.8	6927.7	7464.8	7702.8	8421.2	7617.2	6478.8	7281.5	7346.5
65°	7863.6	7768.4	7588.9	7663.5	8462.4	8699.7	9081.8	7857.1	6356.6	6992.1	6503.2
67.5°	8866.9	8863.7	8643.1	8796.2	9779.6	9970.0	9834.3	7880.9	5975.2	5984.2	5007.2
70°	9867.1	9880.0	9842.7	10375.2	11559.3	11757.4	10635.7	7561.3	5117.8	4321.6	2999.8
72.5°	10659.5	10656.3	10844.1	12217.3	13869.0	13824.6	11311.0	6592.6	3674.5	2332.8	1433.7
75°	10146.2	10034.3	10593.9	13129.3	15215.2	14998.4	10736.7	4598.8	1907.0	1061.9	771.8
77.5°	6617.7	6723.9	7545.2	10846.0	13308.8	13045.1	7877.1	2145.7	898.5	696.6	559.6
80°	2396.5	2508.4	3533.0	6143.7	9169.2	9126.1	3879.0	881.8	607.8	526.1	407.8
82.5°	824.6	865.7	1393.8	2728.4	5177.0	5369.9	1459.4	501.0	441.9	373.0	279.1
85°	323.5	370.5	637.4	1312.7	2611.3	2630.6	591.1	299.7	307.4	244.4	153.1
87.5°	122.8	149.2	304.9	609.7	1192.5	1095.3	211.6	142.8	174.9	145.4	72.7
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°	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4	2910.4
2.5°	2914.9	2928.4	2956.7	2976.0	2996.6	3002.4	3005.0	3010.1	3015.2	3013.3	3014.0
5°	2932.9	2959.3	3005.0	3024.3	3033.3	3023.0	3003.0	2986.9	2975.4	2968.9	2967.0
7.5°	2962.5	2999.8	3048.7	3045.5	3024.9	2979.2	2927.8	2889.2	2857.0	2845.4	2839.0
10°	3001.7	3045.5	3079.6	3042.9	2983.1	2904.0	2826.8	2767.0	2718.7	2700.1	2696.9
12.5°	3051.9	3096.3	3102.7	3024.9	2925.8	2817.8	2713.0	2633.8	2561.8	2538.6	2533.5
15°	3116.9	3158.7	3118.8	2993.4	2855.1	2709.7	2574.0	2466.6	2390.7	2362.4	2352.1
17.5°	3185.1	3224.9	3122.0	2941.3	2762.5	2581.7	2411.3	2301.3	2214.5	2181.7	2177.8
20°	3266.7	3284.7	3108.5	2866.7	2635.1	2415.8	2236.4	2132.8	2086.5	2063.3	2060.8
22.5°	3367.7	3348.4	3077.6	2765.7	2473.7	2224.1	2078.1	2029.9	2018.3	2013.2	2015.1
25°	3474.5	3415.3	3032.0	2633.8	2269.8	2032.5	1962.4	1975.9	1991.3	1989.4	1989.4
27.5°	3592.2	3483.5	2961.9	2458.9	2044.0	1875.5	1883.9	1933.4	1956.6	1955.9	1955.3
30°	3743.3	3560.7	2872.5	2248.6	1833.1	1764.9	1815.7	1876.2	1907.7	1906.4	1907.0
32.5°	3929.2	3645.6	2750.9	2013.8	1680.6	1683.2	1741.7	1801.6	1838.2	1835.0	1835.6
35°	4146.6	3740.8	2586.2	1782.3	1579.7	1618.3	1664.6	1706.4	1741.1	1736.6	1732.1
37.5°	4383.3	3834.0	2367.6	1575.2	1497.3	1557.8	1596.4	1603.5	1619.5	1608.0	1599.6
40°	4608.4	3905.4	2085.8	1405.4	1414.4	1506.3	1531.4	1503.1	1474.2	1470.3	1458.7
42.5°	4804.6	3929.2	1800.9	1269.6	1326.9	1452.3	1467.7	1408.6	1356.5	1332.0	1321.7
45°	5011.7	3937.6	1535.3	1155.8	1242.6	1404.1	1420.8	1341.7	1268.4	1215.6	1198.3
47.5°	5282.5	3998.0	1328.8	1071.5	1178.3	1371.9	1395.7	1288.3	1193.1	1117.9	1101.8
50°	5636.9	4117.7	1160.9	1007.2	1136.5	1350.7	1377.7	1236.2	1131.4	1040.7	1024.6
52.5°	6030.5	4227.7	1025.2	955.1	1096.0	1313.4	1354.5	1198.9	1073.5	969.3	951.9
55°	6305.8	4143.4	915.9	901.1	1043.2	1260.0	1322.4	1167.4	990.5	899.8	884.4
57.5°	6358.5	3855.2	832.9	845.1	979.6	1193.1	1272.9	1097.3	945.5	869.6	853.5
60°	6214.4	3453.9	771.2	793.7	911.4	1108.9	1180.2	1047.7	902.4	837.4	823.9
62.5°	5852.3	3042.9	725.5	747.4	847.7	1023.3	1122.4	995.6	858.7	800.8	787.3
65°	5121.0	2554.7	681.8	706.2	788.5	949.3	1070.3	947.4	815.6	771.2	758.3
67.5°	3865.5	1913.5	640.6	662.5	735.8	885.0	1013.7	899.8	773.8	745.5	730.0
70°	2276.2	1198.3	593.7	616.8	680.5	818.1	953.2	847.7	721.7	708.8	688.9
72.5°	1059.3	721.0	540.3	562.8	611.0	728.7	875.4	779.5	659.9	631.6	604.6
75°	632.3	527.4	477.2	497.2	531.3	633.5	777.6	710.1	601.4	564.1	535.8
77.5°	472.7	403.3	407.8	429.0	456.7	554.4	688.9	655.4	556.4	527.4	508.1
80°	340.2	306.2	332.5	355.7	384.6	504.3	659.9	605.9	503.0	464.4	446.4
82.5°	227.0	220.0	250.2	274.0	302.3	441.2	620.0	530.6	429.6	380.8	340.9
85°	125.4	132.5	168.5	178.8	203.2	310.7	508.1	426.4	323.5	260.5	248.9
87.5°	52.1	61.1	90.7	87.5	108.1	185.2	334.5	257.3	205.8	153.7	119.6
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)