

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: P318788

Luminaire Tested: **GAN-SA4A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318788
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-SA4A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 18911 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

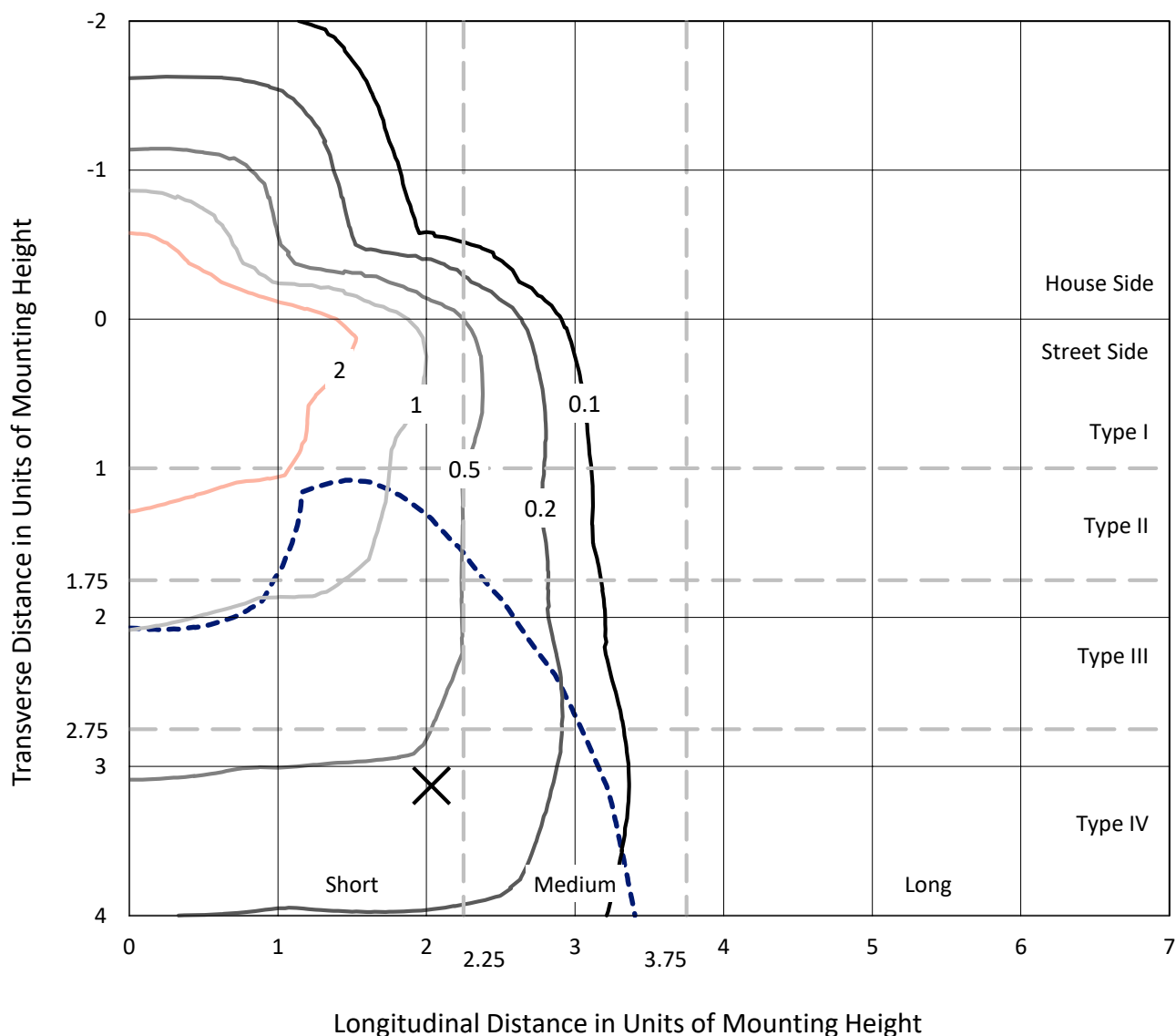
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

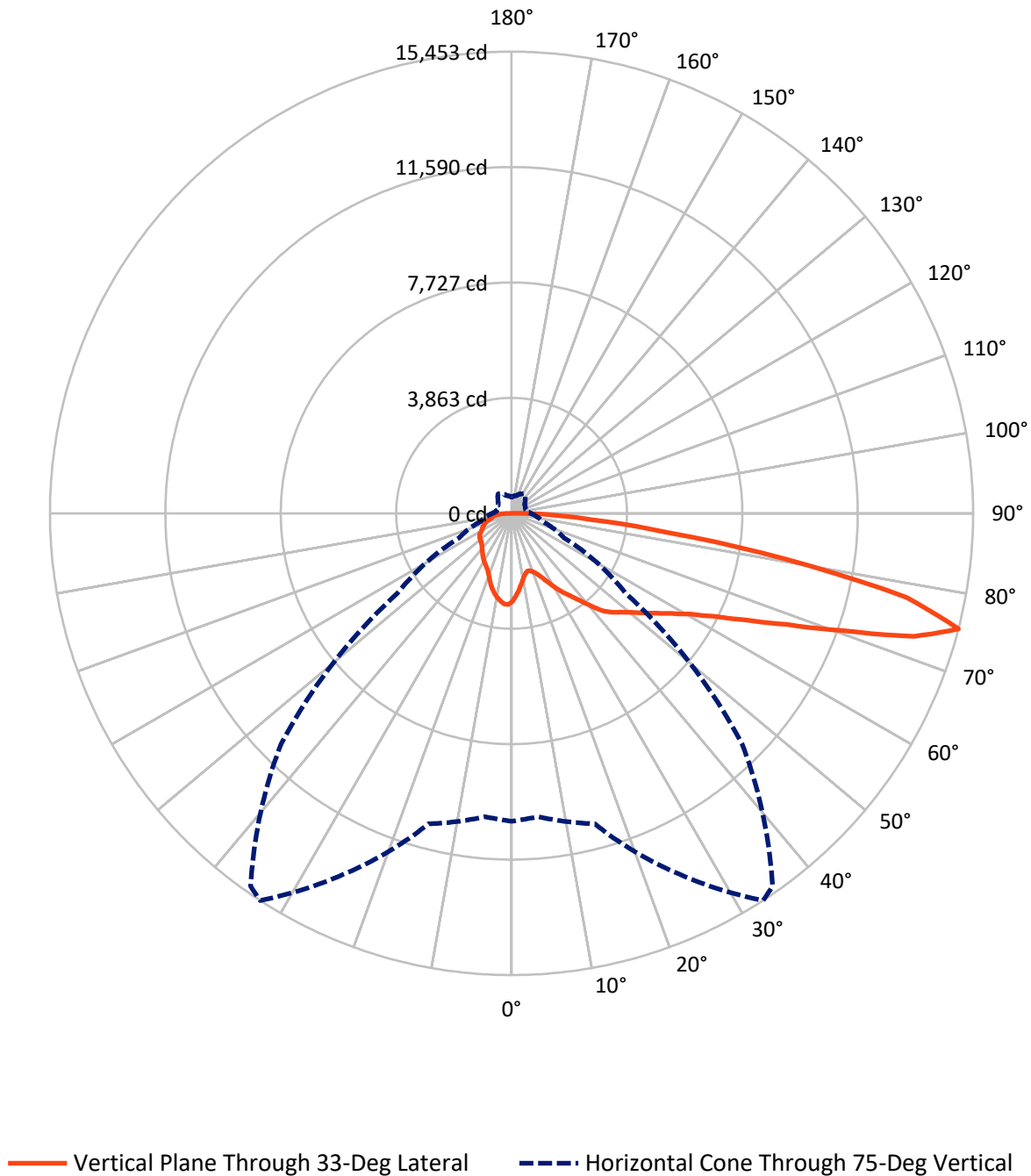
× Max cd
 - - - 1/2 Max cd



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	4060.7	0.0	4060.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14850.3	0.0	14850.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	18911.0	0.0	18911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	1.4
10°-20°	724.0	3.8
20°-30°	1182.4	6.3
30°-40°	1760.9	9.3
40°-50°	2525.6	13.4
50°-60°	3467.3	18.3
60°-70°	4340.9	23.0
70°-80°	3927.0	20.8
80°-90°	715.3	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°	18911.0	100.0
0°-180°	18911.0	100.0

Coefficient of Utilization



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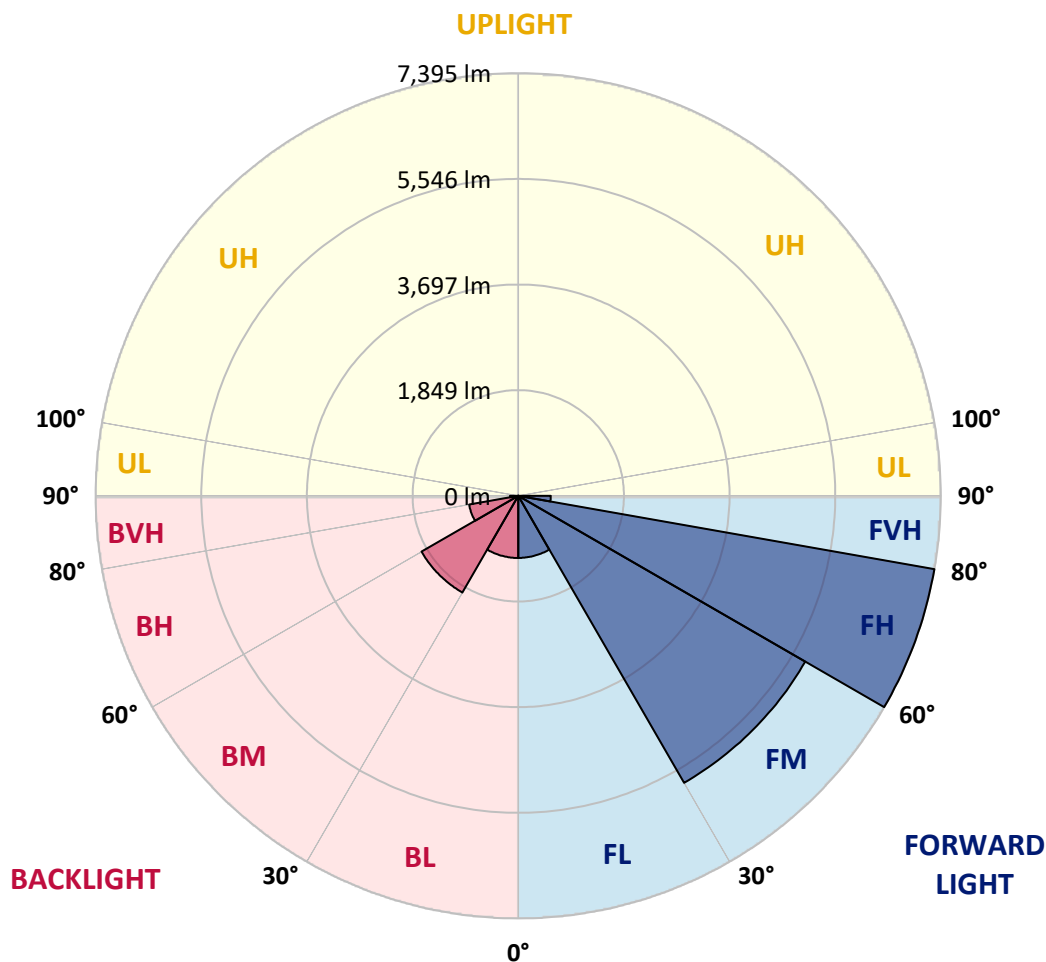
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.1	5.7			
FM	(30°-60°)	5799.6	30.7			
FH	(60°-80°)	7394.9	39.1			G3/7500
FVH	(80°-90°)	569.7	3.0			G4/750
BL	(0°-30°)	1087.6	5.8	B3/2500		
BM	(30°-60°)	1954.3	10.3	B2/2500		
BH	(60°-80°)	873.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	145.6	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°	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9
2.5°	2744.9	2734.4	2754.0	2756.7	2773.6	2780.2	2803.7	2840.3	2870.3	2904.9	2936.3
5°	2496.0	2488.8	2516.3	2535.9	2573.1	2588.8	2644.3	2722.0	2791.3	2869.7	2940.9
7.5°	2259.5	2255.6	2286.3	2330.7	2373.9	2395.4	2491.4	2604.5	2720.1	2846.8	2955.9
10°	2060.3	2059.0	2088.4	2132.2	2195.5	2219.7	2343.8	2492.8	2654.8	2829.2	2981.4
12.5°	1948.6	1953.2	1966.9	2003.5	2062.3	2086.4	2224.3	2399.3	2599.9	2823.3	3018.6
15°	1976.0	1983.2	1959.7	1958.4	2000.2	2019.2	2148.5	2332.7	2560.7	2833.1	3072.8
17.5°	2093.0	2094.3	2032.2	1993.0	2018.5	2028.3	2125.0	2294.8	2537.8	2855.3	3140.8
20°	2257.6	2254.3	2144.6	2079.3	2093.0	2095.6	2158.3	2295.5	2535.9	2893.8	3228.9
22.5°	2475.8	2451.6	2304.0	2215.1	2211.9	2207.9	2243.9	2343.8	2564.6	2956.5	3334.1
25°	2760.6	2737.7	2534.6	2413.1	2386.9	2377.1	2382.4	2447.0	2621.4	3023.8	3451.7
27.5°	3077.4	3037.5	2841.6	2669.8	2615.6	2601.8	2570.5	2592.7	2683.5	3088.5	3591.5
30°	3342.6	3321.1	3149.9	2946.1	2882.1	2862.5	2780.2	2756.0	2773.0	3176.7	3767.9
32.5°	3490.9	3476.5	3372.7	3208.0	3148.6	3121.2	3004.9	2956.5	2916.7	3315.8	4007.0
35°	3670.5	3661.4	3598.7	3479.1	3391.0	3362.2	3272.1	3221.8	3119.2	3507.2	4315.9
37.5°	3899.2	3889.4	3890.7	3794.0	3688.8	3662.0	3602.6	3549.7	3381.8	3758.7	4651.7
40°	4157.9	4138.9	4131.7	4127.1	4060.5	4045.5	4014.1	3942.3	3711.0	4059.2	4982.9
42.5°	4547.2	4479.9	4336.2	4390.4	4456.4	4448.5	4474.0	4370.8	4076.8	4414.6	5306.2
45°	4922.8	4812.4	4564.2	4575.9	4720.3	4764.1	4954.8	4881.6	4473.4	4803.9	5640.7
47.5°	5093.9	5010.3	4799.3	4800.0	4943.0	5033.8	5451.9	5399.7	4890.1	5246.1	6049.0
50°	5285.3	5201.7	5012.3	5083.5	5208.3	5304.9	5932.0	5905.3	5286.6	5730.2	6538.2
52.5°	5494.4	5352.6	5232.4	5359.8	5534.9	5647.2	6412.8	6339.7	5650.5	6217.5	7100.7
55°	5497.0	5458.4	5549.9	5643.3	5905.3	6043.1	6916.5	6723.1	5947.1	6696.3	7558.6
57.5°	5809.9	5747.2	5941.2	5984.3	6326.6	6482.1	7417.5	7056.9	6248.9	7063.4	7805.5
60°	6224.0	6170.5	6329.2	6442.9	6847.9	7055.6	7952.5	7399.9	6486.0	7340.4	7793.8
62.5°	6939.3	6878.6	6876.6	7036.0	7581.5	7823.2	8552.8	7736.3	6580.1	7395.3	7461.3
65°	7986.5	7889.8	7707.5	7783.3	8594.6	8835.7	9223.7	7979.9	6455.9	7101.3	6604.9
67.5°	9005.5	9002.3	8778.2	8933.7	9932.5	10125.8	9988.0	8004.1	6068.6	6077.7	5085.4
70°	10021.3	10034.4	9996.5	10537.4	11740.0	11941.2	10801.9	7679.4	5197.8	4389.1	3046.7
72.5°	10826.1	10822.8	11013.6	12408.2	14085.7	14040.7	11487.8	6695.7	3731.9	2369.3	1456.1
75°	10304.8	10191.1	10759.5	13334.5	15453.0	15232.8	10904.5	4670.6	1936.8	1078.5	783.9
77.5°	6721.2	6828.9	7663.1	11015.5	13516.8	13248.9	8000.2	2179.2	912.6	707.5	568.3
80°	2434.0	2547.6	3588.2	6239.7	9312.5	9268.8	3939.7	895.6	617.3	534.3	414.2
82.5°	837.4	879.3	1415.6	2771.0	5257.9	5453.9	1482.2	508.9	448.8	378.9	283.5
85°	328.6	376.3	647.4	1333.3	2652.1	2671.7	600.3	304.4	312.2	248.2	155.5
87.5°	124.8	151.6	309.6	619.3	1211.1	1112.5	214.9	145.0	177.7	147.6	73.8
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°	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9	2955.9
2.5°	2960.5	2974.2	3002.9	3022.5	3043.4	3049.3	3051.9	3057.1	3062.4	3060.4	3061.1
5°	2978.8	3005.5	3051.9	3071.5	3080.7	3070.2	3050.0	3033.6	3021.9	3015.3	3013.4
7.5°	3008.8	3046.7	3096.3	3093.1	3072.2	3025.8	2973.5	2934.3	2901.7	2889.9	2883.4
10°	3048.7	3093.1	3127.7	3090.5	3029.7	2949.4	2871.0	2810.2	2761.2	2742.3	2739.0
12.5°	3099.6	3144.7	3151.2	3072.2	2971.6	2861.8	2755.4	2675.0	2601.8	2578.3	2573.1
15°	3165.6	3208.0	3167.5	3040.2	2899.7	2752.1	2614.3	2505.2	2428.1	2399.3	2388.9
17.5°	3234.8	3275.3	3170.8	2987.3	2805.7	2622.1	2449.0	2337.3	2249.1	2215.8	2211.9
20°	3317.8	3336.1	3157.1	2911.5	2676.3	2453.6	2271.3	2166.1	2119.1	2095.6	2093.0
22.5°	3420.3	3400.7	3125.7	2808.9	2512.3	2258.9	2110.6	2061.6	2049.9	2044.6	2046.6
25°	3528.8	3468.7	3079.4	2675.0	2305.3	2064.2	1993.0	2006.7	2022.4	2020.5	2020.5
27.5°	3648.3	3537.9	3008.2	2497.3	2076.0	1904.8	1913.3	1963.6	1987.1	1986.5	1985.8
30°	3801.8	3616.3	2917.4	2283.7	1861.7	1792.5	1844.1	1905.5	1937.5	1936.2	1936.8
32.5°	3990.6	3702.5	2793.9	2045.3	1706.9	1709.5	1769.0	1829.7	1867.0	1863.7	1864.3
35°	4211.4	3799.2	2626.7	1810.1	1604.3	1643.5	1690.6	1733.0	1768.3	1763.7	1759.2
37.5°	4451.8	3893.9	2404.6	1599.8	1520.7	1582.1	1621.3	1628.5	1644.8	1633.1	1624.6
40°	4680.4	3966.5	2118.4	1427.3	1436.5	1529.9	1555.4	1526.6	1497.2	1493.3	1481.5
42.5°	4879.7	3990.6	1829.1	1289.5	1347.6	1475.0	1490.7	1430.6	1377.7	1352.9	1342.4
45°	5090.0	3999.1	1559.3	1173.9	1262.1	1426.0	1443.0	1362.7	1288.2	1234.6	1217.0
47.5°	5365.0	4060.5	1349.6	1088.3	1196.7	1393.4	1417.5	1308.4	1211.8	1135.3	1119.0
50°	5725.0	4182.0	1179.1	1023.0	1154.3	1371.8	1399.2	1255.5	1149.0	1056.9	1040.6
52.5°	6124.7	4293.7	1041.3	970.1	1113.1	1333.9	1375.7	1217.6	1090.3	984.4	966.8
55°	6404.3	4208.1	930.2	915.2	1059.5	1279.7	1343.1	1185.6	1006.0	913.9	898.2
57.5°	6457.9	3915.5	845.9	858.4	994.9	1211.8	1292.8	1114.4	960.3	883.2	866.8
60°	6311.6	3507.9	783.2	806.1	925.6	1126.2	1198.7	1064.1	916.5	850.5	836.8
62.5°	5943.8	3090.5	736.9	759.1	861.0	1039.3	1139.9	1011.2	872.1	813.3	799.6
65°	5201.1	2594.7	692.4	717.3	800.9	964.2	1087.0	962.2	828.3	783.2	770.2
67.5°	3926.0	1943.4	650.6	672.8	747.3	898.9	1029.5	913.9	785.8	757.1	741.4
70°	2311.8	1217.0	602.9	626.5	691.1	830.9	968.1	861.0	732.9	719.9	699.6
72.5°	1075.9	732.3	548.7	571.6	620.6	740.1	889.1	791.7	670.2	641.5	614.0
75°	642.1	535.7	484.7	505.0	539.6	643.4	789.8	721.2	610.8	572.9	544.1
77.5°	480.1	409.6	414.2	435.7	463.8	563.1	699.6	665.6	565.0	535.7	516.1
80°	345.6	310.9	337.7	361.2	390.6	512.1	670.2	615.3	510.8	471.6	453.3
82.5°	230.6	223.4	254.1	278.3	307.0	448.1	629.7	538.9	436.4	386.7	346.2
85°	127.4	134.6	171.1	181.6	206.4	315.5	516.1	433.1	328.6	264.6	252.8
87.5°	52.9	62.1	92.1	88.8	109.7	188.1	339.7	261.3	209.0	156.1	121.5
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)