

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: P319151

Luminaire Tested: **GAN-SA7A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319151
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-SA7A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 24062 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

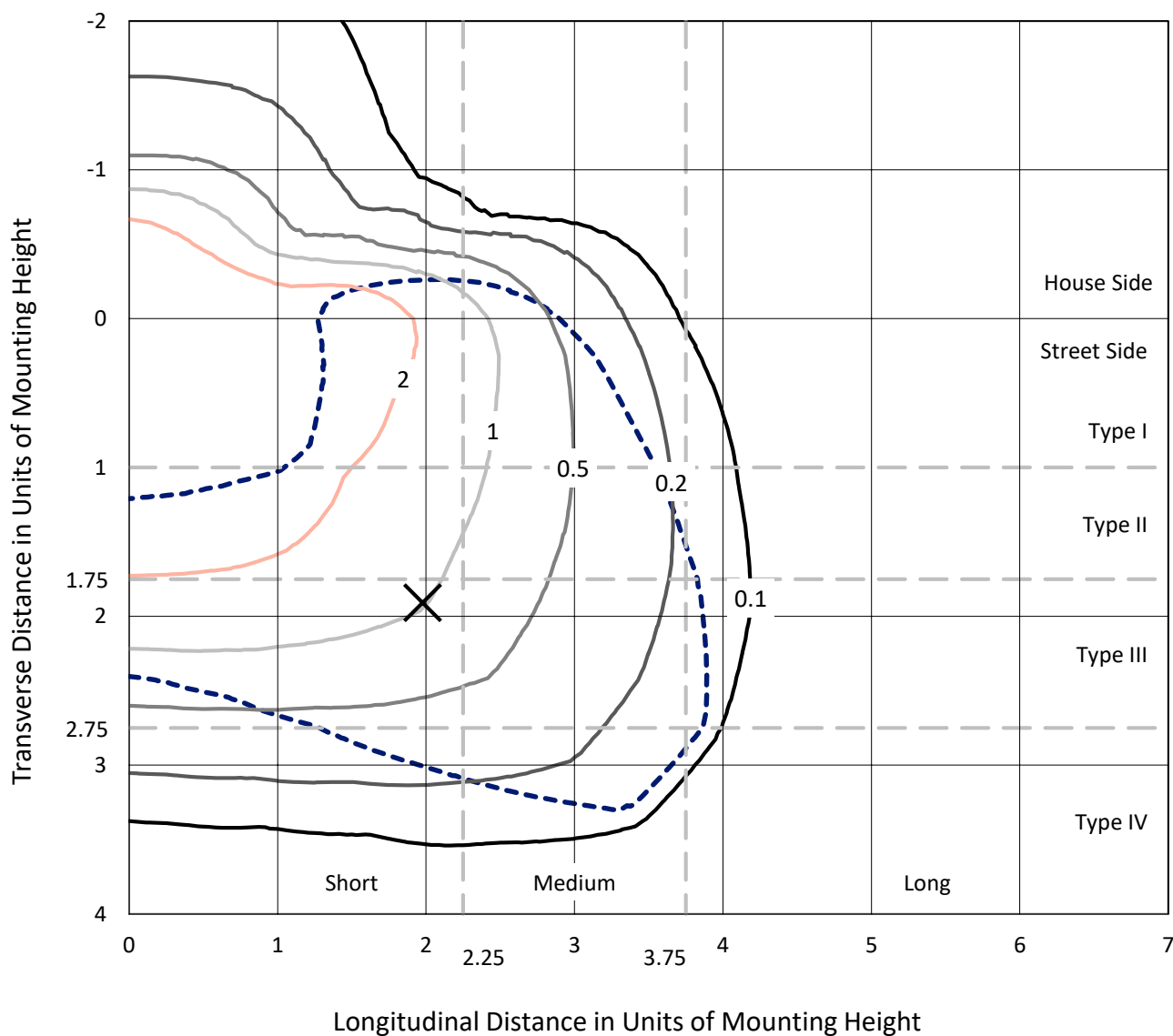
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

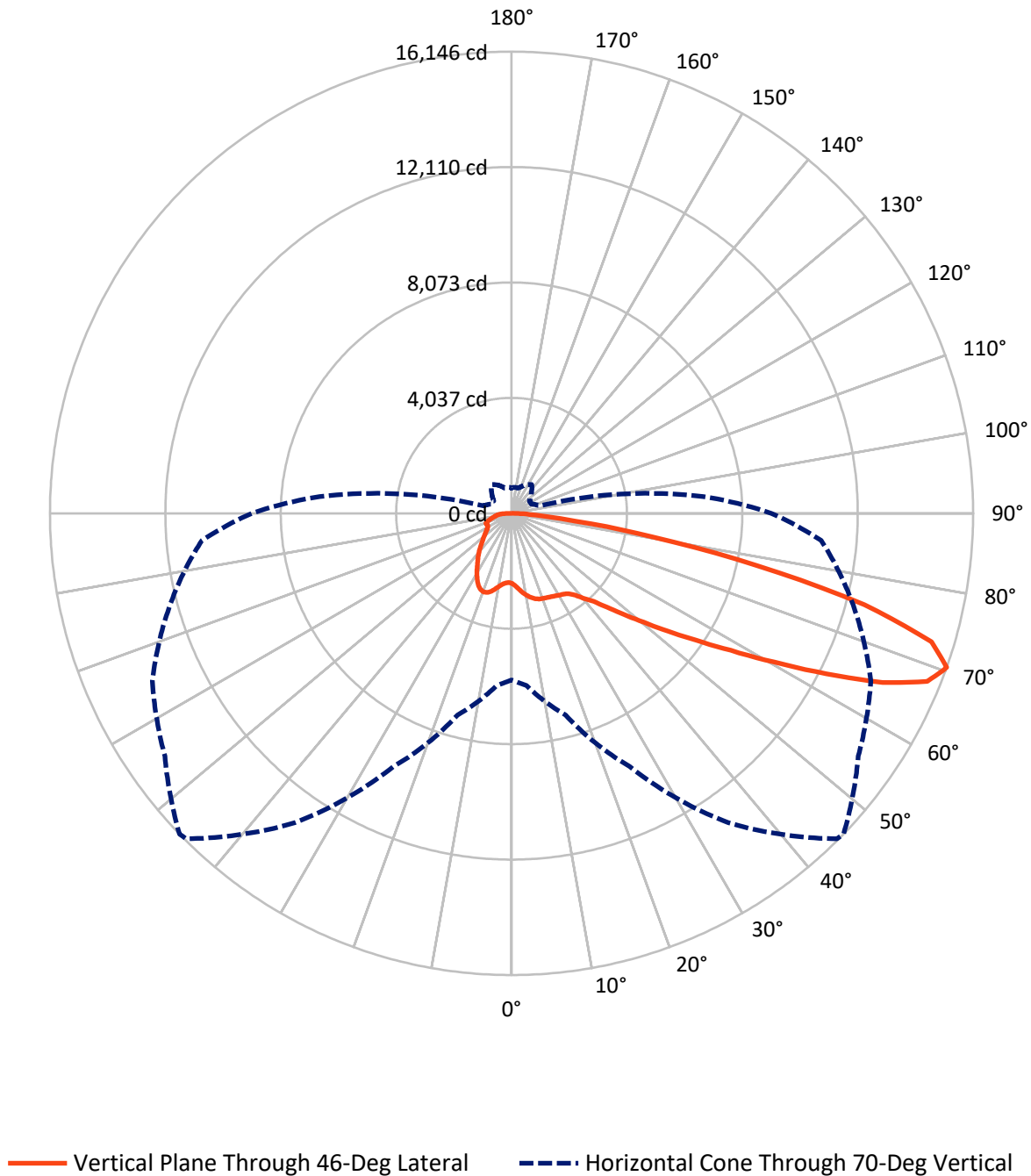
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	5514.9	0.0	5514.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18547.1	0.0	18547.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	24062.0	0.0	24062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.0
10°-20°	832.6	3.5
20°-30°	1388.3	5.8
30°-40°	1970.1	8.2
40°-50°	2897.9	12.0
50°-60°	4907.5	20.4
60°-70°	6966.1	29.0
70°-80°	4232.0	17.6
80°-90°	617.6	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°	24062.0	100.0
0°-180°	24062.0	100.0

Coefficient of Utilization



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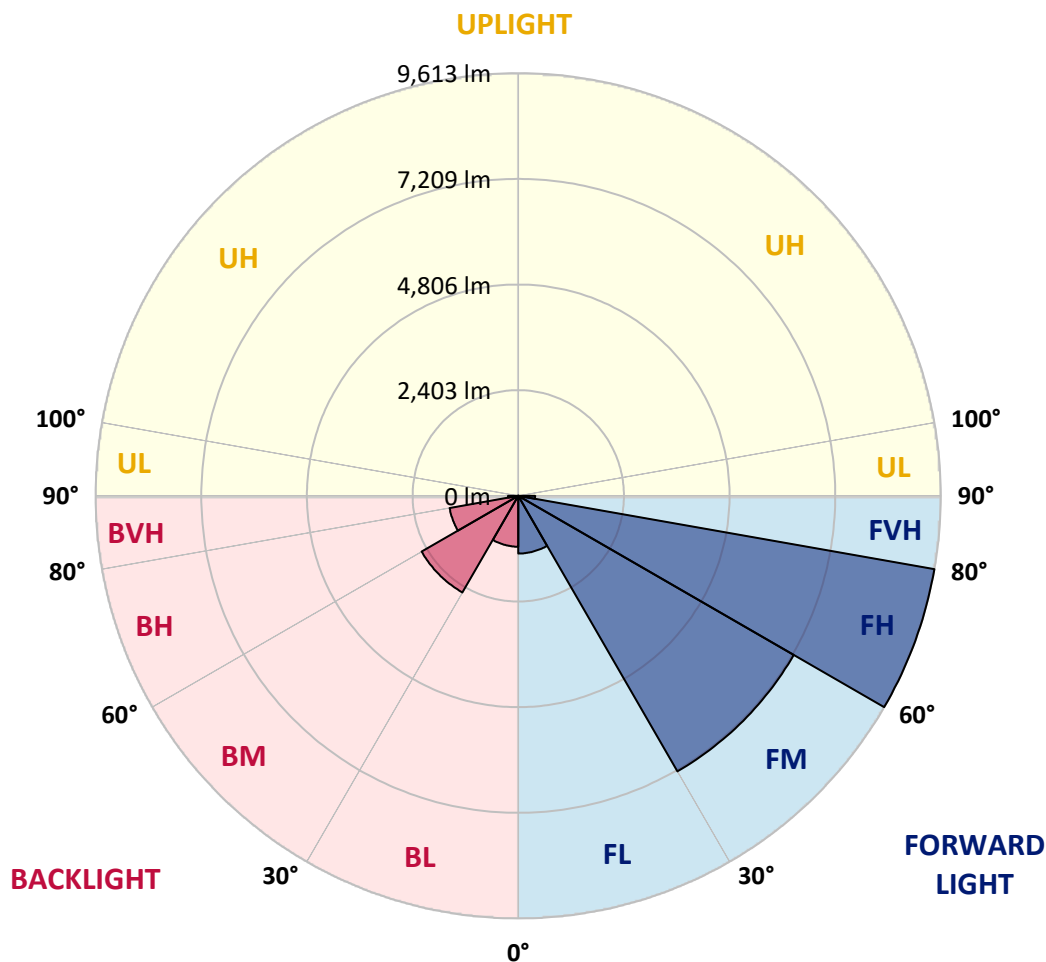
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1312.9	5.5			
FM	(30°-60°)	7236.8	30.1			
FH	(60°-80°)	9612.6	39.9			G4/12000
FVH	(80°-90°)	384.7	1.6			G3/500
BL	(0°-30°)	1157.9	4.8	B3/2500		
BM	(30°-60°)	2538.7	10.6	B3/5000		
BH	(60°-80°)	1585.5	6.6	B3/2500		G3/2500
BVH	(80°-90°)	232.9	1.0			G3/500
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°	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4
2.5°	2574.1	2575.8	2579.1	2570.8	2547.8	2541.2	2538.7	2514.9	2499.2	2476.2	2456.4
5°	2780.0	2781.7	2776.7	2753.7	2702.6	2664.7	2661.4	2607.1	2557.7	2505.0	2465.4
7.5°	2994.9	2997.4	2981.8	2938.1	2866.5	2800.6	2796.5	2722.4	2647.4	2567.6	2508.3
10°	3185.2	3175.3	3149.7	3088.8	3004.0	2923.3	2920.0	2842.6	2756.1	2659.8	2580.7
12.5°	3312.0	3303.7	3270.8	3196.7	3103.6	3029.5	3022.9	2951.3	2867.3	2761.9	2667.2
15°	3382.0	3387.7	3343.3	3259.3	3168.7	3106.1	3100.3	3049.3	2974.3	2868.1	2759.4
17.5°	3391.0	3396.0	3353.1	3270.0	3195.9	3153.0	3150.6	3116.8	3062.5	2960.3	2846.7
20°	3338.3	3341.6	3306.2	3237.9	3189.3	3176.1	3175.3	3160.4	3120.1	3029.5	2919.2
22.5°	3261.7	3264.2	3238.7	3189.3	3172.8	3193.4	3199.2	3193.4	3164.6	3079.7	2976.0
25°	3242.8	3241.1	3214.8	3164.6	3178.6	3222.2	3229.6	3232.1	3212.3	3138.2	3048.5
27.5°	3334.2	3328.4	3278.2	3197.5	3206.6	3259.3	3269.1	3293.0	3280.7	3215.6	3130.8
30°	3598.5	3588.6	3485.7	3322.7	3278.2	3305.4	3317.7	3355.6	3358.1	3303.7	3240.3
32.5°	4044.8	4032.5	3848.0	3556.5	3399.3	3352.3	3363.8	3420.7	3451.1	3409.1	3340.8
35°	4608.9	4594.9	4352.8	3954.3	3601.8	3442.1	3450.3	3495.6	3556.5	3497.2	3406.7
37.5°	5196.9	5163.1	4930.1	4422.0	3923.8	3633.9	3633.9	3639.7	3668.5	3545.0	3484.1
40°	5781.5	5747.8	5537.0	4972.1	4340.5	3936.1	3917.2	3789.6	3766.5	3660.3	3639.7
42.5°	6325.0	6315.1	6190.8	5593.8	4829.6	4233.4	4207.1	3990.5	3995.4	3929.6	3930.4
45°	6903.1	6903.1	6801.8	6221.3	5399.4	4711.0	4684.7	4366.0	4415.4	4384.9	4458.2
47.5°	7374.9	7389.7	7375.8	6875.1	6062.3	5317.9	5270.2	4886.4	5024.8	5129.3	5342.6
50°	7856.7	7879.7	7882.2	7592.3	6863.6	6039.3	5984.9	5577.3	5886.1	6185.8	6605.0
52.5°	8555.8	8607.6	8401.0	8307.9	7845.1	6895.7	6842.1	6465.8	6981.3	7402.1	8124.3
55°	9203.8	9158.5	9011.1	9068.8	8895.9	7870.7	7830.3	7500.1	8201.7	8748.5	9686.4
57.5°	9554.6	9551.3	9699.6	9946.6	10028.9	9072.9	9039.1	8718.0	9577.7	9988.6	11153.0
60°	9966.4	9972.1	10339.4	10900.2	11239.4	10570.0	10555.1	10311.4	10914.2	11146.4	12303.3
62.5°	10024.0	10127.8	10760.2	11725.3	12372.5	12319.0	12351.9	11746.7	12109.8	12070.3	13162.2
65°	9361.1	9497.8	10642.4	11974.8	13499.0	14231.9	14262.4	13190.2	13052.7	12860.0	13469.4
67.5°	8002.4	8205.0	9448.4	11432.1	13870.4	15645.8	15688.6	14309.3	13835.0	13127.6	12729.9
70°	5823.5	6048.3	7300.0	9763.8	13208.3	16097.9	16146.4	14804.2	13864.6	12365.9	10867.2
72.5°	3517.8	3694.1	4725.8	7188.0	11148.0	15274.4	15360.9	14176.7	12658.3	10474.4	8024.6
75°	1544.8	1660.1	2285.1	4142.0	7981.0	12637.7	12745.5	12134.5	10285.0	7612.1	4743.1
77.5°	657.9	690.9	937.1	1799.3	4511.7	8635.6	8783.9	8866.2	6978.0	4142.0	2004.3
80°	410.1	423.3	530.3	814.4	2111.4	4850.2	5009.9	5216.6	3465.1	1522.6	699.9
82.5°	249.5	264.3	352.4	492.4	1099.3	2198.6	2275.2	2421.0	1344.7	657.9	362.3
85°	149.9	160.6	215.7	311.3	625.8	864.6	863.8	955.2	633.2	423.3	191.0
87.5°	71.6	79.9	115.3	161.4	315.4	324.4	303.9	344.2	384.6	277.5	96.3
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°	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4	2451.4
2.5°	2449.8	2446.5	2435.8	2427.6	2425.9	2421.0	2416.9	2419.3	2422.6	2423.4	2423.4
5°	2449.0	2439.9	2425.9	2420.2	2427.6	2437.4	2449.8	2466.3	2476.2	2483.6	2488.5
7.5°	2488.5	2471.2	2455.6	2452.3	2467.1	2493.4	2521.4	2556.0	2579.9	2596.4	2599.7
10°	2554.4	2533.0	2517.3	2520.6	2547.0	2584.8	2624.4	2668.8	2705.1	2727.3	2729.0
12.5°	2630.1	2609.6	2594.7	2608.7	2652.4	2698.5	2739.7	2778.4	2811.3	2833.5	2833.5
15°	2717.4	2702.6	2685.3	2717.4	2776.7	2817.9	2835.2	2854.1	2872.2	2888.7	2885.4
17.5°	2801.4	2787.4	2778.4	2816.2	2878.0	2896.9	2885.4	2871.4	2871.4	2880.5	2882.1
20°	2873.9	2861.5	2867.3	2904.4	2936.5	2916.7	2873.9	2829.4	2811.3	2816.2	2821.2
22.5°	2937.3	2931.5	2948.8	2966.1	2943.1	2873.9	2794.8	2734.7	2712.5	2710.8	2712.5
25°	3011.4	3010.6	3032.0	3000.7	2898.6	2771.0	2664.7	2606.3	2593.9	2603.8	2620.3
27.5°	3103.6	3112.7	3123.4	3008.9	2808.0	2615.3	2507.4	2467.1	2479.4	2503.3	2519.0
30°	3221.4	3246.1	3223.0	2988.3	2677.9	2437.4	2334.5	2323.0	2356.7	2390.5	2407.0
32.5°	3335.8	3374.5	3318.6	2934.8	2509.9	2248.9	2169.0	2165.7	2206.9	2239.8	2262.9
35°	3428.1	3504.7	3390.2	2828.6	2315.6	2075.1	2016.7	1994.4	2009.2	2048.0	2074.3
37.5°	3548.3	3675.9	3439.6	2666.4	2104.8	1931.8	1863.5	1812.4	1799.3	1814.9	1828.1
40°	3768.2	3937.0	3462.7	2439.9	1898.9	1788.6	1719.4	1644.5	1592.6	1554.7	1555.5
42.5°	4127.2	4277.1	3447.8	2164.9	1708.7	1648.6	1570.3	1483.9	1399.9	1314.2	1307.7
45°	4710.2	4782.7	3403.4	1873.4	1541.5	1502.0	1428.7	1342.2	1230.3	1133.1	1124.0
47.5°	5643.2	5482.6	3334.2	1618.9	1394.1	1377.7	1310.1	1210.5	1091.9	1013.7	1007.1
50°	6915.4	6493.0	3300.4	1416.4	1264.0	1269.0	1213.8	1108.4	996.4	938.7	932.2
52.5°	8437.2	7669.7	3365.5	1259.9	1159.4	1176.7	1135.6	1036.7	942.9	897.6	891.0
55°	10015.8	8888.5	3435.5	1146.3	1060.6	1094.4	1080.4	998.9	914.0	872.0	866.3
57.5°	11367.1	9798.4	3295.5	1054.0	972.5	1025.2	1037.6	975.0	899.2	861.3	854.8
60°	12217.7	10164.8	2928.2	967.6	902.5	970.0	1012.9	968.4	905.0	901.7	896.8
62.5°	12621.2	10132.7	2377.3	899.2	858.9	946.2	1031.0	1005.4	970.9	1000.5	1003.0
65°	12440.0	9648.5	1770.4	853.9	827.6	955.2	1085.3	1075.4	989.8	1019.4	1023.6
67.5°	11247.7	8493.2	1311.0	814.4	793.0	980.7	1184.1	1098.5	952.7	974.2	961.0
70°	9091.0	6733.5	1011.2	769.9	757.6	977.4	1228.6	1084.5	912.4	917.3	881.9
72.5°	6269.0	4591.6	822.6	728.8	706.5	891.0	1197.3	1049.9	878.6	840.8	793.8
75°	3409.1	2464.6	699.1	685.9	616.8	782.3	1139.7	1025.2	848.2	797.9	771.6
77.5°	1341.4	1022.7	606.9	627.5	539.4	690.9	1075.4	978.3	806.2	740.3	727.1
80°	547.6	522.1	503.1	542.7	463.6	604.4	998.0	923.1	755.9	686.8	660.4
82.5°	310.4	324.4	391.1	428.2	376.3	556.7	961.0	878.6	695.8	615.1	583.8
85°	158.9	190.2	272.6	307.2	276.7	473.5	885.2	769.1	558.3	471.0	473.5
87.5°	76.6	106.2	172.1	192.7	179.5	342.6	661.2	557.5	434.8	344.2	333.5
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)