

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: P319118

Luminaire Tested: **GAN-SA4B-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319118
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-SA4B-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22891 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

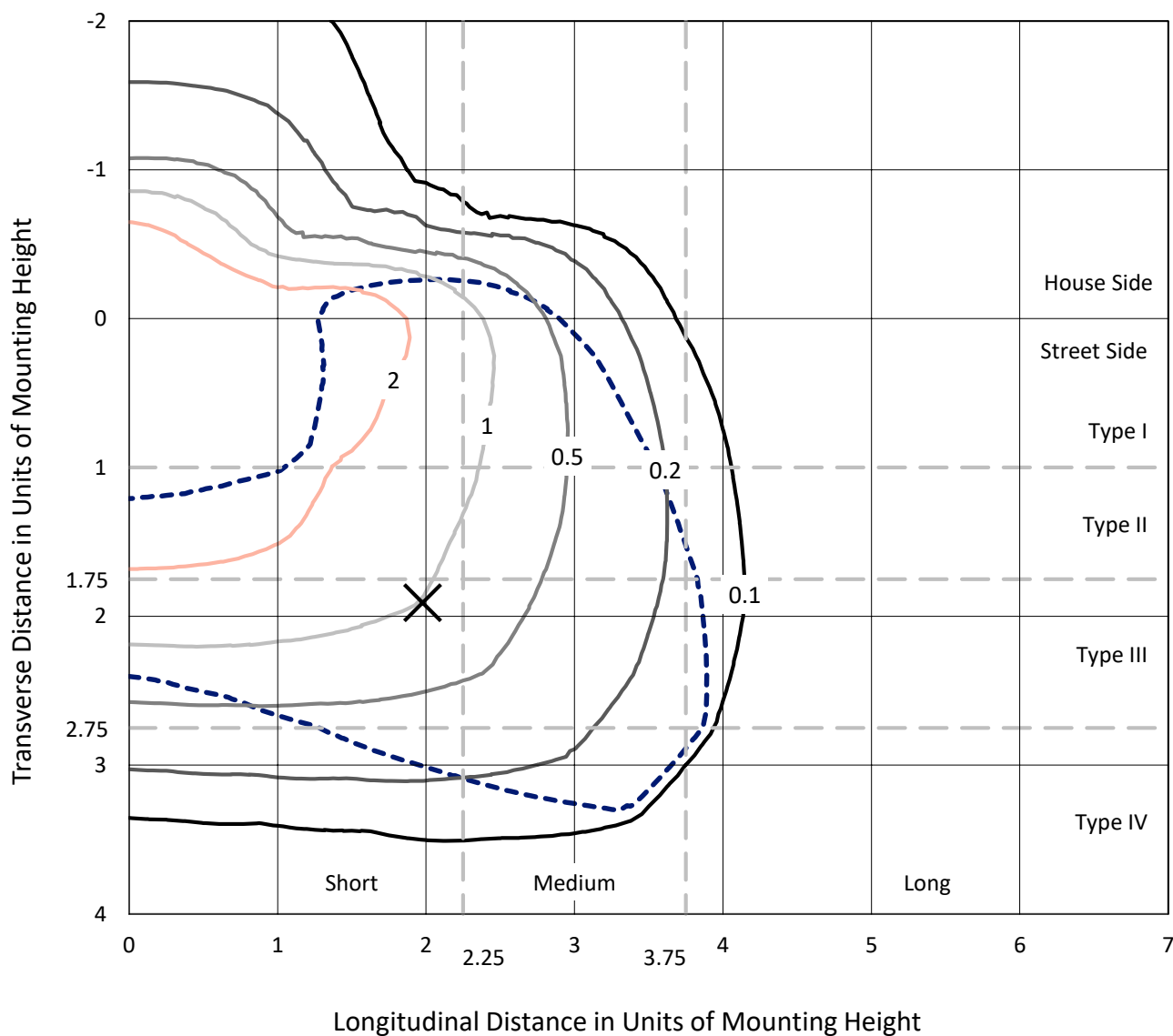
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

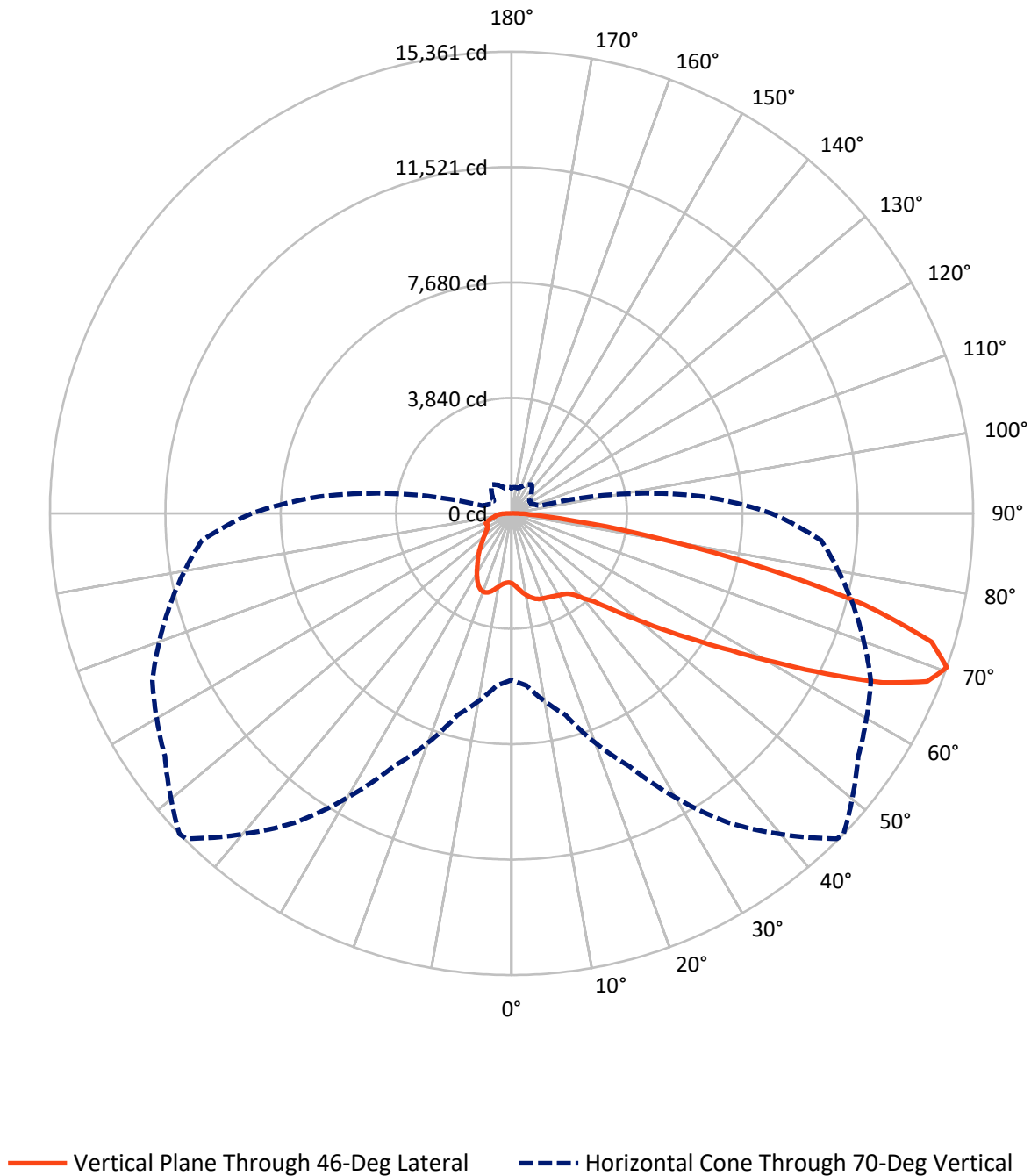
✕ Max cd
 - - - 1/2 Max cd



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	5246.5	0.0	5246.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17644.5	0.0	17644.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	22891.0	0.0	22891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	1.0
10°-20°	792.1	3.5
20°-30°	1320.7	5.8
30°-40°	1874.2	8.2
40°-50°	2756.8	12.0
50°-60°	4668.7	20.4
60°-70°	6627.1	29.0
70°-80°	4026.0	17.6
80°-90°	587.6	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°	22891.0	100.0
0°-180°	22891.0	100.0

Coefficient of Utilization



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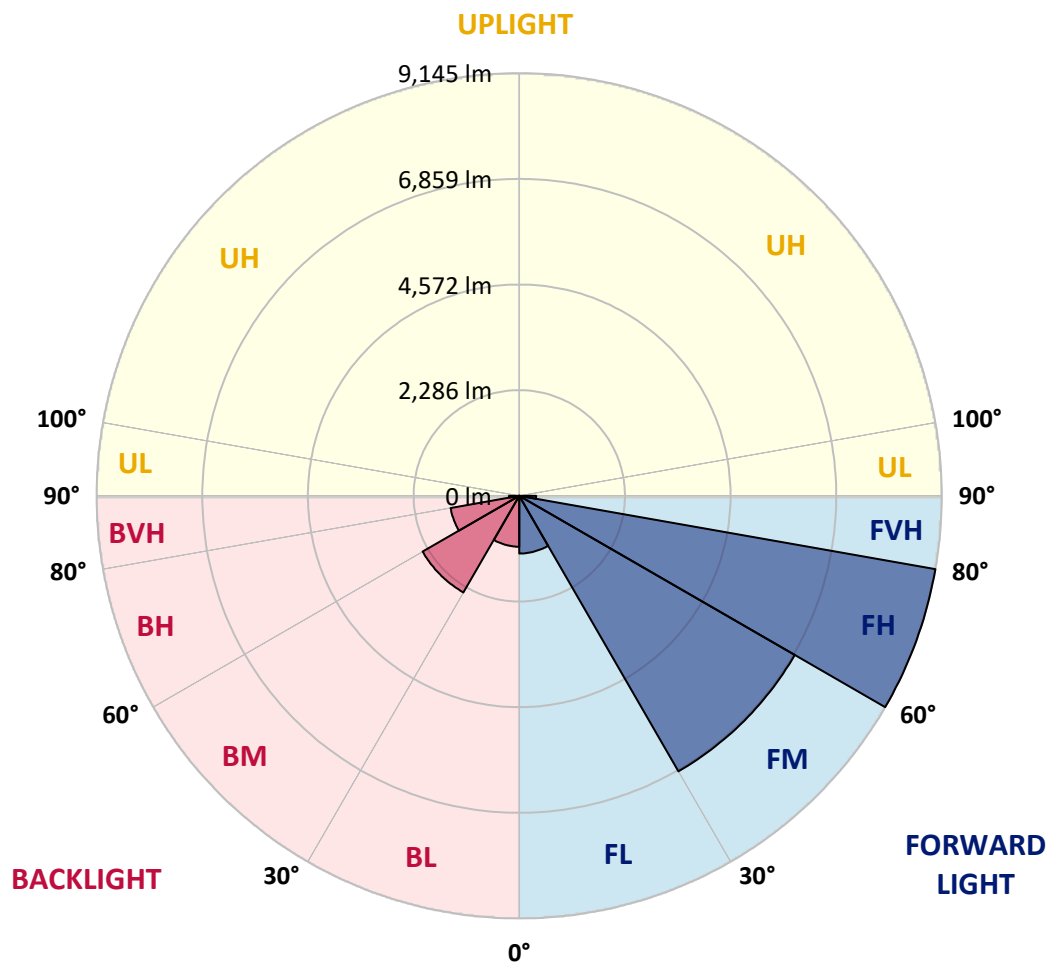
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1249.0	5.5			
FM	(30°-60°)	6884.6	30.1			
FH	(60°-80°)	9144.8	39.9			G4/12000
FVH	(80°-90°)	366.0	1.6			G3/500
BL	(0°-30°)	1101.5	4.8	B3/2500		
BM	(30°-60°)	2415.1	10.6	B2/2500		
BH	(60°-80°)	1508.3	6.6	B3/2500		G3/2500
BVH	(80°-90°)	221.6	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°	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1
2.5°	2448.9	2450.4	2453.6	2445.7	2423.8	2417.5	2415.2	2392.5	2377.6	2355.6	2336.8
5°	2644.7	2646.3	2641.6	2619.6	2571.1	2535.0	2531.9	2480.2	2433.2	2383.1	2345.5
7.5°	2849.2	2851.5	2836.6	2795.1	2727.0	2664.3	2660.4	2589.9	2518.6	2442.6	2386.2
10°	3030.1	3020.7	2996.5	2938.5	2857.8	2781.0	2777.9	2704.3	2622.0	2530.3	2455.1
12.5°	3150.8	3143.0	3111.6	3041.1	2952.6	2882.1	2875.8	2807.7	2727.8	2627.5	2537.4
15°	3217.4	3222.9	3180.6	3100.6	3014.5	2954.9	2949.5	2900.9	2829.6	2728.5	2625.1
17.5°	3226.0	3230.7	3190.0	3110.8	3040.3	2999.6	2997.2	2965.1	2913.4	2816.3	2708.2
20°	3175.9	3179.0	3145.3	3080.3	3034.1	3021.5	3020.7	3006.6	2968.3	2882.1	2777.1
22.5°	3103.0	3105.3	3081.1	3034.1	3018.4	3038.0	3043.5	3038.0	3010.6	2929.9	2831.2
25°	3085.0	3083.4	3058.3	3010.6	3023.9	3065.4	3072.4	3074.8	3056.0	2985.5	2900.1
27.5°	3171.9	3166.5	3118.7	3041.9	3050.5	3100.6	3110.0	3132.8	3121.0	3059.1	2978.4
30°	3423.4	3414.0	3316.1	3161.0	3118.7	3144.5	3156.3	3192.3	3194.7	3143.0	3082.6
32.5°	3848.0	3836.2	3660.8	3383.5	3233.8	3189.2	3200.1	3254.2	3283.2	3243.2	3178.2
35°	4384.6	4371.3	4141.0	3761.8	3426.5	3274.6	3282.4	3325.5	3383.5	3327.0	3240.9
37.5°	4944.0	4911.8	4690.1	4206.8	3732.8	3457.1	3457.1	3462.6	3490.0	3372.5	3314.5
40°	5500.2	5468.0	5267.5	4730.1	4129.2	3744.6	3726.6	3605.1	3583.2	3482.2	3462.6
42.5°	6017.2	6007.8	5889.5	5321.6	4594.6	4027.4	4002.3	3796.3	3801.0	3738.3	3739.1
45°	6567.1	6567.1	6470.8	5918.5	5136.7	4481.8	4456.7	4153.5	4200.5	4171.5	4241.3
47.5°	7016.0	7030.1	7016.8	6540.5	5767.3	5059.1	5013.7	4648.6	4780.2	4879.7	5082.6
50°	7474.3	7496.2	7498.6	7222.8	6529.5	5745.4	5693.7	5305.9	5599.7	5884.8	6283.6
52.5°	8139.4	8188.8	7992.1	7903.6	7463.3	6560.1	6509.2	6151.2	6641.6	7041.9	7728.9
55°	8755.9	8712.8	8572.6	8627.4	8462.9	7487.6	7449.2	7135.1	7802.5	8322.7	9215.0
57.5°	9089.6	9086.5	9227.5	9462.5	9540.9	8631.4	8599.2	8293.7	9111.6	9502.5	10610.2
60°	9481.3	9486.8	9836.2	10369.7	10692.5	10055.6	10041.5	9809.6	10383.0	10603.9	11704.6
62.5°	9536.2	9634.9	10236.5	11154.7	11770.4	11719.5	11750.8	11175.0	11520.5	11482.9	12521.7
65°	8905.6	9035.6	10124.5	11392.0	12842.1	13539.3	13568.3	12548.3	12417.5	12234.2	12813.9
67.5°	7613.0	7805.7	8988.6	10875.8	13195.4	14884.4	14925.1	13612.9	13161.7	12488.8	12110.4
70°	5540.1	5754.0	6944.7	9288.6	12565.5	15314.4	15360.7	14083.7	13189.9	11764.1	10338.4
72.5°	3346.6	3514.3	4495.9	6838.2	10605.5	14531.1	14613.3	13486.8	12042.2	9964.7	7634.1
75°	1469.6	1579.3	2173.9	3940.4	7592.6	12022.6	12125.3	11544.0	9784.5	7241.6	4512.3
77.5°	625.9	657.3	891.5	1711.7	4292.2	8215.4	8356.4	8434.7	6638.4	3940.4	1906.8
80°	390.1	402.7	504.5	774.8	2008.6	4614.2	4766.1	4962.8	3296.5	1448.5	665.9
82.5°	237.4	251.5	335.3	468.5	1045.8	2091.6	2164.5	2303.2	1279.3	625.9	344.7
85°	142.6	152.8	205.2	296.1	595.4	822.6	821.8	908.7	602.4	402.7	181.7
87.5°	68.2	76.0	109.7	153.5	300.0	308.7	289.1	327.5	365.8	264.0	91.7
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°	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1	2332.1
2.5°	2330.6	2327.4	2317.3	2309.4	2307.9	2303.2	2299.2	2301.6	2304.7	2305.5	2305.5
5°	2329.8	2321.2	2307.9	2302.4	2309.4	2318.8	2330.6	2346.2	2355.6	2362.7	2367.4
7.5°	2367.4	2350.9	2336.1	2332.9	2347.0	2372.1	2398.7	2431.6	2454.4	2470.0	2473.2
10°	2430.1	2409.7	2394.8	2397.9	2423.0	2459.1	2496.7	2539.0	2573.4	2594.6	2596.1
12.5°	2502.1	2482.6	2468.5	2481.8	2523.3	2567.2	2606.3	2643.1	2674.5	2695.6	2695.6
15°	2585.2	2571.1	2554.6	2585.2	2641.6	2680.8	2697.2	2715.2	2732.5	2748.1	2745.0
17.5°	2665.1	2651.8	2643.1	2679.2	2737.9	2756.0	2745.0	2731.7	2731.7	2740.3	2741.9
20°	2734.0	2722.3	2727.8	2763.0	2793.6	2774.8	2734.0	2691.7	2674.5	2679.2	2683.9
22.5°	2794.3	2788.9	2805.3	2821.8	2799.8	2734.0	2658.8	2601.6	2580.5	2578.9	2580.5
25°	2864.8	2864.1	2884.4	2854.7	2757.5	2636.1	2535.0	2479.4	2467.7	2477.1	2492.7
27.5°	2952.6	2961.2	2971.4	2862.5	2671.4	2488.0	2385.4	2347.0	2358.8	2381.5	2396.4
30°	3064.6	3088.1	3066.2	2842.9	2547.6	2318.8	2220.9	2209.9	2242.1	2274.2	2289.8
32.5°	3173.5	3210.3	3157.1	2792.0	2387.8	2139.4	2063.4	2060.3	2099.5	2130.8	2152.7
35°	3261.2	3334.1	3225.2	2690.9	2202.9	1974.1	1918.5	1897.4	1911.5	1948.3	1973.4
37.5°	3375.6	3497.0	3272.2	2536.6	2002.3	1837.8	1772.8	1724.2	1711.7	1726.6	1739.1
40°	3584.8	3745.4	3294.1	2321.2	1806.5	1701.5	1635.7	1564.4	1515.1	1479.0	1479.8
42.5°	3926.3	4068.9	3280.0	2059.5	1625.5	1568.3	1493.9	1411.7	1331.8	1250.3	1244.0
45°	4481.0	4549.9	3237.7	1782.2	1466.5	1428.9	1359.2	1276.9	1170.4	1077.9	1069.3
47.5°	5368.6	5215.8	3171.9	1540.1	1326.3	1310.6	1246.4	1151.6	1038.8	964.4	958.1
50°	6578.9	6177.0	3139.8	1347.4	1202.5	1207.2	1154.7	1054.4	947.9	893.1	886.8
52.5°	8026.6	7296.5	3201.7	1198.6	1103.0	1119.5	1080.3	986.3	897.0	853.9	847.6
55°	9528.3	8455.9	3268.3	1090.5	1009.0	1041.1	1027.8	950.2	869.6	829.6	824.1
57.5°	10813.9	9321.5	3135.1	1002.7	925.2	975.3	987.1	927.5	855.5	819.4	813.2
60°	11623.1	9670.1	2785.7	920.5	858.6	922.8	963.6	921.3	860.9	857.8	853.1
62.5°	12007.0	9639.6	2261.6	855.5	817.1	900.1	980.8	956.5	923.6	951.8	954.2
65°	11834.6	9179.0	1684.3	812.4	787.3	908.7	1032.5	1023.1	941.6	969.8	973.8
67.5°	10700.3	8079.9	1247.2	774.8	754.4	933.0	1126.5	1045.0	906.4	926.7	914.2
70°	8648.6	6405.8	962.0	732.5	720.7	929.9	1168.8	1031.7	868.0	872.7	839.0
72.5°	5963.9	4368.2	782.6	693.3	672.1	847.6	1139.0	998.8	835.9	799.8	755.2
75°	3243.2	2344.7	665.1	652.6	586.8	744.2	1084.2	975.3	806.9	759.1	734.0
77.5°	1276.1	973.0	577.4	596.9	513.1	657.3	1023.1	930.7	766.9	704.3	691.7
80°	521.0	496.7	478.6	516.3	441.0	575.0	949.5	878.2	719.1	653.3	628.3
82.5°	295.3	308.7	372.1	407.4	358.0	529.6	914.2	835.9	662.0	585.2	555.4
85°	151.2	181.0	259.3	292.2	263.2	450.4	842.1	731.7	531.1	448.1	450.4
87.5°	72.9	101.1	163.7	183.3	170.8	325.9	629.1	530.4	413.6	327.5	317.3
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)