

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: P319057

Luminaire Tested: **GAN-SA3D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319057
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-SA3D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23522 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

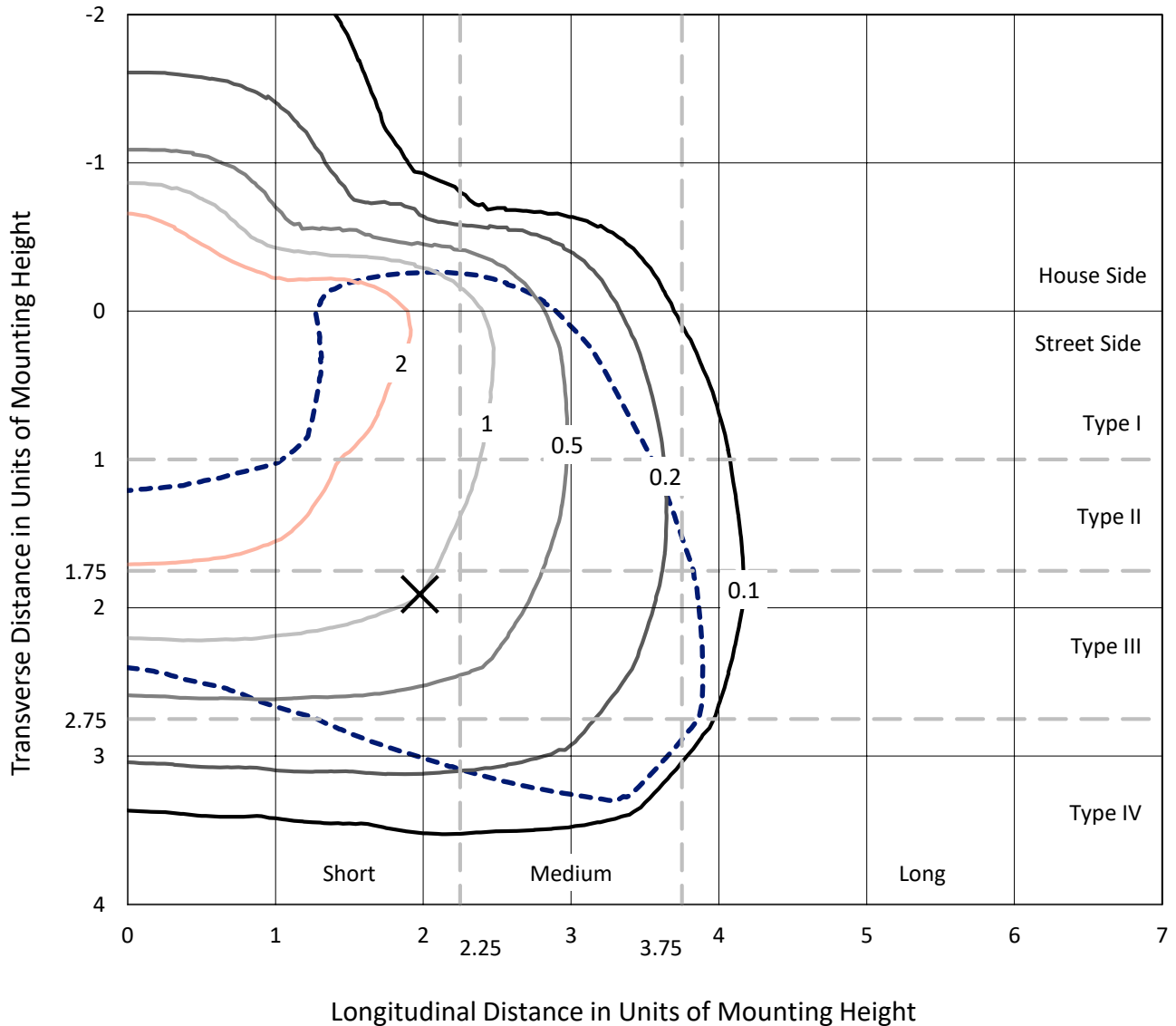
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

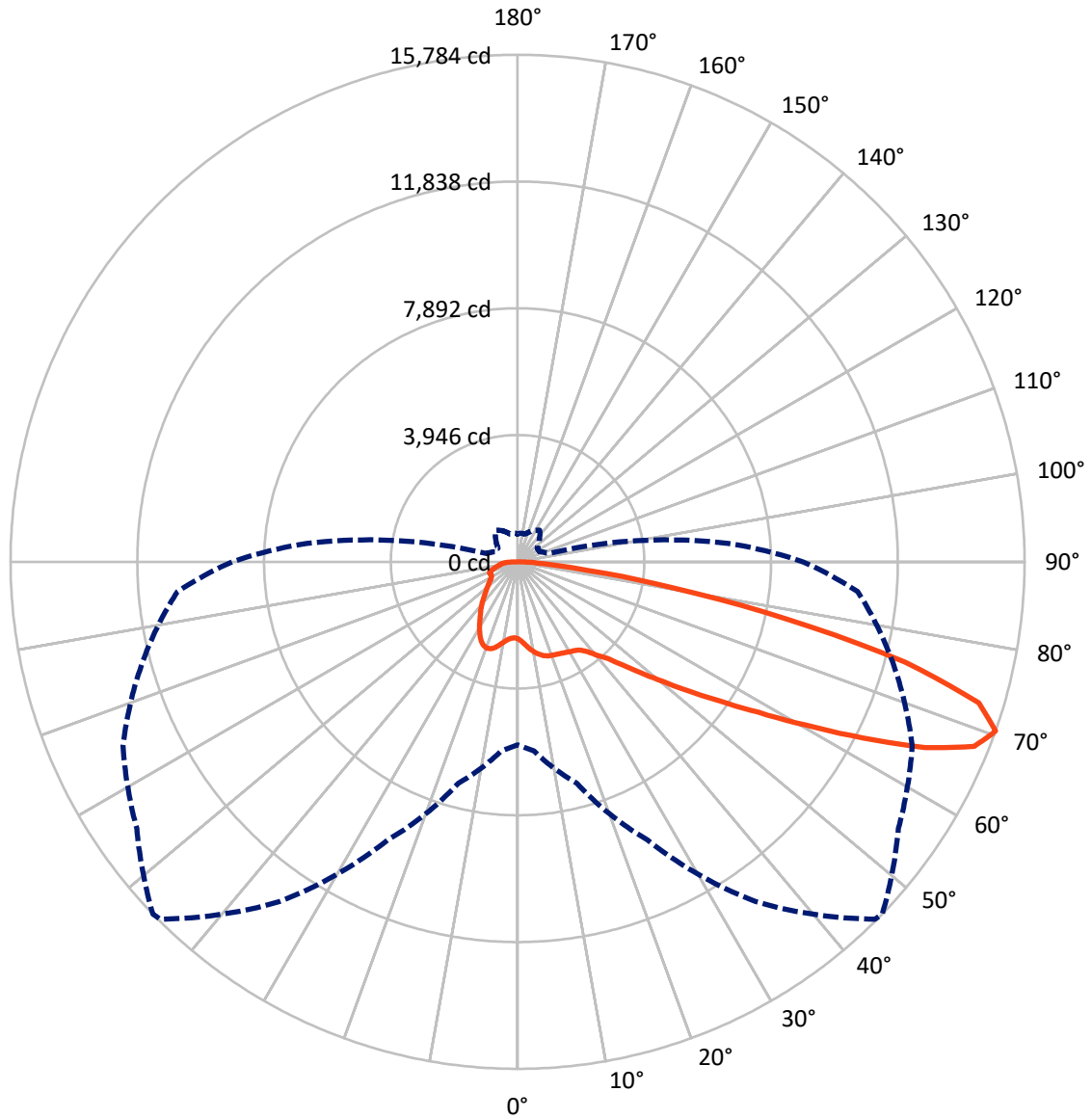
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5391.2	0.0	5391.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18130.8	0.0	18130.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	23522.0	0.0	23522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.0
10°-20°	813.9	3.5
20°-30°	1357.1	5.8
30°-40°	1925.9	8.2
40°-50°	2832.8	12.0
50°-60°	4797.4	20.4
60°-70°	6809.8	29.0
70°-80°	4137.0	17.6
80°-90°	603.8	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°	23522.0	100.0
0°-180°	23522.0	100.0

Coefficient of Utilization

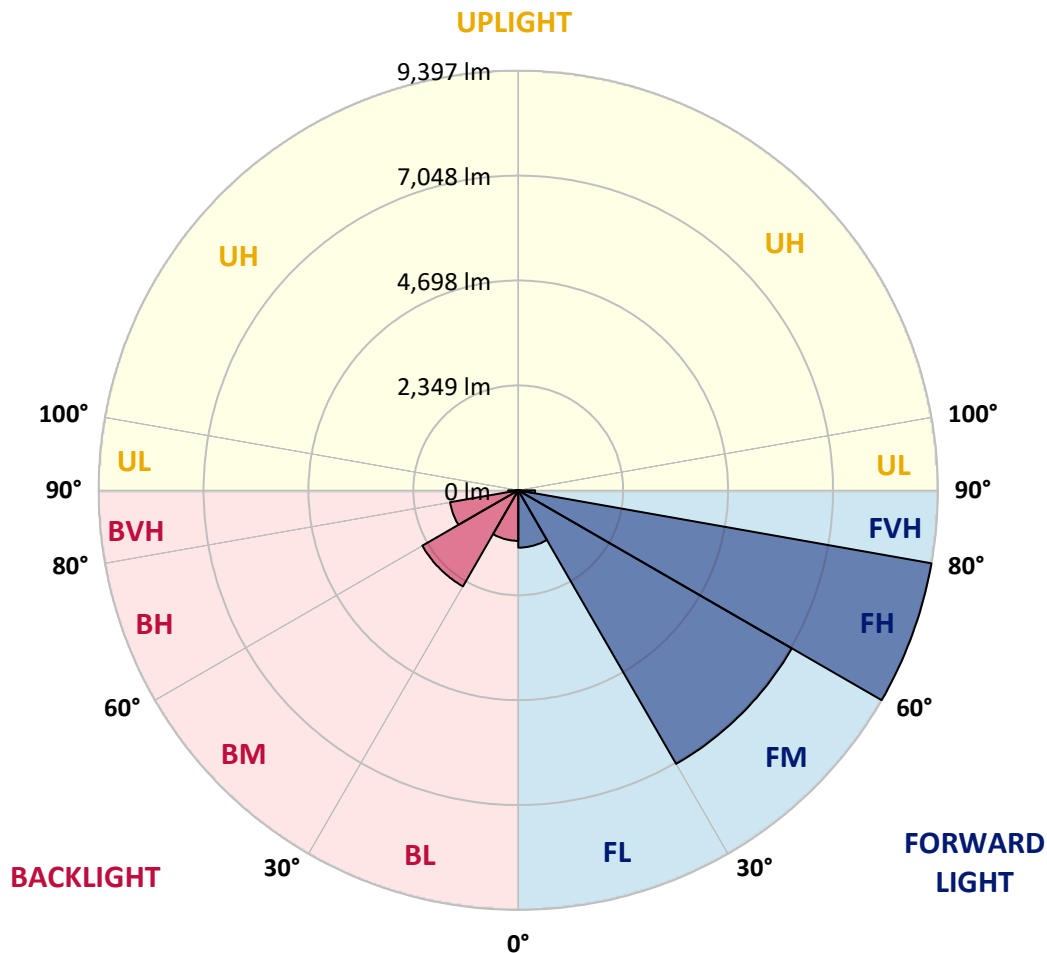


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.5	5.5			
FM (30°-60°)	7074.4	30.1			
FH (60°-80°)	9396.9	39.9			G4/12000
FVH (80°-90°)	376.1	1.6			G3/500
BL (0°-30°)	1131.9	4.8	B3/2500		
BM (30°-60°)	2481.7	10.6	B2/2500		
BH (60°-80°)	1549.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	227.7	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°	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4
2.5°	2516.4	2518.0	2521.2	2513.2	2490.6	2484.2	2481.8	2458.4	2443.1	2420.6	2401.3
5°	2717.6	2719.2	2714.4	2691.9	2642.0	2604.9	2601.7	2548.6	2500.3	2448.8	2410.1
7.5°	2927.7	2930.1	2914.8	2872.2	2802.1	2737.7	2733.7	2661.3	2588.0	2509.9	2452.0
10°	3113.7	3104.0	3079.1	3019.5	2936.6	2857.7	2854.5	2778.8	2694.3	2600.1	2522.8
12.5°	3237.6	3229.6	3197.4	3124.9	3034.0	2961.5	2955.1	2885.1	2802.9	2699.9	2607.3
15°	3306.1	3311.7	3268.2	3186.1	3097.6	3036.4	3030.8	2980.8	2907.6	2803.8	2697.5
17.5°	3314.9	3319.7	3277.9	3196.6	3124.1	3082.3	3079.9	3046.9	2993.7	2893.9	2782.8
20°	3263.4	3266.6	3232.0	3165.2	3117.7	3104.8	3104.0	3089.5	3050.1	2961.5	2853.7
22.5°	3188.5	3190.9	3166.0	3117.7	3101.6	3121.7	3127.4	3121.7	3093.5	3010.6	2909.2
25°	3170.0	3168.4	3142.6	3093.5	3107.2	3149.9	3157.1	3159.6	3140.2	3067.8	2980.0
27.5°	3259.4	3253.7	3204.6	3125.7	3134.6	3186.1	3195.8	3219.1	3207.0	3143.5	3060.5
30°	3517.8	3508.1	3407.5	3248.1	3204.6	3231.2	3243.3	3280.3	3282.7	3229.6	3167.6
32.5°	3954.1	3942.0	3761.7	3476.7	3323.0	3277.1	3288.4	3343.9	3373.7	3332.6	3265.8
35°	4505.5	4491.8	4255.1	3865.5	3521.0	3364.8	3372.9	3417.1	3476.7	3418.8	3330.2
37.5°	5080.2	5047.2	4819.4	4322.8	3835.7	3552.4	3552.4	3558.0	3586.2	3465.4	3405.9
40°	5651.8	5618.8	5412.7	4860.5	4243.1	3847.8	3829.3	3704.5	3682.0	3578.1	3558.0
42.5°	6183.1	6173.4	6051.9	5468.2	4721.2	4138.4	4112.7	3900.9	3905.8	3841.4	3842.2
45°	6748.2	6748.2	6649.2	6081.6	5278.3	4605.3	4579.5	4268.0	4316.3	4286.5	4358.2
47.5°	7209.4	7223.9	7210.2	6720.8	5926.3	5198.6	5151.9	4776.8	4912.0	5014.2	5222.7
50°	7680.3	7702.9	7705.3	7421.9	6709.5	5903.7	5850.6	5452.1	5754.0	6047.0	6456.8
52.5°	8363.8	8414.5	8212.4	8121.5	7669.1	6740.9	6688.6	6320.7	6824.6	7236.0	7942.0
55°	8997.3	8953.0	8808.9	8865.3	8696.2	7694.0	7654.6	7331.8	8017.6	8552.1	9469.0
57.5°	9340.2	9337.0	9481.9	9723.4	9803.9	8869.3	8836.3	8522.3	9362.7	9764.4	10902.7
60°	9742.7	9748.3	10107.4	10655.5	10987.2	10332.7	10318.3	10080.0	10669.2	10896.2	12027.2
62.5°	9799.0	9900.5	10518.7	11462.1	12094.9	12042.5	12074.7	11483.1	11838.1	11799.4	12866.8
65°	9151.0	9284.7	10403.6	11706.0	13196.1	13912.5	13942.3	12894.2	12759.8	12571.4	13167.1
67.5°	7822.8	8020.8	9236.4	11175.6	13559.1	15294.7	15336.5	13988.2	13524.5	12833.0	12444.2
70°	5692.8	5912.6	7136.2	9544.7	12911.9	15736.6	15784.1	14472.0	13553.5	12088.4	10623.3
72.5°	3438.9	3611.1	4619.8	7026.7	10897.8	14931.6	15016.1	13858.6	12374.2	10239.4	7844.5
75°	1510.1	1622.8	2233.8	4049.1	7801.9	12354.1	12459.5	11862.2	10054.2	7441.3	4636.7
77.5°	643.2	675.4	916.1	1758.9	4410.5	8441.8	8586.7	8667.2	6821.4	4049.1	1959.3
80°	400.9	413.8	518.4	796.1	2064.0	4741.3	4897.5	5099.6	3387.4	1488.4	684.2
82.5°	243.9	258.4	344.5	481.4	1074.7	2149.3	2224.2	2366.6	1314.5	643.2	354.2
85°	146.5	157.0	210.9	304.3	611.8	845.2	844.4	933.8	619.0	413.8	186.8
87.5°	70.0	78.1	112.7	157.8	308.3	317.2	297.0	336.5	375.9	271.3	94.2
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°	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4	2396.4
2.5°	2394.8	2391.6	2381.1	2373.1	2371.5	2366.6	2362.6	2365.0	2368.3	2369.1	2369.1
5°	2394.0	2385.2	2371.5	2365.8	2373.1	2382.7	2394.8	2410.9	2420.6	2427.8	2432.7
7.5°	2432.7	2415.8	2400.5	2397.2	2411.7	2437.5	2464.9	2498.7	2522.0	2538.1	2541.3
10°	2497.1	2476.1	2460.8	2464.0	2489.8	2526.8	2565.5	2608.9	2644.4	2666.1	2667.7
12.5°	2571.1	2551.0	2536.5	2550.2	2592.8	2637.9	2678.2	2716.0	2748.2	2769.9	2769.9
15°	2656.4	2642.0	2625.0	2656.4	2714.4	2754.6	2771.6	2790.1	2807.8	2823.9	2820.7
17.5°	2738.5	2724.9	2716.0	2753.0	2813.4	2831.9	2820.7	2807.0	2807.0	2815.8	2817.4
20°	2809.4	2797.3	2802.9	2839.2	2870.6	2851.2	2809.4	2765.9	2748.2	2753.0	2757.9
22.5°	2871.4	2865.7	2882.6	2899.5	2877.0	2809.4	2732.1	2673.3	2651.6	2650.0	2651.6
25°	2943.8	2943.0	2963.9	2933.4	2833.5	2708.8	2604.9	2547.8	2535.7	2545.4	2561.5
27.5°	3034.0	3042.8	3053.3	2941.4	2745.0	2556.6	2451.2	2411.7	2423.8	2447.1	2462.4
30°	3149.1	3173.2	3150.7	2921.3	2617.8	2382.7	2282.1	2270.9	2303.9	2336.9	2353.0
32.5°	3261.0	3298.8	3244.1	2869.0	2453.6	2198.4	2120.3	2117.1	2157.4	2189.6	2212.1
35°	3351.1	3426.0	3314.1	2765.1	2263.6	2028.6	1971.4	1949.7	1964.2	2002.0	2027.7
37.5°	3468.7	3593.4	3362.4	2606.5	2057.5	1888.5	1821.7	1771.8	1758.9	1774.2	1787.1
40°	3683.6	3848.6	3384.9	2385.2	1856.3	1748.4	1680.8	1607.5	1556.8	1519.8	1520.6
42.5°	4034.6	4181.1	3370.5	2116.3	1670.3	1611.6	1535.1	1450.6	1368.5	1284.8	1278.3
45°	4604.5	4675.3	3327.0	1831.3	1506.9	1468.3	1396.6	1312.1	1202.6	1107.7	1098.8
47.5°	5516.5	5359.6	3259.4	1582.6	1362.8	1346.7	1280.7	1183.3	1067.4	990.9	984.5
50°	6760.2	6347.3	3226.4	1384.6	1235.6	1240.5	1186.5	1083.5	974.0	917.7	911.2
52.5°	8247.8	7497.6	3290.0	1231.6	1133.4	1150.3	1110.1	1013.5	921.7	877.4	871.0
55°	9791.0	8689.0	3358.4	1120.5	1036.8	1069.8	1056.1	976.4	893.5	852.5	846.8
57.5°	11112.0	9578.5	3221.5	1030.4	950.7	1002.2	1014.3	953.1	879.0	842.0	835.6
60°	11943.5	9936.7	2862.5	945.9	882.3	948.3	990.1	946.7	884.7	881.5	876.6
62.5°	12338.0	9905.3	2324.0	879.0	839.6	924.9	1007.8	982.9	949.1	978.1	980.5
65°	12160.9	9432.0	1730.7	834.8	809.0	933.8	1061.0	1051.3	967.6	996.6	1000.6
67.5°	10995.2	8302.6	1281.5	796.1	775.2	958.7	1157.6	1073.8	931.4	952.3	939.4
70°	8887.0	6582.3	988.5	752.7	740.6	955.5	1201.0	1060.2	891.9	896.7	862.1
72.5°	6128.3	4488.6	804.2	712.4	690.7	871.0	1170.4	1026.4	858.9	821.9	776.0
75°	3332.6	2409.3	683.4	670.6	602.9	764.7	1114.1	1002.2	829.1	780.0	754.3
77.5°	1311.3	999.8	593.3	613.4	527.3	675.4	1051.3	956.3	788.1	723.7	710.8
80°	535.3	510.4	491.8	530.5	453.2	590.9	975.6	902.4	739.0	671.4	645.6
82.5°	303.5	317.2	382.4	418.6	367.9	544.2	939.4	858.9	680.2	601.3	570.7
85°	155.4	186.0	266.4	300.3	270.5	462.9	865.4	751.9	545.8	460.4	462.9
87.5°	74.9	103.8	168.2	188.4	175.5	334.9	646.4	545.0	425.0	336.5	326.0
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)