

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: P383185

Luminaire Tested: **GAN-SA5A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383185
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-SA5A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21546.7 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

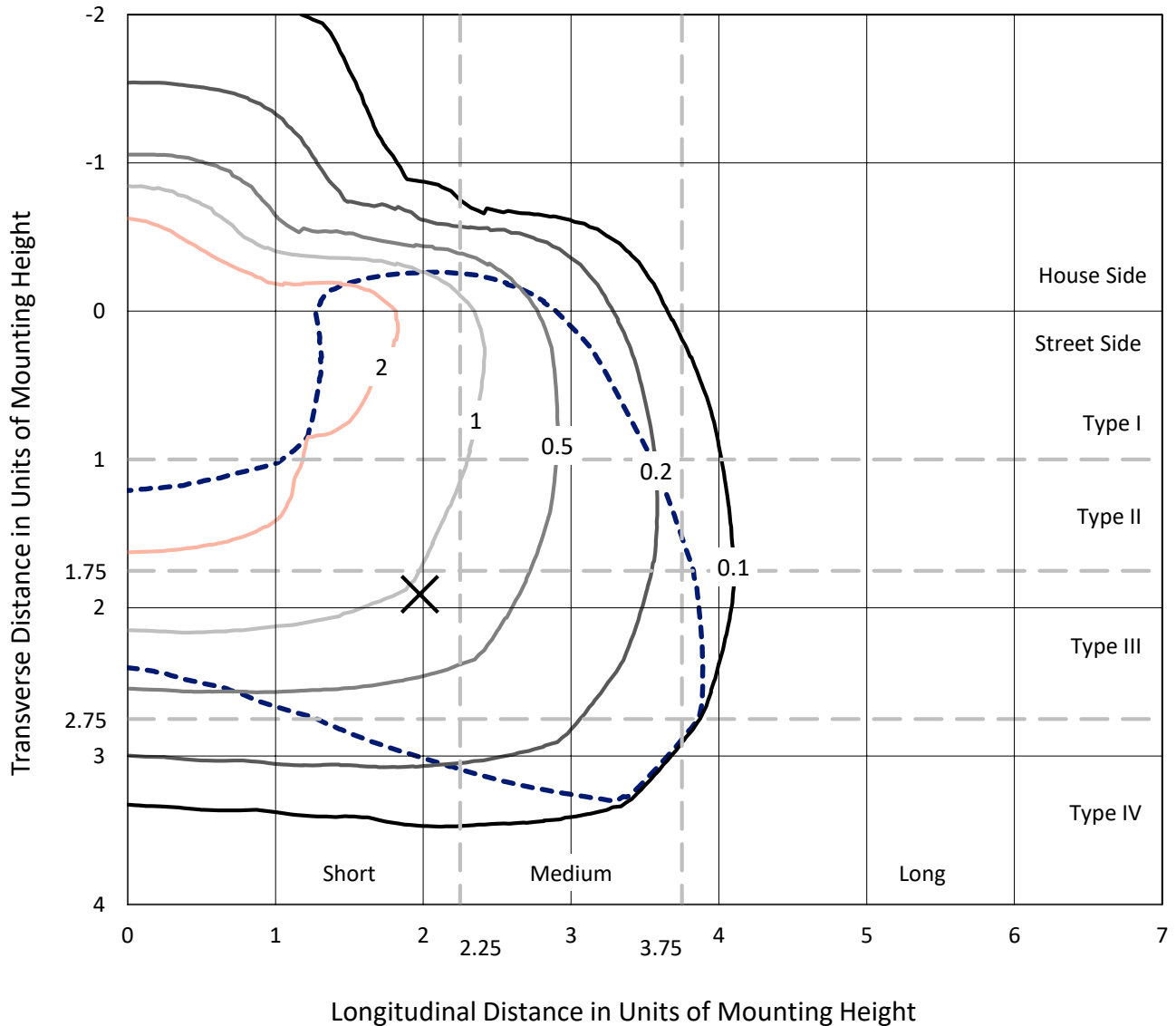
Input Watts (W): 162
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

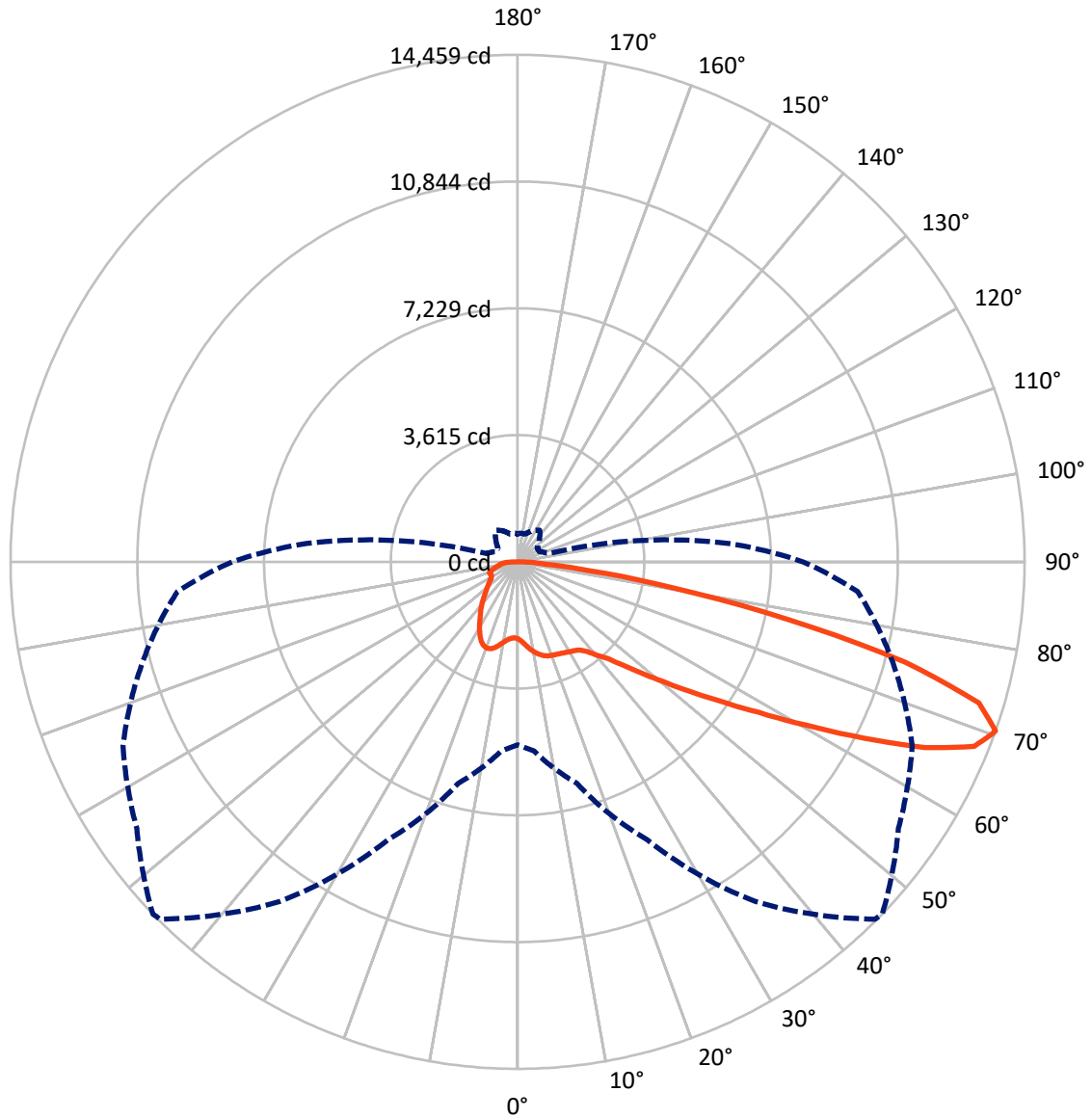
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4938.4	0.0	4938.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16608.2	0.0	16608.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	21546.7	0.0	21546.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.0
10°-20°	745.6	3.5
20°-30°	1243.2	5.8
30°-40°	1764.1	8.2
40°-50°	2594.9	12.0
50°-60°	4394.5	20.4
60°-70°	6237.9	29.0
70°-80°	3789.6	17.6
80°-90°	553.0	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°	21546.7	100.0
0°-180°	21546.7	100.0

Coefficient of Utilization

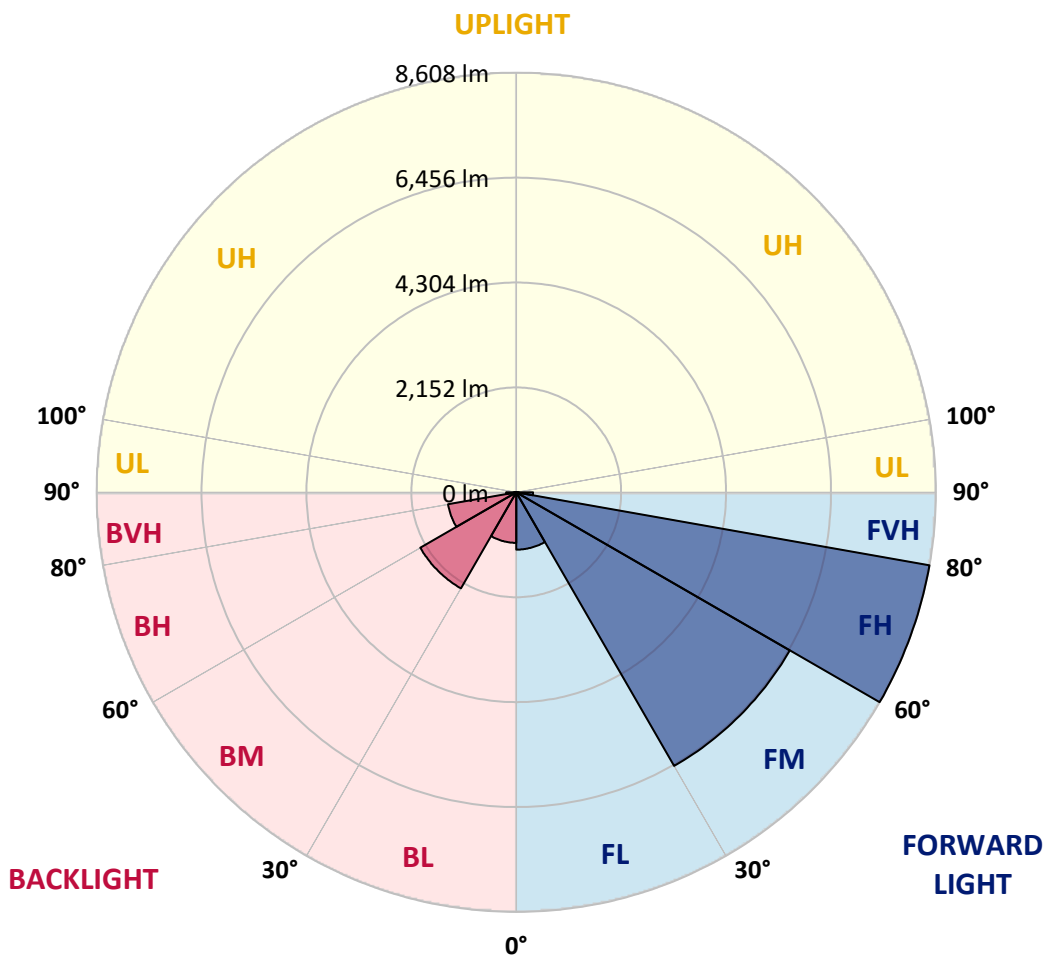


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.7	5.5			
FM (30°-60°)	6480.3	30.1			
FH (60°-80°)	8607.8	39.9			G4/12000
FVH (80°-90°)	344.5	1.6			G3/500
BL (0°-30°)	1036.8	4.8	B3/2500		
BM (30°-60°)	2273.3	10.6	B2/2500		
BH (60°-80°)	1419.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	208.5	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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2305.0	2306.5	2309.5	2302.1	2281.5	2275.6	2273.3	2251.9	2237.9	2217.3	2199.6
5°	2489.4	2490.9	2486.5	2465.8	2420.1	2386.2	2383.2	2334.6	2290.3	2243.1	2207.8
7.5°	2681.8	2684.1	2670.1	2631.0	2566.8	2507.8	2504.2	2437.8	2370.7	2299.2	2246.1
10°	2852.2	2843.4	2820.4	2766.0	2689.9	2617.7	2614.8	2545.5	2468.0	2381.8	2311.0
12.5°	2965.8	2958.4	2928.9	2862.6	2779.2	2712.9	2706.9	2642.8	2567.5	2473.2	2388.4
15°	3028.5	3033.6	2993.8	2918.5	2837.4	2781.4	2776.2	2730.6	2663.4	2568.3	2470.9
17.5°	3036.6	3040.9	3002.7	2928.1	2861.8	2823.4	2821.2	2791.0	2742.3	2650.9	2549.1
20°	2989.3	2992.3	2960.6	2899.3	2855.8	2844.1	2843.4	2830.0	2793.9	2712.9	2614.0
22.5°	2920.8	2923.0	2900.1	2855.8	2841.1	2859.6	2864.7	2859.6	2833.8	2757.8	2664.9
25°	2903.8	2902.3	2878.8	2833.8	2846.3	2885.4	2892.0	2894.2	2876.5	2810.2	2729.8
27.5°	2985.7	2980.5	2935.5	2863.3	2871.4	2918.5	2927.4	2948.8	2937.7	2879.5	2803.5
30°	3222.3	3213.5	3121.3	2975.4	2935.5	2959.8	2970.9	3004.8	3007.0	2958.4	2901.6
32.5°	3622.0	3611.0	3445.8	3184.8	3043.9	3001.9	3012.3	3063.1	3090.4	3052.8	2991.6
35°	4127.1	4114.6	3897.8	3540.9	3225.3	3082.2	3089.7	3130.2	3184.8	3131.7	3050.5
37.5°	4653.6	4623.4	4414.7	3959.7	3513.6	3254.1	3254.1	3259.2	3285.0	3174.4	3119.8
40°	5177.2	5146.9	4958.2	4452.3	3886.7	3524.7	3507.7	3393.4	3372.8	3277.7	3259.2
42.5°	5663.8	5655.0	5543.6	5009.0	4324.7	3790.8	3767.3	3573.3	3577.8	3518.8	3519.5
45°	6181.5	6181.5	6090.7	5570.9	4835.0	4218.6	4194.9	3909.6	3953.9	3926.6	3992.1
47.5°	6604.0	6617.2	6604.8	6156.4	5428.6	4762.0	4719.2	4375.7	4499.5	4593.2	4784.1
50°	7035.3	7056.0	7058.2	6798.6	6146.1	5408.0	5359.3	4994.3	5270.8	5539.2	5914.6
52.5°	7661.4	7707.8	7522.8	7439.4	7025.1	6174.9	6126.9	5789.9	6251.5	6628.3	7275.0
55°	8241.7	8201.2	8069.2	8120.8	7965.9	7047.9	7011.8	6716.1	7344.3	7833.9	8673.8
57.5°	8555.8	8552.9	8685.7	8906.8	8980.6	8124.5	8094.2	7806.6	8576.5	8944.4	9987.1
60°	8924.5	8929.7	9258.6	9760.8	10064.5	9465.1	9451.8	9233.5	9773.2	9981.2	11017.2
62.5°	8976.1	9069.1	9635.4	10499.6	11079.2	11031.2	11060.7	10518.8	10844.0	10808.6	11786.3
65°	8382.5	8504.9	9529.9	10723.0	12087.9	12744.1	12771.4	11811.4	11688.2	11515.7	12061.4
67.5°	7165.8	7347.3	8460.7	10237.1	12420.5	14010.3	14048.6	12813.5	12388.7	11755.4	11399.2
70°	5214.8	5416.1	6536.9	8743.1	11827.6	14415.0	14458.6	13256.7	12415.3	11073.3	9731.2
72.5°	3150.1	3307.9	4231.8	6436.6	9982.7	13677.7	13755.1	12694.8	11335.1	9379.5	7185.8
75°	1383.3	1486.6	2046.2	3709.0	7146.7	11316.6	11413.2	10866.0	9209.9	6816.3	4247.3
77.5°	589.2	618.6	839.1	1611.2	4040.1	7733.0	7865.6	7939.4	6248.5	3709.0	1794.8
80°	367.2	379.0	474.9	729.3	1890.7	4343.2	4486.2	4671.3	3102.9	1363.4	626.7
82.5°	223.4	236.7	315.6	441.0	984.4	1968.8	2037.4	2167.9	1204.1	589.2	324.5
85°	134.2	143.8	193.2	278.7	560.4	774.2	773.6	855.3	567.0	379.0	171.0
87.5°	64.2	71.5	103.2	144.5	282.4	290.5	272.1	308.2	344.4	248.5	86.3
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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2193.7	2190.7	2181.2	2173.8	2172.4	2167.9	2164.2	2166.4	2169.4	2170.1	2170.1
5°	2193.0	2184.9	2172.4	2167.2	2173.8	2182.6	2193.7	2208.4	2217.3	2224.0	2228.4
7.5°	2228.4	2212.9	2198.9	2195.9	2209.2	2232.8	2257.9	2288.8	2310.2	2325.0	2327.9
10°	2287.3	2268.2	2254.2	2257.1	2280.7	2314.6	2350.0	2389.9	2422.3	2442.2	2443.7
12.5°	2355.2	2336.8	2323.5	2336.0	2375.1	2416.4	2453.2	2487.9	2517.4	2537.3	2537.3
15°	2433.4	2420.1	2404.6	2433.4	2486.5	2523.3	2538.8	2555.8	2572.0	2586.7	2583.7
17.5°	2508.6	2496.1	2487.9	2521.9	2577.1	2594.1	2583.7	2571.3	2571.3	2579.4	2580.9
20°	2573.5	2562.4	2567.5	2600.8	2629.5	2611.8	2573.5	2533.6	2517.4	2521.9	2526.3
22.5°	2630.2	2625.1	2640.6	2656.0	2635.4	2573.5	2502.7	2448.9	2428.9	2427.4	2428.9
25°	2696.6	2695.9	2715.0	2687.0	2595.6	2481.3	2386.2	2333.8	2322.7	2331.6	2346.4
27.5°	2779.2	2787.3	2796.9	2694.4	2514.4	2341.9	2245.3	2209.2	2220.3	2241.7	2255.6
30°	2884.6	2906.8	2886.1	2676.0	2398.0	2182.6	2090.5	2080.1	2110.4	2140.6	2155.3
32.5°	2987.1	3021.8	2971.6	2628.0	2247.5	2013.8	1942.3	1939.3	1976.2	2005.7	2026.3
35°	3069.7	3138.3	3035.8	2532.9	2073.5	1858.2	1805.8	1786.0	1799.2	1833.8	1857.5
37.5°	3177.4	3291.7	3080.1	2387.6	1884.7	1729.9	1668.7	1622.9	1611.2	1625.2	1637.0
40°	3374.3	3525.4	3100.7	2184.9	1700.4	1601.6	1539.7	1472.6	1426.1	1392.2	1392.9
42.5°	3695.7	3830.0	3087.4	1938.6	1530.1	1476.2	1406.2	1328.8	1253.6	1176.8	1171.0
45°	4217.9	4282.7	3047.6	1677.5	1380.4	1345.0	1279.4	1202.0	1101.6	1014.6	1006.5
47.5°	5053.3	4909.5	2985.7	1449.7	1248.4	1233.6	1173.2	1083.9	977.8	907.7	901.8
50°	6192.6	5814.3	2955.4	1268.3	1131.9	1136.3	1086.9	992.5	892.2	840.6	834.8
52.5°	7555.2	6868.0	3013.6	1128.2	1038.2	1053.7	1016.9	928.4	844.3	803.7	797.9
55°	8968.8	7959.3	3076.3	1026.5	949.7	980.0	967.4	894.5	818.5	780.9	775.7
57.5°	10178.8	8774.2	2951.0	943.8	870.8	918.0	929.1	873.0	805.2	771.3	765.4
60°	10940.6	9102.2	2622.1	866.4	808.2	868.7	907.0	867.2	810.4	807.5	803.0
62.5°	11301.8	9073.5	2128.9	805.2	769.1	847.2	923.2	900.3	869.4	896.0	898.1
65°	11139.6	8639.9	1585.4	764.7	741.0	855.3	971.9	963.0	886.4	912.9	916.5
67.5°	10071.9	7605.3	1173.9	729.3	710.1	878.3	1060.4	983.7	853.1	872.3	860.6
70°	8140.7	6029.5	905.5	689.4	678.4	875.3	1100.2	971.1	817.1	821.4	789.8
72.5°	5613.7	4111.7	736.7	652.5	632.7	797.9	1072.1	940.1	786.8	752.9	710.9
75°	3052.8	2207.0	626.0	614.3	552.3	700.5	1020.5	918.0	759.5	714.5	690.9
77.5°	1201.2	915.8	543.5	561.9	483.0	618.6	963.0	876.0	721.9	662.9	651.2
80°	490.4	467.5	450.5	485.9	415.2	541.2	893.7	826.6	677.0	615.0	591.3
82.5°	278.0	290.5	350.3	383.4	336.9	498.5	860.6	786.8	623.1	550.8	522.8
85°	142.3	170.4	244.1	275.1	247.8	424.0	792.7	688.7	500.0	421.8	424.0
87.5°	68.6	95.1	154.1	172.5	160.8	306.8	592.1	499.2	389.3	308.2	298.7
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)