

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: P509471

Luminaire Tested: **VERD-G-CA2-100-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-750-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15373 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

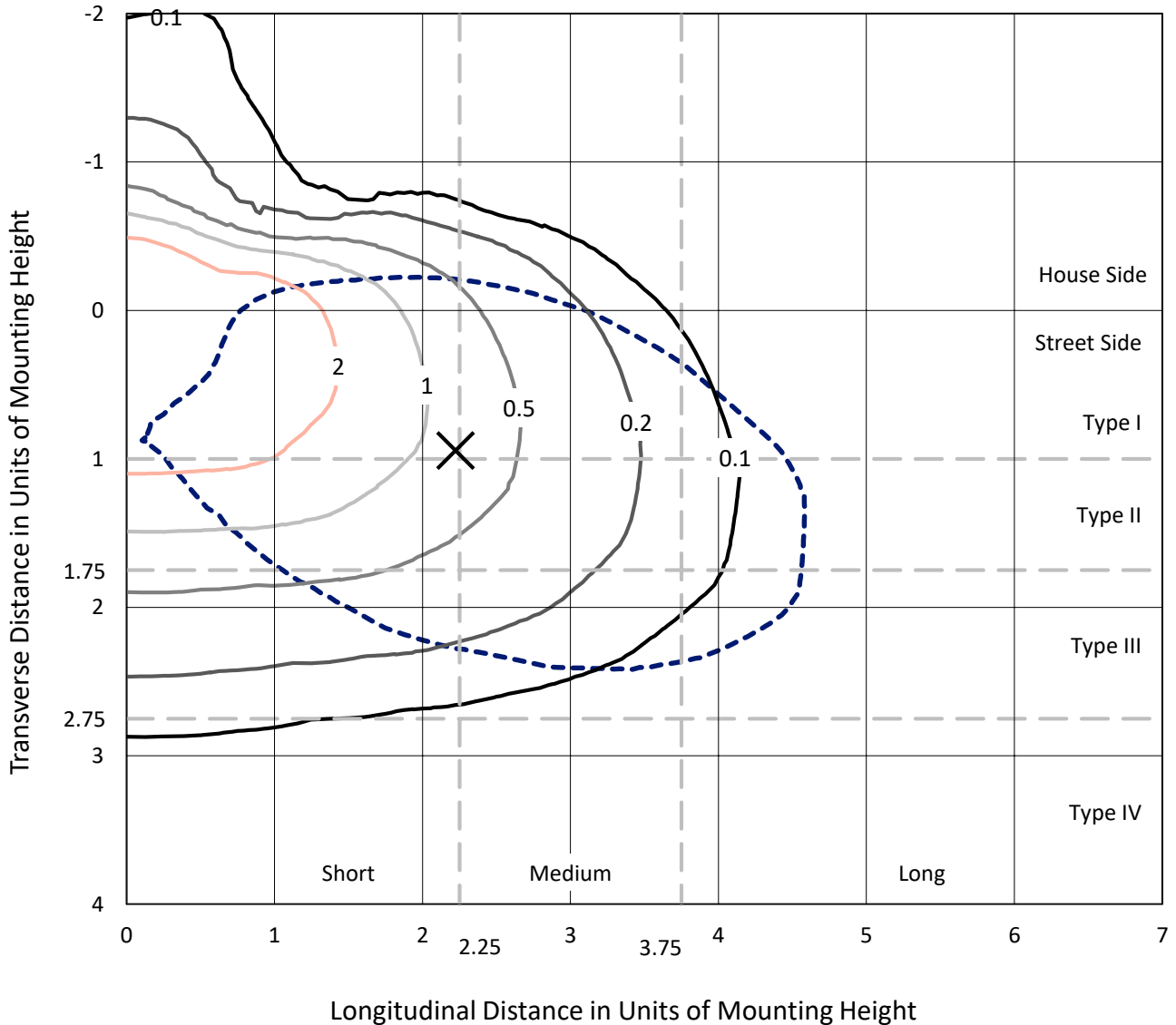
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

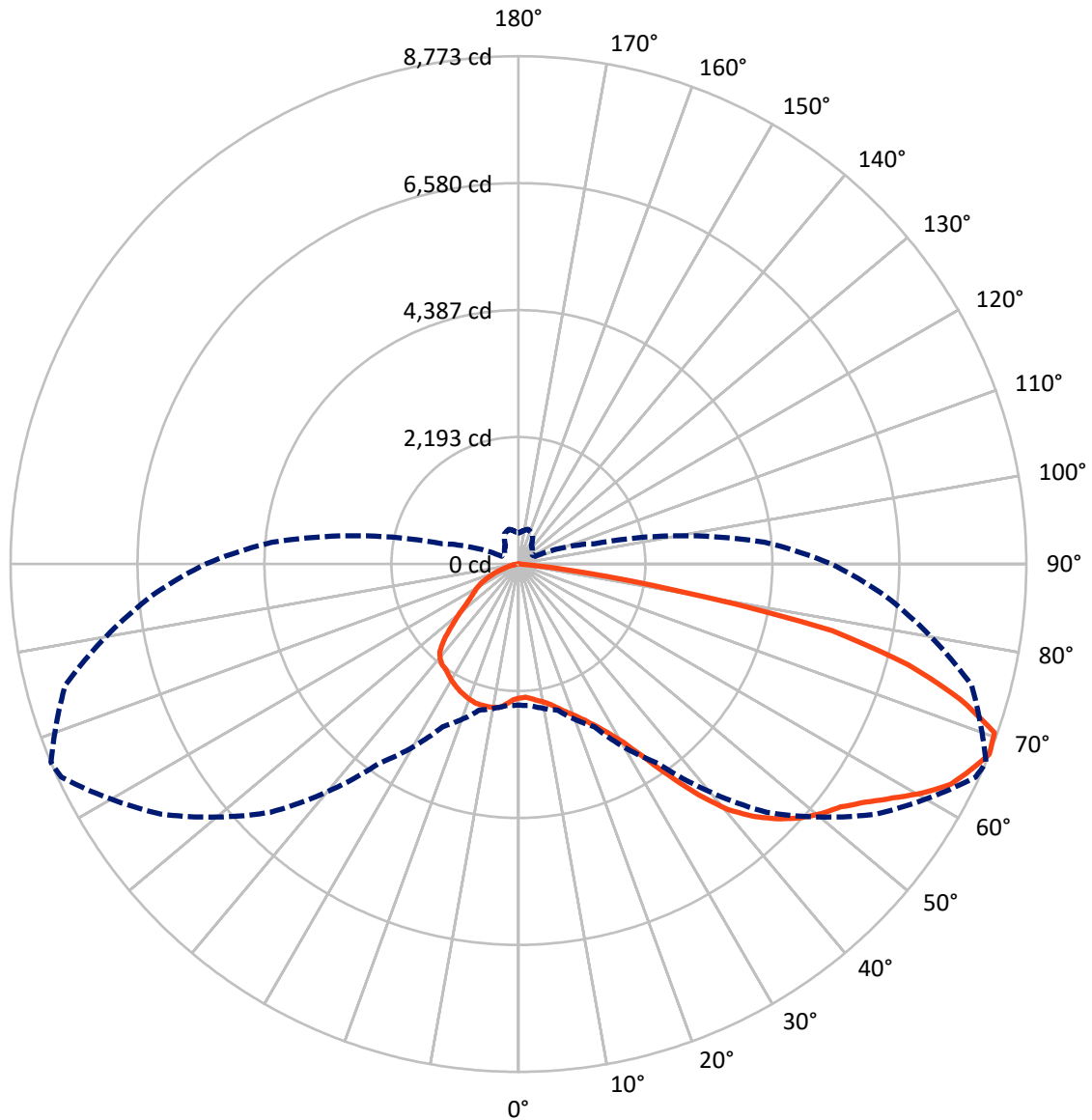
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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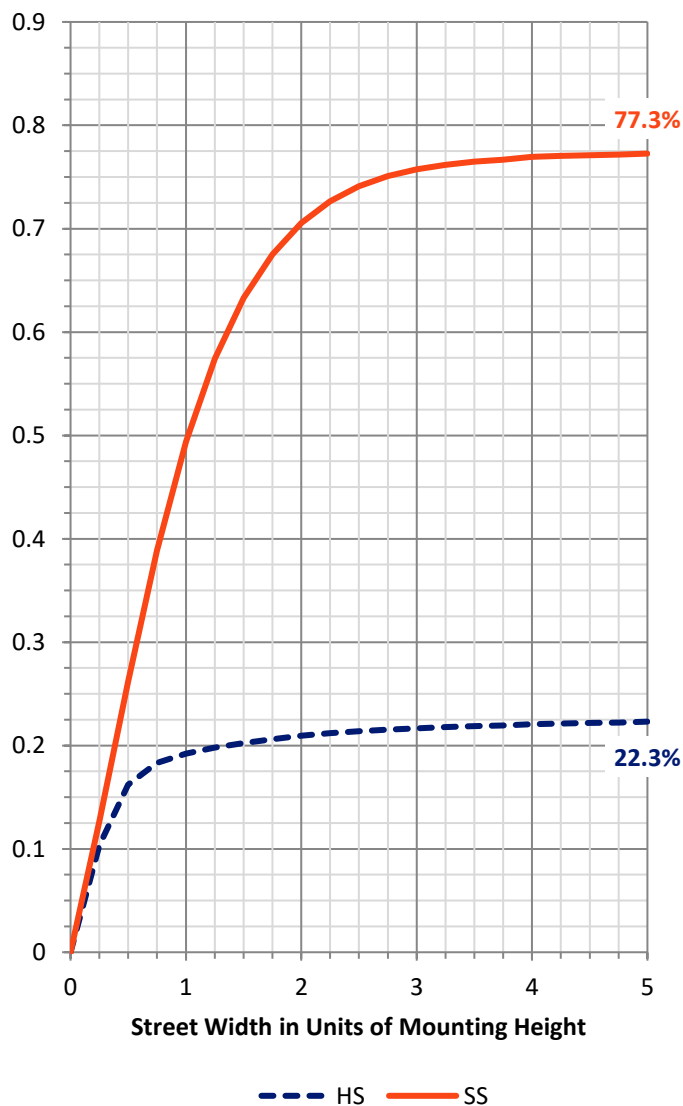
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3488.2	0.0	3488.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11884.8	0.0	11884.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	15373.0	0.0	15373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.5
10°-20°	743.1	4.8
20°-30°	1274.4	8.3
30°-40°	1896.6	12.3
40°-50°	2593.1	16.9
50°-60°	3114.8	20.3
60°-70°	3304.4	21.5
70°-80°	2018.6	13.1
80°-90°	193.3	1.3
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°	15373.0	100.0
0°-180°	15373.0	100.0

Coefficient of Utilization



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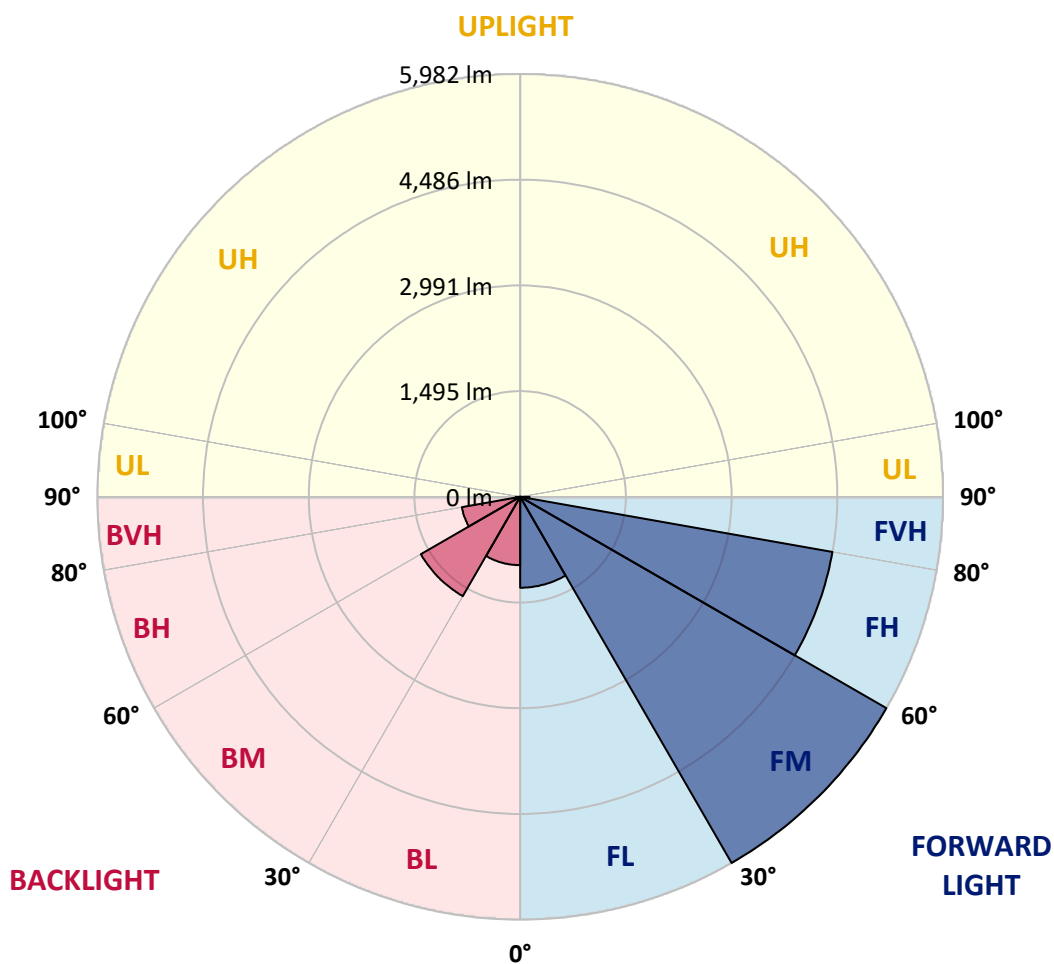
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.8	8.4			
FM (30°-60°)	5982.0	38.9			
FH (60°-80°)	4485.4	29.2			G2/5000
FVH (80°-90°)	131.6	0.9			G2/225
BL (0°-30°)	966.4	6.3	B2/1000		
BM (30°-60°)	1622.6	10.6	B2/2500		
BH (60°-80°)	837.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	61.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2354.5	2365.7	2347.4	2335.1	2321.9	2329.0	2311.7	2311.7	2303.6	2316.8	2308.7
5°	2430.9	2441.1	2409.5	2384.0	2382.0	2360.6	2358.6	2348.4	2336.2	2347.4	2358.6
7.5°	2532.7	2528.6	2506.2	2476.7	2447.2	2434.9	2414.6	2399.3	2381.0	2391.2	2394.2
10°	2656.9	2649.8	2620.3	2573.4	2550.0	2516.4	2465.5	2437.0	2423.7	2433.9	2437.0
12.5°	2789.3	2780.2	2751.7	2699.7	2659.0	2606.0	2548.0	2502.2	2493.0	2482.8	2500.1
15°	2938.0	2921.7	2897.3	2855.5	2792.4	2723.1	2643.7	2599.9	2586.7	2569.4	2561.2
17.5°	3098.9	3096.9	3065.3	3019.5	2955.3	2859.6	2757.8	2689.5	2689.5	2682.4	2638.6
20°	3272.0	3263.9	3232.3	3206.9	3116.2	3015.4	2891.2	2804.6	2795.4	2781.2	2708.9
22.5°	3446.2	3447.2	3406.5	3387.1	3319.9	3190.6	3033.7	2947.2	2928.9	2909.5	2784.2
25°	3604.0	3606.1	3593.9	3558.2	3503.2	3384.1	3220.1	3105.0	3094.9	3068.4	2916.6
27.5°	3763.9	3789.4	3753.7	3757.8	3733.4	3596.9	3433.0	3293.4	3303.6	3245.6	3037.8
30°	3953.3	3962.5	3945.2	3950.3	3935.0	3845.4	3686.5	3573.5	3573.5	3507.3	3243.5
32.5°	4105.1	4096.9	4098.0	4150.9	4158.0	4109.2	3978.8	3942.1	3973.7	3965.6	3728.3
35°	4180.4	4194.7	4234.4	4355.6	4414.7	4385.1	4369.9	4418.7	4498.2	4549.1	4257.8
37.5°	4277.2	4321.0	4370.9	4506.3	4615.3	4696.8	4780.3	4941.2	5055.2	5121.4	4760.9
40°	4377.0	4381.1	4480.9	4648.9	4861.7	4991.1	5189.7	5466.7	5578.7	5528.8	5040.0
42.5°	4299.6	4309.8	4448.3	4747.7	5014.5	5345.5	5560.3	5880.1	5957.5	5805.8	5328.2
45°	4199.8	4219.1	4394.3	4747.7	5182.5	5670.3	5915.8	6272.2	6281.4	6076.7	5502.3
47.5°	4111.2	4127.5	4311.8	4711.0	5340.4	5955.5	6201.9	6492.2	6554.3	6297.7	5733.5
50°	3993.1	4033.8	4215.1	4678.4	5413.7	6154.1	6455.5	6756.9	6778.3	6506.4	5906.6
52.5°	3864.7	3900.4	4123.4	4617.3	5507.4	6318.0	6623.5	7011.5	6971.8	6785.5	6101.1
55°	3691.6	3723.2	3980.8	4519.6	5518.6	6406.6	6744.7	7247.8	7263.1	7017.6	6289.5
57.5°	3493.0	3546.0	3780.2	4338.3	5415.7	6433.1	6953.5	7567.6	7626.6	7304.8	6440.2
60°	3278.2	3319.9	3585.7	4145.8	5279.3	6532.9	7239.7	7982.1	8028.9	7555.3	6501.3
62.5°	3058.2	3092.8	3312.8	3856.6	5028.8	6552.2	7489.2	8398.6	8383.3	7778.4	6585.9
65°	2784.2	2787.3	2995.1	3507.3	4680.5	6413.7	7617.5	8567.6	8582.9	7981.0	6489.1
67.5°	2436.0	2455.3	2613.2	3099.9	4205.9	6065.5	7536.0	8713.2	8773.3	8106.3	6365.9
70°	1940.0	1951.2	2116.2	2569.4	3575.5	5526.7	7381.2	8735.7	8722.4	7944.4	6026.8
72.5°	1379.9	1422.7	1533.7	1806.6	2743.5	4523.6	6681.6	8044.2	7983.1	7319.1	5376.0
75°	887.0	891.1	1002.1	1180.3	1606.0	3206.9	5569.5	6934.1	6959.6	6348.6	4377.0
77.5°	293.3	331.0	367.6	498.0	666.0	1335.1	3759.9	5465.6	5543.0	5001.3	2986.9
80°	129.3	129.3	219.0	282.1	359.5	572.3	1500.1	2473.6	2710.9	2332.1	1150.8
82.5°	94.7	96.7	146.6	168.0	141.6	238.3	538.7	792.3	840.2	754.6	457.3
85°	54.0	56.0	63.1	72.3	60.1	96.7	119.2	122.2	123.2	106.9	83.5
87.5°	24.4	24.4	22.4	19.3	11.2	7.1	7.1	5.1	6.1	5.1	4.1
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°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2305.6	2315.8	2338.2	2342.3	2352.5	2367.7	2387.1	2396.2	2426.8	2441.1	2445.1
5°	2360.6	2365.7	2404.4	2417.6	2463.5	2486.9	2507.2	2521.5	2559.2	2568.4	2584.6
7.5°	2402.4	2419.7	2466.5	2496.0	2524.6	2549.0	2547.0	2580.6	2599.9	2615.2	2621.3
10°	2445.1	2454.3	2502.2	2515.4	2536.8	2555.1	2560.2	2569.4	2574.5	2595.8	2603.0
12.5°	2511.3	2505.2	2511.3	2522.5	2539.8	2535.8	2547.0	2533.7	2540.9	2568.4	2558.2
15°	2560.2	2545.9	2519.5	2520.5	2509.3	2504.2	2487.9	2476.7	2475.7	2481.8	2492.0
17.5°	2615.2	2573.4	2524.6	2511.3	2469.6	2428.8	2400.3	2369.8	2364.7	2370.8	2363.7
20°	2663.1	2607.0	2522.5	2480.8	2399.3	2326.0	2284.2	2238.4	2236.4	2232.3	2224.1
22.5°	2721.1	2650.8	2521.5	2437.0	2340.2	2222.1	2135.5	2100.9	2059.2	2075.5	2073.4
25°	2807.7	2720.1	2530.7	2390.1	2233.3	2092.8	1981.8	1905.4	1863.6	1854.5	1858.5
27.5°	2914.6	2798.5	2535.8	2331.1	2135.5	1934.9	1758.7	1643.7	1618.2	1584.6	1587.7
30°	3070.4	2905.4	2560.2	2265.9	1991.9	1733.3	1523.5	1373.8	1331.0	1338.1	1340.2
32.5°	3438.0	3125.4	2577.5	2190.5	1834.1	1510.3	1236.3	1086.6	1053.0	1065.2	1072.4
35°	3920.8	3547.0	2672.2	2093.8	1654.9	1249.6	948.1	863.6	870.7	894.1	900.2
37.5°	4399.4	3994.1	2881.0	2009.3	1425.7	956.3	756.7	706.8	748.5	770.9	778.0
40°	4693.7	4291.4	3111.1	1878.9	1134.5	702.7	576.4	547.9	595.8	647.7	673.1
42.5°	4991.1	4534.8	3260.8	1720.0	811.6	511.2	428.7	452.2	530.6	582.5	594.7
45°	5180.5	4660.1	3275.1	1467.5	540.8	396.1	391.1	441.0	521.4	563.2	570.3
47.5°	5364.8	4828.1	3215.0	1175.2	407.4	376.8	388.0	446.0	525.5	572.3	571.3
50°	5548.1	4993.1	3084.7	932.8	384.9	364.6	394.1	456.2	532.6	568.3	568.3
52.5°	5660.1	5074.6	2822.9	742.4	370.7	357.5	397.2	460.3	525.5	545.9	542.8
55°	5794.6	5093.9	2646.8	618.2	355.4	352.4	403.3	471.5	524.5	526.5	519.4
57.5°	5864.8	5046.1	2503.2	525.5	342.2	354.4	410.4	474.6	554.0	578.4	582.5
60°	5834.3	4988.0	2340.2	467.4	330.0	351.3	408.4	498.0	645.7	696.6	687.4
62.5°	5804.8	4879.1	2066.3	419.6	316.7	353.4	406.3	552.0	758.7	705.7	677.2
65°	5697.8	4653.0	1709.9	373.7	300.4	354.4	402.3	610.0	777.0	712.9	664.0
67.5°	5404.5	4276.2	1352.4	324.9	281.1	340.1	393.1	573.3	622.2	560.1	533.6
70°	4967.7	3730.3	927.7	281.1	257.6	322.8	387.0	542.8	584.5	540.8	507.2
72.5°	4262.9	2930.9	514.3	235.2	226.1	301.4	386.0	535.7	588.6	463.4	426.7
75°	3241.5	1944.1	334.0	184.3	185.3	268.9	367.6	511.2	570.3	435.9	386.0
77.5°	1909.5	818.8	233.2	131.4	144.6	208.8	326.9	489.8	539.7	426.7	386.0
80°	648.7	360.5	151.7	88.6	88.6	133.4	233.2	400.2	480.7	415.5	411.4
82.5°	337.1	229.1	96.7	55.0	50.9	64.2	143.6	275.0	386.0	352.4	401.2
85°	67.2	47.9	30.6	22.4	24.4	32.6	50.9	139.5	244.4	271.9	325.9
87.5°	5.1	4.1	6.1	6.1	6.1	6.1	7.1	34.6	97.8	120.2	148.7
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)