

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: P510073

Luminaire Tested: **VERD-M-CA4-200-727-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-200-727-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24322 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

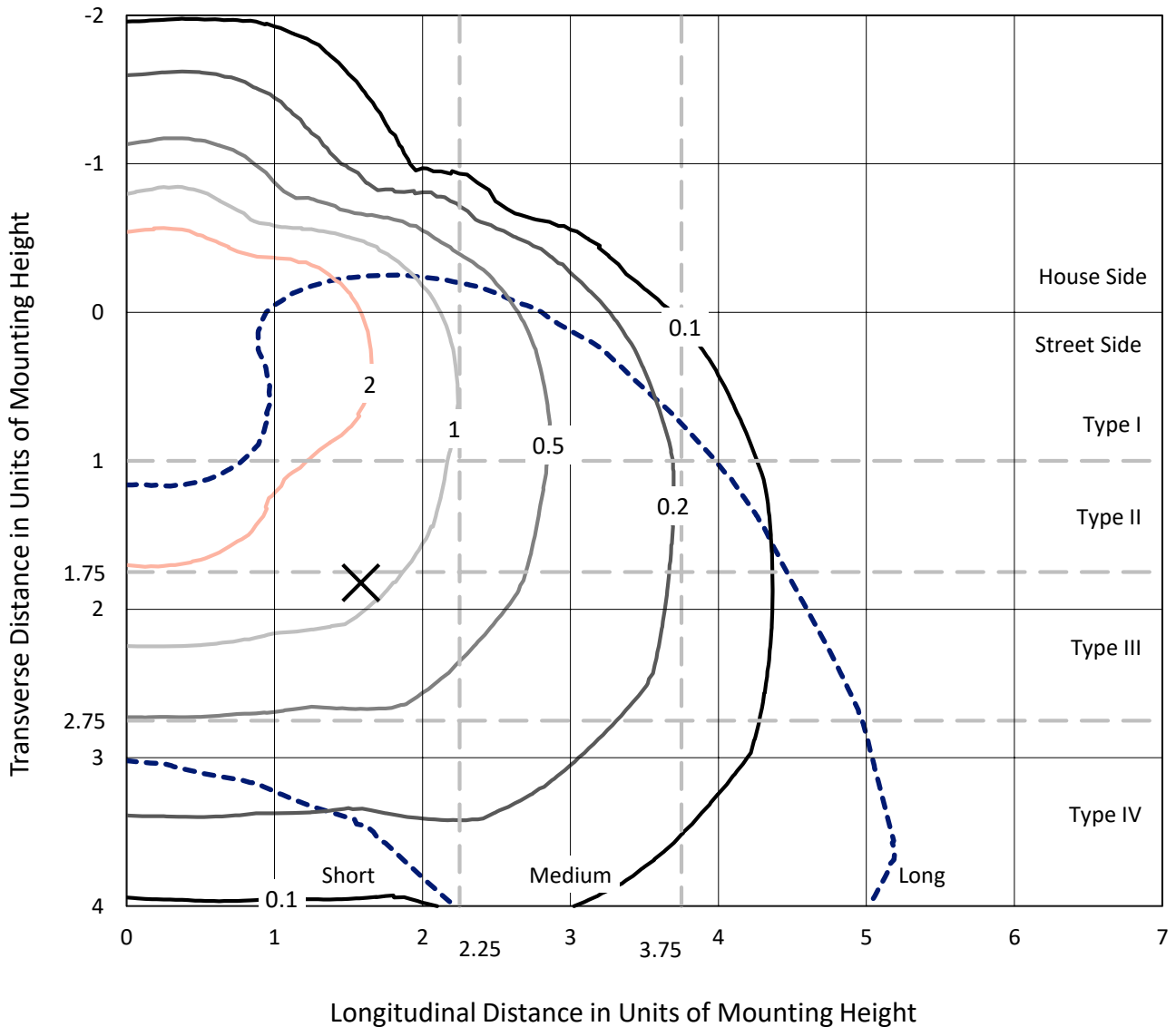
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

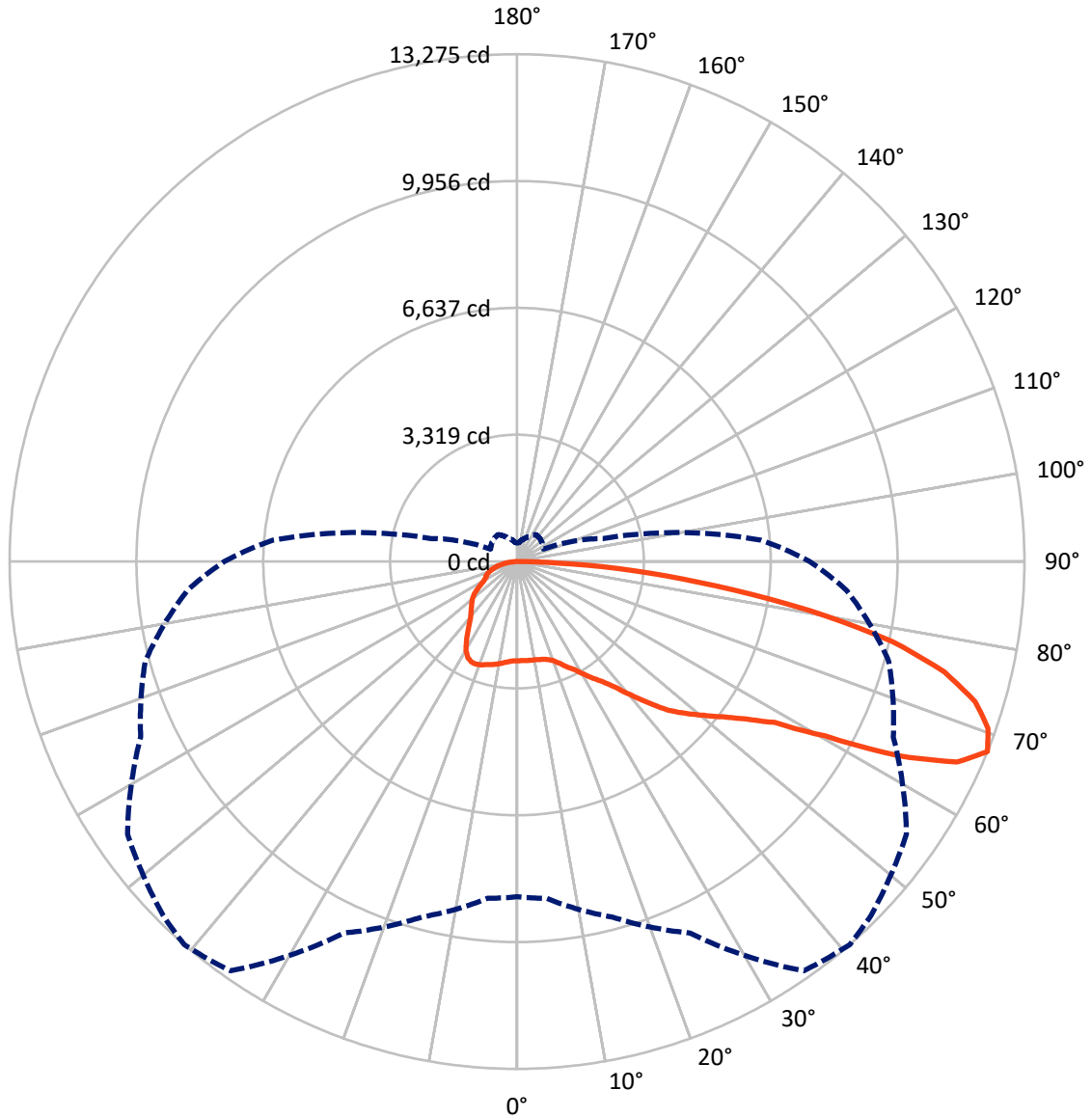
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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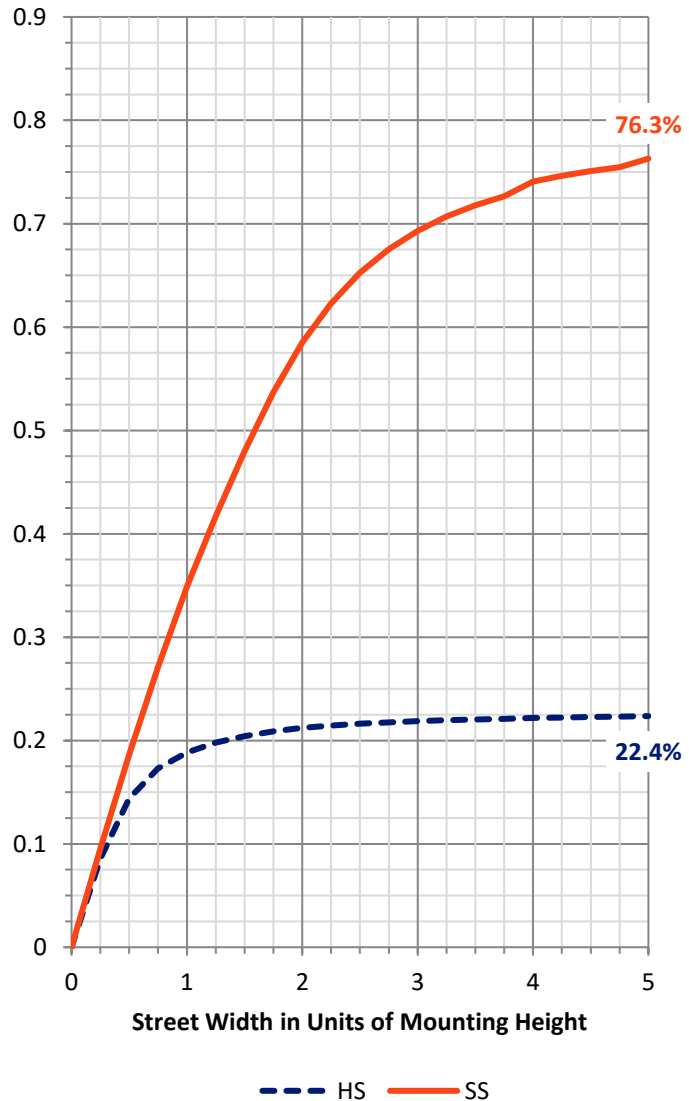
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5504.0	0.0	5504.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18818.0	0.0	18818.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	24322.0	0.0	24322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	1.0
10°-20°	778.3	3.2
20°-30°	1391.7	5.7
30°-40°	2182.2	9.0
40°-50°	3384.0	13.9
50°-60°	4770.6	19.6
60°-70°	6081.4	25.0
70°-80°	4550.9	18.7
80°-90°	932.1	3.8
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°	24322.0	100.0
0°-180°	24322.0	100.0

Coefficient of Utilization



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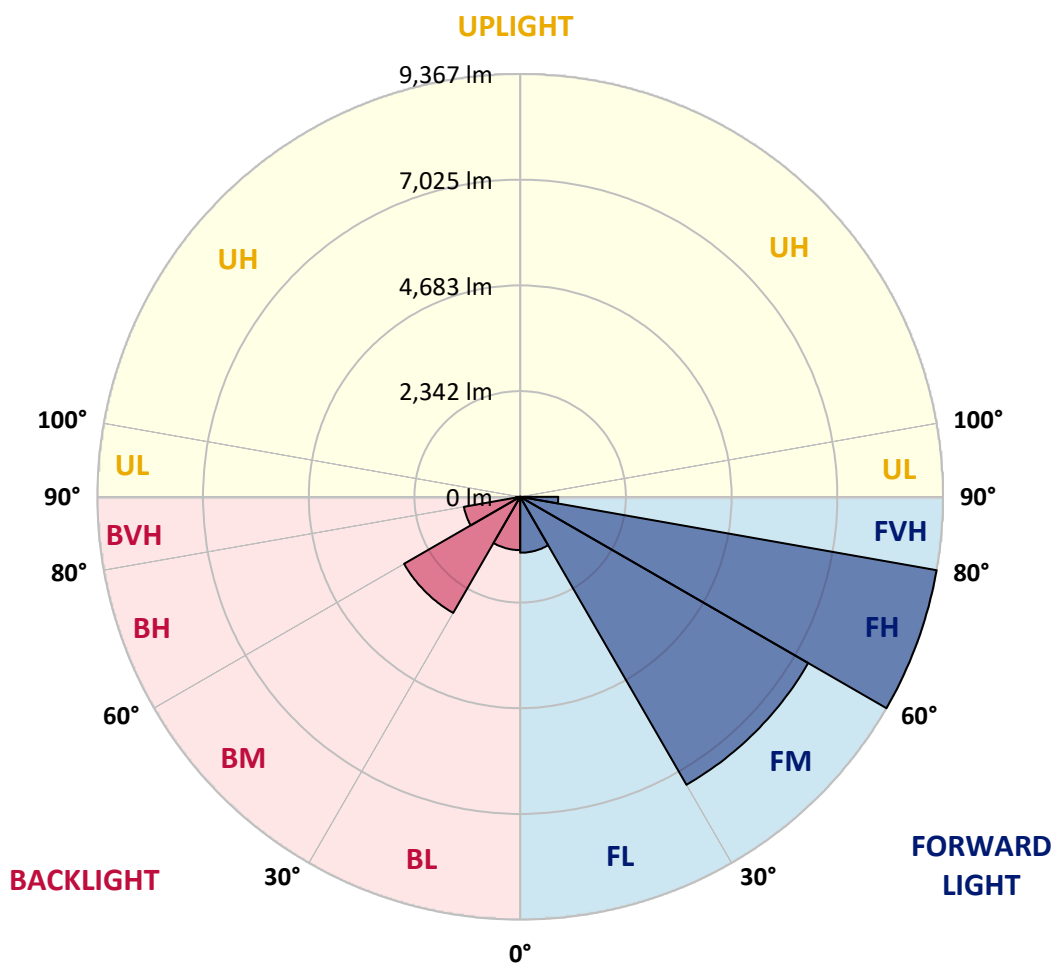
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1239.2	5.1			
FM	(30°-60°)	7366.9	30.3			
FH	(60°-80°)	9366.9	38.5			G4/12000
FVH	(80°-90°)	845.0	3.5			G5
BL	(0°-30°)	1181.7	4.9	B3/2500		
BM	(30°-60°)	2969.9	12.2	B3/5000		
BH	(60°-80°)	1265.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	87.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8
2.5°	2564.9	2594.6	2590.2	2584.7	2593.5	2594.6	2569.3	2579.2	2584.7	2593.5	2607.8
5°	2571.5	2601.2	2599.0	2589.1	2595.7	2599.0	2575.9	2593.5	2593.5	2596.8	2613.3
7.5°	2557.2	2585.8	2585.8	2582.5	2596.8	2610.0	2589.1	2604.5	2613.3	2622.1	2633.1
10°	2544.0	2568.2	2577.0	2574.8	2607.8	2611.1	2596.8	2634.2	2648.5	2657.3	2670.5
12.5°	2529.6	2559.4	2571.5	2583.6	2618.8	2630.9	2623.2	2661.7	2691.5	2706.9	2721.2
15°	2523.0	2556.1	2575.9	2593.5	2632.0	2654.0	2654.0	2712.4	2747.6	2767.4	2792.7
17.5°	2569.3	2603.4	2618.8	2633.1	2668.3	2698.1	2695.9	2764.1	2815.9	2846.7	2892.9
20°	2683.8	2724.5	2733.3	2738.8	2760.8	2771.8	2768.5	2842.3	2913.8	2972.2	3023.9
22.5°	2883.0	2907.2	2911.6	2889.6	2895.1	2903.9	2898.4	2939.1	3020.6	3088.9	3181.3
25°	3045.9	3084.4	3073.4	3041.5	3045.9	3058.0	3041.5	3104.3	3162.6	3251.8	3345.3
27.5°	3217.6	3246.3	3234.2	3214.3	3209.9	3201.1	3197.8	3278.2	3364.1	3434.5	3573.2
30°	3426.8	3442.2	3407.0	3398.2	3405.9	3411.4	3390.5	3492.8	3571.0	3672.3	3859.4
32.5°	3779.1	3793.4	3742.7	3607.3	3610.6	3636.0	3618.3	3747.1	3894.6	4017.9	4208.4
35°	4228.2	4228.2	4188.6	3998.1	3853.9	3855.0	3859.4	4041.0	4315.1	4591.4	4787.4
37.5°	4682.8	4698.2	4623.4	4449.4	4266.7	4169.8	4088.4	4321.8	4680.6	5297.1	5588.8
40°	5156.2	5180.4	5068.1	4908.5	4698.2	4588.1	4493.5	4635.5	5119.8	5996.1	6227.2
42.5°	5570.1	5604.2	5488.6	5320.2	5173.8	5049.4	4906.3	4963.5	5603.1	6659.9	6790.8
45°	5955.3	5974.1	5876.1	5737.4	5616.3	5548.0	5447.9	5513.9	6155.7	7309.3	7285.1
47.5°	6239.3	6266.9	6177.7	6102.8	5978.5	5937.7	5936.6	6118.3	6777.6	7826.7	7714.4
50°	6700.6	6679.7	6479.3	6388.0	6312.0	6325.2	6357.1	6670.9	7508.6	8325.4	8075.5
52.5°	7474.4	7435.9	6991.2	6800.8	6707.2	6750.1	6766.6	7171.7	8246.1	8755.8	8373.8
55°	8475.1	8351.8	8028.2	7517.4	7223.5	7264.2	7245.5	7710.0	8836.1	9166.4	8595.1
57.5°	9136.7	9252.2	9097.0	8805.3	8075.5	7942.3	7898.3	8242.8	9382.1	9559.4	8824.0
60°	9711.3	9902.8	10149.4	9962.3	9765.2	9266.6	8856.0	8848.2	9863.2	9821.4	8916.5
62.5°	10317.8	10419.1	10798.9	10914.5	11279.9	11188.6	10638.2	9614.4	10344.2	10012.9	8970.4
65°	9704.7	9840.1	10531.4	11162.1	12515.0	12647.1	12467.7	11038.8	10677.8	10110.9	8893.4
67.5°	8771.2	8846.0	9628.7	10722.9	13074.2	13274.6	13094.0	12436.9	10862.7	10067.9	8655.6
70°	7574.6	7662.7	8410.1	9902.8	13045.6	13072.0	13001.6	12565.7	10789.0	9866.5	8056.8
72.5°	6141.4	6252.6	6909.7	8459.7	12420.4	12534.8	12423.7	12310.3	10582.0	9302.9	7025.3
75°	4646.5	4794.0	5380.7	6744.6	10976.1	11552.9	11567.2	11917.3	9778.4	7975.3	5098.9
77.5°	3169.2	3310.1	3866.0	5138.5	9111.3	10032.7	10272.7	10655.8	8170.2	5893.7	2781.7
80°	1784.4	1771.2	2476.8	3671.2	6949.4	7758.5	8060.1	8044.7	5737.4	3026.1	566.9
82.5°	824.5	826.7	1267.0	2343.6	4704.8	5238.7	5360.9	4666.3	2013.4	513.0	180.5
85°	410.6	415.0	609.8	1175.7	2656.2	3069.0	2917.1	1941.8	431.5	149.7	107.9
87.5°	162.9	156.3	241.1	483.3	958.8	1016.0	887.2	388.6	78.2	52.8	36.3
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°	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8	2596.8
2.5°	2604.5	2606.7	2616.6	2596.8	2602.3	2597.9	2594.6	2612.2	2611.1	2614.4	2608.9
5°	2612.2	2617.7	2627.6	2618.8	2627.6	2623.2	2626.5	2650.7	2654.0	2652.9	2652.9
7.5°	2633.1	2638.6	2657.3	2646.3	2666.1	2660.6	2661.7	2684.9	2689.3	2682.7	2680.5
10°	2677.2	2681.6	2708.0	2705.8	2713.5	2709.1	2704.7	2714.6	2712.4	2702.5	2698.1
12.5°	2727.8	2739.9	2769.6	2770.7	2780.6	2758.6	2735.5	2732.2	2725.6	2710.2	2706.9
15°	2803.7	2818.1	2863.2	2852.2	2845.6	2798.2	2759.7	2728.9	2702.5	2689.3	2677.2
17.5°	2912.7	2936.9	2999.7	2965.6	2917.1	2847.8	2780.6	2713.5	2657.3	2610.0	2591.3
20°	3051.4	3078.9	3131.8	3086.6	3012.9	2909.4	2800.4	2679.4	2557.2	2452.6	2437.2
22.5°	3216.5	3260.6	3299.1	3195.6	3086.6	2955.7	2800.4	2626.5	2424.0	2267.7	2229.1
25°	3409.2	3443.3	3431.2	3285.9	3128.5	2963.4	2769.6	2532.9	2246.7	2065.1	2034.3
27.5°	3618.3	3633.7	3540.2	3328.8	3132.9	2918.2	2682.7	2366.7	2039.8	1896.7	1867.0
30°	3875.9	3829.7	3651.4	3355.2	3088.9	2818.1	2527.4	2123.4	1871.4	1745.9	1711.7
32.5°	4153.3	4068.6	3730.6	3336.5	2992.0	2650.7	2287.5	1951.7	1759.1	1606.1	1577.4
35°	4681.7	4440.6	3846.2	3280.4	2823.6	2427.3	2055.2	1819.6	1640.2	1476.2	1449.8
37.5°	5395.0	4975.6	4008.0	3202.2	2624.3	2210.4	1882.4	1678.7	1523.5	1354.0	1312.2
40°	5949.8	5516.1	4267.8	3118.6	2440.5	2004.6	1756.9	1605.0	1446.5	1265.9	1229.6
42.5°	6478.2	6010.4	4587.0	3025.0	2251.1	1861.5	1701.8	1588.5	1425.5	1241.7	1207.6
45°	6945.0	6410.0	4862.2	2931.4	2037.6	1729.4	1661.1	1556.5	1395.8	1210.9	1177.9
47.5°	7322.5	6753.4	5101.1	2830.2	1843.8	1629.2	1608.3	1498.2	1338.6	1148.1	1108.5
50°	7663.8	7044.0	5266.2	2722.3	1654.5	1547.7	1521.3	1391.4	1225.2	1056.8	1031.5
52.5°	7874.0	7241.1	5365.3	2739.9	1475.1	1456.4	1413.4	1280.2	1126.1	981.9	948.9
55°	8094.2	7427.1	5364.2	2640.8	1325.4	1318.8	1278.0	1175.7	1054.6	933.5	913.7
57.5°	8184.5	7443.6	5264.0	2175.2	1193.3	1151.4	1142.6	1088.7	983.0	868.5	846.5
60°	8245.0	7371.0	5074.7	1485.0	1027.0	997.3	1040.3	1003.9	908.2	788.2	766.2
62.5°	8185.6	7291.7	4578.2	1072.2	900.5	917.0	957.7	918.1	817.9	708.9	690.2
65°	8043.6	6989.0	3615.0	835.5	844.3	880.6	912.6	846.5	662.7	554.8	543.8
67.5°	7656.1	6413.3	2326.0	766.2	812.4	849.8	860.8	716.6	599.9	496.5	484.4
70°	6840.4	5148.5	896.1	722.1	780.5	797.0	751.8	657.2	551.5	462.3	451.3
72.5°	5351.0	3380.6	517.4	660.5	712.2	696.8	697.9	590.0	497.6	412.8	404.0
75°	3325.5	1224.1	460.1	587.8	603.2	631.9	595.5	511.9	428.2	377.6	366.6
77.5°	1099.7	347.9	426.0	506.4	540.5	519.6	498.7	437.0	366.6	326.9	321.4
80°	266.4	260.9	382.0	396.3	423.8	388.6	386.4	363.3	309.3	286.2	280.7
82.5°	164.0	187.1	303.8	246.6	282.9	286.2	325.8	299.4	225.7	234.5	226.8
85°	101.3	144.2	159.6	118.9	120.0	160.7	194.8	180.5	135.4	127.7	126.6
87.5°	34.1	29.7	34.1	25.3	34.1	58.3	88.1	83.7	56.1	38.5	36.3
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)