

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: P509953

Luminaire Tested: **VERD-M-CA3-170-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509953
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-CA3-170-750-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24842 lumens
Efficiency: N/A
Efficacy: 143.8 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

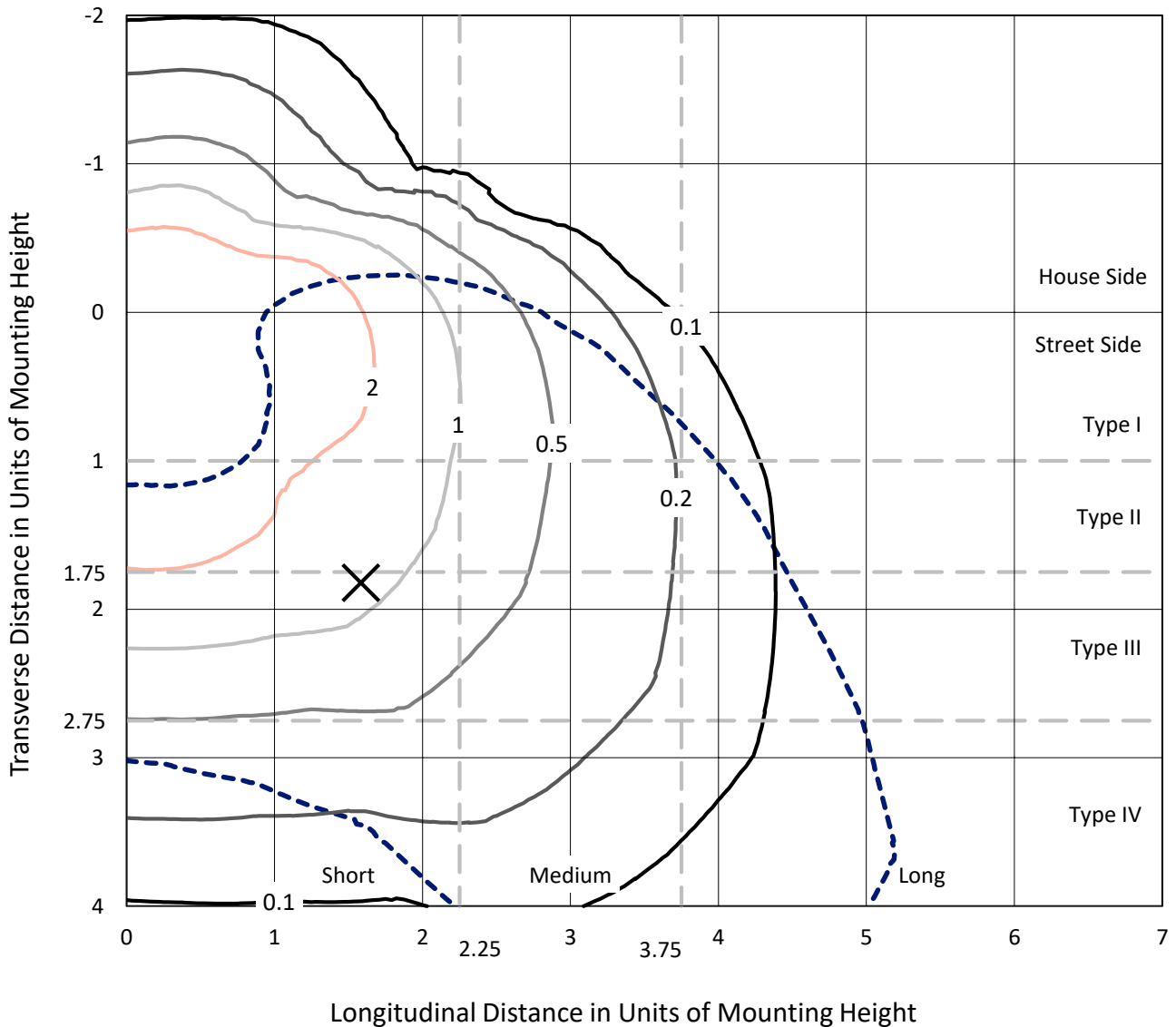
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

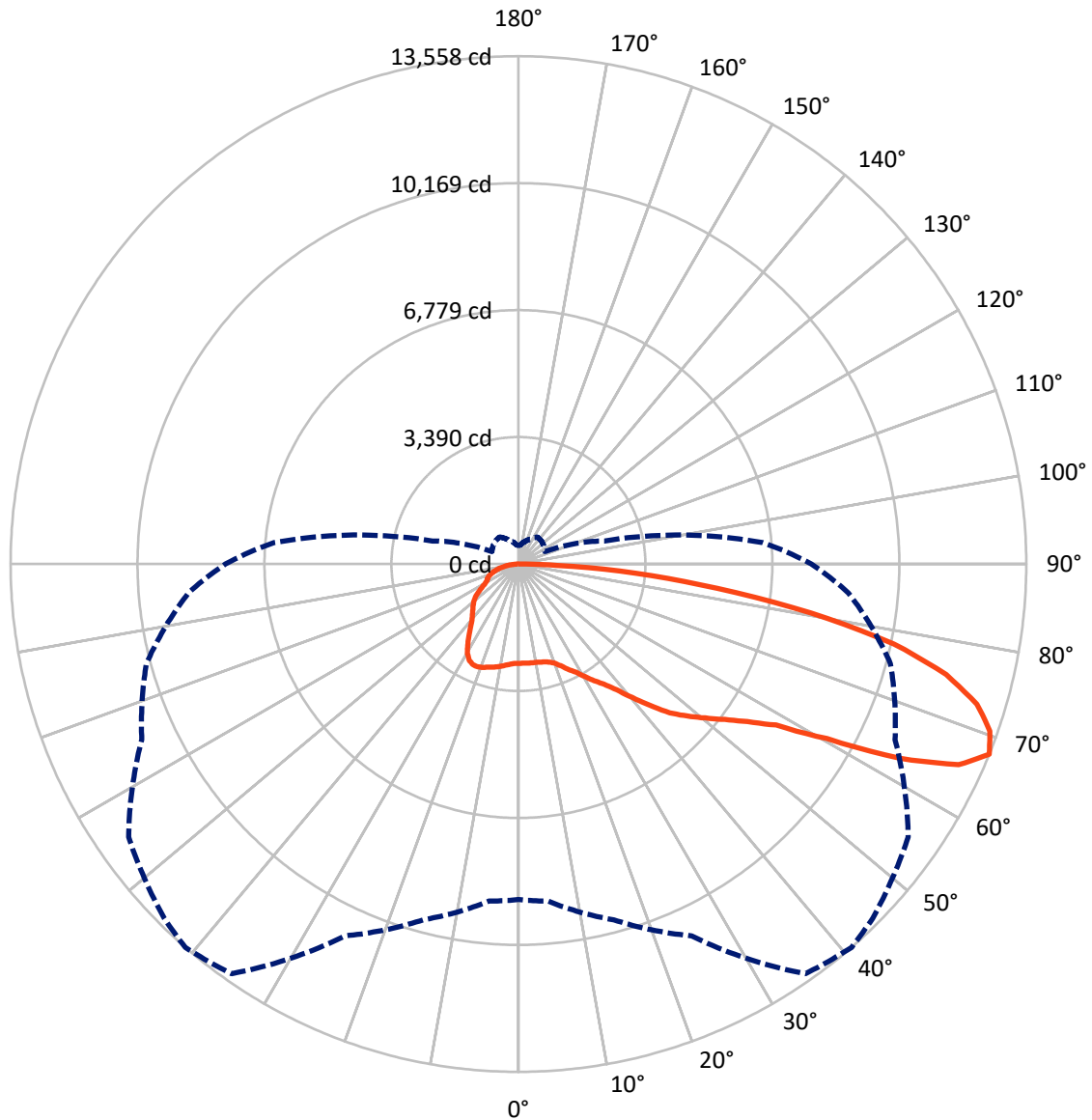
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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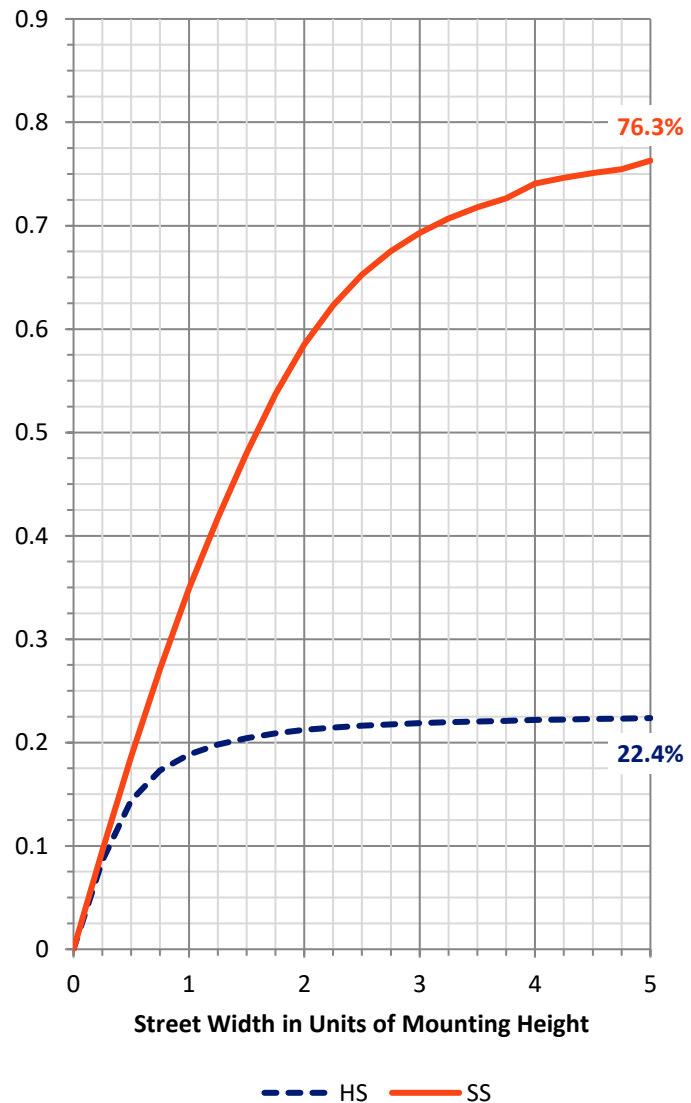
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5621.6	0.0	5621.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19220.4	0.0	19220.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	24842.0	0.0	24842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.0
10°-20°	794.9	3.2
20°-30°	1421.5	5.7
30°-40°	2228.9	9.0
40°-50°	3456.3	13.9
50°-60°	4872.6	19.6
60°-70°	6211.4	25.0
70°-80°	4648.2	18.7
80°-90°	952.0	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°	24842.0	100.0
0°-180°	24842.0	100.0



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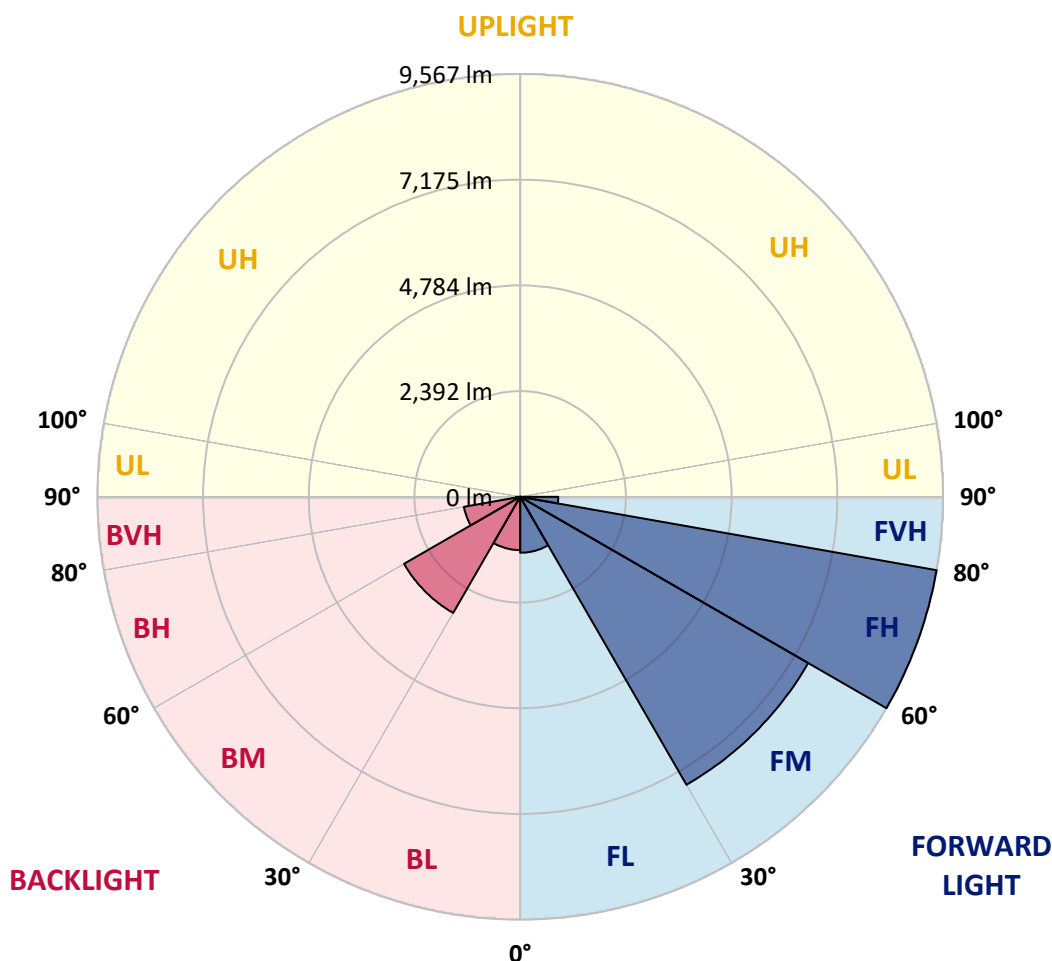
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1265.7	5.1			
FM	(30°-60°)	7524.4	30.3			
FH	(60°-80°)	9567.2	38.5			G4/12000
FVH	(80°-90°)	863.1	3.5			G5
BL	(0°-30°)	1206.9	4.9	B3/2500		
BM	(30°-60°)	3033.4	12.2	B3/5000		
BH	(60°-80°)	1292.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	88.9	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°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2619.7	2650.1	2645.6	2639.9	2648.9	2650.1	2624.2	2634.3	2639.9	2648.9	2663.6
5°	2626.5	2656.8	2654.6	2644.4	2651.2	2654.6	2630.9	2648.9	2648.9	2652.3	2669.2
7.5°	2611.8	2641.1	2641.1	2637.7	2652.3	2665.8	2644.4	2660.2	2669.2	2678.2	2689.4
10°	2598.3	2623.1	2632.1	2629.8	2663.6	2666.9	2652.3	2690.5	2705.2	2714.2	2727.6
12.5°	2583.7	2614.1	2626.5	2638.8	2674.8	2687.2	2679.3	2718.6	2749.0	2764.7	2779.4
15°	2577.0	2610.7	2630.9	2648.9	2688.3	2710.8	2710.8	2770.4	2806.3	2826.6	2852.4
17.5°	2624.2	2659.1	2674.8	2689.4	2725.4	2755.8	2753.5	2823.2	2876.1	2907.5	2954.8
20°	2741.1	2782.7	2791.7	2797.4	2819.8	2831.1	2827.7	2903.0	2976.1	3035.7	3088.6
22.5°	2944.6	2969.4	2973.9	2951.4	2957.0	2966.0	2960.4	3002.0	3085.2	3154.9	3249.3
25°	3111.0	3150.4	3139.1	3106.5	3111.0	3123.4	3106.5	3170.6	3230.2	3321.3	3416.9
27.5°	3286.4	3315.7	3303.3	3283.1	3278.6	3269.6	3266.2	3348.3	3436.0	3507.9	3649.6
30°	3500.1	3515.8	3479.8	3470.8	3478.7	3484.3	3463.0	3567.5	3647.4	3750.8	3941.9
32.5°	3859.9	3874.5	3822.7	3684.5	3687.8	3713.7	3695.7	3827.2	3977.9	4103.8	4298.3
35°	4318.6	4318.6	4278.1	4083.6	3936.3	3937.4	3941.9	4127.4	4407.4	4689.6	4889.7
37.5°	4782.9	4798.7	4722.2	4544.6	4357.9	4259.0	4175.8	4414.1	4780.7	5410.3	5708.3
40°	5266.4	5291.1	5176.4	5013.4	4798.7	4686.2	4589.5	4734.6	5229.3	6124.3	6360.4
42.5°	5689.1	5724.0	5605.9	5433.9	5284.4	5157.3	5011.2	5069.6	5722.9	6802.2	6936.0
45°	6082.7	6101.8	6001.7	5860.0	5736.4	5666.7	5564.3	5631.8	6287.3	7465.6	7440.9
47.5°	6372.7	6400.9	6309.8	6233.3	6106.3	6064.7	6063.6	6249.1	6922.5	7994.0	7879.4
50°	6843.8	6822.5	6617.8	6524.5	6447.0	6460.4	6493.0	6813.5	7669.1	8503.4	8248.1
52.5°	7634.3	7594.9	7140.7	6946.2	6850.6	6894.4	6911.3	7325.1	8422.4	8943.0	8552.8
55°	8656.3	8530.3	8199.8	7678.1	7377.9	7419.5	7400.4	7874.9	9025.1	9362.4	8778.8
57.5°	9332.0	9450.1	9291.5	8993.6	8248.1	8112.1	8067.1	8419.0	9582.7	9763.7	9012.7
60°	9918.9	10114.5	10366.4	10175.3	9974.0	9464.7	9045.3	9037.4	10074.1	10031.3	9107.1
62.5°	10538.4	10641.9	11029.7	11147.8	11521.1	11427.8	10865.6	9820.0	10565.4	10227.0	9162.2
65°	9912.2	10050.5	10756.5	11400.8	12782.6	12917.5	12734.2	11274.9	10906.1	10327.0	9083.5
67.5°	8958.7	9035.2	9834.6	10952.2	13353.8	13558.4	13374.0	12702.8	11095.0	10283.2	8840.7
70°	7736.6	7826.5	8589.9	10114.5	13324.5	13351.5	13279.5	12834.3	11019.6	10077.4	8229.0
72.5°	6272.7	6386.2	7057.5	8640.5	12685.9	12802.8	12689.3	12573.5	10808.3	9501.8	7175.5
75°	4745.8	4896.5	5495.8	6888.8	11210.8	11799.9	11814.5	12172.1	9987.5	8145.8	5207.9
77.5°	3237.0	3380.9	3948.7	5248.4	9306.1	10247.2	10492.3	10883.6	8344.8	6019.7	2841.2
80°	1822.6	1809.1	2529.8	3749.7	7097.9	7924.3	8232.4	8216.7	5860.0	3090.8	579.0
82.5°	842.1	844.4	1294.1	2393.7	4805.4	5350.7	5475.5	4766.1	2056.4	523.9	184.4
85°	419.4	423.9	622.9	1200.8	2713.0	3134.7	2979.5	1983.3	440.7	152.9	110.2
87.5°	166.4	159.7	246.2	493.6	979.3	1037.8	906.2	396.9	79.8	54.0	37.1
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°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2660.2	2662.4	2672.5	2652.3	2657.9	2653.4	2650.1	2668.1	2666.9	2670.3	2664.7
5°	2668.1	2673.7	2683.8	2674.8	2683.8	2679.3	2682.7	2707.4	2710.8	2709.7	2709.7
7.5°	2689.4	2695.0	2714.2	2702.9	2723.1	2717.5	2718.6	2742.3	2746.8	2740.0	2737.8
10°	2734.4	2738.9	2765.9	2763.6	2771.5	2767.0	2762.5	2772.6	2770.4	2760.2	2755.8
12.5°	2786.1	2798.5	2828.8	2830.0	2840.1	2817.6	2794.0	2790.6	2783.9	2768.1	2764.7
15°	2863.7	2878.3	2924.4	2913.2	2906.4	2858.1	2818.7	2787.2	2760.2	2746.8	2734.4
17.5°	2975.0	2999.7	3063.8	3029.0	2979.5	2908.7	2840.1	2771.5	2714.2	2665.8	2646.7
20°	3116.7	3144.8	3198.7	3152.6	3077.3	2971.6	2860.3	2736.6	2611.8	2505.0	2489.3
22.5°	3285.3	3330.3	3369.6	3264.0	3152.6	3018.8	2860.3	2682.7	2475.8	2316.1	2276.8
25°	3482.1	3516.9	3504.6	3356.1	3195.4	3026.7	2828.8	2587.1	2294.8	2109.3	2077.8
27.5°	3695.7	3711.4	3615.9	3400.0	3199.9	2980.6	2740.0	2417.3	2083.4	1937.2	1906.9
30°	3958.8	3911.6	3729.4	3427.0	3154.9	2878.3	2581.5	2168.8	1911.4	1783.2	1748.3
32.5°	4242.1	4155.6	3810.4	3407.9	3055.9	2707.4	2336.4	1993.5	1796.7	1640.4	1611.2
35°	4781.8	4535.6	3928.4	3350.5	2883.9	2479.2	2099.1	1858.5	1675.3	1507.7	1480.8
37.5°	5510.4	5082.0	4093.7	3270.7	2680.4	2257.7	1922.6	1714.6	1556.1	1382.9	1340.2
40°	6077.0	5634.1	4359.1	3185.2	2492.7	2047.4	1794.4	1639.3	1477.4	1293.0	1255.9
42.5°	6616.7	6138.9	4685.1	3089.7	2299.3	1901.3	1738.2	1622.4	1456.0	1268.3	1233.4
45°	7093.4	6547.0	4966.2	2994.1	2081.1	1766.3	1696.6	1589.8	1425.7	1236.8	1203.0
47.5°	7479.1	6897.8	5210.2	2890.7	1883.3	1664.0	1642.7	1530.2	1367.2	1172.7	1132.2
50°	7827.6	7194.6	5378.8	2780.5	1689.9	1580.8	1553.8	1421.2	1251.4	1079.4	1053.5
52.5°	8042.4	7395.9	5480.0	2798.5	1506.6	1487.5	1443.6	1307.6	1150.2	1002.9	969.2
55°	8267.3	7585.9	5478.9	2697.3	1353.7	1347.0	1305.4	1200.8	1077.1	953.4	933.2
57.5°	8359.4	7602.8	5376.6	2221.7	1218.8	1176.1	1167.1	1112.0	1004.0	887.1	864.6
60°	8421.3	7528.6	5183.2	1516.7	1049.0	1018.6	1062.5	1025.4	927.6	805.0	782.5
62.5°	8360.6	7447.6	4676.1	1095.1	919.7	936.6	978.2	937.7	835.4	724.1	705.0
65°	8215.5	7138.4	3692.3	853.4	862.4	899.5	932.1	864.6	676.9	566.7	555.4
67.5°	7819.8	6550.4	2375.7	782.5	829.8	868.0	879.2	731.9	612.8	507.1	494.7
70°	6986.6	5258.5	915.2	737.6	797.2	814.0	767.9	671.2	563.3	472.2	461.0
72.5°	5465.4	3452.8	528.4	674.6	727.4	711.7	712.8	602.6	508.2	421.6	412.6
75°	3396.6	1250.3	470.0	600.4	616.1	645.4	608.3	522.8	437.4	385.6	374.4
77.5°	1123.2	355.3	435.1	517.2	552.0	530.7	509.3	446.4	374.4	333.9	328.3
80°	272.1	266.5	390.1	404.8	432.9	396.9	394.6	371.0	315.9	292.3	286.7
82.5°	167.5	191.1	310.3	251.9	289.0	292.3	332.8	305.8	230.5	239.5	231.6
85°	103.4	147.3	163.0	121.4	122.6	164.2	199.0	184.4	138.3	130.4	129.3
87.5°	34.9	30.4	34.9	25.9	34.9	59.6	89.9	85.4	57.3	39.4	37.1
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)