

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: P509167

Luminaire Tested: **VERD-CA2-120-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16856 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

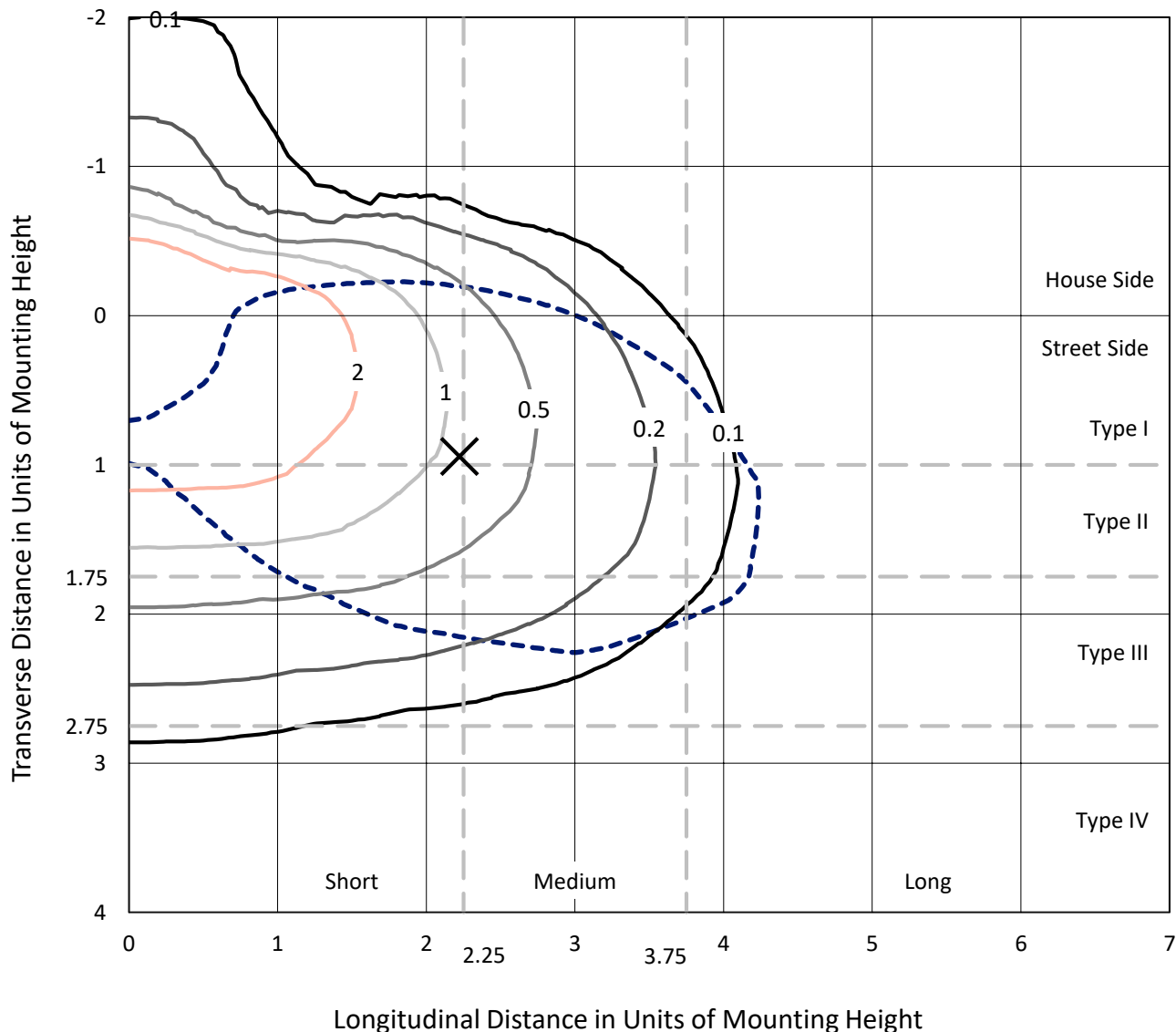
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

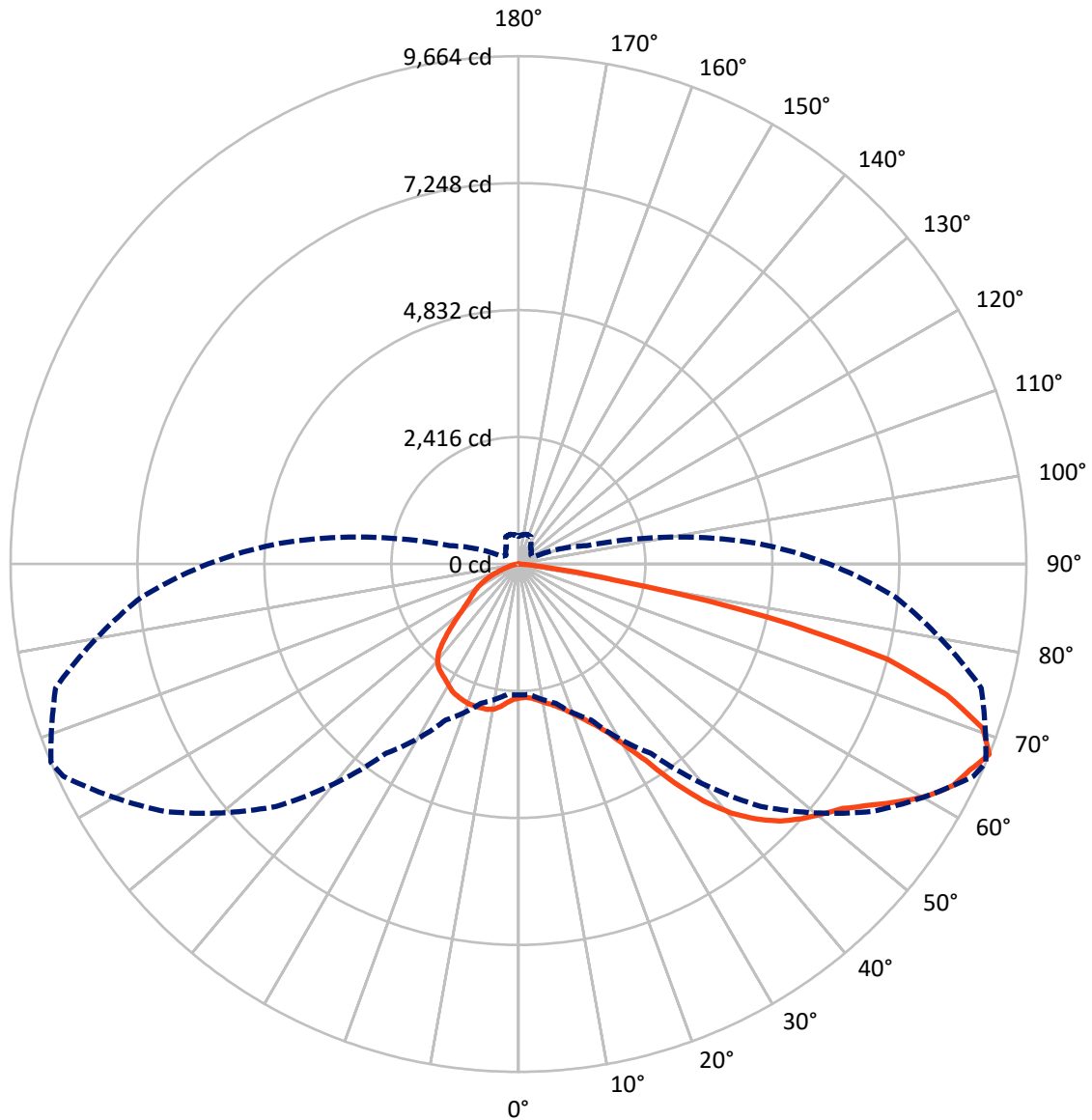
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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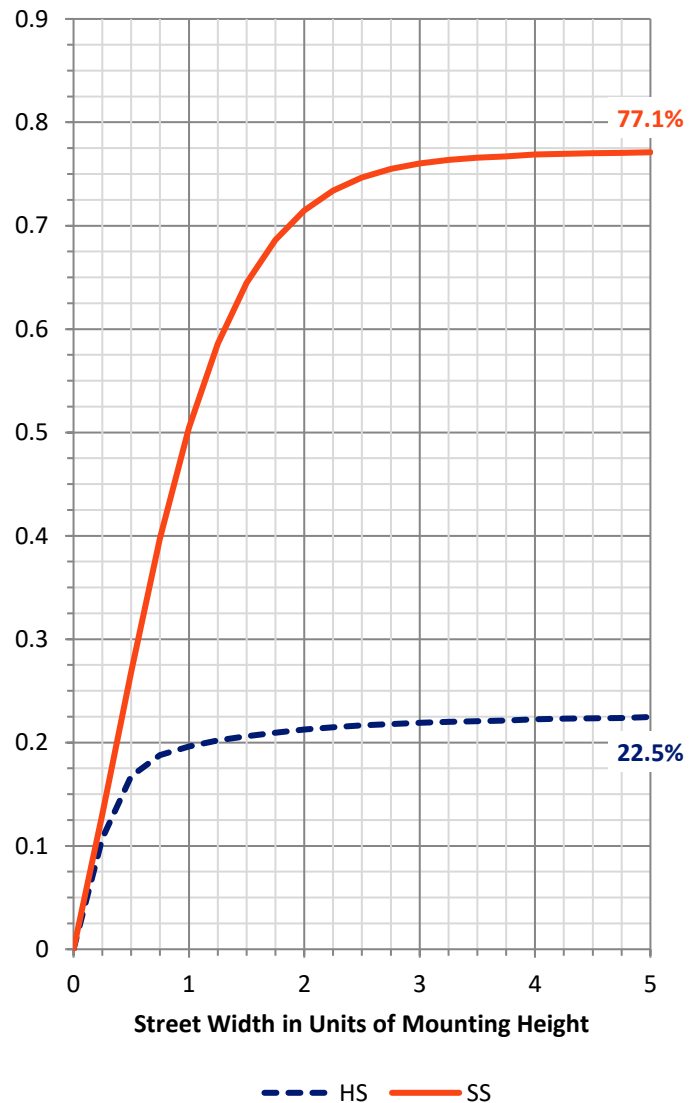
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3854.2	0.0	3854.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13001.8	0.0	13001.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	16856.0	0.0	16856.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.5
10°-20°	826.5	4.9
20°-30°	1428.1	8.5
30°-40°	2167.7	12.9
40°-50°	2945.6	17.5
50°-60°	3503.2	20.8
60°-70°	3604.3	21.4
70°-80°	1966.2	11.7
80°-90°	156.2	0.9
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°	16856.0	100.0
0°-180°	16856.0	100.0



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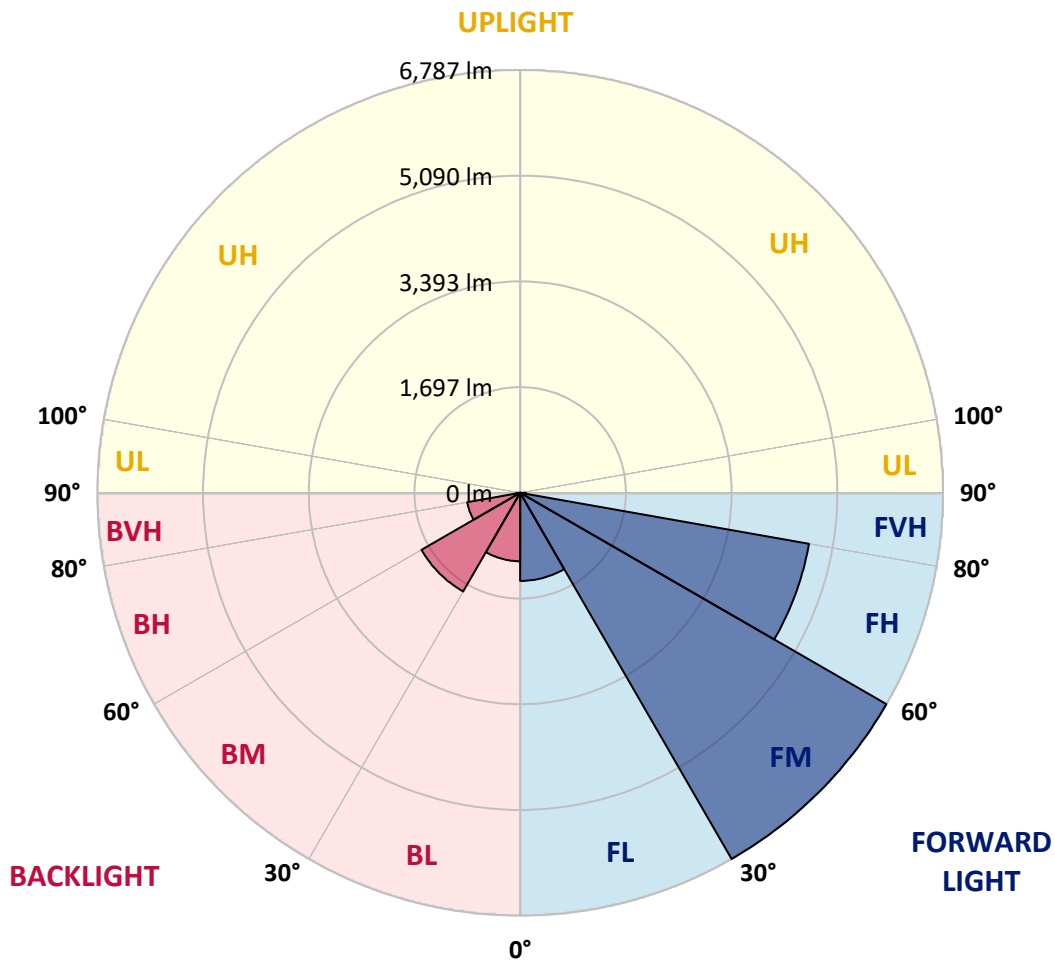
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.8	8.4			
FM	(30°-60°)	6786.9	40.3			
FH	(60°-80°)	4707.5	27.9			G2/5000
FVH	(80°-90°)	93.5	0.6			G1/100
BL	(0°-30°)	1099.0	6.5	B3/2500		
BM	(30°-60°)	1829.6	10.9	B2/2500		
BH	(60°-80°)	862.9	5.1	B2/1000		G2/1000
BVH	(80°-90°)	62.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2564.6	2553.7	2539.1	2544.6	2533.6	2551.9	2544.6	2540.9	2540.9	2542.7	2551.9
5°	2623.1	2612.1	2601.1	2599.3	2577.4	2584.7	2573.8	2562.8	2562.8	2561.0	2564.6
7.5°	2725.3	2710.7	2697.9	2696.1	2668.7	2665.0	2632.2	2610.3	2610.3	2608.4	2613.9
10°	2860.3	2854.9	2829.3	2812.9	2780.0	2758.1	2718.0	2683.3	2676.0	2665.0	2679.6
12.5°	2989.9	2988.1	2964.4	2946.1	2900.5	2862.2	2796.5	2749.0	2739.9	2727.1	2738.0
15°	3152.4	3136.0	3110.4	3099.5	3033.8	2975.3	2900.5	2829.3	2820.2	2805.6	2814.7
17.5°	3331.3	3322.2	3282.0	3269.2	3187.1	3119.6	3026.5	2935.2	2920.6	2900.5	2898.7
20°	3546.7	3530.3	3499.2	3462.7	3382.4	3285.7	3178.0	3073.9	3061.1	3044.7	3010.0
22.5°	3778.5	3760.3	3729.2	3690.9	3588.7	3486.4	3351.4	3219.9	3212.6	3201.7	3137.8
25°	3999.4	3968.3	3972.0	3935.5	3844.2	3714.6	3555.8	3398.8	3395.2	3393.4	3291.1
27.5°	4234.8	4202.0	4191.0	4178.3	4092.5	3970.2	3791.3	3641.6	3628.8	3630.7	3475.5
30°	4455.7	4441.1	4432.0	4422.9	4380.9	4271.4	4099.8	3966.5	4006.7	4003.0	3789.5
32.5°	4627.3	4616.4	4654.7	4698.5	4687.5	4596.3	4477.6	4417.4	4457.5	4587.1	4401.0
35°	4778.8	4773.3	4846.3	4939.4	5005.2	4939.4	4926.7	5019.8	5112.8	5328.2	5220.5
37.5°	4943.1	4935.8	4997.9	5156.7	5271.7	5291.7	5388.5	5627.6	5717.0	5932.4	5706.1
40°	4941.3	4950.4	5100.1	5302.7	5512.6	5682.4	5881.3	6113.2	6228.1	6330.4	5979.9
42.5°	4860.9	4866.4	5054.4	5439.6	5744.4	6078.5	6255.5	6553.1	6631.6	6651.6	6303.0
45°	4778.8	4782.5	4986.9	5419.5	5937.9	6449.0	6646.2	6918.1	6978.4	6909.0	6522.0
47.5°	4660.2	4683.9	4904.8	5399.4	6104.0	6790.4	6949.2	7219.3	7243.1	7155.4	6704.6
50°	4519.6	4532.4	4786.1	5333.7	6213.5	7002.1	7190.1	7434.7	7480.3	7381.8	6930.9
52.5°	4348.0	4359.0	4634.6	5246.1	6273.8	7164.6	7374.5	7666.5	7728.6	7684.8	7129.9
55°	4150.9	4156.4	4437.5	5103.7	6257.4	7235.8	7535.1	7995.1	8099.1	7991.5	7296.0
57.5°	3904.5	3924.5	4244.0	4890.2	6133.2	7325.2	7825.3	8400.3	8533.6	8303.6	7420.1
60°	3650.7	3670.8	3961.0	4641.9	5925.1	7365.4	8124.7	8836.6	8953.4	8599.3	7496.8
62.5°	3366.0	3393.4	3634.3	4267.7	5552.8	7312.4	8345.6	9218.1	9283.8	8776.4	7476.7
65°	2951.6	2966.2	3229.1	3816.8	5067.2	7036.8	8336.4	9422.5	9444.4	8971.7	7389.1
67.5°	2491.6	2493.4	2741.7	3272.9	4399.1	6522.0	8208.7	9555.8	9663.5	9115.9	7197.4
70°	1894.7	1920.3	2113.8	2508.1	3596.0	5642.2	7787.0	9424.4	9373.3	8721.6	6648.0
72.5°	1352.6	1338.0	1436.6	1703.1	2517.2	4353.5	6713.7	8515.3	8526.3	7944.0	5784.6
75°	719.2	722.8	806.8	1031.3	1285.1	2833.0	5370.2	7193.8	7259.5	6812.3	4526.9
77.5°	160.6	182.5	277.5	394.3	558.6	907.2	2913.3	4718.6	4842.7	4483.1	2480.7
80°	124.1	126.0	182.5	224.5	246.4	434.4	925.5	1712.2	1900.2	1794.3	932.8
82.5°	82.1	84.0	120.5	124.1	118.6	199.0	419.8	512.9	564.0	492.8	346.8
85°	43.8	45.6	54.8	60.2	47.5	58.4	54.8	43.8	45.6	40.2	40.2
87.5°	9.1	5.5	7.3	5.5	5.5	3.7	5.5	5.5	5.5	5.5	5.5
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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2551.9	2555.5	2564.6	2579.2	2586.5	2603.0	2613.9	2641.3	2679.6	2666.9	2650.4
5°	2566.5	2577.4	2608.4	2646.8	2676.0	2719.8	2741.7	2794.6	2838.4	2834.8	2805.6
7.5°	2621.2	2645.0	2683.3	2739.9	2789.2	2833.0	2864.0	2920.6	2960.7	2944.3	2916.9
10°	2690.6	2714.3	2756.3	2807.4	2843.9	2891.4	2911.5	2957.1	2982.6	2962.6	2938.8
12.5°	2754.5	2767.3	2796.5	2834.8	2854.9	2885.9	2895.0	2927.9	2951.6	2942.5	2913.3
15°	2816.5	2814.7	2820.2	2831.1	2838.4	2845.7	2847.6	2871.3	2887.7	2869.5	2849.4
17.5°	2885.9	2867.6	2843.9	2825.7	2798.3	2785.5	2761.8	2772.7	2770.9	2756.3	2739.9
20°	2973.5	2940.7	2867.6	2811.1	2739.9	2683.3	2634.0	2624.9	2624.9	2584.7	2582.9
22.5°	3077.6	3022.8	2900.5	2776.4	2661.4	2571.9	2480.7	2427.7	2389.4	2360.2	2347.4
25°	3212.6	3112.2	2929.7	2728.9	2559.2	2396.7	2259.8	2186.8	2113.8	2066.3	2059.0
27.5°	3356.8	3247.3	2948.0	2686.9	2418.6	2195.9	2006.1	1856.4	1788.9	1757.8	1728.6
30°	3592.3	3398.8	2980.8	2597.5	2241.5	1949.5	1697.6	1522.4	1456.6	1434.7	1416.5
32.5°	4163.7	3791.3	3011.9	2506.2	2051.7	1677.5	1345.3	1197.4	1140.9	1162.8	1170.1
35°	4879.2	4375.4	3159.7	2400.4	1854.6	1369.0	1035.0	936.4	940.1	972.9	983.9
37.5°	5364.8	4890.2	3460.9	2267.1	1571.6	1014.9	801.3	770.3	797.7	826.9	832.4
40°	5649.5	5125.6	3672.6	2102.8	1237.6	759.4	602.4	580.5	638.9	704.6	744.7
42.5°	5952.5	5326.4	3782.2	1889.3	868.9	549.4	461.8	478.2	571.3	627.9	653.5
45°	6115.0	5483.4	3732.9	1584.4	591.4	427.1	414.4	460.0	553.1	604.2	611.5
47.5°	6290.2	5640.4	3614.2	1266.8	452.7	405.2	407.1	461.8	556.7	611.5	611.5
50°	6441.7	5770.0	3402.5	993.0	430.8	390.6	408.9	470.9	562.2	609.7	607.8
52.5°	6617.0	5828.4	3101.3	803.2	408.9	377.9	410.7	478.2	553.1	580.5	576.8
55°	6671.7	5786.4	2957.1	671.7	392.5	370.5	418.0	489.2	549.4	554.9	545.8
57.5°	6671.7	5673.2	2792.8	573.2	377.9	370.5	421.7	487.4	569.5	604.2	600.5
60°	6642.5	5554.6	2540.9	512.9	357.8	366.9	423.5	514.8	677.2	715.5	713.7
62.5°	6549.4	5362.9	2230.6	452.7	337.7	368.7	418.0	553.1	774.0	757.5	717.4
65°	6328.5	5001.5	1808.9	397.9	315.8	368.7	410.7	607.8	688.2	657.1	642.5
67.5°	5912.4	4547.0	1345.3	341.3	290.2	345.0	399.8	569.5	584.1	549.4	527.5
70°	5362.9	3851.5	863.4	288.4	262.9	324.9	392.5	534.8	564.0	522.1	494.7
72.5°	4468.5	3059.3	500.2	235.5	222.7	299.4	377.9	518.4	554.9	498.3	460.0
75°	3152.4	1931.2	328.6	173.4	178.9	255.6	350.5	485.5	520.2	450.9	396.1
77.5°	1606.3	724.7	233.6	127.8	120.5	195.3	303.0	447.2	512.9	454.5	388.8
80°	567.7	365.1	153.3	84.0	78.5	120.5	231.8	379.7	481.9	443.6	430.8
82.5°	242.8	182.5	84.0	52.9	47.5	60.2	131.4	299.4	423.5	401.6	485.5
85°	34.7	31.0	23.7	20.1	20.1	27.4	42.0	147.9	286.6	326.7	396.1
87.5°	5.5	5.5	5.5	3.7	3.7	3.7	1.8	21.9	94.9	142.4	197.1
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)