

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: P509238

Luminaire Tested: **VERD-CA2-130-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1180mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17036 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

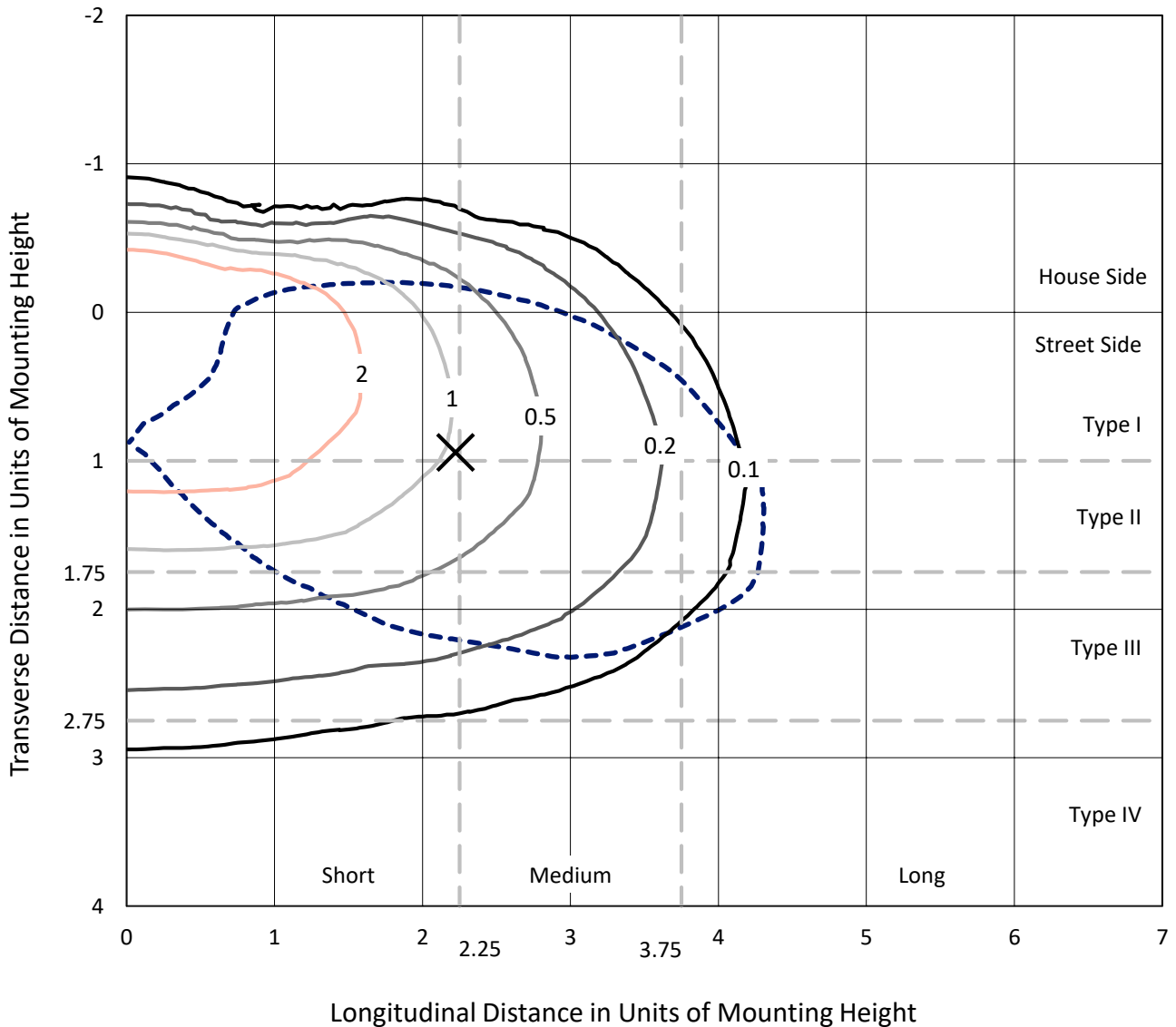
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

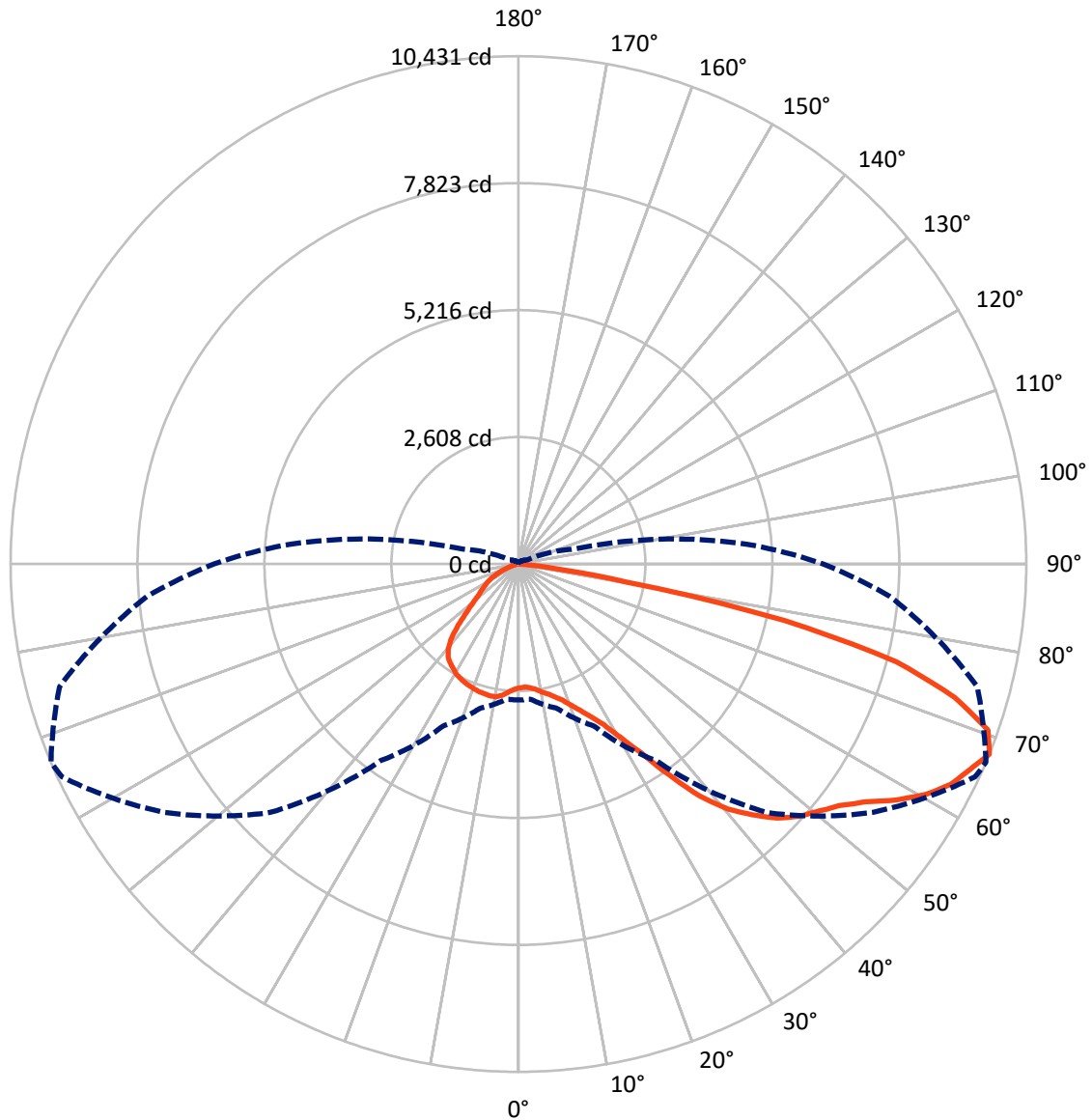
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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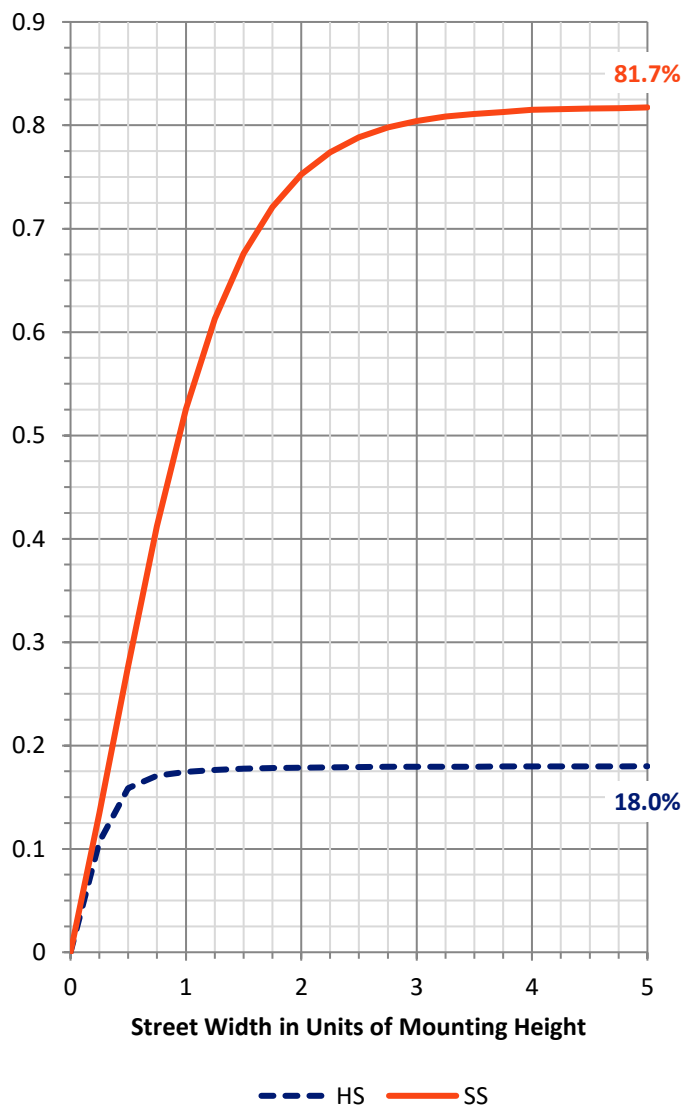
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.1	0.0	3104.1
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13931.9	0.0	13931.9
	% Fixture	81.8	0.0	81.8
Total	Lumens	17036.0	0.0	17036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	1.5
10°-20°	798.1	4.7
20°-30°	1361.9	8.0
30°-40°	2119.9	12.4
40°-50°	2992.5	17.6
50°-60°	3604.2	21.2
60°-70°	3724.7	21.9
70°-80°	2051.9	12.0
80°-90°	127.9	0.8
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°	17036.0	100.0
0°-180°	17036.0	100.0

Coefficient of Utilization



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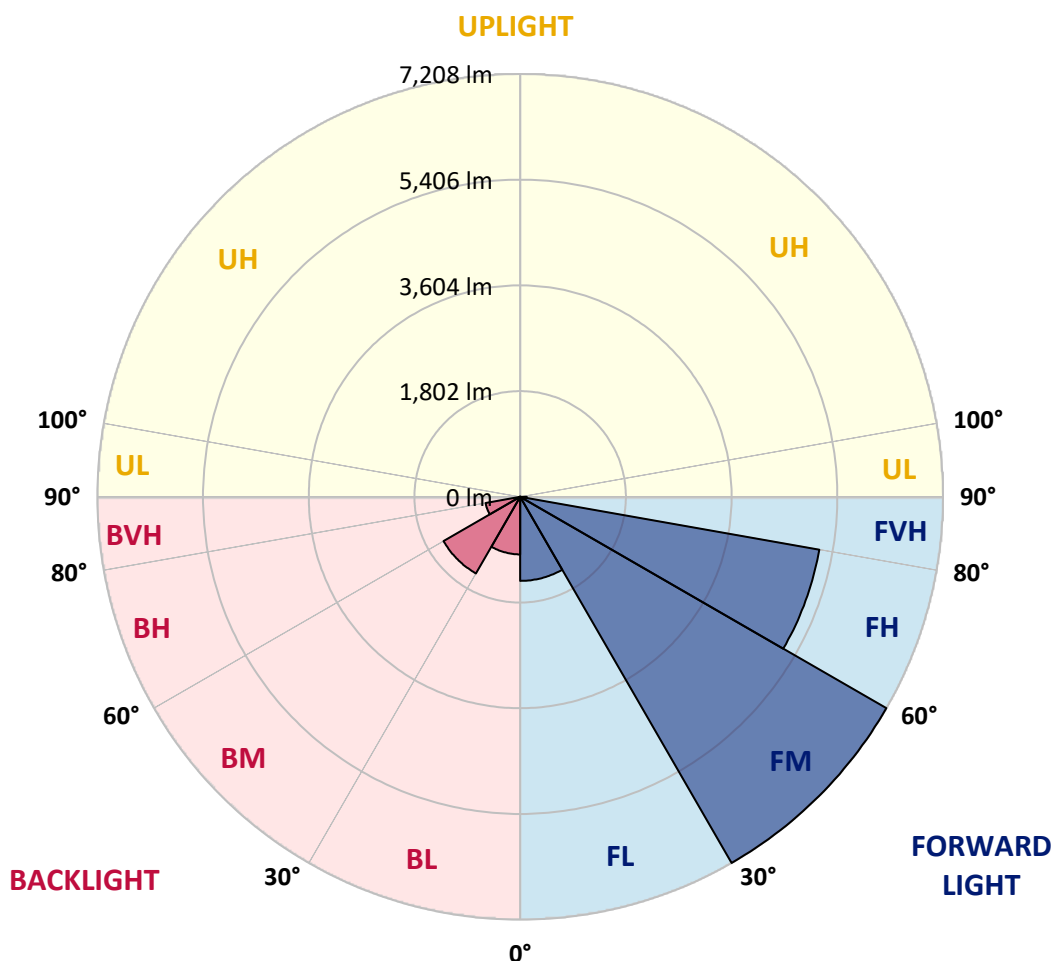
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.5	8.4			
FM (30°-60°)	7207.7	42.3			
FH (60°-80°)	5178.3	30.4			G3/7500
FVH (80°-90°)	112.5	0.7			G2/225
BL (0°-30°)	981.4	5.8	B2/1000		
BM (30°-60°)	1508.9	8.9	B2/2500		
BH (60°-80°)	598.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2520.0	2545.6	2545.6	2537.8	2541.7	2524.0	2512.1	2525.9	2529.9	2541.7	2557.5
5°	2569.3	2598.9	2596.9	2583.1	2571.3	2555.5	2539.7	2551.6	2553.5	2557.5	2577.2
7.5°	2673.8	2701.4	2689.6	2675.8	2669.9	2634.4	2600.9	2598.9	2602.8	2614.7	2636.3
10°	2809.9	2831.6	2827.6	2805.9	2790.1	2736.9	2689.6	2671.8	2673.8	2677.8	2715.2
12.5°	2963.7	2993.2	2971.6	2942.0	2914.4	2837.5	2772.4	2746.8	2742.8	2752.7	2784.2
15°	3115.5	3147.1	3131.3	3113.5	3050.4	2965.6	2882.8	2841.4	2837.5	2837.5	2857.2
17.5°	3314.7	3326.5	3316.6	3291.0	3220.0	3113.5	3014.9	2953.8	2944.0	2949.9	2953.8
20°	3535.5	3557.2	3545.4	3517.8	3415.2	3300.9	3176.6	3103.7	3097.8	3103.7	3066.2
22.5°	3803.7	3811.6	3805.6	3760.3	3667.6	3515.8	3352.1	3269.3	3269.3	3275.2	3198.3
25°	4032.4	4079.7	4065.9	4010.7	3902.3	3770.2	3573.0	3470.4	3476.3	3480.3	3373.8
27.5°	4298.6	4338.0	4328.2	4286.8	4215.8	4048.2	3811.6	3744.5	3738.6	3732.7	3567.1
30°	4553.0	4582.5	4602.3	4592.4	4535.2	4377.5	4166.5	4117.2	4133.0	4121.1	3835.2
32.5°	4760.0	4811.3	4866.5	4878.3	4862.5	4722.5	4568.7	4594.4	4614.1	4754.1	4582.5
35°	4937.5	4992.7	5083.4	5178.0	5195.8	5140.6	5063.7	5251.0	5308.2	5594.1	5412.7
37.5°	5122.8	5170.2	5260.9	5410.7	5509.3	5538.9	5613.8	5909.6	6047.6	6294.1	5956.9
40°	5207.6	5254.9	5412.7	5602.0	5807.1	5972.7	6122.6	6465.7	6619.5	6694.4	6256.6
42.5°	5122.8	5168.2	5422.5	5779.5	6057.5	6424.2	6593.8	6936.9	7039.5	7031.6	6625.4
45°	5040.0	5083.4	5349.6	5824.8	6284.2	6840.3	6984.2	7368.8	7443.7	7349.0	6838.3
47.5°	4933.5	4992.7	5268.7	5797.2	6487.3	7216.9	7349.0	7676.4	7743.4	7603.4	7082.8
50°	4803.4	4854.7	5176.1	5753.8	6621.4	7498.9	7638.9	7964.2	7982.0	7851.9	7303.7
52.5°	4653.5	4681.1	5030.2	5667.1	6737.8	7705.9	7865.7	8206.8	8248.2	8212.7	7565.9
55°	4430.7	4480.0	4854.7	5531.0	6745.7	7814.4	8041.1	8549.9	8624.8	8542.0	7725.7
57.5°	4196.1	4249.3	4637.8	5341.7	6629.3	7883.4	8360.6	8995.5	9143.4	8877.2	7855.8
60°	3937.8	3985.1	4367.6	5061.7	6422.3	7982.0	8689.9	9518.1	9610.7	9163.1	7942.6
62.5°	3638.0	3675.5	4040.3	4722.5	6104.8	7956.4	8973.8	9938.1	9967.6	9419.5	7934.7
65°	3273.2	3271.3	3610.4	4249.3	5584.2	7751.3	9025.1	10149.0	10184.5	9585.1	7863.7
67.5°	2792.1	2786.2	3070.1	3671.6	4927.6	7216.9	8889.0	10346.2	10431.0	9758.6	7656.6
70°	2188.7	2196.6	2411.6	2947.9	3998.9	6402.6	8530.2	10214.1	10231.9	9425.4	7120.3
72.5°	1547.9	1543.9	1689.9	2052.7	2955.8	4998.6	7496.9	9313.0	9368.2	8601.1	6203.4
75°	709.9	739.4	1104.2	1254.1	1784.5	3403.4	6167.9	7913.0	8019.5	7404.2	4836.9
77.5°	132.1	136.1	236.6	477.2	698.0	1228.5	3685.4	5359.5	5582.3	5045.9	2725.1
80°	104.5	106.5	140.0	228.7	291.8	552.1	1212.7	2208.5	2257.8	1967.9	982.0
82.5°	76.9	78.9	104.5	147.9	136.1	238.6	504.8	642.8	682.3	634.9	390.4
85°	45.4	47.3	61.1	73.0	71.0	94.6	84.8	76.9	69.0	57.2	49.3
87.5°	11.8	15.8	25.6	25.6	19.7	17.7	15.8	13.8	15.8	13.8	13.8
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°	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7	2543.7
2.5°	2561.4	2559.4	2565.4	2581.1	2594.9	2596.9	2616.6	2642.3	2630.4	2664.0	2652.1
5°	2589.0	2594.9	2616.6	2642.3	2665.9	2685.6	2715.2	2758.6	2744.8	2776.3	2764.5
7.5°	2652.1	2662.0	2695.5	2721.1	2748.7	2742.8	2768.5	2794.1	2762.5	2796.1	2780.3
10°	2727.0	2738.9	2758.6	2768.5	2760.6	2756.6	2750.7	2746.8	2705.4	2729.0	2719.2
12.5°	2794.1	2796.1	2790.1	2764.5	2746.8	2699.4	2677.8	2667.9	2604.8	2622.5	2610.7
15°	2859.2	2831.6	2802.0	2742.8	2693.5	2620.6	2573.2	2531.8	2472.7	2496.3	2472.7
17.5°	2930.1	2888.7	2811.8	2725.1	2624.5	2518.0	2441.1	2374.1	2285.4	2281.4	2273.5
20°	3020.9	2959.7	2835.5	2693.5	2549.6	2389.9	2267.6	2155.2	2021.1	2003.4	1967.9
22.5°	3135.2	3044.5	2871.0	2652.1	2456.9	2255.8	2048.7	1863.4	1693.8	1640.6	1620.8
25°	3267.3	3154.9	2890.7	2614.7	2368.2	2060.6	1778.6	1538.0	1338.9	1281.7	1265.9
27.5°	3433.0	3294.9	2920.3	2559.4	2226.2	1822.0	1455.2	1189.0	1011.6	918.9	905.1
30°	3661.7	3450.7	2961.7	2504.2	2054.7	1542.0	1127.9	818.3	650.7	595.5	585.6
32.5°	4284.8	3821.4	3007.0	2405.6	1827.9	1230.4	749.3	522.5	410.1	364.8	360.8
35°	5075.5	4499.7	3172.7	2293.2	1553.8	853.8	465.4	311.6	250.4	232.7	232.7
37.5°	5586.2	5026.2	3448.7	2135.5	1193.0	522.5	280.0	203.1	191.3	189.3	189.3
40°	5854.4	5258.9	3647.9	1918.6	798.6	303.7	197.2	175.5	171.5	167.6	167.6
42.5°	6195.5	5458.0	3819.4	1624.8	463.4	213.0	173.5	159.7	153.8	149.9	149.9
45°	6384.8	5674.9	3711.0	1275.8	264.2	191.3	159.7	143.9	138.0	138.0	138.0
47.5°	6570.2	5882.0	3573.0	916.9	224.8	175.5	149.9	134.1	128.2	132.1	132.1
50°	6781.1	6022.0	3354.1	686.2	213.0	163.7	136.1	122.3	118.3	124.2	124.2
52.5°	6978.3	6035.8	3003.1	548.2	197.2	151.8	126.2	112.4	108.5	112.4	112.4
55°	7035.5	5992.4	2902.5	435.8	187.3	140.0	118.3	104.5	94.6	94.6	92.7
57.5°	7021.7	5907.6	2658.0	368.7	175.5	128.2	108.5	92.7	80.8	76.9	76.9
60°	6974.4	5789.3	2399.7	321.4	163.7	118.3	96.6	78.9	67.0	63.1	63.1
62.5°	6915.2	5566.5	2034.9	280.0	151.8	114.4	80.8	65.1	57.2	53.2	53.2
65°	6666.8	5219.4	1628.7	238.6	140.0	100.6	71.0	57.2	49.3	45.4	45.4
67.5°	6254.7	4691.0	1177.2	203.1	130.1	84.8	63.1	49.3	41.4	39.4	37.5
70°	5639.5	3961.4	729.6	175.5	112.4	76.9	55.2	43.4	37.5	31.5	31.5
72.5°	4700.9	3101.7	382.5	138.0	88.7	65.1	49.3	39.4	31.5	27.6	25.6
75°	3304.8	1912.7	276.1	106.5	61.1	53.2	41.4	33.5	27.6	23.7	21.7
77.5°	1595.2	658.6	193.2	78.9	43.4	39.4	31.5	27.6	21.7	19.7	19.7
80°	583.7	374.6	138.0	57.2	35.5	31.5	23.7	21.7	17.7	15.8	15.8
82.5°	262.3	177.5	78.9	37.5	25.6	23.7	17.7	13.8	13.8	13.8	13.8
85°	43.4	37.5	25.6	17.7	13.8	11.8	11.8	9.9	9.9	9.9	9.9
87.5°	11.8	11.8	9.9	9.9	7.9	5.9	3.9	3.9	3.9	5.9	5.9
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)