

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: P509214

Luminaire Tested: **VERD-CA2-130-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509214
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-CA2-130-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16782 lumens
Efficiency: N/A
Efficacy: 127.3 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

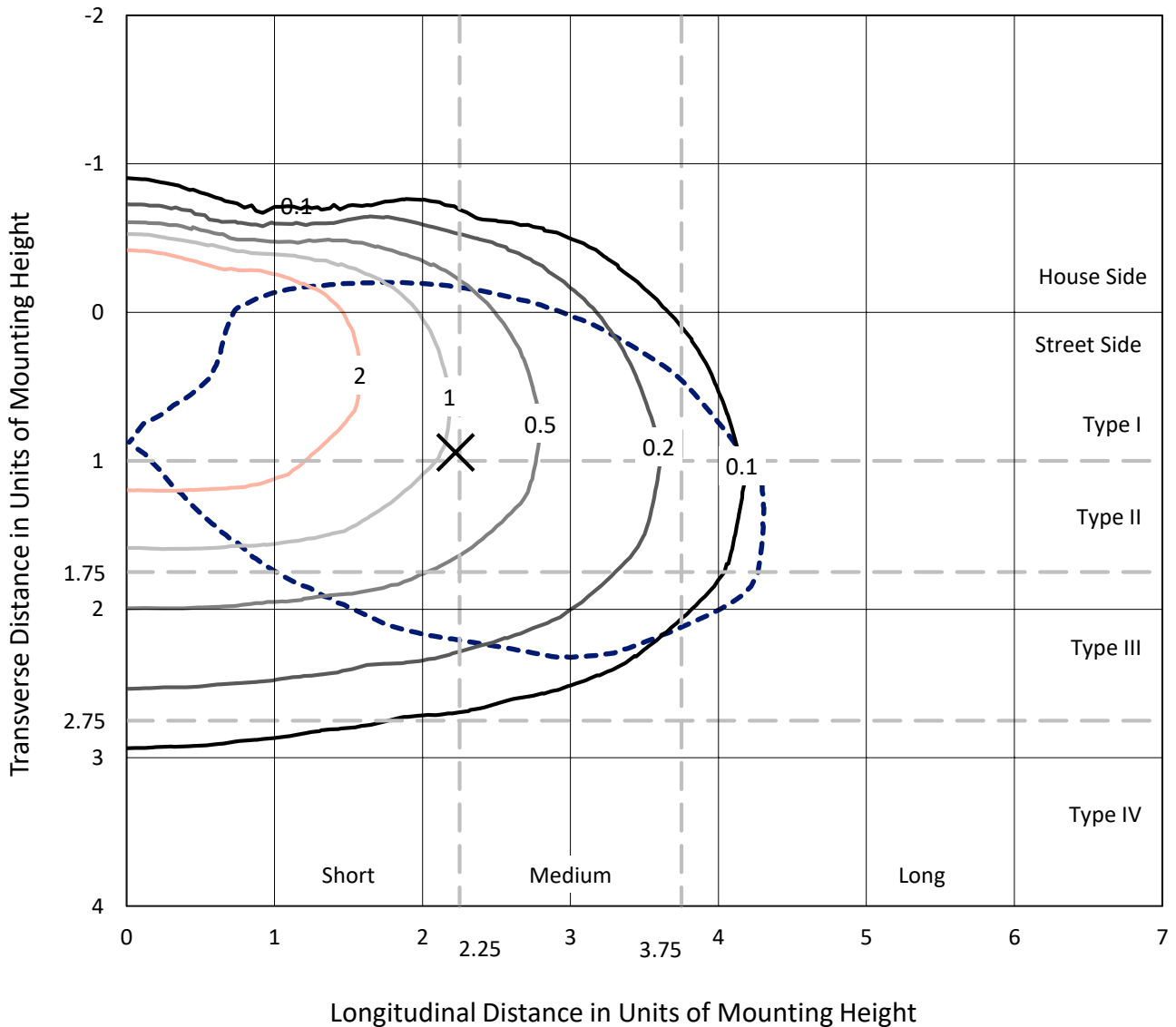
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

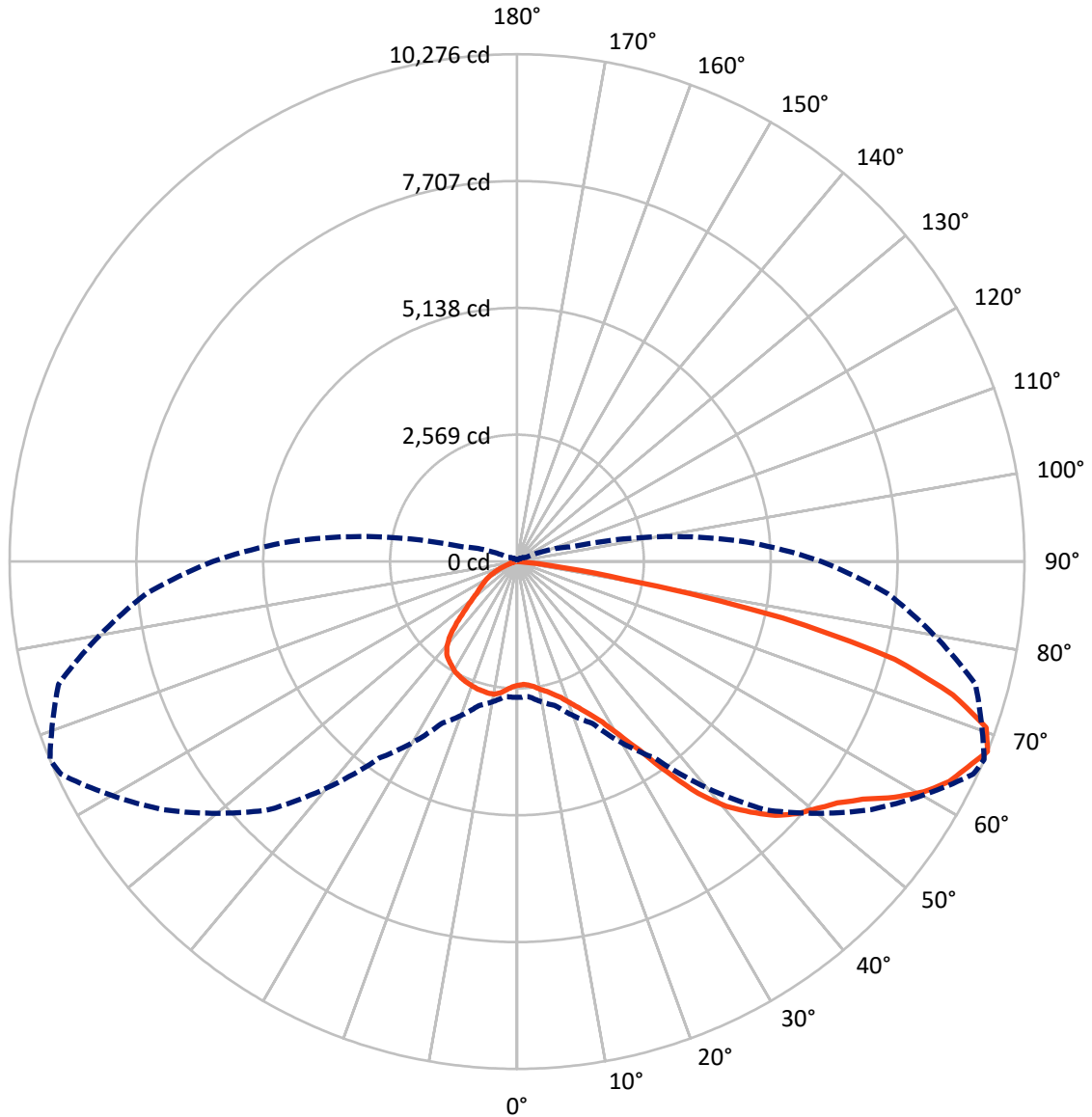
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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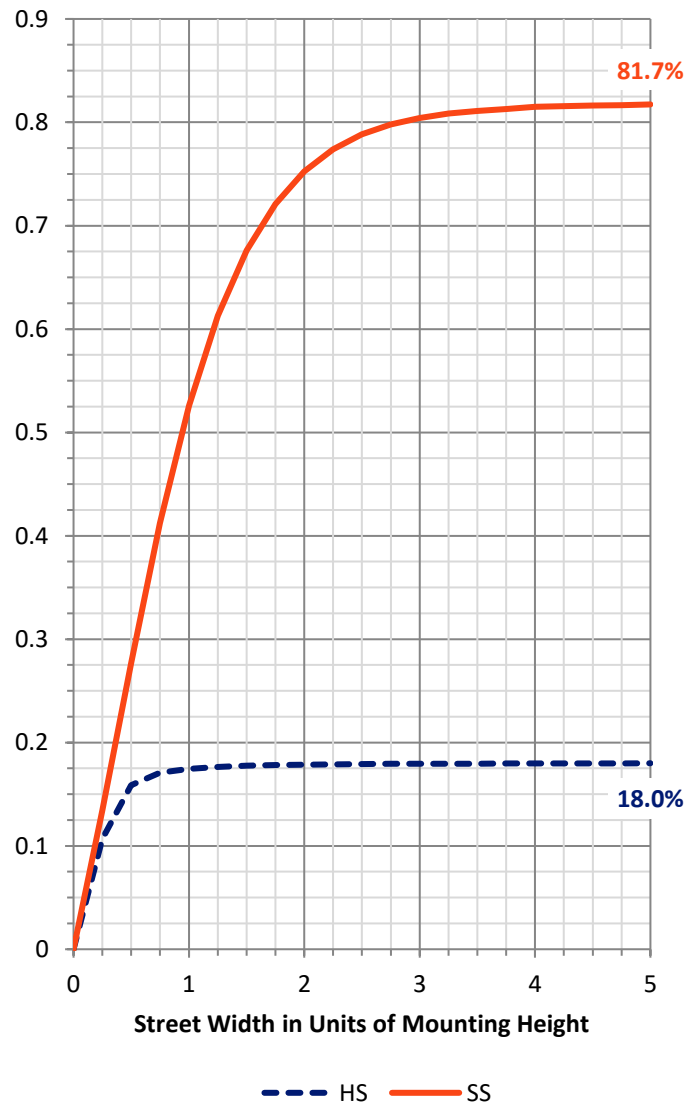
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3057.8	0.0	3057.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13724.2	0.0	13724.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	16782.0	0.0	16782.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.5
10°-20°	786.2	4.7
20°-30°	1341.6	8.0
30°-40°	2088.3	12.4
40°-50°	2947.9	17.6
50°-60°	3550.5	21.2
60°-70°	3669.2	21.9
70°-80°	2021.3	12.0
80°-90°	126.0	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°	16782.0	100.0
0°-180°	16782.0	100.0



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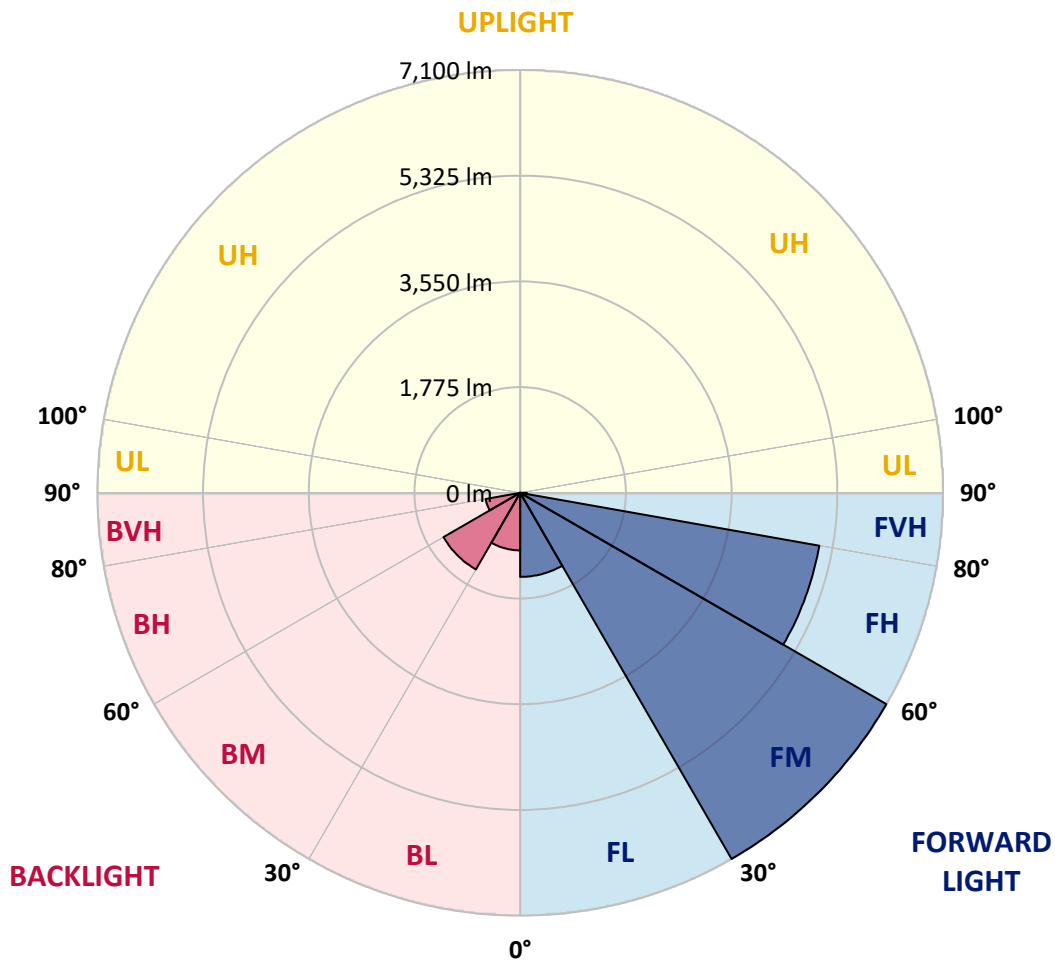
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.1	8.4			
FM (30°-60°)	7100.2	42.3			
FH (60°-80°)	5101.1	30.4			G3/7500
FVH (80°-90°)	110.8	0.7			G2/225
BL (0°-30°)	966.8	5.8	B2/1000		
BM (30°-60°)	1486.4	8.9	B2/2500		
BH (60°-80°)	589.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.2	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°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2482.4	2507.7	2507.7	2499.9	2503.8	2486.3	2474.7	2488.3	2492.1	2503.8	2519.3
5°	2531.0	2560.1	2558.2	2544.6	2532.9	2517.4	2501.9	2513.5	2515.5	2519.3	2538.8
7.5°	2633.9	2661.1	2649.5	2635.9	2630.1	2595.1	2562.1	2560.1	2564.0	2575.7	2597.0
10°	2768.0	2789.3	2785.5	2764.1	2748.5	2696.1	2649.5	2632.0	2633.9	2637.8	2674.7
12.5°	2919.5	2948.6	2927.3	2898.1	2870.9	2795.2	2731.1	2705.8	2701.9	2711.6	2742.7
15°	3069.0	3100.1	3084.6	3067.1	3004.9	2921.4	2839.8	2799.1	2795.2	2795.2	2814.6
17.5°	3265.2	3276.9	3267.2	3241.9	3172.0	3067.1	2970.0	2909.8	2900.1	2905.9	2909.8
20°	3482.8	3504.2	3492.5	3465.3	3364.3	3251.6	3129.3	3057.4	3051.6	3057.4	3020.5
22.5°	3747.0	3754.7	3748.9	3704.2	3612.9	3463.4	3302.1	3220.6	3220.6	3226.4	3150.6
25°	3972.3	4018.9	4005.3	3950.9	3844.1	3713.9	3519.7	3418.7	3424.5	3428.4	3323.5
27.5°	4234.5	4273.4	4263.6	4222.9	4152.9	3987.8	3754.7	3688.7	3682.9	3677.0	3513.9
30°	4485.1	4514.2	4533.6	4523.9	4467.6	4312.2	4104.4	4055.8	4071.3	4059.7	3778.0
32.5°	4689.0	4739.5	4793.9	4805.6	4790.0	4652.1	4500.6	4525.9	4545.3	4683.2	4514.2
35°	4863.9	4918.2	5007.6	5100.8	5118.3	5063.9	4988.2	5172.7	5229.0	5510.7	5332.0
37.5°	5046.5	5093.1	5182.4	5330.0	5427.2	5456.3	5530.1	5821.5	5957.5	6200.3	5868.1
40°	5130.0	5176.6	5332.0	5518.5	5720.5	5883.6	6031.3	6369.2	6520.8	6594.6	6163.4
42.5°	5046.5	5091.1	5341.7	5693.3	5967.2	6328.5	6495.5	6833.5	6934.5	6926.7	6526.6
45°	4964.9	5007.6	5269.8	5738.0	6190.5	6738.3	6880.1	7258.9	7332.7	7239.5	6736.4
47.5°	4860.0	4918.2	5190.2	5710.8	6390.6	7109.3	7239.5	7561.9	7627.9	7490.0	6977.2
50°	4731.8	4782.3	5098.9	5668.0	6522.7	7387.1	7525.0	7845.5	7863.0	7734.8	7194.8
52.5°	4584.2	4611.3	4955.2	5582.6	6637.3	7591.0	7748.4	8084.4	8125.2	8090.2	7453.1
55°	4364.7	4413.2	4782.3	5448.5	6645.1	7697.9	7921.3	8422.4	8496.2	8414.6	7610.5
57.5°	4133.5	4186.0	4568.6	5262.1	6530.5	7765.9	8235.9	8861.4	9007.1	8744.8	7738.7
60°	3879.0	3925.7	4302.5	4986.2	6326.5	7863.0	8560.3	9376.1	9467.4	9026.5	7824.1
62.5°	3583.8	3620.7	3980.1	4652.1	6013.8	7837.7	8840.0	9789.9	9819.0	9279.0	7816.4
65°	3224.4	3222.5	3556.6	4186.0	5501.0	7635.7	8890.5	9997.7	10032.7	9442.2	7746.4
67.5°	2750.5	2744.7	3024.4	3616.8	4854.1	7109.3	8756.5	10192.0	10275.5	9613.1	7542.5
70°	2156.1	2163.9	2375.6	2903.9	3939.3	6307.1	8403.0	10061.8	10079.3	9284.8	7014.1
72.5°	1524.8	1520.9	1664.7	2022.1	2911.7	4924.1	7385.1	9174.1	9228.5	8472.9	6110.9
75°	699.3	728.4	1087.8	1235.4	1757.9	3352.6	6075.9	7795.0	7899.9	7293.8	4764.8
77.5°	130.1	134.0	233.1	470.1	687.6	1210.1	3630.4	5279.5	5499.0	4970.7	2684.4
80°	102.9	104.9	137.9	225.3	287.5	543.9	1194.6	2175.5	2224.1	1938.6	967.3
82.5°	75.8	77.7	102.9	145.7	134.0	235.0	497.3	633.2	672.1	625.5	384.6
85°	44.7	46.6	60.2	71.9	69.9	93.2	83.5	75.8	68.0	56.3	48.6
87.5°	11.7	15.5	25.3	25.3	19.4	17.5	15.5	13.6	15.5	13.6	13.6
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°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2523.2	2521.3	2527.1	2542.6	2556.2	2558.2	2577.6	2602.9	2591.2	2624.2	2612.6
5°	2550.4	2556.2	2577.6	2602.9	2626.2	2645.6	2674.7	2717.5	2703.9	2735.0	2723.3
7.5°	2612.6	2622.3	2655.3	2680.6	2707.8	2701.9	2727.2	2752.4	2721.4	2754.4	2738.8
10°	2686.4	2698.0	2717.5	2727.2	2719.4	2715.5	2709.7	2705.8	2665.0	2688.3	2678.6
12.5°	2752.4	2754.4	2748.5	2723.3	2705.8	2659.2	2637.8	2628.1	2566.0	2583.4	2571.8
15°	2816.5	2789.3	2760.2	2701.9	2653.4	2581.5	2534.9	2494.1	2435.8	2459.1	2435.8
17.5°	2886.5	2845.7	2769.9	2684.4	2585.4	2480.5	2404.7	2338.7	2251.3	2247.4	2239.6
20°	2975.8	2915.6	2793.2	2653.4	2511.6	2354.2	2233.8	2123.1	1991.0	1973.5	1938.6
22.5°	3088.5	2999.1	2828.2	2612.6	2420.3	2222.1	2018.2	1835.6	1668.6	1616.1	1596.7
25°	3218.6	3107.9	2847.6	2575.7	2332.9	2029.8	1752.1	1515.1	1318.9	1262.6	1247.0
27.5°	3381.8	3245.8	2876.7	2521.3	2193.0	1794.8	1433.5	1171.3	996.5	905.2	891.6
30°	3607.1	3399.3	2917.5	2466.9	2024.0	1519.0	1111.1	806.1	641.0	586.6	576.9
32.5°	4220.9	3764.4	2962.2	2369.8	1800.6	1212.1	738.1	514.7	404.0	359.4	355.5
35°	4999.8	4432.6	3125.4	2259.1	1530.6	841.1	458.4	306.9	246.7	229.2	229.2
37.5°	5502.9	4951.3	3397.3	2103.7	1175.2	514.7	275.8	200.1	188.4	186.5	186.5
40°	5767.1	5180.5	3593.5	1890.0	786.7	299.1	194.2	172.9	169.0	165.1	165.1
42.5°	6103.1	5376.7	3762.5	1600.6	456.5	209.8	170.9	157.3	151.5	147.6	147.6
45°	6289.6	5590.3	3655.7	1256.8	260.3	188.4	157.3	141.8	136.0	136.0	136.0
47.5°	6472.2	5794.3	3519.7	903.2	221.4	172.9	147.6	132.1	126.3	130.1	130.1
50°	6680.0	5932.2	3304.1	676.0	209.8	161.2	134.0	120.4	116.5	122.4	122.4
52.5°	6874.3	5945.8	2958.3	540.0	194.2	149.6	124.3	110.7	106.8	110.7	110.7
55°	6930.6	5903.1	2859.3	429.3	184.5	137.9	116.5	102.9	93.2	93.2	91.3
57.5°	6917.0	5819.5	2618.4	363.2	172.9	126.3	106.8	91.3	79.6	75.8	75.8
60°	6870.4	5703.0	2363.9	316.6	161.2	116.5	95.2	77.7	66.0	62.2	62.2
62.5°	6812.1	5483.5	2004.6	275.8	149.6	112.7	79.6	64.1	56.3	52.4	52.4
65°	6567.4	5141.6	1604.5	235.0	137.9	99.1	69.9	56.3	48.6	44.7	44.7
67.5°	6161.4	4621.1	1159.6	200.1	128.2	83.5	62.2	48.6	40.8	38.8	36.9
70°	5555.4	3902.4	718.7	172.9	110.7	75.8	54.4	42.7	36.9	31.1	31.1
72.5°	4630.8	3055.5	376.8	136.0	87.4	64.1	48.6	38.8	31.1	27.2	25.3
75°	3255.5	1884.2	271.9	104.9	60.2	52.4	40.8	33.0	27.2	23.3	21.4
77.5°	1571.4	648.8	190.4	77.7	42.7	38.8	31.1	27.2	21.4	19.4	19.4
80°	575.0	369.1	136.0	56.3	35.0	31.1	23.3	21.4	17.5	15.5	15.5
82.5°	258.3	174.8	77.7	36.9	25.3	23.3	17.5	13.6	13.6	13.6	13.6
85°	42.7	36.9	25.3	17.5	13.6	11.7	11.7	9.7	9.7	9.7	9.7
87.5°	11.7	11.7	9.7	9.7	7.8	5.8	3.9	3.9	3.9	5.8	5.8
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)