

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: P509182

Luminaire Tested: **VERD-CA2-120-750-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509182
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-CA2-120-750-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16357 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

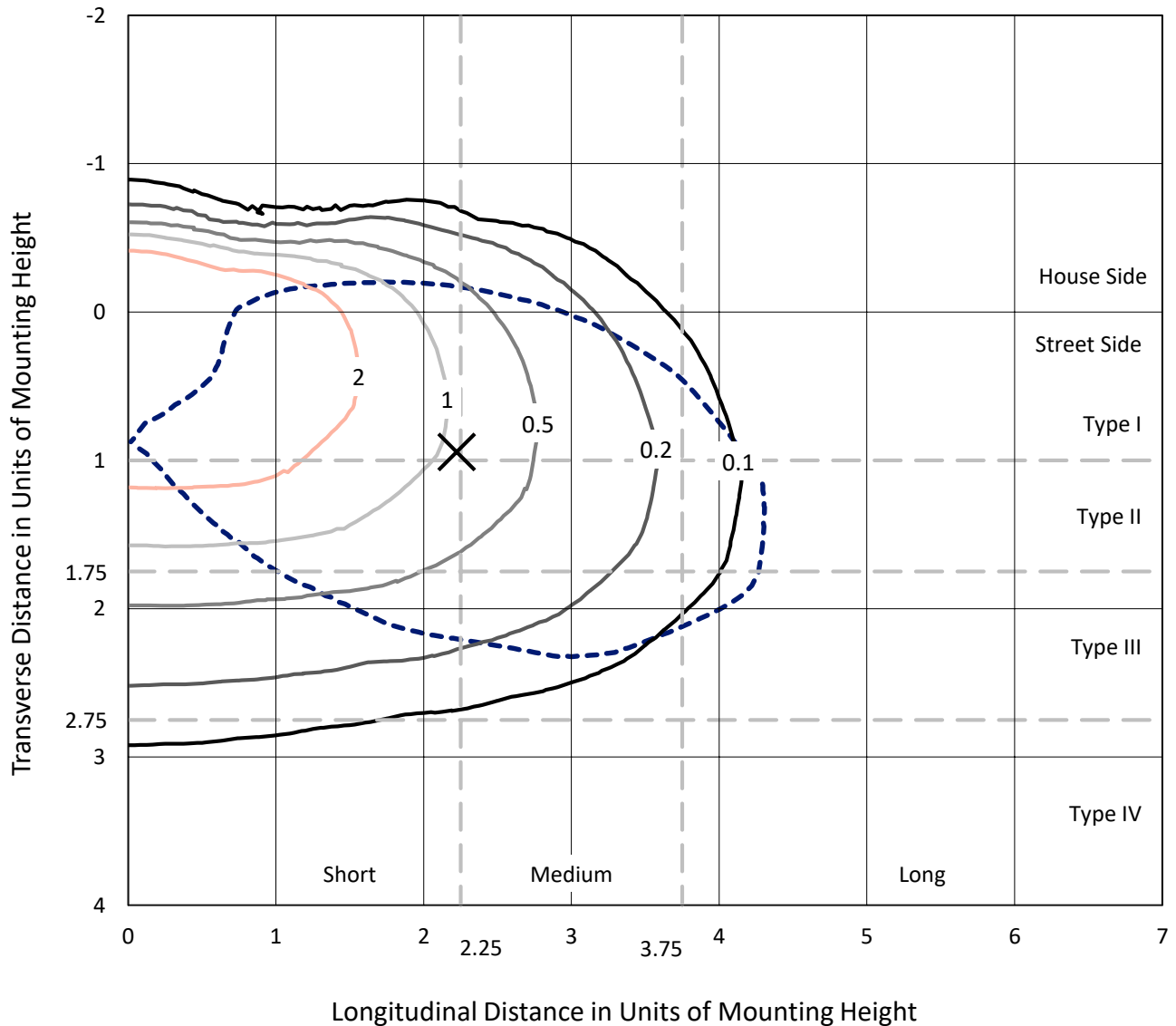
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

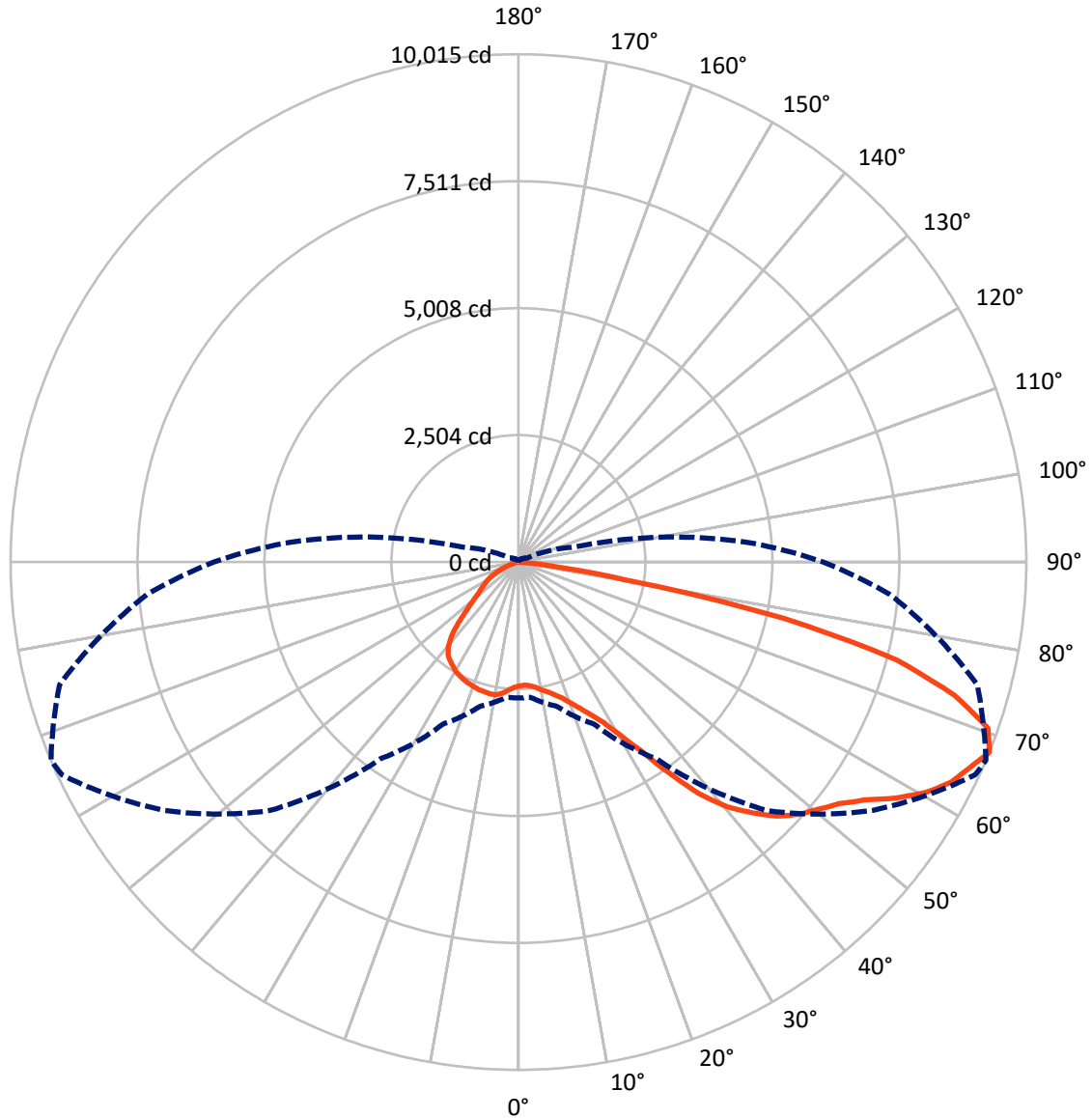
✕ Max cd
 - - - 1/2 Max cd



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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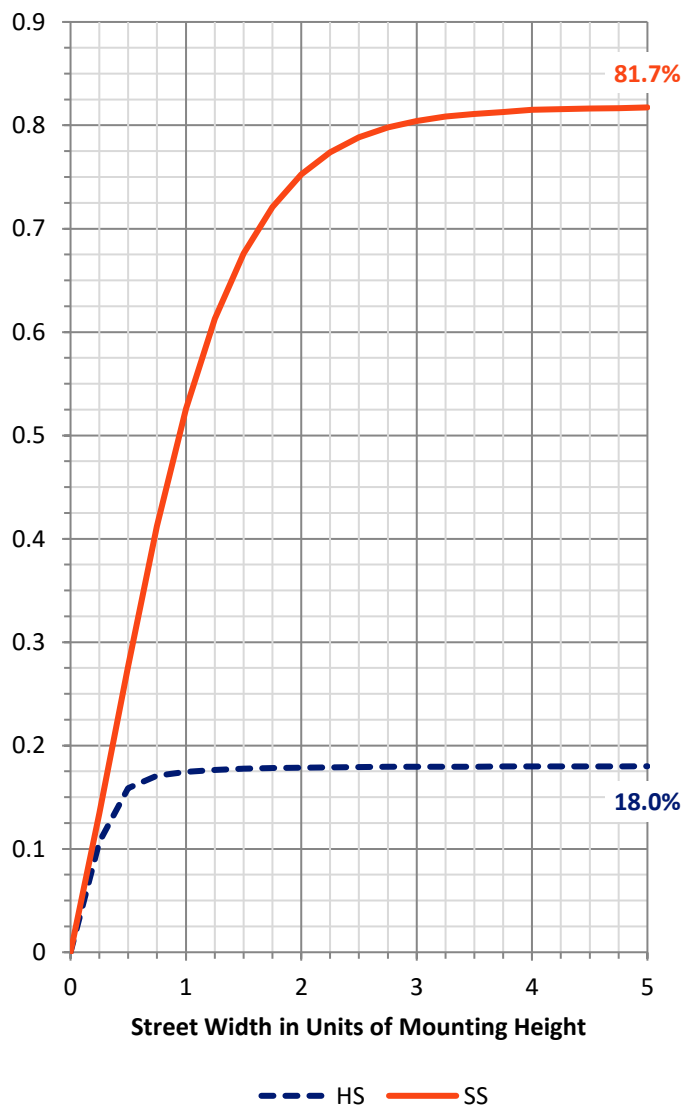
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2980.4	0.0	2980.4
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13376.7	0.0	13376.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	16357.0	0.0	16357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.5
10°-20°	766.3	4.7
20°-30°	1307.7	8.0
30°-40°	2035.4	12.4
40°-50°	2873.3	17.6
50°-60°	3460.6	21.2
60°-70°	3576.3	21.9
70°-80°	1970.1	12.0
80°-90°	122.8	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°	16357.0	100.0
0°-180°	16357.0	100.0

Coefficient of Utilization



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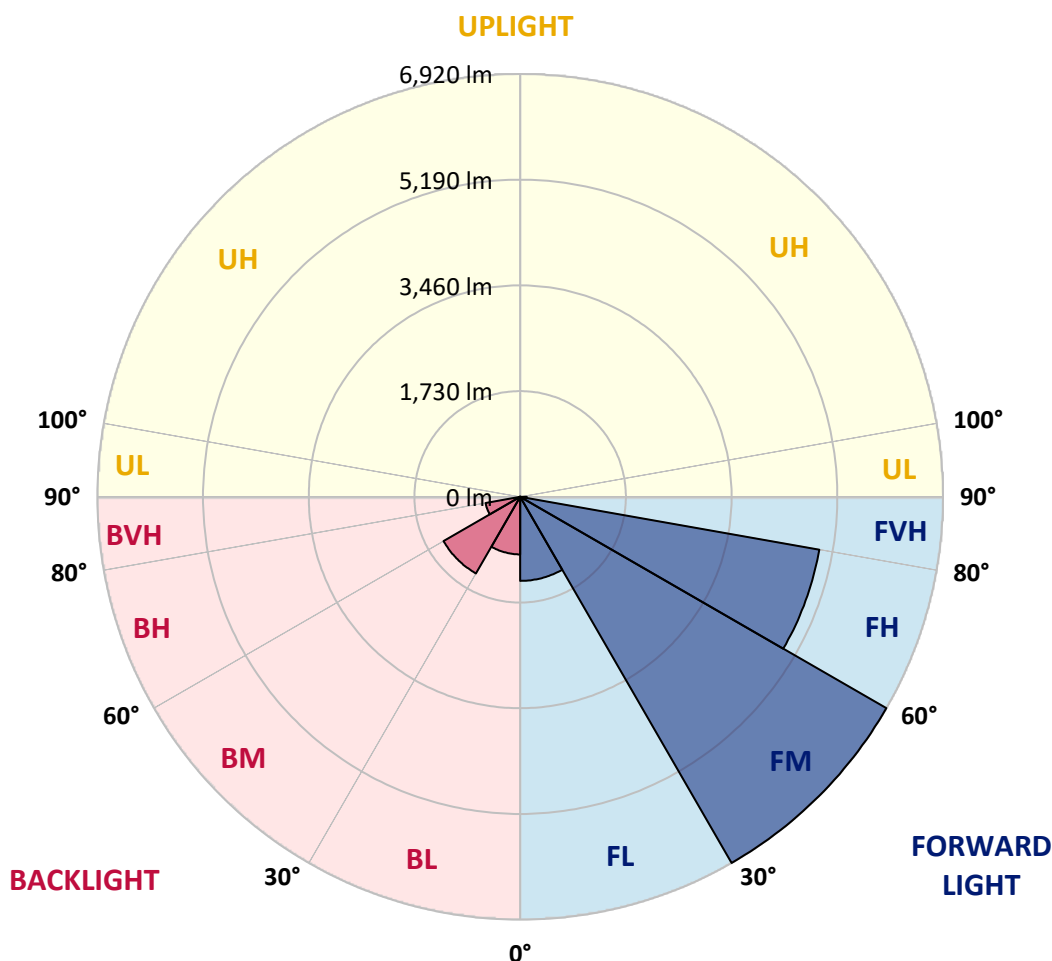
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.3	8.4			
FM (30°-60°)	6920.4	42.3			
FH (60°-80°)	4971.9	30.4			G2/5000
FVH (80°-90°)	108.0	0.7			G2/225
BL (0°-30°)	942.3	5.8	B2/1000		
BM (30°-60°)	1448.8	8.9	B2/2500		
BH (60°-80°)	574.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3
2.5°	2419.6	2444.2	2444.2	2436.6	2440.4	2423.4	2412.0	2425.2	2429.0	2440.4	2455.5
5°	2466.9	2495.3	2493.4	2480.2	2468.8	2453.6	2438.5	2449.9	2451.8	2455.5	2474.5
7.5°	2567.2	2593.7	2582.4	2569.1	2563.5	2529.4	2497.2	2495.3	2499.1	2510.4	2531.3
10°	2697.9	2718.7	2714.9	2694.1	2678.9	2627.8	2582.4	2565.3	2567.2	2571.0	2607.0
12.5°	2845.5	2873.9	2853.1	2824.7	2798.2	2724.4	2661.9	2637.3	2633.5	2643.0	2673.3
15°	2991.3	3021.6	3006.5	2989.4	2928.8	2847.4	2767.9	2728.2	2724.4	2724.4	2743.3
17.5°	3182.5	3193.9	3184.4	3159.8	3091.7	2989.4	2894.8	2836.1	2826.6	2832.3	2836.1
20°	3394.6	3415.4	3404.1	3377.5	3279.1	3169.3	3050.0	2980.0	2974.3	2980.0	2944.0
22.5°	3652.1	3659.6	3654.0	3610.4	3521.4	3375.7	3218.5	3139.0	3139.0	3144.7	3070.8
25°	3871.7	3917.1	3903.9	3850.9	3746.7	3619.9	3430.6	3332.1	3337.8	3341.6	3239.3
27.5°	4127.3	4165.1	4155.7	4115.9	4047.8	3886.8	3659.6	3595.3	3589.6	3583.9	3424.9
30°	4371.5	4399.9	4418.8	4409.4	4354.5	4203.0	4000.4	3953.1	3968.2	3956.9	3682.4
32.5°	4570.3	4619.5	4672.5	4683.9	4668.7	4534.3	4386.6	4411.3	4430.2	4564.6	4399.9
35°	4740.7	4793.7	4880.8	4971.7	4988.7	4935.7	4861.9	5041.7	5096.6	5371.1	5197.0
37.5°	4918.7	4964.1	5051.2	5195.1	5289.7	5318.1	5390.1	5674.1	5806.6	6043.2	5719.5
40°	5000.1	5045.5	5197.0	5378.7	5575.6	5734.6	5878.5	6208.0	6355.6	6427.6	6007.3
42.5°	4918.7	4962.2	5206.4	5549.1	5816.0	6168.2	6331.0	6660.4	6758.9	6751.3	6361.3
45°	4839.1	4880.8	5136.4	5592.6	6033.8	6567.7	6705.9	7075.1	7147.0	7056.1	6565.8
47.5°	4736.9	4793.7	5058.8	5566.1	6228.8	6929.3	7056.1	7370.4	7434.8	7300.4	6800.5
50°	4611.9	4661.2	4969.8	5524.5	6357.5	7200.0	7334.4	7646.8	7663.9	7538.9	7012.6
52.5°	4468.1	4494.6	4829.7	5441.2	6469.2	7398.8	7552.2	7879.7	7919.4	7885.4	7264.4
55°	4254.1	4301.5	4661.2	5310.6	6476.8	7502.9	7720.7	8209.1	8281.1	8201.5	7417.7
57.5°	4028.8	4079.9	4452.9	5128.8	6365.1	7569.2	8027.4	8637.0	8779.0	8523.4	7542.7
60°	3780.8	3826.2	4193.5	4860.0	6166.3	7663.9	8343.5	9138.7	9227.7	8797.9	7626.0
62.5°	3493.0	3529.0	3879.3	4534.3	5861.5	7639.2	8616.2	9542.0	9570.4	9044.0	7618.4
65°	3142.8	3140.9	3466.5	4079.9	5361.7	7442.3	8665.4	9744.5	9778.6	9203.1	7550.3
67.5°	2680.8	2675.2	2947.8	3525.2	4731.2	6929.3	8534.7	9933.9	10015.3	9369.7	7351.5
70°	2101.5	2109.1	2315.4	2830.4	3839.5	6147.4	8190.2	9807.0	9824.0	9049.7	6836.5
72.5°	1486.2	1482.4	1622.5	1970.9	2838.0	4799.4	7198.1	8941.8	8994.8	8258.3	5956.1
75°	681.6	710.0	1060.2	1204.1	1713.4	3267.7	5922.1	7597.6	7699.8	7109.1	4644.1
77.5°	126.8	130.6	227.2	458.2	670.2	1179.5	3538.5	5145.8	5359.8	4844.8	2616.5
80°	100.3	102.2	134.4	219.6	280.2	530.1	1164.3	2120.4	2167.8	1889.5	942.8
82.5°	73.8	75.7	100.3	142.0	130.6	229.1	484.7	617.2	655.1	609.6	374.9
85°	43.5	45.4	58.7	70.1	68.2	90.9	81.4	73.8	66.3	54.9	47.3
87.5°	11.4	15.1	24.6	24.6	18.9	17.0	15.1	13.3	15.1	13.3	13.3
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°	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3	2442.3
2.5°	2459.3	2457.4	2463.1	2478.3	2491.5	2493.4	2512.3	2536.9	2525.6	2557.8	2546.4
5°	2485.8	2491.5	2512.3	2536.9	2559.7	2578.6	2607.0	2648.6	2635.4	2665.7	2654.3
7.5°	2546.4	2555.9	2588.1	2612.7	2639.2	2633.5	2658.1	2682.7	2652.4	2684.6	2669.5
10°	2618.4	2629.7	2648.6	2658.1	2650.5	2646.8	2641.1	2637.3	2597.5	2620.3	2610.8
12.5°	2682.7	2684.6	2678.9	2654.3	2637.3	2591.9	2571.0	2561.6	2501.0	2518.0	2506.7
15°	2745.2	2718.7	2690.3	2633.5	2586.2	2516.1	2470.7	2430.9	2374.1	2396.8	2374.1
17.5°	2813.4	2773.6	2699.8	2616.5	2519.9	2417.7	2343.8	2279.5	2194.3	2190.5	2182.9
20°	2900.5	2841.8	2722.5	2586.2	2448.0	2294.6	2177.2	2069.3	1940.6	1923.5	1889.5
22.5°	3010.3	2923.2	2756.6	2546.4	2359.0	2165.9	1967.1	1789.1	1626.3	1575.2	1556.2
25°	3137.1	3029.2	2775.5	2510.4	2273.8	1978.4	1707.7	1476.7	1285.5	1230.6	1215.5
27.5°	3296.1	3163.6	2803.9	2457.4	2137.5	1749.4	1397.2	1141.6	971.2	882.3	869.0
30°	3515.8	3313.2	2843.7	2404.4	1972.8	1480.5	1082.9	785.7	624.8	571.8	562.3
32.5°	4114.0	3669.1	2887.2	2309.8	1755.0	1181.4	719.4	501.7	393.8	350.3	346.5
35°	4873.2	4320.4	3046.2	2201.8	1491.9	819.8	446.8	299.1	240.4	223.4	223.4
37.5°	5363.6	4825.9	3311.3	2050.4	1145.4	501.7	268.8	195.0	183.6	181.8	181.8
40°	5621.0	5049.3	3502.5	1842.1	766.8	291.6	189.3	168.5	164.7	160.9	160.9
42.5°	5948.6	5240.5	3667.2	1560.0	444.9	204.5	166.6	153.4	147.7	143.9	143.9
45°	6130.3	5448.8	3563.1	1224.9	253.7	183.6	153.4	138.2	132.5	132.5	132.5
47.5°	6308.3	5647.5	3430.6	880.4	215.8	168.5	143.9	128.7	123.1	126.8	126.8
50°	6510.9	5782.0	3220.4	658.8	204.5	157.1	130.6	117.4	113.6	119.3	119.3
52.5°	6700.2	5795.2	2883.4	526.3	189.3	145.8	121.2	107.9	104.1	107.9	107.9
55°	6755.1	5753.6	2786.9	418.4	179.9	134.4	113.6	100.3	90.9	90.9	89.0
57.5°	6741.8	5672.2	2552.1	354.0	168.5	123.1	104.1	89.0	77.6	73.8	73.8
60°	6696.4	5558.6	2304.1	308.6	157.1	113.6	92.8	75.7	64.4	60.6	60.6
62.5°	6639.6	5344.6	1953.8	268.8	145.8	109.8	77.6	62.5	54.9	51.1	51.1
65°	6401.1	5011.4	1563.8	229.1	134.4	96.6	68.2	54.9	47.3	43.5	43.5
67.5°	6005.4	4504.0	1130.3	195.0	125.0	81.4	60.6	47.3	39.8	37.9	36.0
70°	5414.7	3803.5	700.5	168.5	107.9	73.8	53.0	41.7	36.0	30.3	30.3
72.5°	4513.5	2978.1	367.3	132.5	85.2	62.5	47.3	37.9	30.3	26.5	24.6
75°	3173.1	1836.4	265.1	102.2	58.7	51.1	39.8	32.2	26.5	22.7	20.8
77.5°	1531.6	632.3	185.5	75.7	41.7	37.9	30.3	26.5	20.8	18.9	18.9
80°	560.4	359.7	132.5	54.9	34.1	30.3	22.7	20.8	17.0	15.1	15.1
82.5°	251.8	170.4	75.7	36.0	24.6	22.7	17.0	13.3	13.3	13.3	13.3
85°	41.7	36.0	24.6	17.0	13.3	11.4	11.4	9.5	9.5	9.5	9.5
87.5°	11.4	11.4	9.5	9.5	7.6	5.7	3.8	3.8	3.8	5.7	5.7
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)