

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: P553554

Luminaire Tested: **VERD-G-CA2-150-727-U-T3-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-727-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16943 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

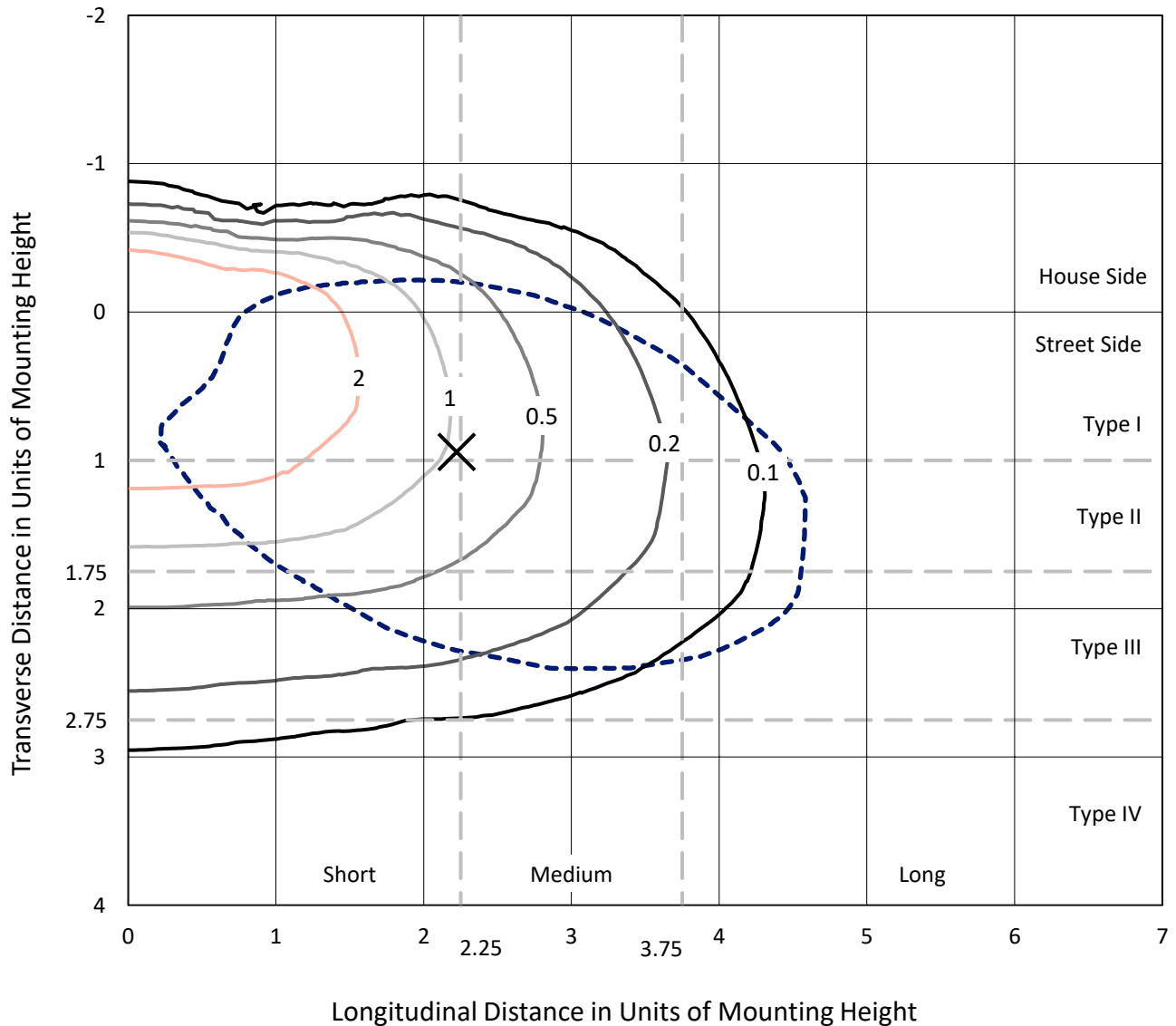
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

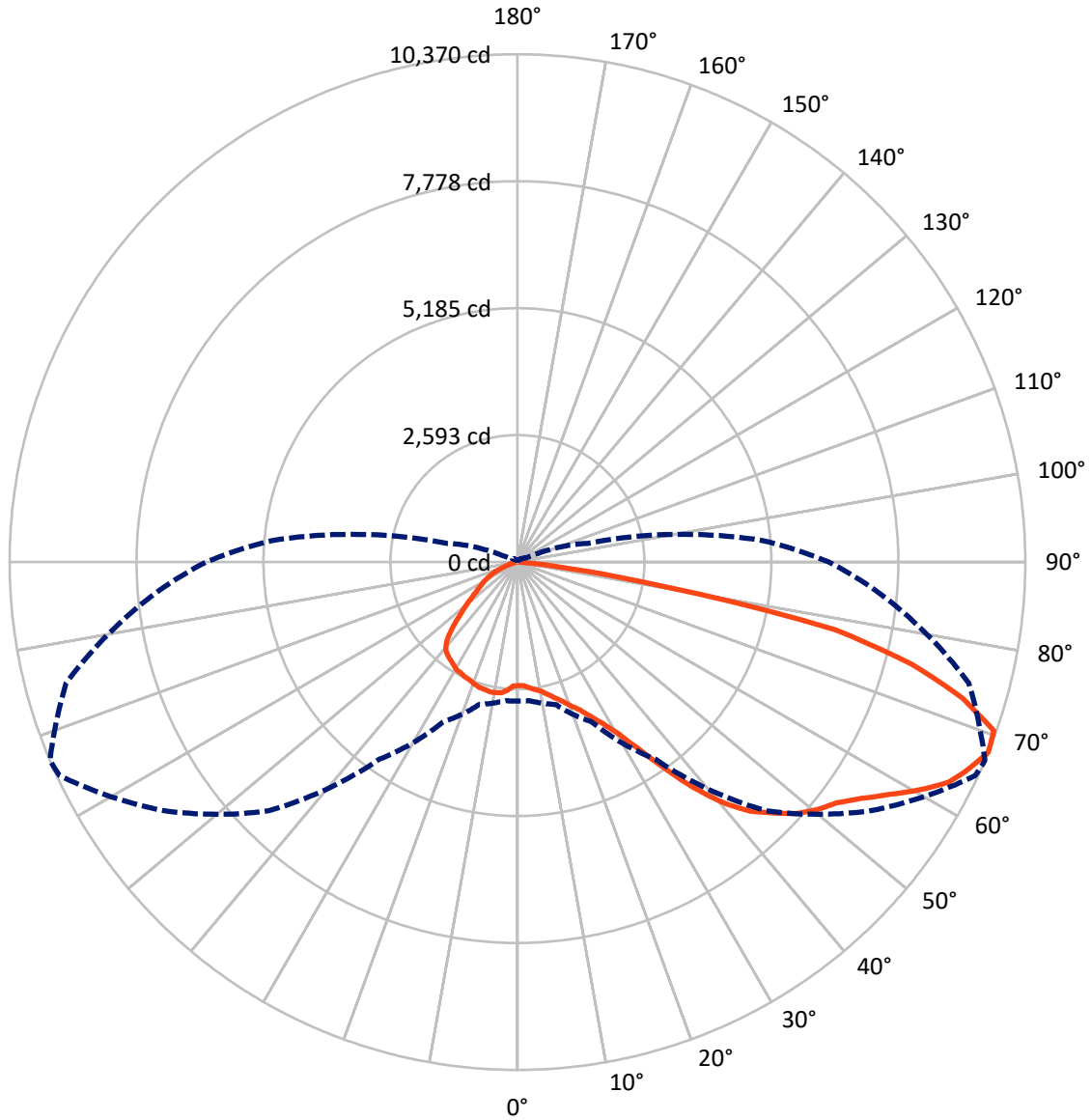
× Max cd
 - - - 1/2 Max cd



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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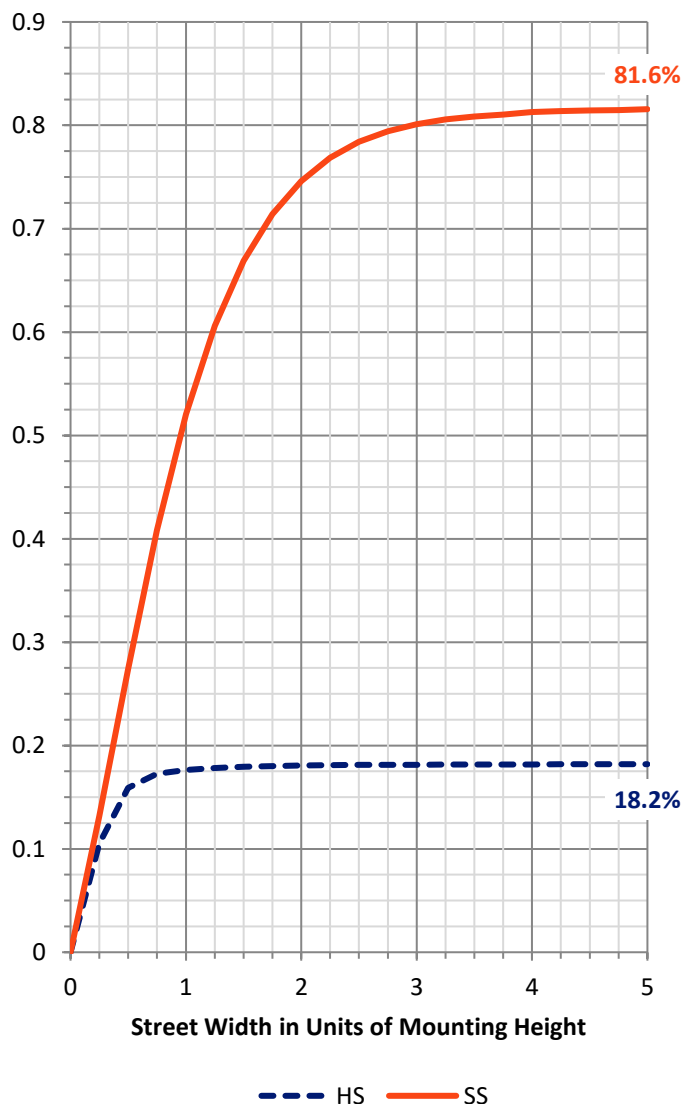
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3118.5	0.0	3118.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13824.4	0.0	13824.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	16943.0	0.0	16943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	1.5
10°-20°	793.1	4.7
20°-30°	1352.1	8.0
30°-40°	2062.3	12.2
40°-50°	2907.2	17.2
50°-60°	3514.0	20.7
60°-70°	3700.9	21.8
70°-80°	2201.5	13.0
80°-90°	158.3	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°	16943.0	100.0
0°-180°	16943.0	100.0

Coefficient of Utilization



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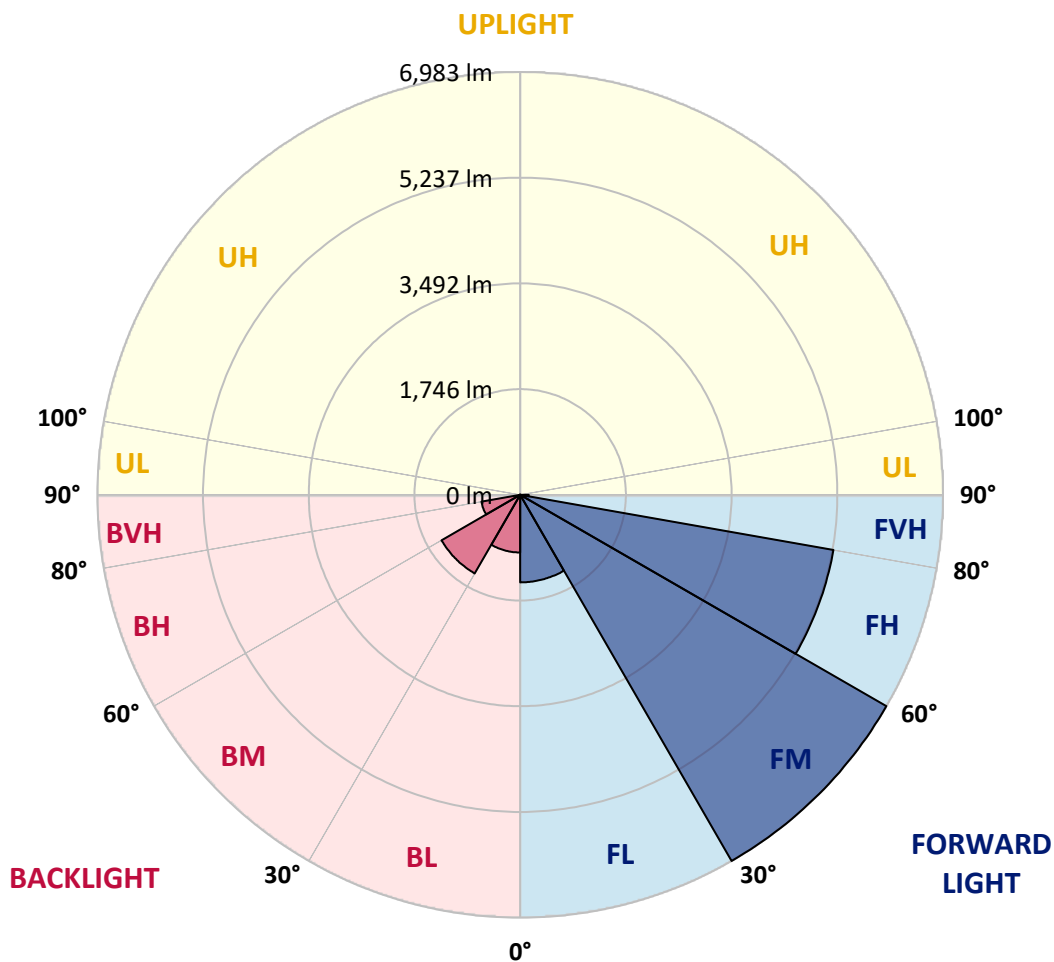
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1446.5	8.5			
FM	(30°-60°)	6983.1	41.2			
FH	(60°-80°)	5253.2	31.0			G3/7500
FVH	(80°-90°)	141.6	0.8			G2/225
BL	(0°-30°)	952.4	5.6	B2/1000		
BM	(30°-60°)	1500.3	8.9	B2/2500		
BH	(60°-80°)	649.2	3.8	B2/1000		G2/1000
BVH	(80°-90°)	16.6	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°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	2575.6	2585.3	2565.9	2561.1	2535.6	2539.2	2534.4	2522.3	2527.1	2517.4	2523.5
5°	2675.0	2649.5	2642.3	2627.7	2604.7	2591.4	2572.0	2565.9	2579.2	2568.3	2570.8
7.5°	2780.4	2785.3	2752.6	2724.7	2683.5	2673.8	2639.8	2619.2	2632.6	2618.0	2626.5
10°	2912.6	2919.8	2884.7	2847.1	2812.0	2761.1	2718.6	2685.9	2682.3	2675.0	2687.1
12.5°	3085.9	3084.7	3045.9	2999.8	2930.7	2895.6	2814.4	2768.3	2774.4	2747.7	2745.3
15°	3287.1	3270.1	3225.3	3178.0	3091.9	3022.9	2924.7	2867.7	2877.4	2847.1	2839.8
17.5°	3483.4	3466.5	3431.3	3379.2	3300.4	3193.8	3073.8	2991.3	2988.9	2974.4	2930.7
20°	3684.6	3691.9	3644.6	3597.4	3518.6	3375.6	3239.8	3133.2	3135.6	3110.1	3025.3
22.5°	3919.8	3906.4	3849.5	3827.7	3738.0	3581.6	3430.1	3307.7	3283.4	3278.6	3131.9
25°	4144.0	4135.5	4083.4	4057.9	3982.8	3839.8	3643.4	3496.8	3493.1	3477.4	3270.1
27.5°	4322.2	4331.9	4327.0	4308.8	4226.4	4085.8	3913.7	3738.0	3740.4	3717.4	3449.5
30°	4575.5	4546.4	4535.5	4550.0	4542.8	4391.3	4208.2	4081.0	4072.5	4013.1	3676.1
32.5°	4723.4	4737.9	4752.5	4803.4	4804.6	4691.8	4573.1	4512.5	4546.4	4556.1	4239.8
35°	4859.1	4859.1	4942.7	5071.2	5116.1	5077.3	5026.4	5102.7	5169.4	5303.9	4933.0
37.5°	4980.3	5015.5	5094.2	5255.5	5402.1	5439.7	5551.2	5760.9	5842.1	5964.5	5517.3
40°	5082.1	5107.6	5208.2	5405.7	5657.9	5830.0	6038.4	6371.8	6456.6	6433.6	5842.1
42.5°	4969.4	5010.6	5171.8	5577.9	5895.4	6219.0	6491.7	6851.7	6954.7	6741.4	6183.9
45°	4908.8	4924.6	5093.0	5553.6	6070.0	6612.9	6922.0	7307.5	7307.5	7068.7	6425.1
47.5°	4787.6	4815.5	5015.5	5522.1	6255.4	6941.4	7254.1	7646.8	7672.3	7377.8	6665.1
50°	4665.2	4700.3	4927.0	5466.3	6359.6	7271.1	7536.5	7930.4	7940.1	7589.9	6877.2
52.5°	4544.0	4562.2	4815.5	5430.0	6474.8	7440.8	7780.2	8160.7	8165.6	7907.4	7111.1
55°	4327.0	4371.9	4633.7	5296.7	6468.7	7518.4	7907.4	8468.6	8515.9	8252.9	7341.4
57.5°	4123.4	4136.7	4422.8	5103.9	6370.5	7608.0	8181.3	8909.8	8955.8	8566.8	7512.3
60°	3851.9	3866.4	4174.3	4874.9	6225.1	7697.7	8529.2	9424.9	9445.5	8896.5	7640.8
62.5°	3568.3	3618.0	3871.3	4523.4	5923.3	7713.5	8823.7	9900.0	9891.5	9182.5	7725.6
65°	3235.0	3253.1	3496.8	4112.5	5461.5	7593.5	8944.9	10130.3	10150.9	9383.7	7669.9
67.5°	2835.0	2842.3	3009.5	3601.0	4914.9	7180.2	8844.3	10318.2	10370.3	9541.3	7437.1
70°	2239.9	2250.8	2404.7	2967.1	4139.2	6547.5	8674.6	10340.0	10318.2	9399.5	7083.2
72.5°	1561.1	1545.4	1695.7	2081.1	3134.4	5385.1	7855.3	9460.1	9498.8	8696.5	6342.7
75°	747.8	752.7	1050.8	1279.9	1759.9	3847.0	6537.8	8146.2	8308.6	7579.0	5167.0
77.5°	127.3	129.7	277.6	504.2	709.0	1614.5	4335.5	6488.1	6626.3	5948.7	3498.0
80°	101.8	101.8	135.7	271.5	375.7	669.1	1642.3	2876.2	3026.5	2694.4	1289.6
82.5°	69.1	72.7	97.0	158.8	133.3	261.8	596.3	910.3	934.5	847.2	529.7
85°	38.8	40.0	49.7	64.2	55.8	97.0	122.4	124.8	132.1	103.0	78.8
87.5°	4.8	10.9	10.9	10.9	4.8	4.8	3.6	3.6	4.8	3.6	3.6
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°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	2519.9	2505.3	2536.8	2530.8	2552.6	2548.9	2567.1	2576.8	2597.4	2624.1	2621.7
5°	2573.2	2572.0	2609.5	2627.7	2647.1	2665.3	2666.5	2684.7	2702.9	2742.9	2741.7
7.5°	2624.1	2635.0	2688.3	2689.5	2696.8	2710.1	2692.0	2698.0	2702.9	2717.4	2722.3
10°	2683.5	2704.1	2705.3	2700.4	2677.4	2676.2	2635.0	2639.8	2618.0	2635.0	2626.5
12.5°	2759.8	2742.9	2733.2	2700.4	2665.3	2618.0	2579.2	2525.9	2513.8	2513.8	2517.4
15°	2835.0	2809.5	2725.9	2673.8	2609.5	2534.4	2471.4	2410.8	2380.5	2367.1	2364.7
17.5°	2900.4	2847.1	2728.3	2660.5	2539.2	2428.9	2334.4	2237.4	2190.2	2159.9	2155.0
20°	2953.8	2896.8	2735.6	2616.8	2462.9	2300.5	2157.5	2035.0	1941.7	1872.6	1879.9
22.5°	3043.5	2952.6	2730.8	2564.7	2374.4	2163.5	1947.8	1779.3	1622.9	1584.2	1595.1
25°	3151.3	3032.6	2758.6	2533.2	2271.4	1991.4	1707.8	1512.6	1345.4	1292.0	1295.7
27.5°	3276.2	3129.5	2790.1	2481.1	2164.7	1779.3	1437.5	1196.3	1063.0	957.5	949.0
30°	3474.9	3261.6	2824.1	2447.1	2015.6	1542.9	1143.0	892.1	724.8	667.8	667.8
32.5°	3941.6	3529.5	2878.6	2365.9	1819.3	1278.7	833.9	584.2	436.3	385.4	386.6
35°	4534.3	4070.1	3002.2	2266.5	1587.8	969.6	515.1	324.8	255.7	230.3	227.9
37.5°	5100.3	4567.0	3266.5	2150.2	1295.7	614.5	289.7	200.0	174.5	173.3	174.5
40°	5449.4	4959.7	3531.9	1995.0	946.6	338.2	187.9	163.6	160.0	156.4	156.4
42.5°	5771.8	5230.0	3733.1	1757.5	564.8	204.8	164.8	149.1	146.7	140.6	140.6
45°	6033.6	5423.9	3748.9	1441.1	299.4	181.8	151.5	135.7	130.9	127.3	126.1
47.5°	6282.1	5613.0	3691.9	1104.2	213.3	168.5	141.8	124.8	118.8	121.2	120.0
50°	6449.3	5802.1	3536.8	867.8	203.6	156.4	130.9	113.9	111.5	116.4	115.1
52.5°	6629.9	5957.2	3235.0	675.1	189.1	144.2	120.0	106.7	101.8	105.4	106.7
55°	6772.9	5954.8	3013.2	527.2	179.4	134.5	112.7	100.6	92.1	92.1	90.9
57.5°	6843.2	5897.8	2835.0	414.5	168.5	124.8	105.4	88.5	78.8	76.4	75.1
60°	6839.6	5842.1	2627.7	340.6	157.6	113.9	94.5	75.1	65.5	60.6	60.6
62.5°	6800.8	5711.2	2299.3	293.3	146.7	105.4	78.8	61.8	54.5	49.7	50.9
65°	6701.4	5459.1	1895.6	249.7	135.7	101.8	66.7	54.5	47.3	42.4	42.4
67.5°	6357.2	5036.1	1478.7	209.7	124.8	84.8	58.2	46.1	40.0	35.1	35.1
70°	5870.0	4391.3	973.3	177.0	111.5	73.9	52.1	40.0	33.9	29.1	27.9
72.5°	5003.3	3508.9	494.5	151.5	95.8	65.5	46.1	35.1	29.1	24.2	23.0
75°	3837.4	2363.5	307.9	121.2	75.1	58.2	41.2	31.5	24.2	18.2	17.0
77.5°	2288.4	951.5	218.2	84.8	50.9	46.1	33.9	25.5	19.4	13.3	13.3
80°	722.4	420.6	147.9	58.2	32.7	31.5	25.5	18.2	13.3	9.7	9.7
82.5°	408.5	266.7	99.4	38.8	23.0	20.6	14.5	10.9	8.5	7.3	7.3
85°	67.9	53.3	30.3	14.5	10.9	9.7	6.1	3.6	2.4	1.2	2.4
87.5°	3.6	3.6	4.8	4.8	4.8	3.6	2.4	0.0	0.0	0.0	0.0
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)