

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: P509174

Luminaire Tested: **VERD-CA2-120-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509174
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-CA2-120-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16063 lumens
Efficiency: N/A
Efficacy: 130.9 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

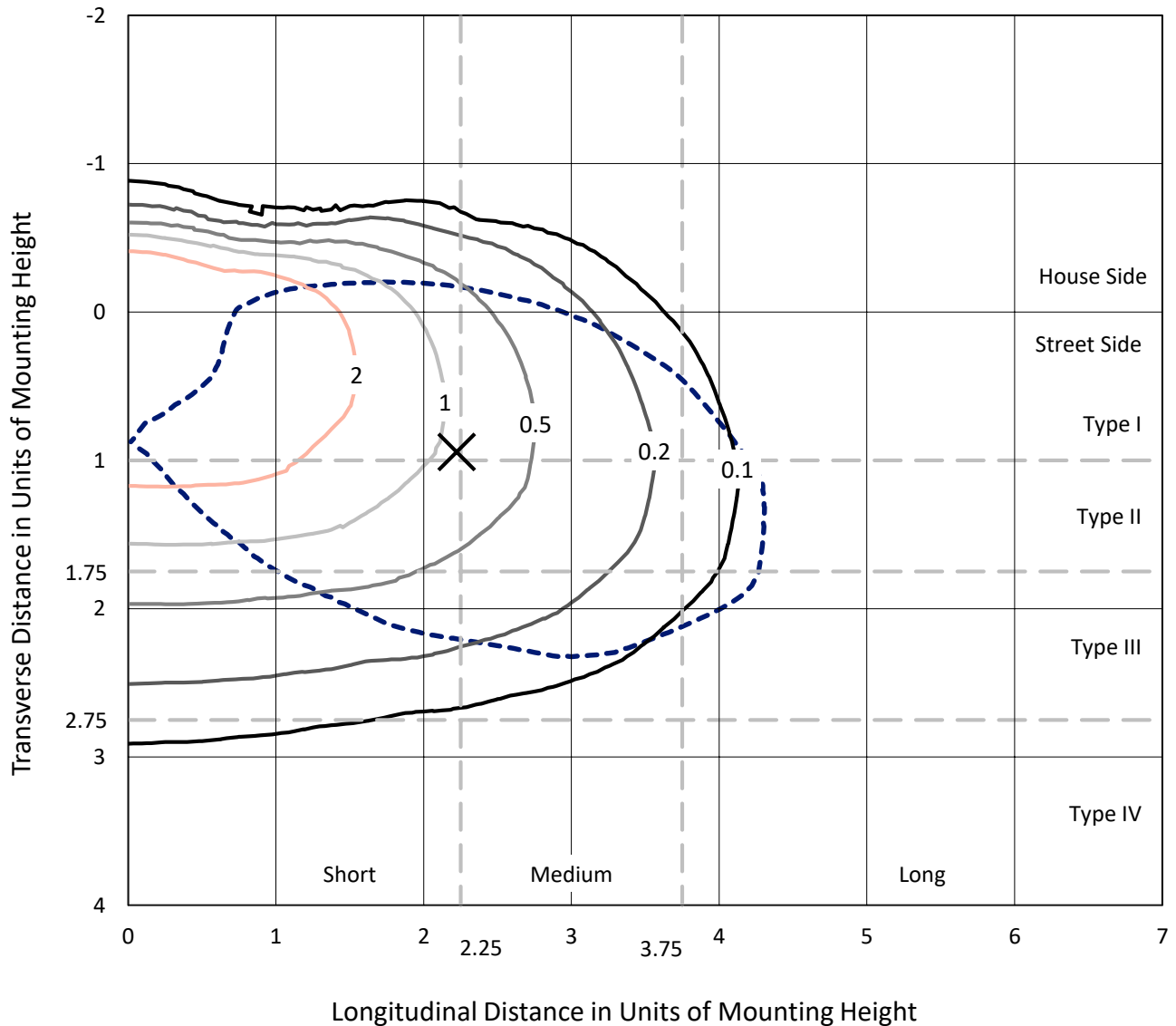
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

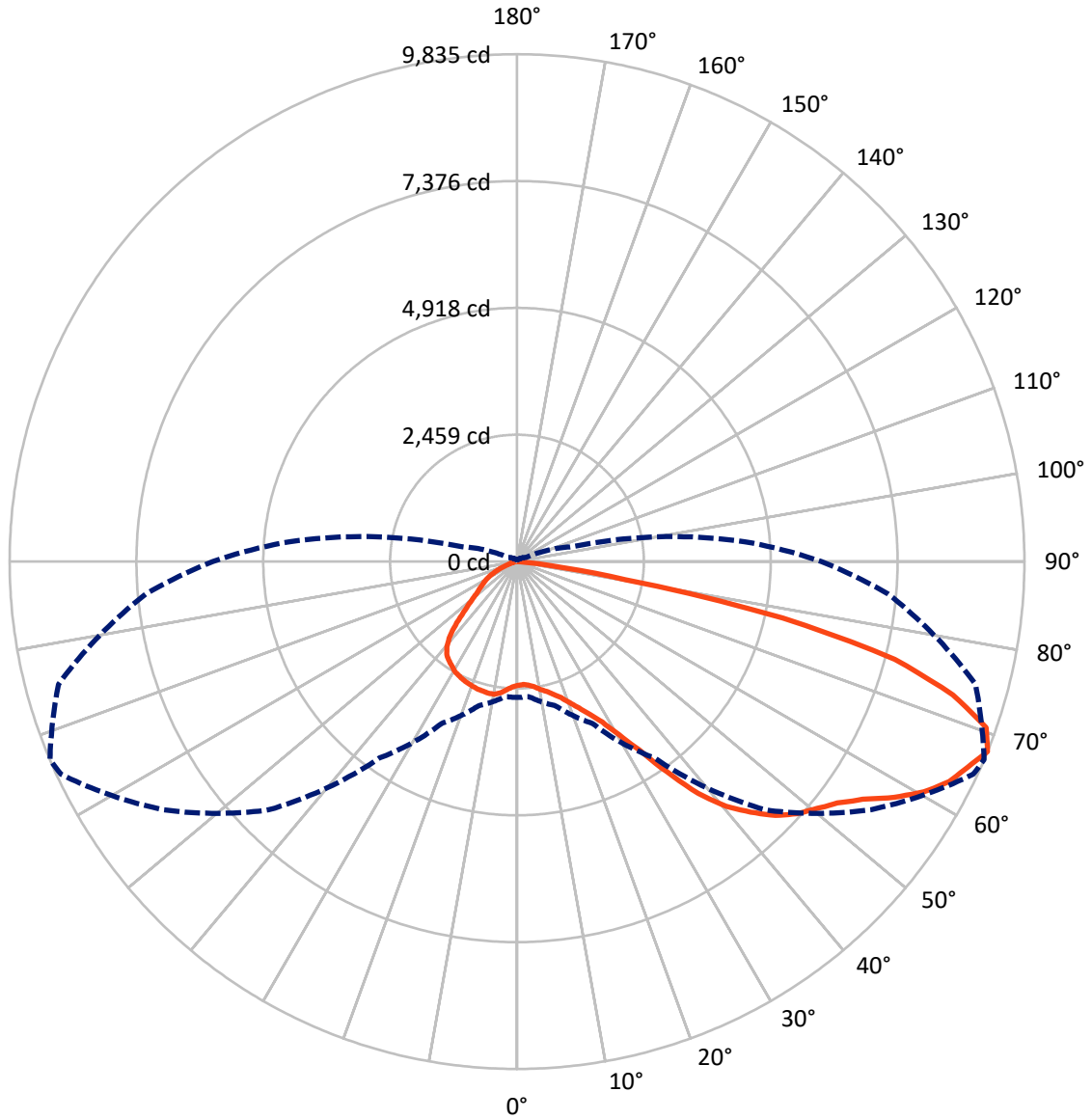
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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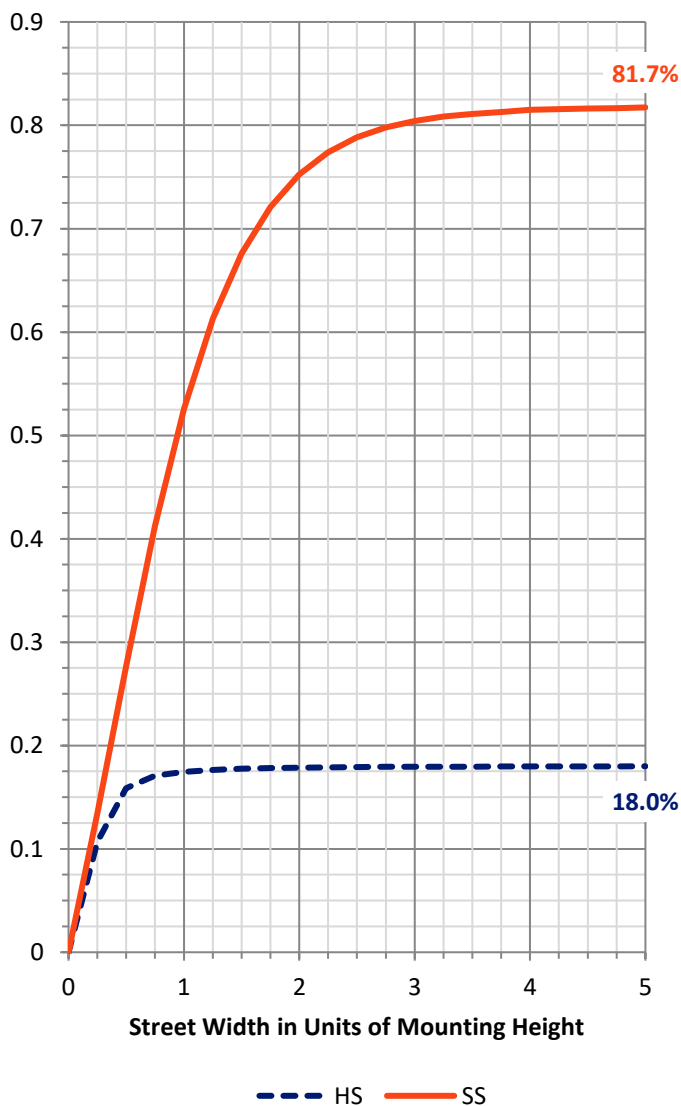
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2926.8	0.0	2926.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13136.2	0.0	13136.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.5
10°-20°	752.6	4.7
20°-30°	1284.2	8.0
30°-40°	1998.8	12.4
40°-50°	2821.6	17.6
50°-60°	3398.4	21.2
60°-70°	3512.0	21.9
70°-80°	1934.7	12.0
80°-90°	120.6	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°	16063.0	100.0
0°-180°	16063.0	100.0

Coefficient of Utilization



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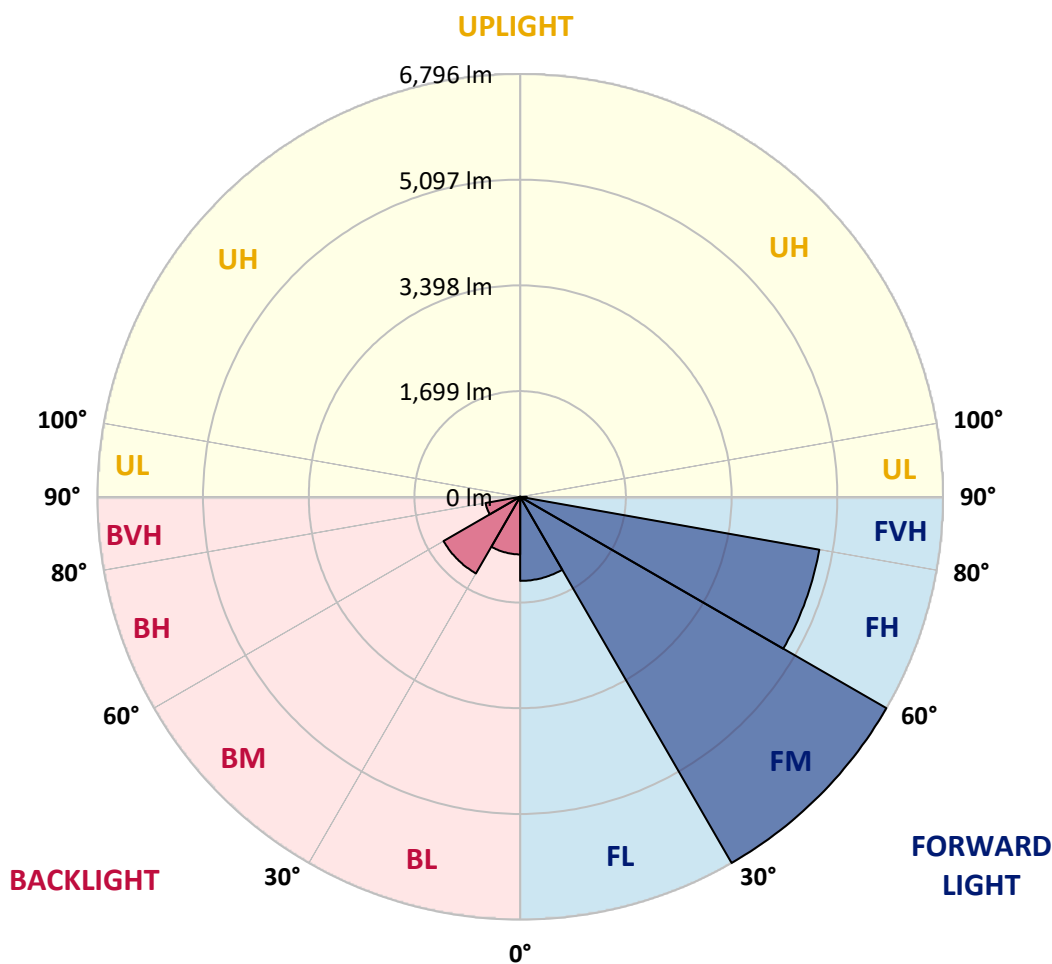
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.6	8.4			
FM (30°-60°)	6796.0	42.3			
FH (60°-80°)	4882.6	30.4			G2/5000
FVH (80°-90°)	106.1	0.7			G2/225
BL (0°-30°)	925.4	5.8	B2/1000		
BM (30°-60°)	1422.8	8.9	B2/2500		
BH (60°-80°)	564.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.5	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°	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4
2.5°	2376.1	2400.2	2400.2	2392.8	2396.5	2379.8	2368.6	2381.7	2385.4	2396.5	2411.4
5°	2422.6	2450.4	2448.6	2435.6	2424.4	2409.5	2394.7	2405.8	2407.7	2411.4	2430.0
7.5°	2521.1	2547.1	2536.0	2523.0	2517.4	2483.9	2452.3	2450.4	2454.2	2465.3	2485.8
10°	2649.4	2669.8	2666.1	2645.7	2630.8	2580.6	2536.0	2519.2	2521.1	2524.8	2560.1
12.5°	2794.4	2822.3	2801.8	2774.0	2747.9	2675.4	2614.1	2589.9	2586.2	2595.5	2625.2
15°	2937.6	2967.3	2952.4	2935.7	2876.2	2796.3	2718.2	2679.1	2675.4	2675.4	2694.0
17.5°	3125.3	3136.5	3127.2	3103.0	3036.1	2935.7	2842.7	2785.1	2775.8	2781.4	2785.1
20°	3333.6	3354.0	3342.9	3316.8	3220.2	3112.3	2995.2	2926.4	2920.8	2926.4	2891.1
22.5°	3586.4	3593.9	3588.3	3545.5	3458.1	3315.0	3160.7	3082.6	3082.6	3088.2	3015.6
25°	3802.1	3846.7	3833.7	3781.6	3679.4	3554.8	3368.9	3272.2	3277.8	3281.5	3181.1
27.5°	4053.1	4090.3	4081.0	4041.9	3975.0	3817.0	3593.9	3530.7	3525.1	3519.5	3363.3
30°	4292.9	4320.8	4339.4	4330.1	4276.2	4127.5	3928.5	3882.0	3896.9	3885.8	3616.2
32.5°	4488.1	4536.5	4588.5	4599.7	4584.8	4452.8	4307.8	4332.0	4350.6	4482.6	4320.8
35°	4655.5	4707.5	4793.1	4882.3	4899.0	4847.0	4774.5	4951.1	5005.0	5274.6	5103.5
37.5°	4830.2	4874.9	4960.4	5101.7	5194.6	5222.5	5293.2	5572.1	5702.2	5934.6	5616.7
40°	4910.2	4954.8	5103.5	5282.0	5475.4	5631.6	5772.9	6096.4	6241.4	6312.0	5899.3
42.5°	4830.2	4873.0	5112.8	5449.4	5711.5	6057.3	6217.2	6540.7	6637.4	6630.0	6247.0
45°	4752.2	4793.1	5044.1	5492.1	5925.3	6449.6	6585.3	6947.9	7018.5	6929.3	6447.8
47.5°	4651.8	4707.5	4967.8	5466.1	6116.8	6804.7	6929.3	7237.9	7301.1	7169.1	6678.3
50°	4529.0	4577.4	4880.4	5425.2	6243.2	7070.6	7202.6	7509.4	7526.1	7403.4	6886.5
52.5°	4387.7	4413.8	4742.9	5343.4	6352.9	7265.8	7416.4	7738.1	7777.1	7743.6	7133.8
55°	4177.7	4224.1	4577.4	5215.1	6360.4	7368.1	7581.9	8061.6	8132.2	8054.1	7284.4
57.5°	3956.4	4006.6	4372.9	5036.6	6250.7	7433.1	7883.1	8481.7	8621.2	8370.2	7407.1
60°	3712.9	3757.5	4118.2	4772.6	6055.5	7526.1	8193.6	8974.4	9061.8	8639.8	7488.9
62.5°	3430.3	3465.6	3809.5	4452.8	5756.1	7501.9	8461.3	9370.4	9398.3	8881.5	7481.5
65°	3086.3	3084.4	3404.2	4006.6	5265.3	7308.6	8509.6	9569.4	9602.8	9037.6	7414.6
67.5°	2632.6	2627.1	2894.8	3461.9	4646.2	6804.7	8381.3	9755.3	9835.3	9201.3	7219.3
70°	2063.7	2071.2	2273.8	2779.5	3770.5	6036.9	8043.0	9630.7	9647.5	8887.1	6713.6
72.5°	1459.5	1455.8	1593.3	1935.4	2787.0	4713.1	7068.7	8781.1	8833.1	8109.9	5849.1
75°	669.3	697.2	1041.2	1182.5	1682.6	3209.0	5815.6	7461.0	7561.4	6981.4	4560.7
77.5°	124.6	128.3	223.1	449.9	658.2	1158.3	3474.9	5053.3	5263.4	4757.7	2569.4
80°	98.5	100.4	132.0	215.7	275.2	520.6	1143.4	2082.3	2128.8	1855.5	925.9
82.5°	72.5	74.4	98.5	139.4	128.3	225.0	476.0	606.1	643.3	598.7	368.1
85°	42.8	44.6	57.6	68.8	66.9	89.2	79.9	72.5	65.1	53.9	46.5
87.5°	11.2	14.9	24.2	24.2	18.6	16.7	14.9	13.0	14.9	13.0	13.0
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°	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4
2.5°	2415.1	2413.3	2418.8	2433.7	2446.7	2448.6	2467.2	2491.3	2480.2	2511.8	2500.6
5°	2441.2	2446.7	2467.2	2491.3	2513.7	2532.3	2560.1	2601.0	2588.0	2617.8	2606.6
7.5°	2500.6	2509.9	2541.5	2565.7	2591.7	2586.2	2610.3	2634.5	2604.8	2636.4	2621.5
10°	2571.3	2582.5	2601.0	2610.3	2602.9	2599.2	2593.6	2589.9	2550.8	2573.2	2563.9
12.5°	2634.5	2636.4	2630.8	2606.6	2589.9	2545.3	2524.8	2515.5	2456.0	2472.8	2461.6
15°	2695.9	2669.8	2641.9	2586.2	2539.7	2470.9	2426.3	2387.2	2331.5	2353.8	2331.5
17.5°	2762.8	2723.8	2651.2	2569.4	2474.6	2374.2	2301.7	2238.5	2154.8	2151.1	2143.7
20°	2848.3	2790.7	2673.6	2539.7	2404.0	2253.4	2138.1	2032.1	1905.7	1889.0	1855.5
22.5°	2956.2	2870.6	2707.0	2500.6	2316.6	2126.9	1931.7	1757.0	1597.1	1546.9	1528.3
25°	3080.7	2974.7	2725.6	2465.3	2232.9	1942.9	1677.0	1450.2	1262.4	1208.5	1193.6
27.5°	3236.9	3106.7	2753.5	2413.3	2099.1	1717.9	1372.1	1121.1	953.8	866.4	853.4
30°	3452.6	3253.6	2792.5	2361.2	1937.3	1453.9	1063.5	771.6	613.5	561.5	552.2
32.5°	4040.1	3603.2	2835.3	2268.2	1723.5	1160.2	706.5	492.7	386.7	344.0	340.2
35°	4785.6	4242.7	2991.5	2162.3	1465.1	805.0	438.8	293.8	236.1	219.4	219.4
37.5°	5267.2	4739.1	3251.8	2013.5	1124.8	492.7	264.0	191.5	180.3	178.5	178.5
40°	5520.0	4958.5	3439.5	1809.0	753.0	286.3	185.9	165.5	161.8	158.0	158.0
42.5°	5841.7	5146.3	3601.3	1532.0	436.9	200.8	163.6	150.6	145.0	141.3	141.3
45°	6020.1	5350.8	3499.0	1202.9	249.1	180.3	150.6	135.7	130.1	130.1	130.1
47.5°	6194.9	5546.0	3368.9	864.5	212.0	165.5	141.3	126.4	120.8	124.6	124.6
50°	6393.8	5678.0	3162.5	647.0	200.8	154.3	128.3	115.3	111.6	117.1	117.1
52.5°	6579.8	5691.1	2831.6	516.9	185.9	143.2	119.0	106.0	102.3	106.0	106.0
55°	6633.7	5650.2	2736.8	410.9	176.6	132.0	111.6	98.5	89.2	89.2	87.4
57.5°	6620.7	5570.2	2506.2	347.7	165.5	120.8	102.3	87.4	76.2	72.5	72.5
60°	6576.0	5458.7	2262.7	303.1	154.3	111.6	91.1	74.4	63.2	59.5	59.5
62.5°	6520.3	5248.6	1918.7	264.0	143.2	107.8	76.2	61.4	53.9	50.2	50.2
65°	6286.0	4921.3	1535.7	225.0	132.0	94.8	66.9	53.9	46.5	42.8	42.8
67.5°	5897.4	4423.1	1110.0	191.5	122.7	79.9	59.5	46.5	39.0	37.2	35.3
70°	5317.4	3735.2	687.9	165.5	106.0	72.5	52.1	40.9	35.3	29.7	29.7
72.5°	4432.4	2924.5	360.7	130.1	83.7	61.4	46.5	37.2	29.7	26.0	24.2
75°	3116.0	1803.4	260.3	100.4	57.6	50.2	39.0	31.6	26.0	22.3	20.5
77.5°	1504.1	621.0	182.2	74.4	40.9	37.2	29.7	26.0	20.5	18.6	18.6
80°	550.3	353.3	130.1	53.9	33.5	29.7	22.3	20.5	16.7	14.9	14.9
82.5°	247.3	167.3	74.4	35.3	24.2	22.3	16.7	13.0	13.0	13.0	13.0
85°	40.9	35.3	24.2	16.7	13.0	11.2	11.2	9.3	9.3	9.3	9.3
87.5°	11.2	11.2	9.3	9.3	7.4	5.6	3.7	3.7	3.7	5.6	5.6
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)