

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: P509190

Luminaire Tested: **VERD-CA2-120-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509190
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-CA2-120-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1120mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16011 lumens
Efficiency: N/A
Efficacy: 130.5 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

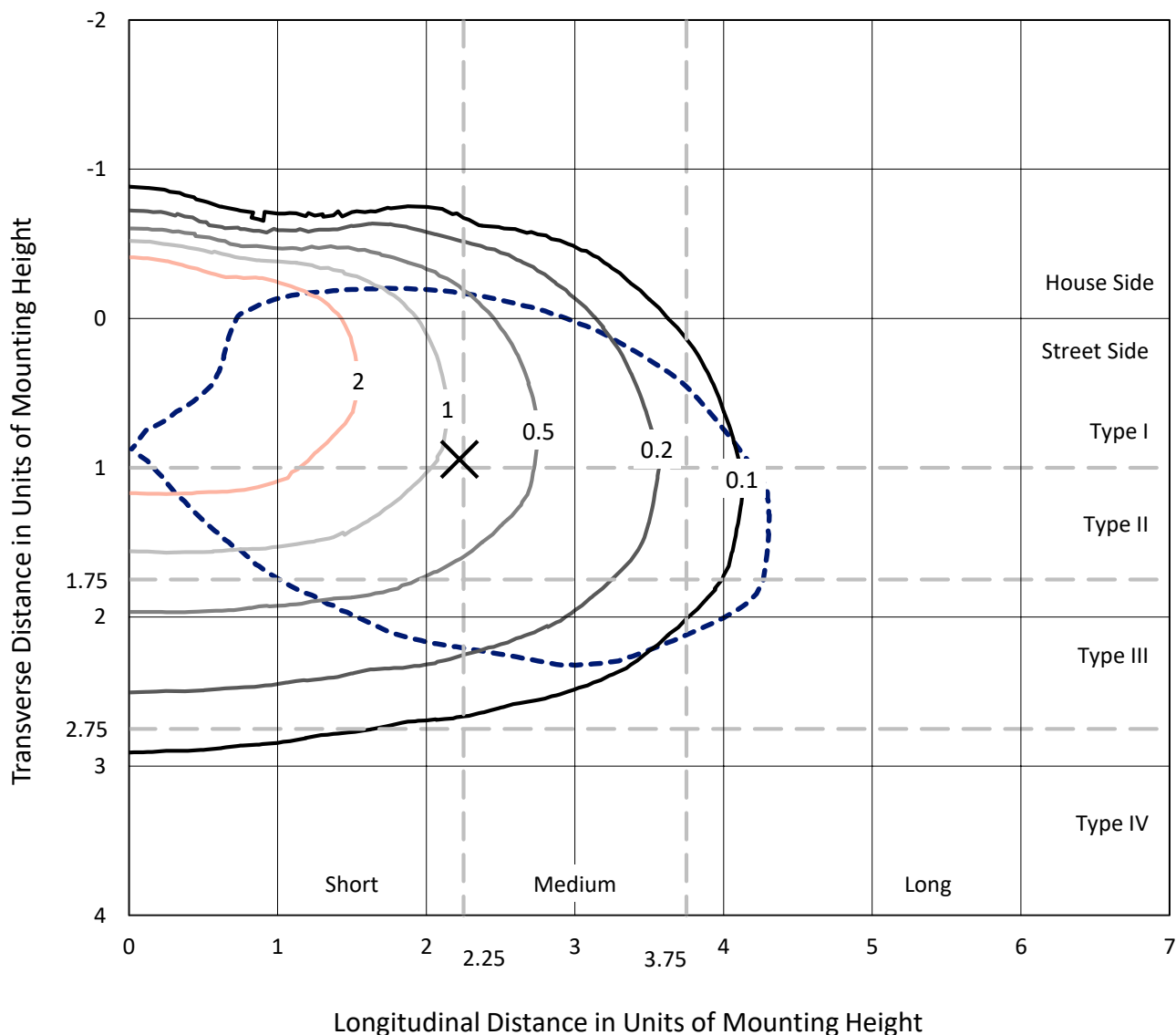
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

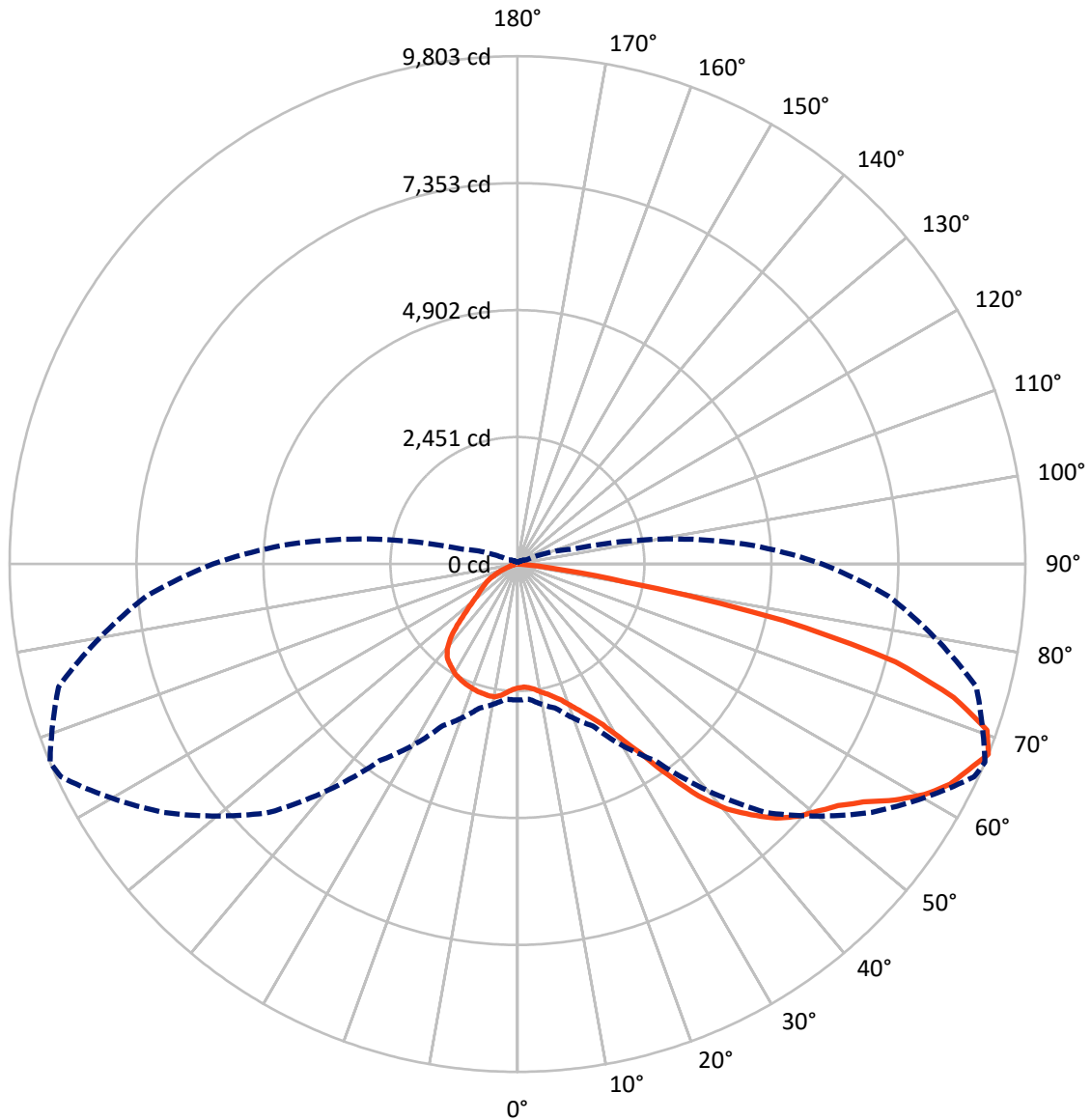
× Max cd
 - - - 1/2 Max cd



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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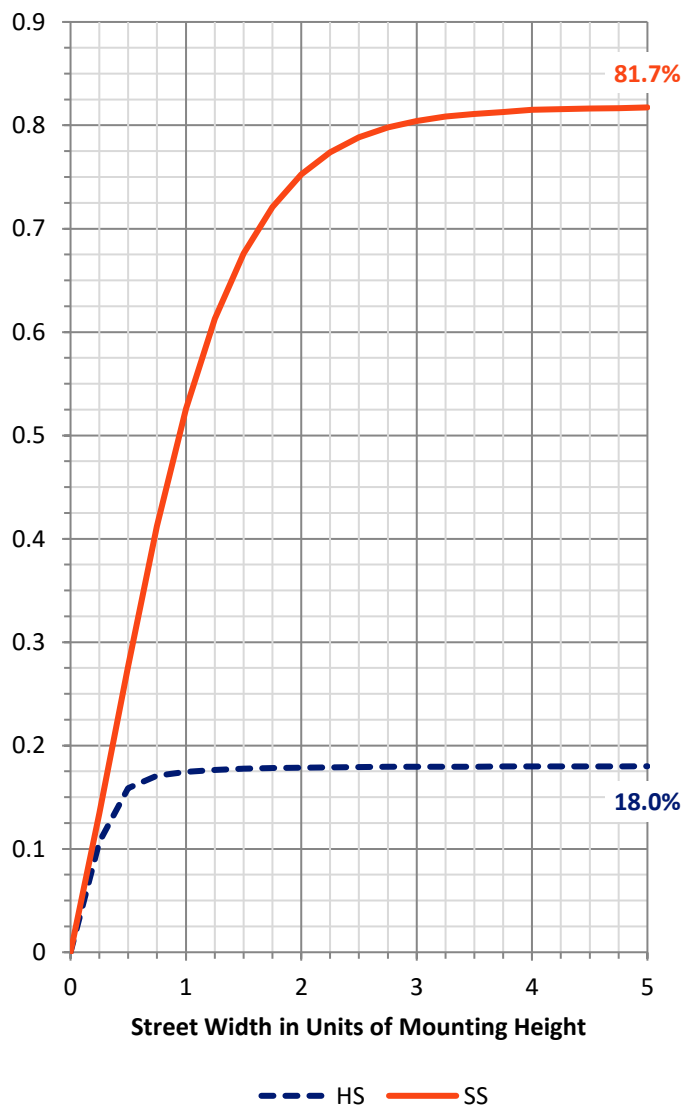
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.3	0.0	2917.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	13093.7	0.0	13093.7
	% Fixture	81.8	0.0	81.8
Total	Lumens	16011.0	0.0	16011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	1.5
10°-20°	750.1	4.7
20°-30°	1280.0	8.0
30°-40°	1992.3	12.4
40°-50°	2812.5	17.6
50°-60°	3387.4	21.2
60°-70°	3500.6	21.9
70°-80°	1928.4	12.0
80°-90°	120.2	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°	16011.0	100.0
0°-180°	16011.0	100.0

Coefficient of Utilization



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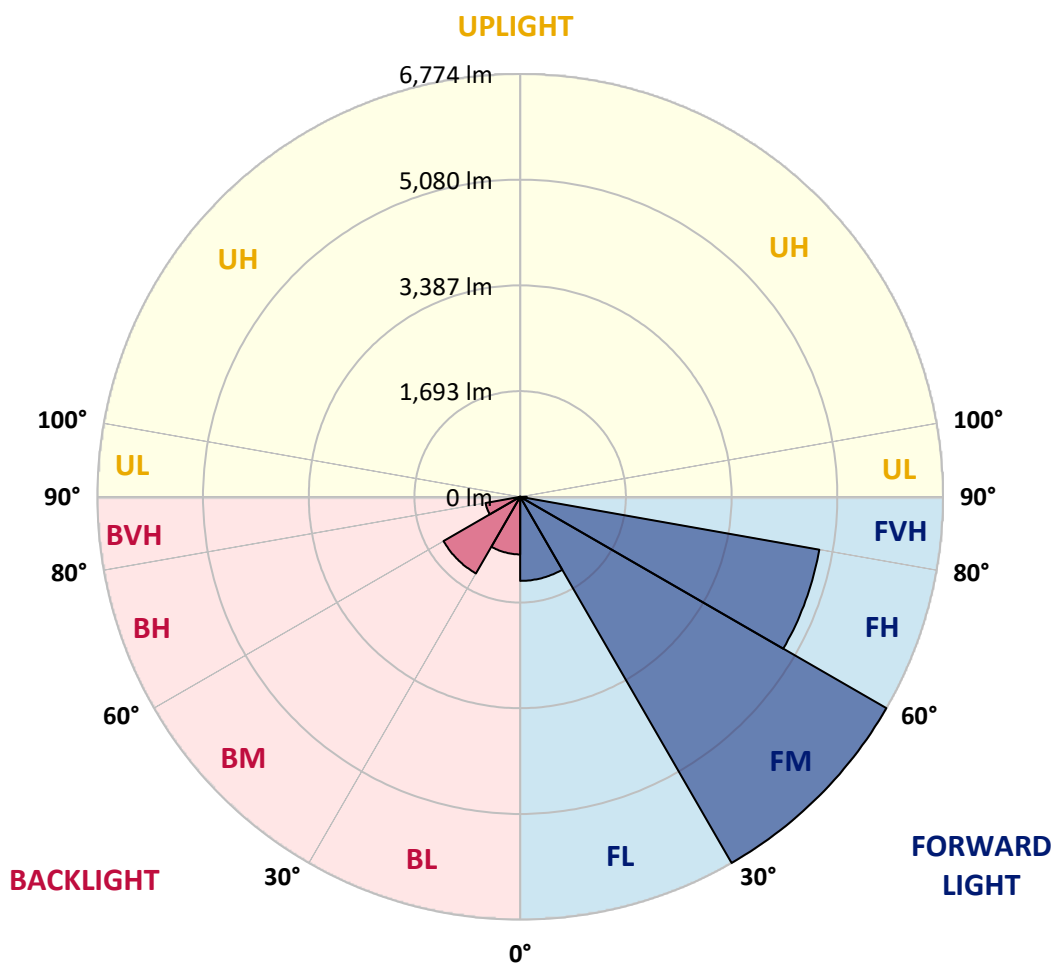
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.2	8.4			
FM (30°-60°)	6774.0	42.3			
FH (60°-80°)	4866.7	30.4			G2/5000
FVH (80°-90°)	105.7	0.7			G2/225
BL (0°-30°)	922.4	5.8	B2/1000		
BM (30°-60°)	1418.1	8.9	B2/2500		
BH (60°-80°)	562.3	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°	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6
2.5°	2368.4	2392.5	2392.5	2385.1	2388.8	2372.1	2361.0	2373.9	2377.7	2388.8	2403.6
5°	2414.7	2442.5	2440.7	2427.7	2416.6	2401.7	2386.9	2398.0	2399.9	2403.6	2422.1
7.5°	2512.9	2538.9	2527.8	2514.8	2509.2	2475.9	2444.4	2442.5	2446.2	2457.3	2477.7
10°	2640.8	2661.2	2657.5	2637.1	2622.3	2572.2	2527.8	2511.1	2512.9	2516.6	2551.9
12.5°	2785.4	2813.2	2792.8	2765.0	2739.0	2666.8	2605.6	2581.5	2577.8	2587.1	2616.7
15°	2928.1	2957.7	2942.9	2926.2	2866.9	2787.2	2709.4	2670.5	2666.8	2666.8	2685.3
17.5°	3115.2	3126.3	3117.1	3093.0	3026.3	2926.2	2833.5	2776.1	2766.8	2772.4	2776.1
20°	3322.8	3343.2	3332.0	3306.1	3209.7	3102.3	2985.5	2916.9	2911.4	2916.9	2881.7
22.5°	3574.8	3582.2	3576.7	3534.0	3446.9	3304.3	3150.4	3072.6	3072.6	3078.2	3005.9
25°	3789.8	3834.3	3821.3	3769.4	3667.5	3543.3	3358.0	3261.6	3267.2	3270.9	3170.8
27.5°	4040.0	4077.0	4067.8	4028.9	3962.1	3804.6	3582.2	3519.2	3513.7	3508.1	3352.4
30°	4279.0	4306.8	4325.4	4316.1	4262.4	4114.1	3915.8	3869.5	3884.3	3873.2	3604.5
32.5°	4473.6	4521.8	4573.7	4584.8	4570.0	4438.4	4293.9	4317.9	4336.5	4468.1	4306.8
35°	4640.4	4692.3	4777.5	4866.5	4883.2	4831.3	4759.0	4935.1	4988.8	5257.5	5087.0
37.5°	4814.6	4859.1	4944.3	5085.2	5177.8	5205.6	5276.1	5554.0	5683.8	5915.4	5598.5
40°	4894.3	4938.8	5087.0	5264.9	5457.7	5613.3	5754.2	6076.6	6221.2	6291.6	5880.2
42.5°	4814.6	4857.2	5096.3	5431.7	5693.0	6037.7	6197.1	6519.5	6615.9	6608.5	6226.7
45°	4736.8	4777.5	5027.7	5474.3	5906.1	6428.7	6564.0	6925.4	6995.8	6906.9	6426.9
47.5°	4636.7	4692.3	4951.7	5448.4	6097.0	6782.7	6906.9	7214.5	7277.5	7145.9	6656.7
50°	4514.4	4562.6	4864.6	5407.6	6223.0	7047.7	7179.3	7485.1	7501.7	7379.4	6864.2
52.5°	4373.5	4399.5	4727.5	5326.1	6332.4	7242.3	7392.4	7713.0	7751.9	7718.6	7110.7
55°	4164.1	4210.5	4562.6	5198.2	6339.8	7344.2	7557.3	8035.5	8105.9	8028.0	7260.8
57.5°	3943.6	3993.6	4358.7	5020.3	6230.4	7409.1	7857.6	8454.3	8593.3	8343.1	7383.1
60°	3700.8	3745.3	4104.8	4757.2	6035.9	7501.7	8167.0	8945.4	9032.5	8611.8	7464.7
62.5°	3419.1	3454.4	3797.2	4438.4	5737.5	7477.7	8433.9	9340.1	9367.9	8852.7	7457.3
65°	3076.3	3074.5	3393.2	3993.6	5248.3	7284.9	8482.1	9538.4	9571.8	9008.4	7390.5
67.5°	2624.1	2618.6	2885.4	3450.7	4631.1	6782.7	8354.2	9723.7	9803.4	9171.5	7196.0
70°	2057.0	2064.5	2266.5	2770.5	3758.3	6017.3	8016.9	9599.6	9616.2	8858.3	6691.9
72.5°	1454.8	1451.1	1588.2	1929.2	2777.9	4697.9	7045.9	8752.6	8804.5	8083.6	5830.2
75°	667.2	694.9	1037.8	1178.6	1677.1	3198.6	5796.8	7436.9	7537.0	6958.8	4545.9
77.5°	124.2	127.9	222.4	448.5	656.0	1154.5	3463.6	5037.0	5246.4	4742.3	2561.1
80°	98.2	100.1	131.6	215.0	274.3	518.9	1139.7	2075.6	2121.9	1849.5	922.9
82.5°	72.3	74.1	98.2	139.0	127.9	224.2	474.4	604.1	641.2	596.7	366.9
85°	42.6	44.5	57.4	68.6	66.7	89.0	79.7	72.3	64.9	53.7	46.3
87.5°	11.1	14.8	24.1	24.1	18.5	16.7	14.8	13.0	14.8	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°	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6	2390.6
2.5°	2407.3	2405.4	2411.0	2425.8	2438.8	2440.7	2459.2	2483.3	2472.2	2503.7	2492.6
5°	2433.2	2438.8	2459.2	2483.3	2505.5	2524.1	2551.9	2592.6	2579.7	2609.3	2598.2
7.5°	2492.6	2501.8	2533.3	2557.4	2583.4	2577.8	2601.9	2626.0	2596.3	2627.8	2613.0
10°	2563.0	2574.1	2592.6	2601.9	2594.5	2590.8	2585.2	2581.5	2542.6	2564.8	2555.6
12.5°	2626.0	2627.8	2622.3	2598.2	2581.5	2537.0	2516.6	2507.4	2448.1	2464.8	2453.6
15°	2687.1	2661.2	2633.4	2577.8	2531.5	2462.9	2418.4	2379.5	2323.9	2346.1	2323.9
17.5°	2753.9	2714.9	2642.7	2561.1	2466.6	2366.5	2294.3	2231.2	2147.9	2144.1	2136.7
20°	2839.1	2781.6	2664.9	2531.5	2396.2	2246.1	2131.2	2025.5	1899.5	1882.8	1849.5
22.5°	2946.6	2861.3	2698.3	2492.6	2309.1	2120.1	1925.5	1751.3	1591.9	1541.9	1523.3
25°	3070.7	2965.1	2716.8	2457.3	2225.7	1936.6	1671.6	1445.5	1258.3	1204.6	1189.8
27.5°	3226.4	3096.7	2744.6	2405.4	2092.3	1712.4	1367.7	1117.5	950.7	863.6	850.6
30°	3441.4	3243.1	2783.5	2353.6	1931.0	1449.2	1060.0	769.1	611.6	559.7	550.4
32.5°	4027.0	3591.5	2826.1	2260.9	1717.9	1156.4	704.2	491.1	385.5	342.8	339.1
35°	4770.1	4229.0	2981.8	2155.3	1460.3	802.4	437.4	292.8	235.4	218.7	218.7
37.5°	5250.1	4723.8	3241.2	2007.0	1121.2	491.1	263.2	190.9	179.8	177.9	177.9
40°	5502.1	4942.5	3428.4	1803.2	750.5	285.4	185.3	164.9	161.2	157.5	157.5
42.5°	5822.7	5129.6	3589.6	1527.0	435.5	200.1	163.1	150.1	144.5	140.8	140.8
45°	6000.7	5333.5	3487.7	1199.0	248.3	179.8	150.1	135.3	129.7	129.7	129.7
47.5°	6174.9	5528.1	3358.0	861.7	211.3	164.9	140.8	126.0	120.5	124.2	124.2
50°	6373.1	5659.7	3152.3	644.9	200.1	153.8	127.9	114.9	111.2	116.8	116.8
52.5°	6558.5	5672.6	2822.4	515.2	185.3	142.7	118.6	105.6	101.9	105.6	105.6
55°	6612.2	5631.9	2727.9	409.6	176.1	131.6	111.2	98.2	89.0	89.0	87.1
57.5°	6599.2	5552.2	2498.1	346.5	164.9	120.5	101.9	87.1	76.0	72.3	72.3
60°	6554.8	5441.0	2255.3	302.1	153.8	111.2	90.8	74.1	63.0	59.3	59.3
62.5°	6499.2	5231.6	1912.5	263.2	142.7	107.5	76.0	61.2	53.7	50.0	50.0
65°	6265.7	4905.4	1530.7	224.2	131.6	94.5	66.7	53.7	46.3	42.6	42.6
67.5°	5878.3	4408.8	1106.4	190.9	122.3	79.7	59.3	46.3	38.9	37.1	35.2
70°	5300.1	3723.1	685.7	164.9	105.6	72.3	51.9	40.8	35.2	29.7	29.7
72.5°	4418.0	2915.1	359.5	129.7	83.4	61.2	46.3	37.1	29.7	25.9	24.1
75°	3106.0	1797.6	259.4	100.1	57.4	50.0	38.9	31.5	25.9	22.2	20.4
77.5°	1499.2	619.0	181.6	74.1	40.8	37.1	29.7	25.9	20.4	18.5	18.5
80°	548.5	352.1	129.7	53.7	33.4	29.7	22.2	20.4	16.7	14.8	14.8
82.5°	246.5	166.8	74.1	35.2	24.1	22.2	16.7	13.0	13.0	13.0	13.0
85°	40.8	35.2	24.1	16.7	13.0	11.1	11.1	9.3	9.3	9.3	9.3
87.5°	11.1	11.1	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)