

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: P509183

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

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17482 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

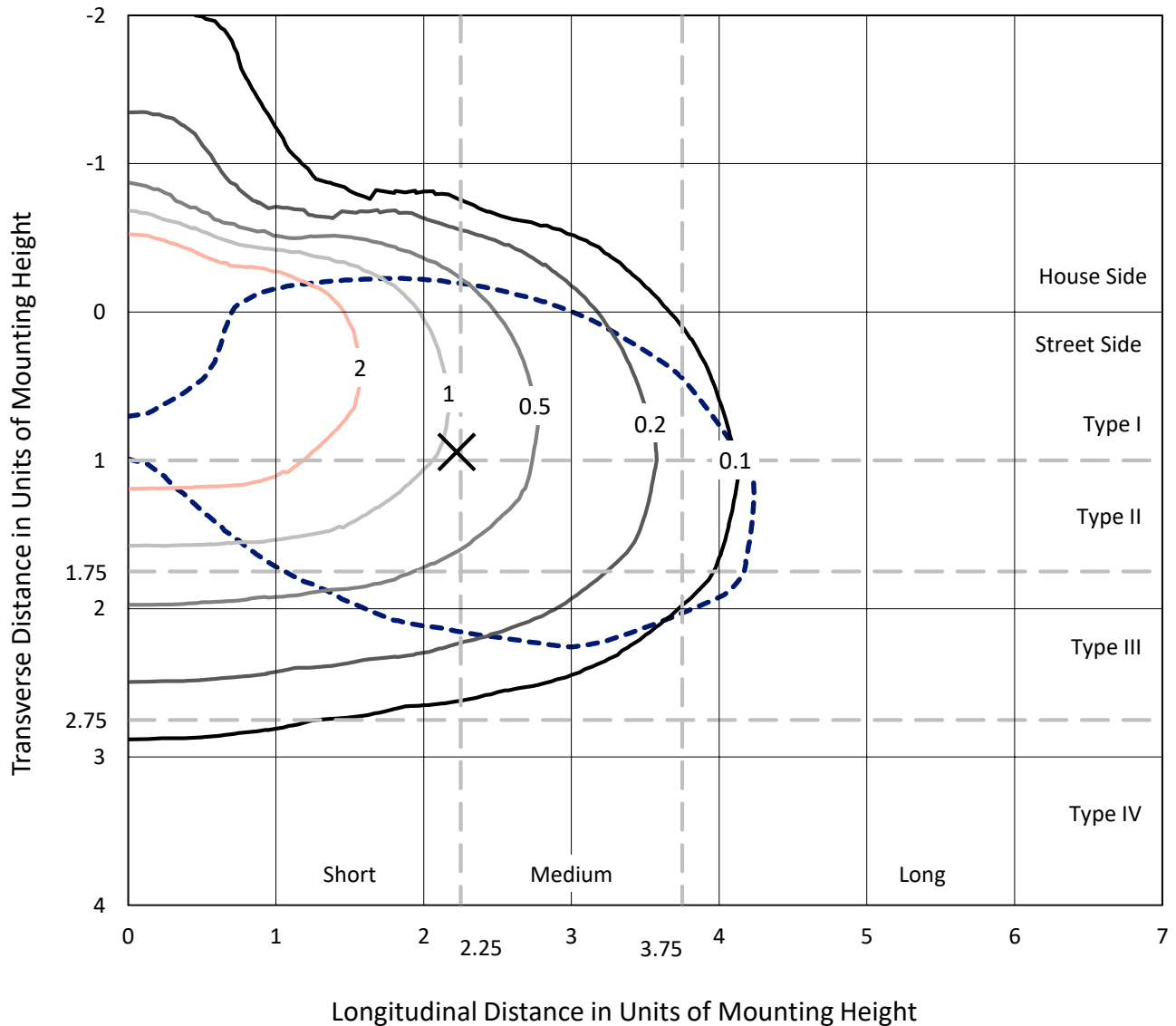
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

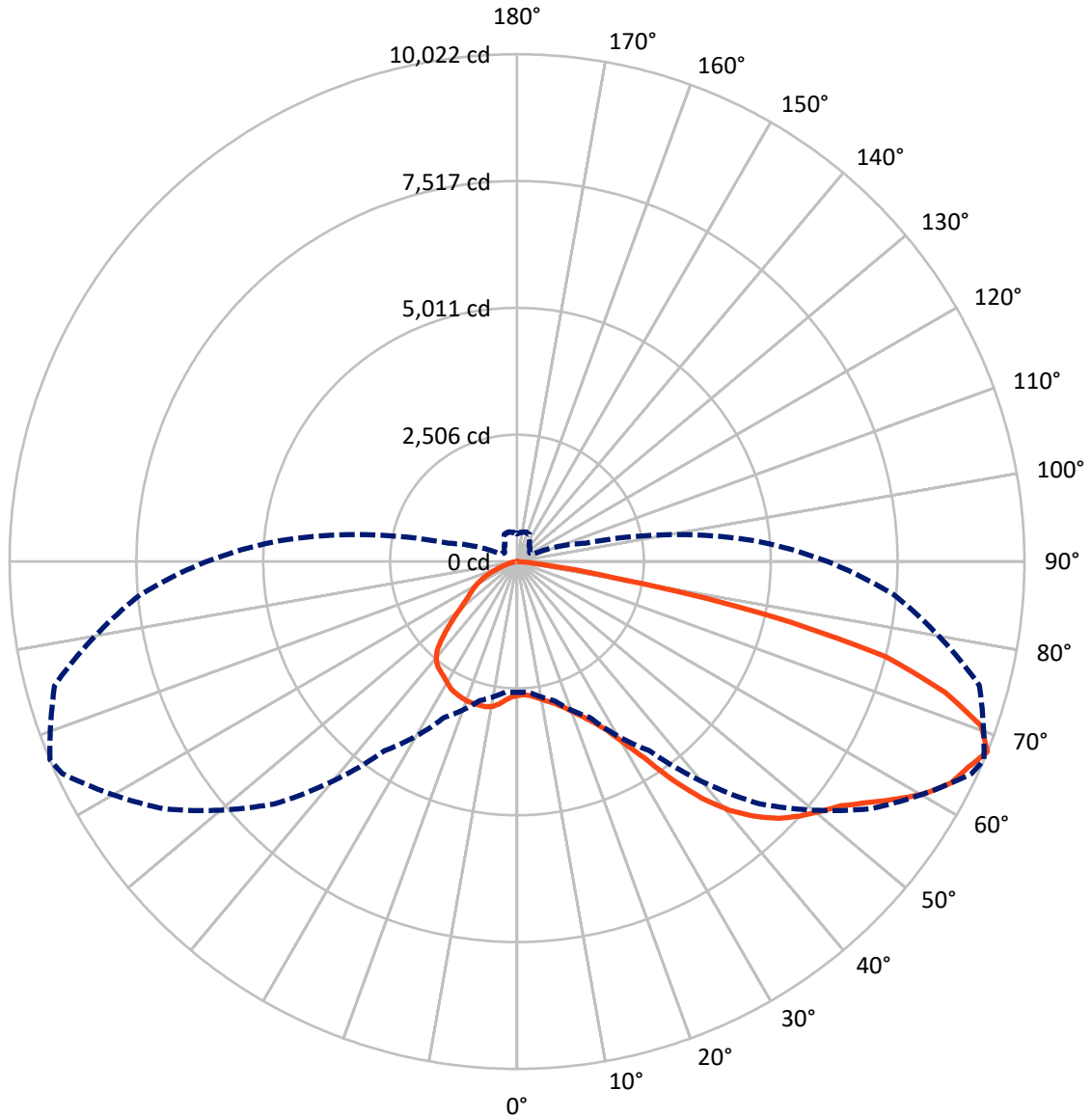
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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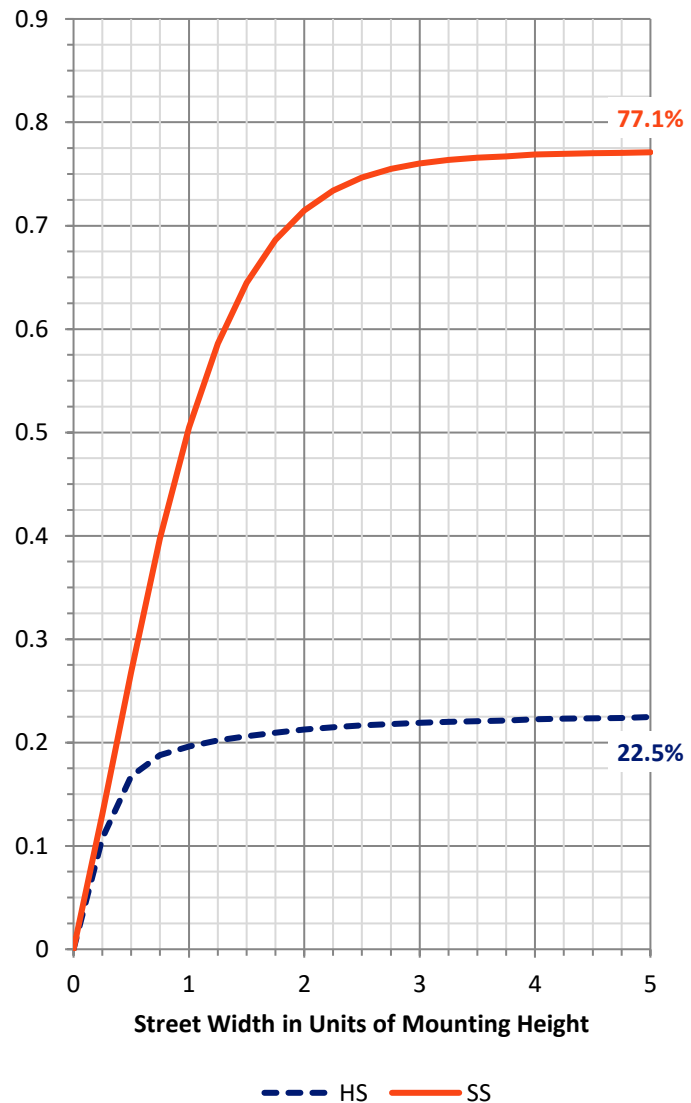
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.4	0.0	3997.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13484.6	0.0	13484.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	17482.0	0.0	17482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	1.5
10°-20°	857.2	4.9
20°-30°	1481.1	8.5
30°-40°	2248.2	12.9
40°-50°	3055.0	17.5
50°-60°	3633.3	20.8
60°-70°	3738.1	21.4
70°-80°	2039.2	11.7
80°-90°	162.0	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°	17482.0	100.0
0°-180°	17482.0	100.0



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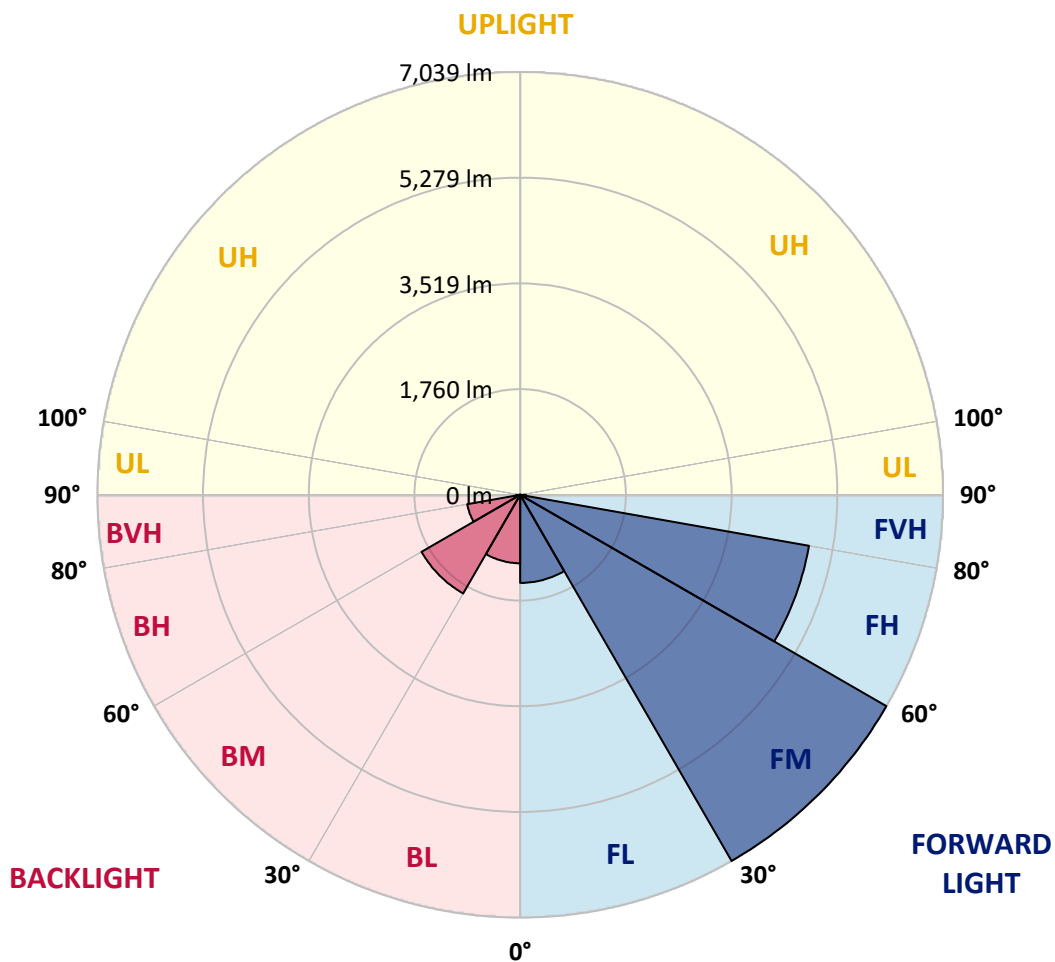
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.3	8.4			
FM (30°-60°)	7039.0	40.3			
FH (60°-80°)	4882.4	27.9			G2/5000
FVH (80°-90°)	97.0	0.6			G1/100
BL (0°-30°)	1139.9	6.5	B3/2500		
BM (30°-60°)	1897.5	10.9	B2/2500		
BH (60°-80°)	895.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	65.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7
2.5°	2659.9	2648.5	2633.4	2639.1	2627.7	2646.6	2639.1	2635.3	2635.3	2637.2	2646.6
5°	2720.5	2709.1	2697.7	2695.9	2673.1	2680.7	2669.4	2658.0	2658.0	2656.1	2659.9
7.5°	2826.5	2811.3	2798.1	2796.2	2767.8	2764.0	2729.9	2707.2	2707.2	2705.3	2711.0
10°	2966.6	2960.9	2934.4	2917.4	2883.3	2860.6	2818.9	2782.9	2775.4	2764.0	2779.2
12.5°	3101.0	3099.1	3074.5	3055.6	3008.2	2968.5	2900.3	2851.1	2841.6	2828.4	2839.7
15°	3269.5	3252.4	3225.9	3214.6	3146.4	3085.8	3008.2	2934.4	2924.9	2909.8	2919.2
17.5°	3455.0	3445.5	3403.9	3390.6	3305.5	3235.4	3138.9	3044.2	3029.1	3008.2	3006.3
20°	3678.4	3661.4	3629.2	3591.3	3508.0	3407.7	3296.0	3188.1	3174.8	3157.8	3121.8
22.5°	3918.8	3899.9	3867.7	3828.0	3721.9	3615.9	3475.8	3339.5	3332.0	3320.6	3254.3
25°	4147.9	4115.7	4119.5	4081.6	3987.0	3852.6	3687.9	3525.1	3521.3	3519.4	3413.4
27.5°	4392.1	4358.0	4346.7	4333.4	4244.5	4117.6	3932.1	3776.8	3763.6	3765.5	3604.6
30°	4621.2	4606.0	4596.6	4587.1	4543.6	4430.0	4252.0	4113.8	4155.5	4151.7	3930.2
32.5°	4799.2	4787.8	4827.5	4873.0	4861.6	4767.0	4643.9	4581.4	4623.1	4757.5	4564.4
35°	4956.3	4950.6	5026.3	5122.9	5191.0	5122.9	5109.6	5206.2	5302.7	5526.1	5414.4
37.5°	5126.7	5119.1	5183.5	5348.2	5467.4	5488.3	5588.6	5836.6	5929.4	6152.8	5918.0
40°	5124.8	5134.2	5289.5	5499.6	5717.3	5893.4	6099.8	6340.2	6459.5	6565.5	6202.0
42.5°	5041.5	5047.2	5242.2	5641.6	5957.8	6304.2	6487.8	6796.4	6877.8	6898.7	6537.1
45°	4956.3	4960.1	5172.1	5620.8	6158.4	6688.5	6893.0	7175.1	7237.5	7165.6	6764.2
47.5°	4833.2	4857.8	5086.9	5600.0	6330.7	7042.5	7207.2	7487.4	7512.0	7421.2	6953.6
50°	4687.5	4700.7	4963.9	5531.8	6444.3	7262.1	7457.1	7710.8	7758.2	7655.9	7188.3
52.5°	4509.5	4520.9	4806.7	5440.9	6506.8	7430.6	7648.4	7951.3	8015.6	7970.2	7394.7
55°	4305.0	4310.7	4602.3	5293.3	6489.7	7504.5	7815.0	8292.0	8399.9	8288.2	7566.9
57.5°	4049.5	4070.3	4401.6	5071.8	6361.0	7597.2	8116.0	8712.3	8850.5	8612.0	7695.7
60°	3786.3	3807.1	4108.1	4814.3	6145.2	7638.9	8426.4	9164.8	9285.9	8918.7	7775.2
62.5°	3491.0	3519.4	3769.3	4426.2	5759.0	7584.0	8655.5	9560.4	9628.6	9102.3	7754.4
65°	3061.2	3076.4	3349.0	3958.6	5255.4	7298.1	8646.0	9772.5	9795.2	9304.9	7663.5
67.5°	2584.2	2586.1	2843.5	3394.4	4562.5	6764.2	8513.5	9910.7	10022.4	9454.4	7464.7
70°	1965.1	1991.6	2192.3	2601.2	3729.5	5851.7	8076.2	9774.4	9721.4	9045.5	6894.9
72.5°	1402.8	1387.7	1489.9	1766.3	2610.7	4515.2	6963.0	8831.6	8842.9	8239.0	5999.4
75°	745.9	749.7	836.8	1069.6	1332.8	2938.2	5569.7	7460.9	7529.1	7065.3	4695.0
77.5°	166.6	189.3	287.8	408.9	579.3	940.9	3021.5	4893.8	5022.5	4649.6	2572.8
80°	128.7	130.6	189.3	232.9	255.6	450.6	959.8	1775.8	1970.8	1861.0	967.4
82.5°	85.2	87.1	124.9	128.7	123.1	206.4	435.4	532.0	585.0	511.2	359.7
85°	45.4	47.3	56.8	62.5	49.2	60.6	56.8	45.4	47.3	41.6	41.6
87.5°	9.5	5.7	7.6	5.7	5.7	3.8	5.7	5.7	5.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7	2644.7
2.5°	2646.6	2650.4	2659.9	2675.0	2682.6	2699.6	2711.0	2739.4	2779.2	2765.9	2748.9
5°	2661.8	2673.1	2705.3	2745.1	2775.4	2820.8	2843.5	2898.4	2943.9	2940.1	2909.8
7.5°	2718.6	2743.2	2782.9	2841.6	2892.7	2938.2	2970.4	3029.1	3070.7	3053.7	3025.3
10°	2790.5	2815.1	2858.7	2911.7	2949.5	2998.8	3019.6	3066.9	3093.4	3072.6	3048.0
12.5°	2856.8	2870.0	2900.3	2940.1	2960.9	2993.1	3002.5	3036.6	3061.2	3051.8	3021.5
15°	2921.1	2919.2	2924.9	2936.3	2943.9	2951.4	2953.3	2977.9	2995.0	2976.0	2955.2
17.5°	2993.1	2974.1	2949.5	2930.6	2902.2	2889.0	2864.3	2875.7	2873.8	2858.7	2841.6
20°	3084.0	3049.9	2974.1	2915.5	2841.6	2782.9	2731.8	2722.4	2722.4	2680.7	2678.8
22.5°	3191.9	3135.1	3008.2	2879.5	2760.2	2667.5	2572.8	2517.9	2478.1	2447.9	2434.6
25°	3332.0	3227.8	3038.5	2830.3	2654.2	2485.7	2343.7	2268.0	2192.3	2143.1	2135.5
27.5°	3481.5	3367.9	3057.4	2786.7	2508.4	2277.5	2080.6	1925.3	1855.3	1823.1	1792.8
30°	3725.7	3525.1	3091.5	2694.0	2324.8	2021.9	1760.6	1578.9	1510.7	1488.0	1469.1
32.5°	4318.3	3932.1	3123.7	2599.3	2127.9	1739.8	1395.3	1241.9	1183.2	1205.9	1213.5
35°	5060.4	4537.9	3277.1	2489.5	1923.4	1419.9	1073.4	971.2	975.0	1009.1	1020.4
37.5°	5564.0	5071.8	3589.4	2351.3	1630.0	1052.6	831.1	798.9	827.3	857.6	863.3
40°	5859.3	5316.0	3809.0	2180.9	1283.6	787.6	624.7	602.0	662.6	730.8	772.4
42.5°	6173.6	5524.2	3922.6	1959.4	901.1	569.8	479.0	496.0	592.6	651.2	677.8
45°	6342.1	5687.0	3871.5	1643.3	613.4	443.0	429.7	477.1	573.6	626.6	634.2
47.5°	6523.8	5849.9	3748.4	1313.9	469.5	420.3	422.2	479.0	577.4	634.2	634.2
50°	6680.9	5984.3	3528.8	1029.9	446.8	405.1	424.1	488.4	583.1	632.3	630.4
52.5°	6862.7	6044.8	3216.5	833.0	424.1	391.9	426.0	496.0	573.6	602.0	598.2
55°	6919.5	6001.3	3066.9	696.7	407.0	384.3	433.5	507.4	569.8	575.5	566.1
57.5°	6919.5	5883.9	2896.5	594.5	391.9	384.3	437.3	505.5	590.7	626.6	622.8
60°	6889.2	5760.9	2635.3	532.0	371.1	380.5	439.2	533.9	702.4	742.1	740.2
62.5°	6792.6	5562.1	2313.4	469.5	350.2	382.4	433.5	573.6	802.7	785.7	744.0
65°	6563.6	5187.2	1876.1	412.7	327.5	382.4	426.0	630.4	713.7	681.5	666.4
67.5°	6131.9	4715.9	1395.3	354.0	301.0	357.8	414.6	590.7	605.8	569.8	547.1
70°	5562.1	3994.6	895.5	299.1	272.6	337.0	407.0	554.7	585.0	541.4	513.0
72.5°	4634.4	3172.9	518.7	244.2	231.0	310.5	391.9	537.7	575.5	516.8	477.1
75°	3269.5	2003.0	340.8	179.8	185.5	265.0	363.5	503.6	539.5	467.6	410.8
77.5°	1666.0	751.6	242.3	132.5	124.9	202.6	314.3	463.8	532.0	471.4	403.2
80°	588.8	378.6	159.0	87.1	81.4	124.9	240.4	393.8	499.8	460.0	446.8
82.5°	251.8	189.3	87.1	54.9	49.2	62.5	136.3	310.5	439.2	416.5	503.6
85°	36.0	32.2	24.6	20.8	20.8	28.4	43.5	153.3	297.2	338.9	410.8
87.5°	5.7	5.7	5.7	3.8	3.8	3.8	1.9	22.7	98.4	147.7	204.5
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)