

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: P509823

Luminaire Tested: **VERD-M-CA3-150-722-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-722-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18075 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

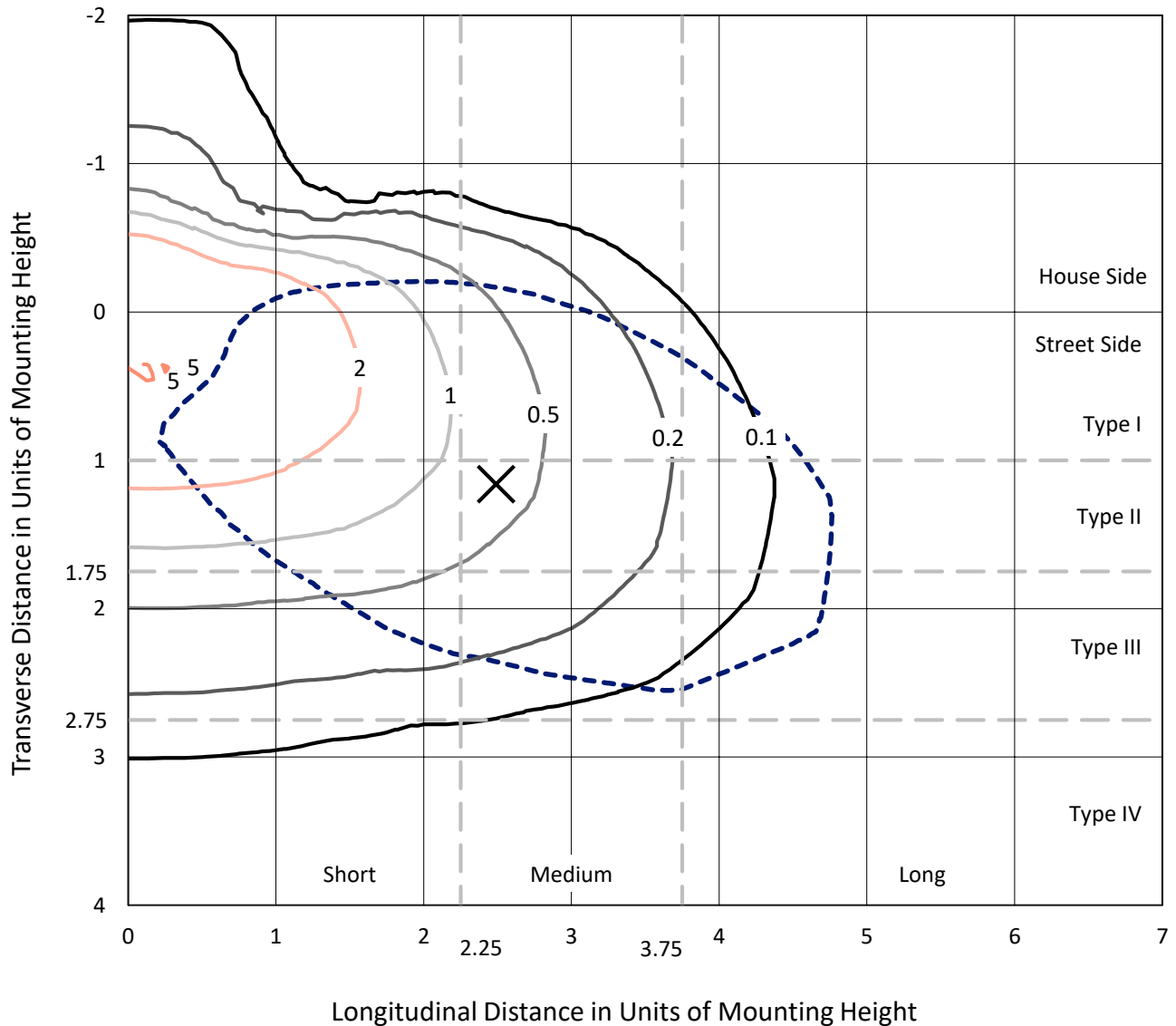
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

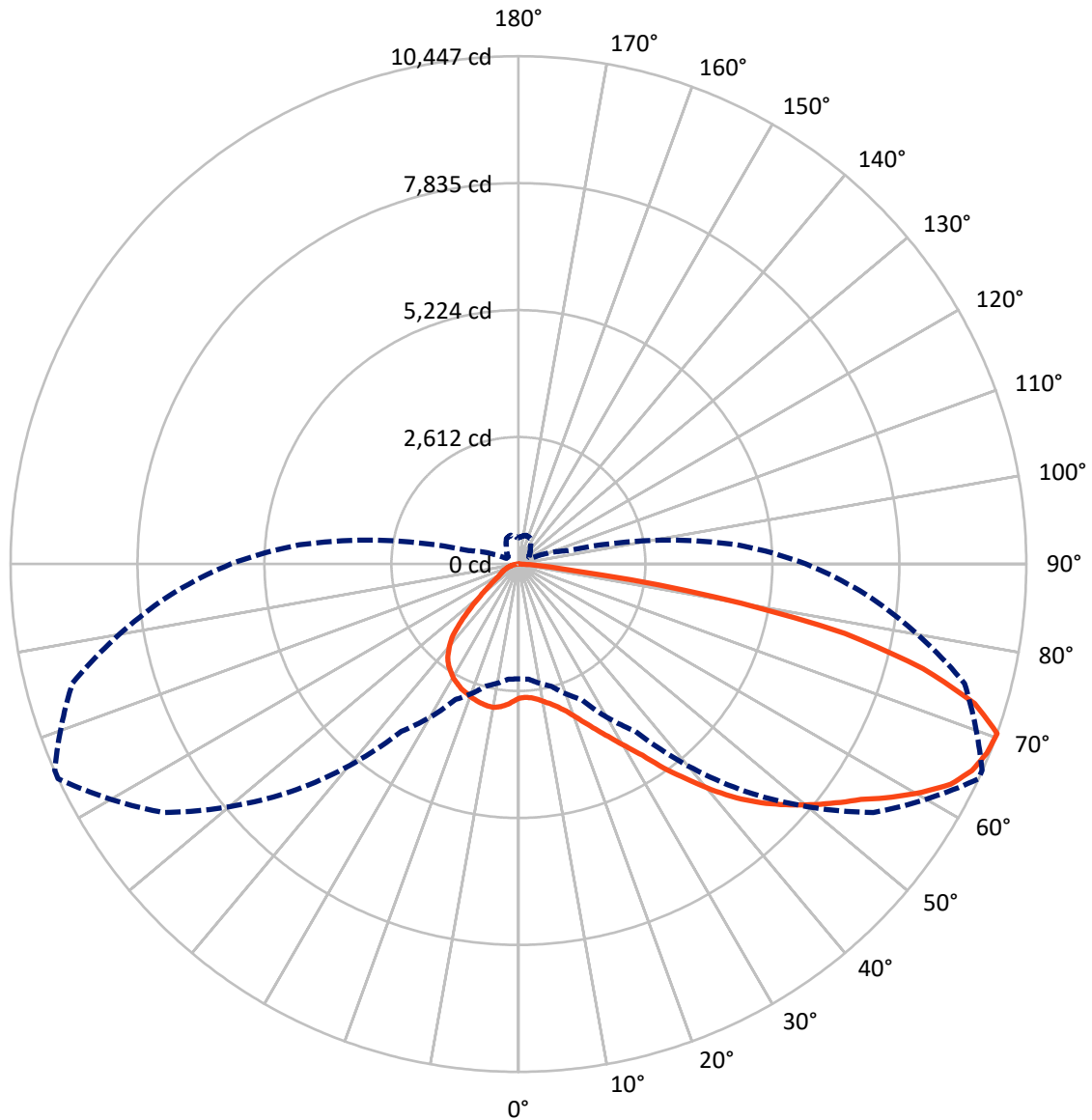
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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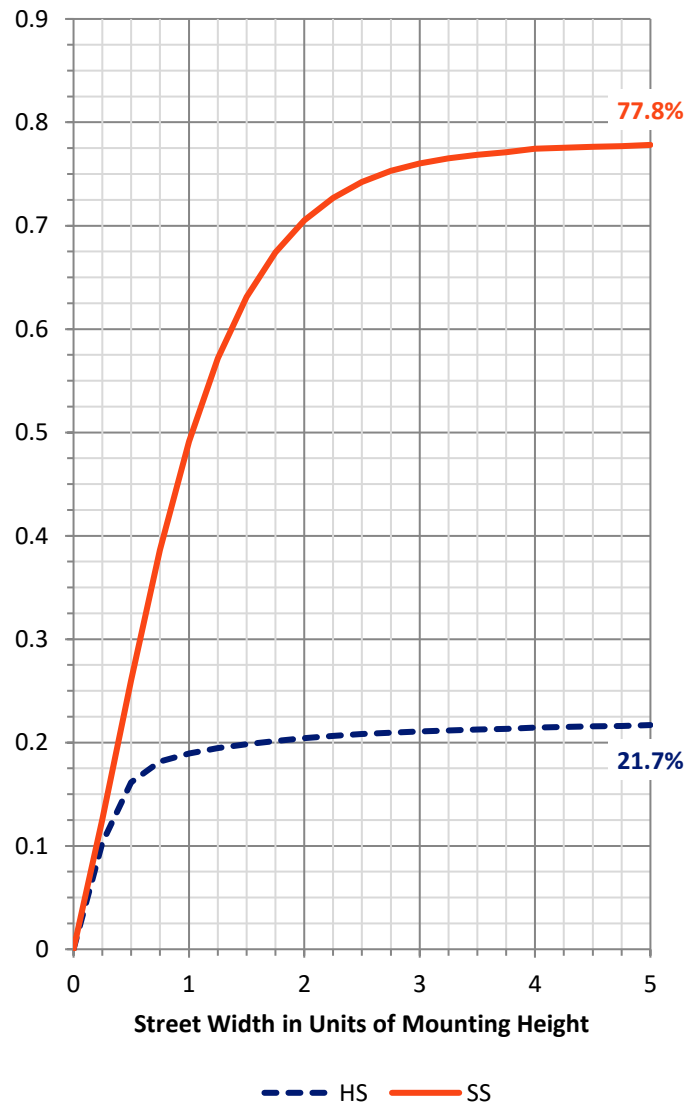
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3987.2	0.0	3987.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	14087.8	0.0	14087.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	18075.0	0.0	18075.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	1.5
10°-20°	874.9	4.8
20°-30°	1517.8	8.4
30°-40°	2206.9	12.2
40°-50°	2948.4	16.3
50°-60°	3591.5	19.9
60°-70°	3871.7	21.4
70°-80°	2510.1	13.9
80°-90°	276.8	1.5
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°	18075.0	100.0
0°-180°	18075.0	100.0



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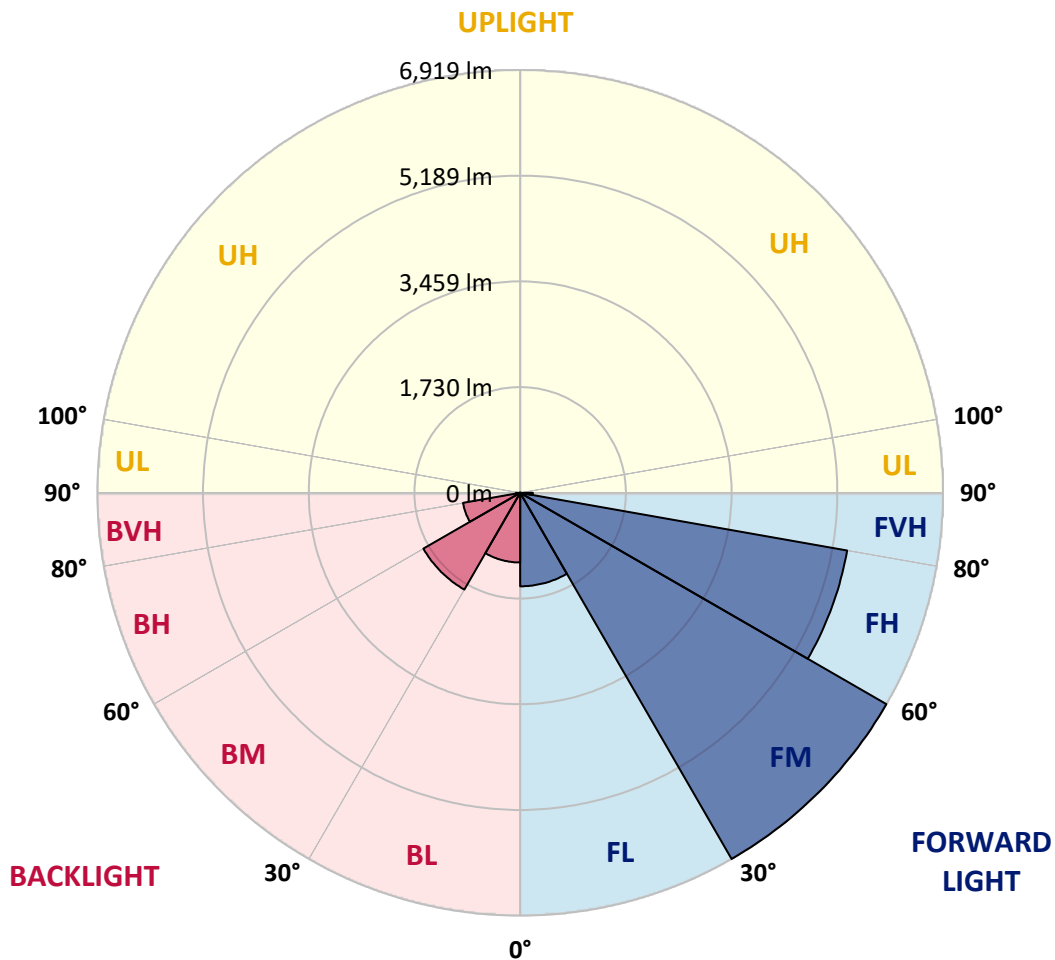
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.7	8.5			
FM (30°-60°)	6918.8	38.3			
FH (60°-80°)	5432.9	30.1			G3/7500
FVH (80°-90°)	206.5	1.1			G2/225
BL (0°-30°)	1139.9	6.3	B3/2500		
BM (30°-60°)	1828.0	10.1	B2/2500		
BH (60°-80°)	948.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	70.4	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5
2.5°	2718.8	2743.2	2730.2	2731.0	2749.8	2734.3	2744.9	2744.9	2744.1	2749.8	2766.9
5°	2785.6	2811.7	2796.2	2786.4	2790.5	2770.9	2766.9	2763.6	2761.2	2767.7	2796.2
7.5°	2883.4	2913.6	2896.5	2887.5	2882.6	2837.8	2829.6	2807.6	2805.2	2810.9	2837.0
10°	3013.0	3053.7	3033.4	3008.1	2991.0	2938.8	2897.3	2877.7	2872.0	2868.7	2895.6
12.5°	3199.6	3235.5	3211.9	3164.6	3141.8	3057.8	3008.1	2952.7	2951.9	2940.5	2960.8
15°	3376.5	3414.0	3383.8	3337.4	3307.2	3193.9	3120.6	3052.1	3044.0	3030.9	3037.4
17.5°	3547.6	3593.3	3572.1	3529.7	3493.0	3366.7	3270.5	3182.5	3173.5	3153.2	3123.0
20°	3760.3	3801.9	3796.2	3757.9	3717.1	3573.7	3468.6	3355.3	3345.5	3308.8	3241.2
22.5°	3973.0	4024.4	3992.6	3986.1	3963.3	3820.6	3673.9	3559.0	3549.3	3501.2	3377.3
25°	4173.5	4219.2	4230.6	4220.0	4222.4	4081.4	3935.6	3791.3	3781.5	3716.3	3537.0
27.5°	4410.7	4453.9	4457.1	4459.6	4488.1	4370.8	4199.6	4051.3	4044.8	3971.4	3744.0
30°	4592.4	4664.2	4678.8	4692.7	4707.3	4644.6	4488.9	4350.4	4337.3	4257.5	3977.1
32.5°	4758.7	4812.5	4864.6	4893.2	4959.2	4902.9	4775.0	4689.4	4690.2	4652.7	4348.8
35°	4887.5	4947.0	5013.0	5117.3	5213.5	5189.8	5149.9	5154.8	5155.6	5171.9	4850.0
37.5°	5010.5	5064.3	5147.4	5272.1	5441.6	5472.6	5499.5	5601.4	5637.2	5713.9	5312.9
40°	5084.7	5141.7	5249.3	5422.1	5642.1	5753.8	5835.3	6096.9	6158.8	6159.7	5670.7
42.5°	4976.3	5039.0	5231.4	5538.6	5823.1	6031.7	6246.0	6576.1	6620.9	6520.7	5976.3
45°	4879.3	4937.2	5144.2	5556.6	5964.9	6328.4	6626.6	7008.9	7041.5	6839.3	6258.3
47.5°	4785.6	4831.2	5070.8	5519.1	6109.9	6625.8	6951.0	7400.1	7423.7	7188.2	6533.7
50°	4656.0	4710.6	4964.9	5475.1	6197.1	6880.9	7268.8	7786.4	7783.1	7501.9	6783.1
52.5°	4514.2	4568.0	4841.0	5394.4	6254.2	7079.0	7630.7	8164.5	8167.0	7862.2	7030.1
55°	4335.7	4401.7	4689.4	5285.2	6268.0	7234.6	7944.5	8552.4	8592.4	8229.7	7268.0
57.5°	4122.2	4188.2	4502.8	5125.4	6185.7	7365.0	8279.4	9048.0	9069.1	8605.4	7445.7
60°	3873.6	3953.5	4254.2	4911.9	6028.4	7516.6	8685.3	9533.7	9541.0	8941.2	7594.0
62.5°	3585.9	3643.0	3959.2	4602.2	5777.4	7576.9	9021.1	9979.5	9981.1	9194.7	7660.9
65°	3274.6	3296.6	3561.5	4180.9	5411.5	7478.3	9149.8	10250.9	10243.5	9417.1	7627.4
67.5°	2903.8	2893.2	3176.0	3660.1	4948.6	7149.9	9087.1	10390.2	10412.2	9588.3	7519.9
70°	2361.0	2376.5	2601.4	3077.4	4201.2	6622.6	8914.3	10447.3	10441.6	9502.7	7173.5
72.5°	1792.2	1819.9	1982.9	2339.8	3260.8	5569.6	8174.3	9816.5	9827.9	8899.6	6550.0
75°	1108.4	1188.2	1326.0	1543.6	2043.2	3990.2	6957.5	8598.9	8656.8	7852.4	5393.6
77.5°	485.7	504.5	573.7	744.1	1068.4	2003.2	5143.4	6867.1	7038.2	6350.4	3890.7
80°	300.7	300.7	320.3	373.3	476.8	744.9	2061.1	4100.2	3926.6	3632.4	1716.4
82.5°	250.2	250.2	260.0	268.9	244.5	315.4	689.5	1149.1	1231.4	996.7	527.3
85°	136.1	139.4	140.2	142.6	140.2	170.3	271.4	339.8	343.9	311.3	187.4
87.5°	49.7	53.0	51.3	48.1	43.2	40.7	52.2	53.0	54.6	50.5	27.7
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°	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5	2759.5
2.5°	2778.3	2789.7	2819.8	2822.3	2833.7	2837.8	2847.6	2861.4	2885.9	2873.6	2859.8
5°	2810.1	2824.7	2872.8	2897.3	2929.1	2947.8	2978.8	2994.3	3031.7	3019.5	3017.9
7.5°	2858.1	2889.1	2932.3	2955.9	2997.5	3009.7	3032.6	3032.6	3063.5	3048.0	3044.0
10°	2923.3	2943.7	2989.4	2991.0	3014.6	3014.6	3041.5	3024.4	3054.6	3036.6	3035.8
12.5°	2975.5	2986.9	3004.0	2990.2	3002.4	2988.5	3002.4	2982.0	3000.8	2978.0	2973.1
15°	3034.2	3018.7	3001.6	2969.0	2958.4	2936.4	2925.0	2903.8	2905.4	2879.3	2875.3
17.5°	3100.2	3060.3	3010.6	2939.6	2900.5	2844.3	2820.7	2790.5	2773.4	2749.8	2760.4
20°	3180.1	3120.6	3017.1	2907.0	2823.9	2738.3	2682.9	2634.0	2630.0	2608.8	2597.4
22.5°	3283.6	3188.2	3045.6	2860.6	2726.9	2604.7	2522.4	2440.9	2432.7	2389.5	2373.2
25°	3411.5	3277.9	3060.3	2824.7	2613.7	2445.8	2316.2	2202.9	2148.3	2102.7	2092.1
27.5°	3583.5	3409.9	3089.6	2760.4	2480.0	2248.5	2062.7	1912.8	1847.6	1824.7	1801.1
30°	3784.8	3571.3	3144.2	2706.6	2321.9	1996.7	1770.1	1591.7	1520.8	1484.9	1473.5
32.5°	4081.4	3775.0	3194.7	2617.7	2130.4	1719.6	1424.6	1227.4	1184.2	1177.7	1193.1
35°	4513.4	4158.0	3268.1	2535.4	1905.4	1411.6	1085.6	956.8	947.8	949.5	949.5
37.5°	4963.3	4523.2	3485.7	2414.0	1630.0	1062.7	826.4	756.3	759.6	759.6	758.8
40°	5256.6	4816.6	3643.8	2242.0	1287.7	762.0	612.9	559.9	582.7	613.7	630.0
42.5°	5580.2	5083.1	3753.0	2044.0	895.7	538.7	445.8	464.5	531.4	578.6	585.2
45°	5855.7	5309.6	3765.2	1735.9	577.0	409.1	406.7	460.5	537.9	589.2	593.3
47.5°	6092.0	5515.8	3688.6	1383.8	420.5	382.2	406.7	474.3	544.4	576.2	579.5
50°	6321.0	5679.6	3508.5	1063.6	383.0	372.4	411.6	476.8	520.8	542.8	539.5
52.5°	6524.8	5828.8	3247.7	829.7	368.4	365.9	415.6	474.3	502.0	500.4	498.0
55°	6679.6	5872.8	3044.0	647.1	356.1	361.9	418.1	476.8	497.1	482.5	479.2
57.5°	6759.5	5818.2	2872.8	514.3	343.1	357.8	424.6	476.0	511.8	539.5	537.9
60°	6757.8	5756.2	2661.7	443.4	330.1	354.5	435.2	516.7	646.3	672.4	673.2
62.5°	6731.8	5650.3	2372.4	401.0	315.4	356.1	442.5	586.8	735.9	714.7	697.6
65°	6645.4	5451.4	1984.5	355.3	296.7	357.8	439.3	634.9	674.8	599.0	588.4
67.5°	6405.0	5066.8	1558.2	317.8	279.5	348.8	445.0	590.0	620.2	572.1	556.6
70°	5916.8	4524.8	1056.2	273.8	260.0	335.8	431.9	580.3	612.1	563.2	540.3
72.5°	5143.4	3631.6	617.8	235.5	231.5	308.9	425.4	586.8	621.8	567.2	537.9
75°	4003.2	2546.0	357.0	190.7	193.2	285.2	390.4	553.4	616.1	573.7	535.4
77.5°	2584.3	1236.3	251.8	152.4	150.8	224.9	317.0	484.1	593.3	579.5	547.7
80°	925.0	451.5	176.9	113.3	110.0	152.4	243.7	389.6	502.0	520.0	520.0
82.5°	332.5	226.6	113.3	69.3	68.5	97.0	181.7	295.8	364.3	410.8	422.2
85°	139.4	98.6	55.4	35.0	28.5	37.5	93.7	183.4	246.9	265.7	289.3
87.5°	20.4	17.9	14.7	11.4	9.8	9.8	12.2	53.0	88.0	126.3	156.5
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)