

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: P509821

Luminaire Tested: **VERD-M-CA3-150-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
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-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18035 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

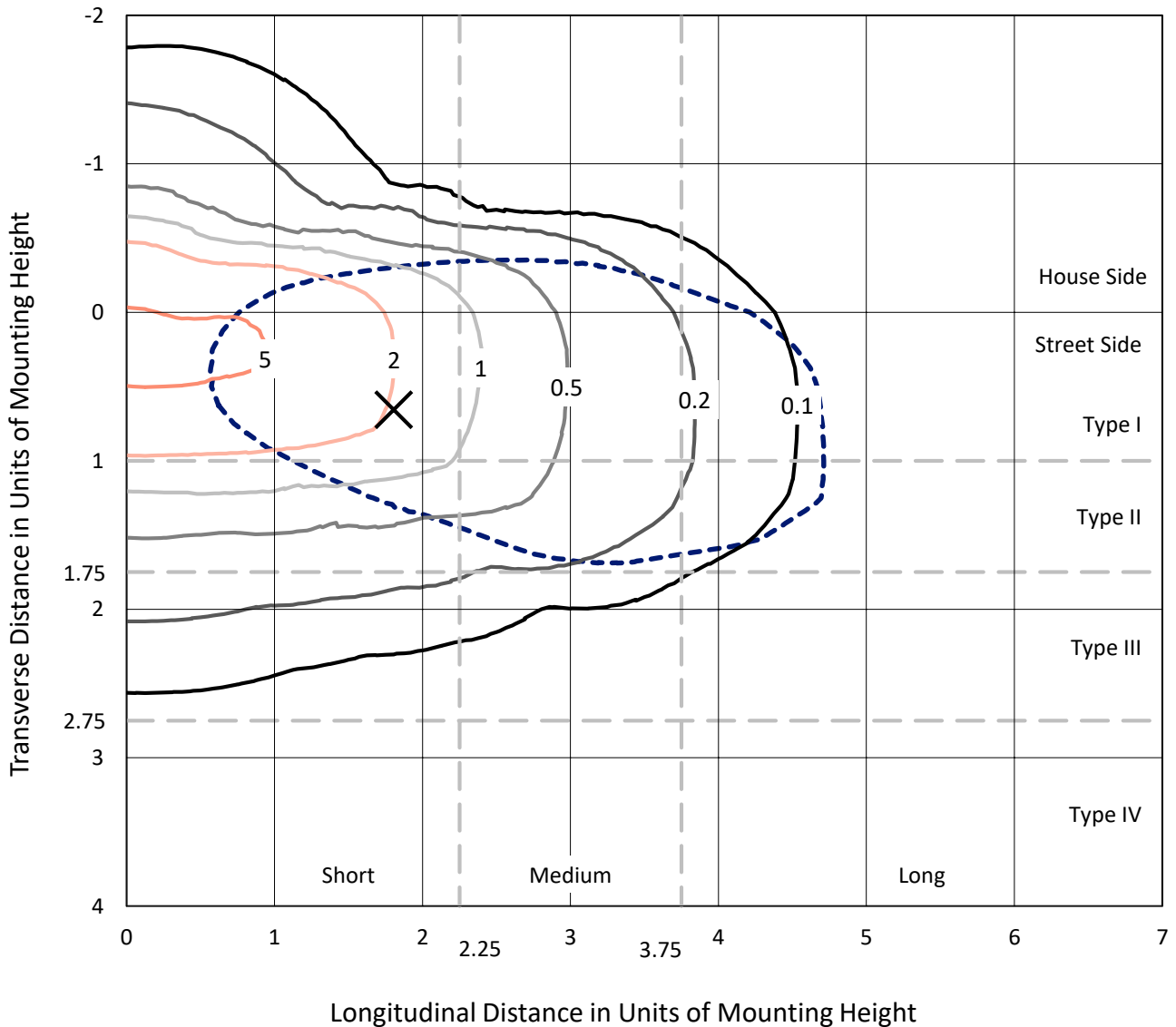
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

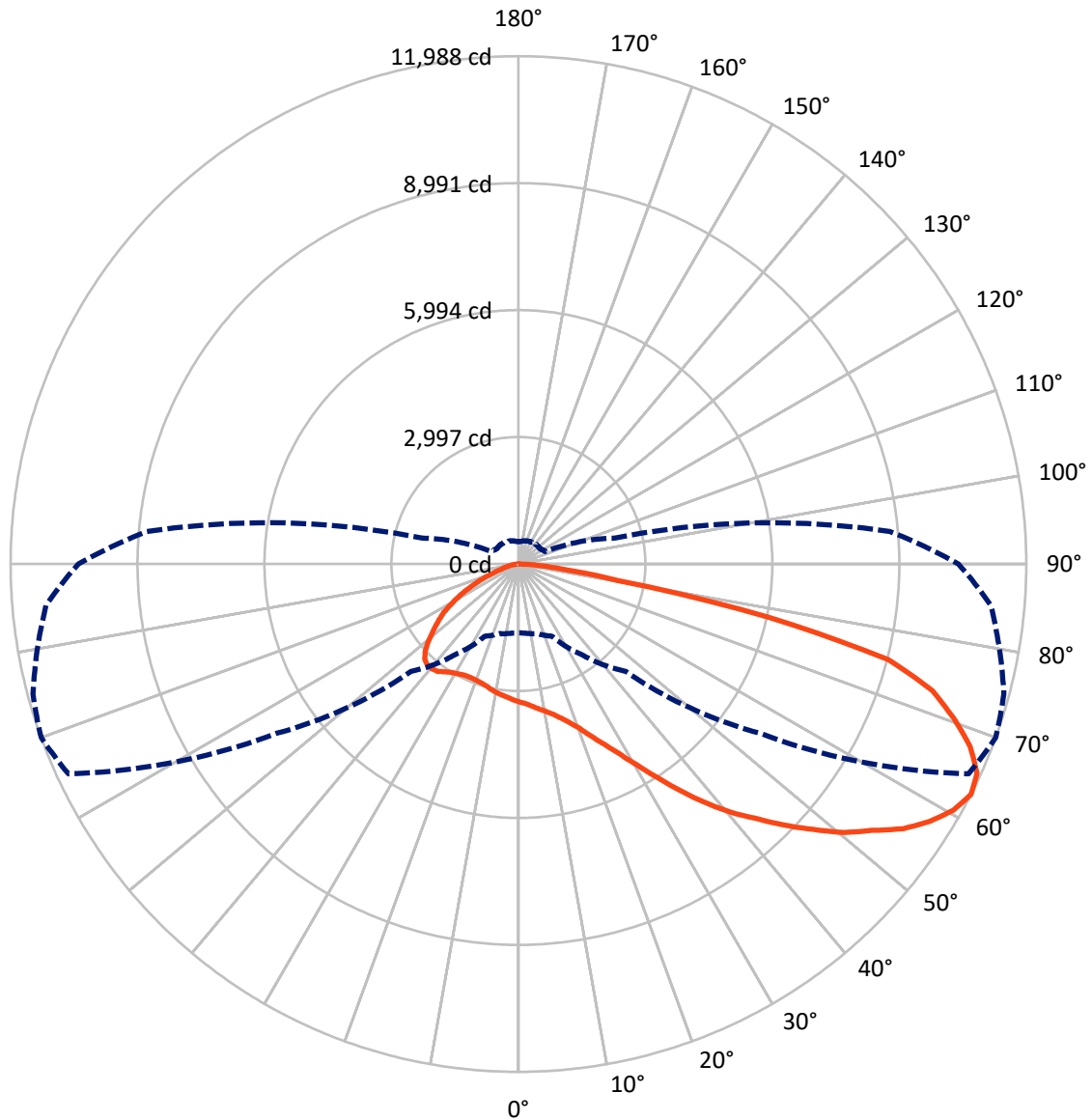
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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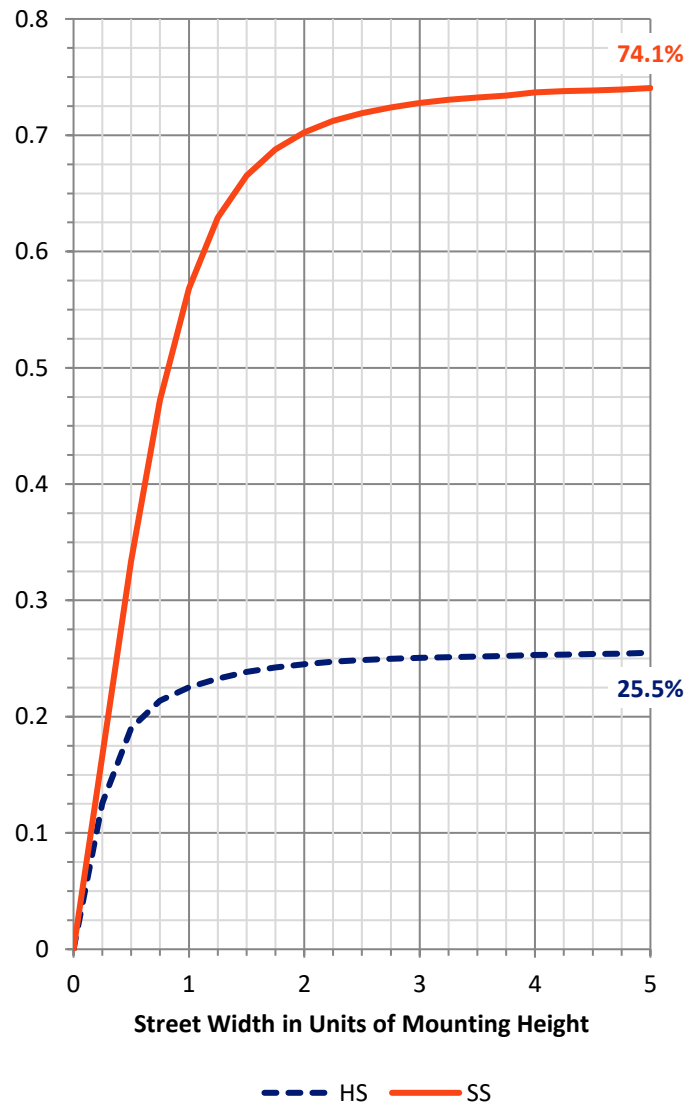
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4669.3	0.0	4669.3
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	13365.6	0.0	13365.6
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	18035.0	0.0	18035.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.6	1.7
10°-20°	949.5	5.3
20°-30°	1611.4	8.9
30°-40°	2331.6	12.9
40°-50°	3059.6	17.0
50°-60°	3575.1	19.8
60°-70°	3587.7	19.9
70°-80°	2286.2	12.7
80°-90°	321.3	1.8
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°	18035.0	100.0
0°-180°	18035.0	100.0



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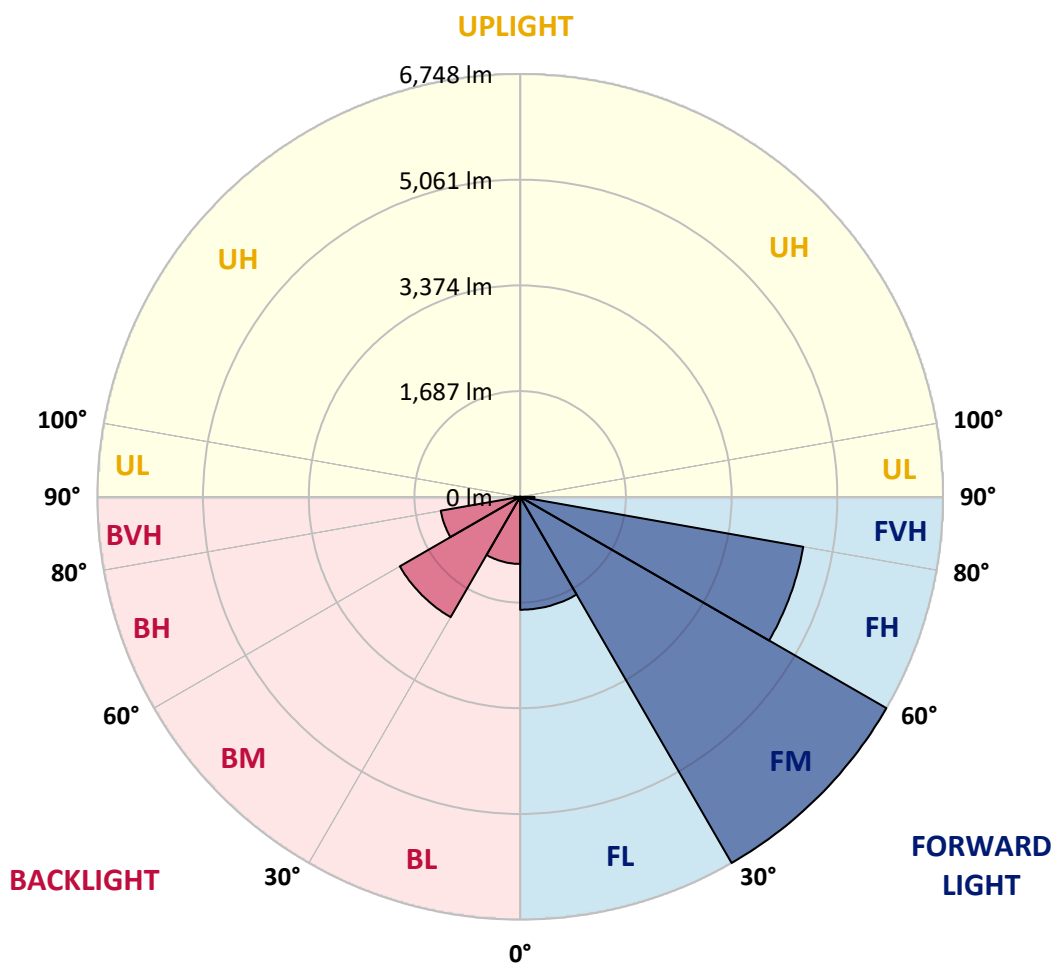
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.6	10.0			
FM (30°-60°)	6748.5	37.4			
FH (60°-80°)	4587.9	25.4			G2/5000
FVH (80°-90°)	226.6	1.3			G3/500
BL (0°-30°)	1070.9	5.9	B3/2500		
BM (30°-60°)	2217.8	12.3	B2/2500		
BH (60°-80°)	1286.0	7.1	B3/2500		G3/2500
BVH (80°-90°)	94.7	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1
2.5°	3379.8	3415.6	3410.7	3388.7	3404.2	3361.8	3346.3	3322.7	3298.3	3290.1	3276.3
5°	3539.5	3586.8	3577.8	3548.5	3547.6	3487.3	3453.1	3408.3	3370.8	3341.5	3298.3
7.5°	3688.6	3743.2	3735.1	3706.6	3704.9	3635.7	3564.8	3494.7	3451.5	3414.0	3334.9
10°	3846.8	3888.3	3881.0	3844.3	3837.0	3769.3	3686.2	3598.2	3534.6	3482.5	3370.0
12.5°	3992.6	4036.6	4039.9	3994.3	3982.9	3910.3	3837.8	3721.2	3638.9	3579.4	3414.0
15°	4128.7	4180.9	4171.1	4125.5	4113.3	4039.9	3969.0	3861.4	3775.8	3692.7	3485.7
17.5°	4237.9	4287.7	4275.4	4255.1	4248.5	4191.5	4132.8	4016.3	3940.5	3833.7	3596.5
20°	4312.9	4359.4	4364.3	4358.6	4396.1	4342.3	4309.7	4227.4	4144.2	4048.1	3748.1
22.5°	4342.3	4397.7	4445.0	4481.6	4559.1	4550.9	4545.2	4497.9	4416.4	4276.3	3948.6
25°	4351.2	4406.6	4480.0	4570.5	4709.0	4758.7	4794.6	4806.0	4717.2	4606.3	4198.0
27.5°	4352.9	4412.4	4487.3	4633.2	4844.3	4994.3	5079.8	5119.8	5070.1	4982.0	4537.0
30°	4318.6	4379.8	4475.9	4670.7	4950.2	5196.4	5338.2	5515.0	5493.8	5419.7	4961.7
32.5°	4220.0	4275.4	4408.3	4664.2	5055.4	5403.4	5624.2	5930.7	6002.4	5954.3	5451.5
35°	4043.2	4110.8	4282.8	4610.4	5112.4	5604.7	5960.8	6437.6	6567.2	6570.4	6052.1
37.5°	3864.7	3916.0	4118.1	4509.3	5144.2	5783.2	6280.3	6945.3	7133.6	7137.7	6551.7
40°	3674.8	3722.1	3944.5	4374.0	5111.6	5923.3	6577.8	7433.5	7703.3	7678.0	7042.3
42.5°	3428.7	3480.8	3701.7	4189.9	5030.1	6031.7	6880.1	7946.1	8205.3	8233.8	7554.1
45°	3218.4	3260.0	3453.1	3902.2	4881.0	6090.4	7163.8	8493.0	8789.7	8759.5	8100.2
47.5°	2959.2	3021.2	3227.4	3668.3	4612.8	6075.7	7435.2	9034.2	9364.2	9336.5	8573.7
50°	2282.8	2354.5	2833.7	3423.0	4270.5	5960.8	7681.3	9551.7	9961.6	9889.1	9074.9
52.5°	2073.3	2093.7	2284.4	3141.0	3933.1	5700.0	7862.2	10205.3	10448.2	10419.6	9582.6
55°	1945.4	1984.5	2071.7	2587.6	3630.0	5276.2	7987.7	10751.3	11025.2	10891.5	10042.3
57.5°	1832.9	1860.6	1964.1	2215.1	3281.1	4692.7	7951.0	11211.8	11456.3	11269.7	10491.4
60°	1713.1	1731.0	1834.5	2022.0	2904.6	4048.1	7578.6	11687.0	11795.3	11624.2	10871.1
62.5°	1620.2	1637.3	1699.3	1879.4	2611.2	3586.8	6969.0	11720.4	11987.7	11863.0	11193.9
65°	1501.2	1512.6	1590.0	1731.9	2339.0	3312.1	6431.9	11406.6	11894.8	11863.8	11317.8
67.5°	1370.0	1383.9	1457.2	1557.4	1991.0	2988.6	5533.8	11237.1	11501.9	11532.1	11085.5
70°	1216.0	1225.7	1301.5	1374.1	1703.3	2623.5	4399.3	10587.5	10896.4	10895.6	10368.3
72.5°	1049.7	1048.9	1123.9	1200.5	1427.0	2203.7	3444.1	9400.1	10217.5	10156.4	9347.9
75°	865.5	877.7	950.3	1010.6	1187.4	1786.5	2398.5	6809.2	9020.3	9104.2	8067.6
77.5°	553.4	561.5	602.3	664.2	830.5	1365.1	1564.8	3784.0	6022.8	7264.8	6350.4
80°	404.2	408.3	444.2	480.0	552.6	831.3	795.4	1644.6	2387.1	3566.4	3895.7
82.5°	275.5	276.3	304.8	313.0	317.0	374.9	377.3	800.3	1136.9	1339.0	1720.4
85°	182.6	151.6	118.2	156.5	160.6	137.7	134.5	361.0	564.0	676.4	637.3
87.5°	40.7	39.9	46.5	47.3	45.6	39.1	32.6	55.4	84.8	83.9	107.6
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°	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1
2.5°	3263.2	3259.1	3236.3	3188.2	3155.6	3122.2	3103.5	3092.1	3096.1	3077.4	3069.3
5°	3271.4	3251.0	3186.6	3129.6	3078.2	3020.4	2972.3	2965.7	2975.5	2958.4	2948.6
7.5°	3292.6	3249.4	3167.0	3069.3	2983.7	2929.1	2859.8	2824.8	2822.3	2805.2	2808.5
10°	3304.8	3248.5	3138.5	3020.4	2920.1	2823.1	2749.0	2709.8	2707.4	2682.9	2677.2
12.5°	3338.2	3257.5	3105.1	2960.9	2849.2	2719.6	2641.4	2605.5	2601.4	2567.2	2554.2
15°	3389.5	3277.9	3070.1	2891.6	2747.3	2625.9	2532.2	2484.1	2476.8	2436.8	2423.0
17.5°	3471.0	3335.8	3059.5	2828.8	2658.5	2525.7	2415.6	2363.5	2321.1	2299.1	2280.3
20°	3581.1	3407.5	3071.7	2770.1	2546.8	2393.6	2256.7	2188.2	2158.9	2123.0	2125.5
22.5°	3737.5	3519.9	3092.9	2724.5	2445.8	2252.6	2098.6	2022.0	1969.0	1938.9	1940.5
25°	3957.6	3689.5	3134.5	2681.3	2335.8	2098.6	1916.9	1810.1	1756.3	1736.7	1716.4
27.5°	4235.5	3892.4	3233.1	2628.3	2205.4	1924.2	1722.9	1598.2	1543.6	1514.3	1510.2
30°	4592.5	4158.9	3348.8	2589.2	2068.4	1706.6	1482.5	1383.9	1335.8	1294.2	1274.6
32.5°	5027.7	4535.4	3477.6	2550.1	1898.9	1462.9	1260.0	1184.2	1107.6	1054.6	1057.0
35°	5533.0	4945.4	3669.1	2500.4	1700.1	1235.5	1095.3	997.5	925.8	890.8	874.5
37.5°	6009.7	5365.9	3894.0	2449.9	1477.6	1088.0	933.2	842.7	787.3	760.4	766.1
40°	6492.2	5799.5	4088.0	2326.0	1228.2	954.4	772.6	721.3	699.3	678.1	680.5
42.5°	6924.2	6145.0	4229.8	2188.2	1053.8	801.1	658.5	669.9	683.0	670.7	667.5
45°	7374.0	6549.3	4354.5	1953.5	907.9	680.5	630.0	661.8	690.3	688.7	684.6
47.5°	7825.5	6924.2	4366.7	1642.2	775.1	639.8	629.2	652.8	690.3	696.8	691.9
50°	8290.9	7317.0	4295.0	1275.5	718.8	644.7	630.0	634.1	675.6	683.0	680.5
52.5°	8806.8	7741.6	4118.1	969.8	696.8	652.8	632.4	626.7	650.4	663.4	665.8
55°	9281.1	8079.0	3786.4	856.6	680.5	653.6	650.4	631.6	632.4	625.9	642.2
57.5°	9679.6	8400.9	3409.9	794.6	665.8	646.3	658.5	623.5	613.7	586.8	580.3
60°	10092.0	8662.5	2880.2	752.2	648.7	637.3	638.1	609.6	585.2	546.0	534.6
62.5°	10384.6	8801.1	2365.9	702.5	625.1	623.5	611.2	590.1	568.0	533.8	528.9
65°	10469.4	8727.7	1817.4	650.4	594.1	600.6	578.6	549.3	458.0	415.6	415.6
67.5°	10189.0	8276.2	1345.5	590.1	556.6	569.7	526.5	432.8	385.5	360.2	364.3
70°	9420.5	7546.8	876.1	502.0	502.8	513.4	434.4	389.6	344.7	329.3	337.4
72.5°	8393.6	6465.3	577.8	400.2	423.8	405.9	396.9	358.6	318.7	300.7	306.4
75°	6916.8	5105.1	401.0	314.6	274.7	346.4	352.9	301.5	270.6	328.4	341.5
77.5°	5464.5	3548.5	330.9	220.0	202.9	255.9	282.8	279.5	447.4	525.7	520.0
80°	3249.4	2043.2	269.8	152.4	143.4	164.6	222.5	321.1	501.2	376.5	358.6
82.5°	1473.5	929.1	143.4	79.9	93.7	109.2	166.3	399.3	328.4	241.2	227.4
85°	575.4	303.2	57.0	35.0	32.6	40.7	75.8	192.3	132.0	106.8	106.8
87.5°	74.2	54.6	16.3	12.2	10.6	13.0	24.4	106.8	61.9	52.2	50.5
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)