

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: P509453

Luminaire Tested: **VERD-G-CA2-100-730-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-100-730-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14974 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

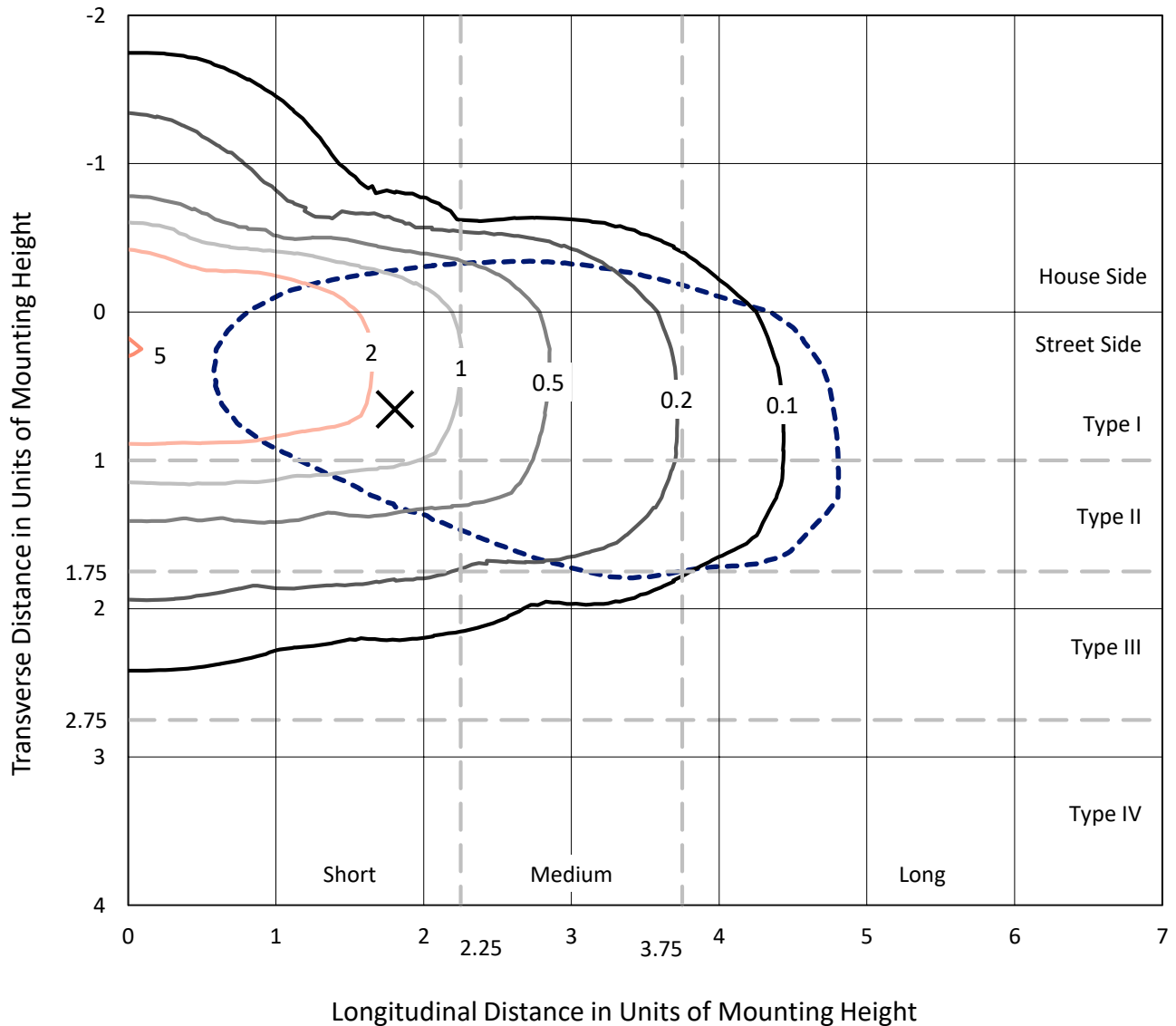
Input Watts (W): 102.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

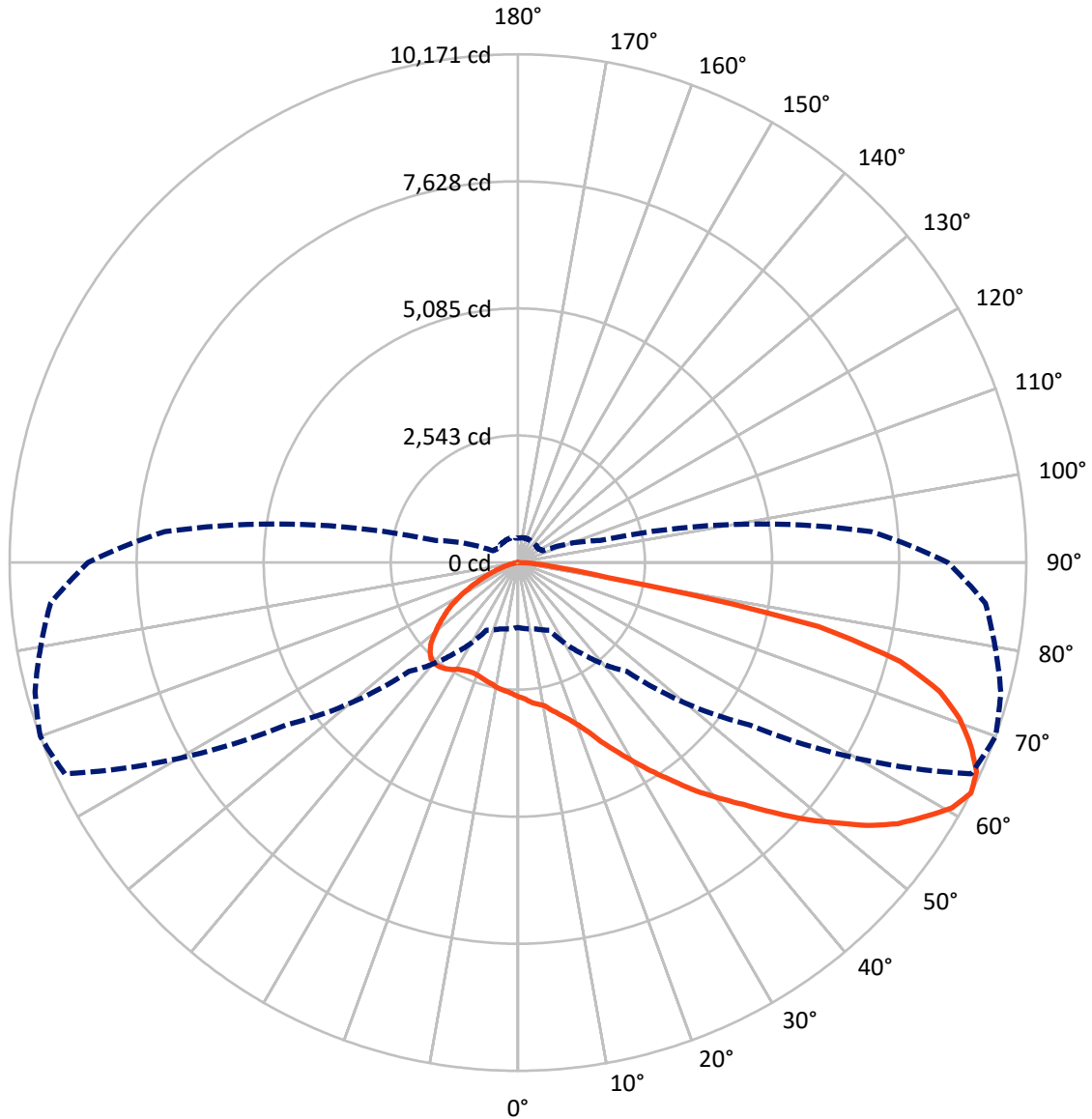
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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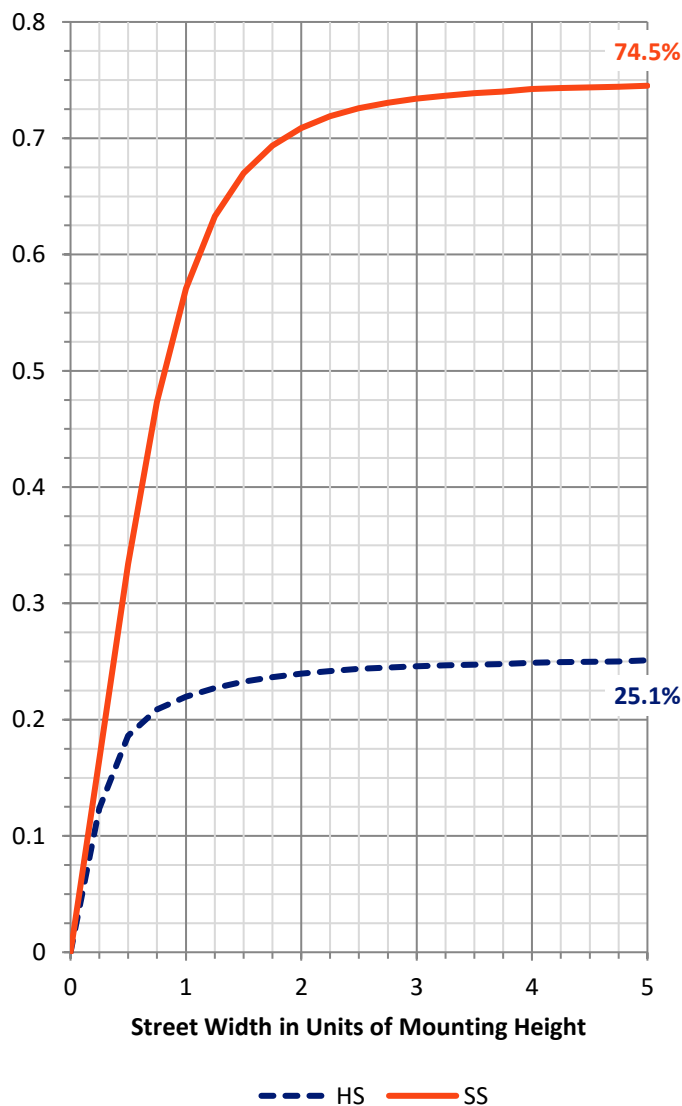
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3826.4	0.0	3826.4
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	11147.6	0.0	11147.6
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	14974.0	0.0	14974.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	1.7
10°-20°	789.4	5.3
20°-30°	1341.9	9.0
30°-40°	1930.9	12.9
40°-50°	2505.8	16.7
50°-60°	2937.4	19.6
60°-70°	3012.3	20.1
70°-80°	1976.6	13.2
80°-90°	220.2	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°	14974.0	100.0
0°-180°	14974.0	100.0

**Coefficient of Utilization**



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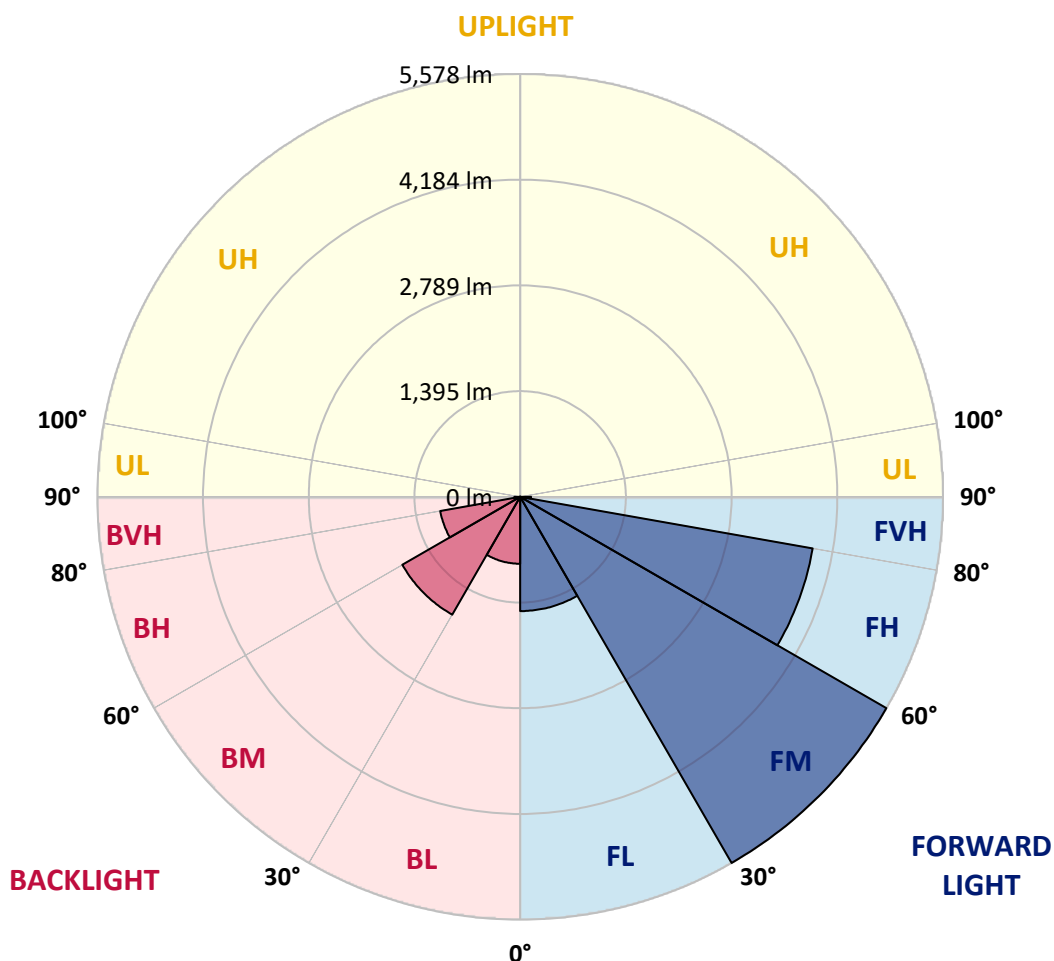
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.2	10.1			
FM (30°-60°)	5578.2	37.3			
FH (60°-80°)	3918.6	26.2			G2/5000
FVH (80°-90°)	143.6	1.0			G2/225
BL (0°-30°)	883.6	5.9	B2/1000		
BM (30°-60°)	1795.8	12.0	B2/2500		
BH (60°-80°)	1070.4	7.1	B3/2500		G3/2500
BVH (80°-90°)	76.6	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°	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5
2.5°	2860.3	2871.1	2853.4	2836.7	2820.0	2810.2	2793.5	2746.4	2729.7	2714.9	2685.5
5°	3008.5	3023.3	2997.7	2944.7	2931.9	2890.7	2868.1	2827.9	2811.2	2785.6	2736.5
7.5°	3182.3	3184.3	3148.0	3131.3	3089.0	3033.1	2961.4	2887.8	2863.2	2836.7	2774.8
10°	3283.5	3304.1	3268.7	3216.7	3187.2	3137.2	3061.6	2964.3	2910.3	2863.2	2794.5
12.5°	3425.8	3430.7	3373.8	3344.3	3305.1	3242.2	3168.6	3084.1	3031.1	2943.7	2819.0
15°	3529.9	3532.9	3481.8	3450.4	3413.1	3375.8	3296.2	3207.9	3155.8	3068.4	2878.9
17.5°	3604.5	3617.3	3585.9	3563.3	3524.0	3497.5	3434.7	3365.0	3297.2	3218.7	3003.6
20°	3686.0	3692.9	3635.0	3644.8	3637.9	3626.1	3596.7	3530.9	3475.9	3371.8	3103.8
22.5°	3708.6	3696.8	3712.6	3750.8	3769.5	3783.2	3774.4	3759.7	3709.6	3580.0	3293.3
25°	3675.2	3690.0	3727.3	3810.7	3914.8	3976.7	4020.9	4031.7	4016.9	3893.2	3546.6
27.5°	3666.4	3659.5	3720.4	3862.8	4037.6	4181.9	4269.3	4351.8	4314.5	4236.9	3832.3
30°	3629.1	3626.1	3733.2	3879.5	4104.3	4372.4	4528.5	4667.9	4650.3	4571.7	4167.2
32.5°	3537.8	3557.4	3639.9	3893.2	4206.4	4557.0	4747.5	4976.3	5002.8	4944.8	4505.9
35°	3419.9	3426.8	3558.4	3856.9	4286.0	4719.0	4995.9	5314.0	5375.9	5373.9	4886.9
37.5°	3270.7	3310.0	3450.4	3766.6	4320.3	4867.3	5234.5	5673.4	5797.1	5778.5	5267.9
40°	3121.4	3146.0	3311.9	3651.7	4323.3	4966.4	5436.8	6057.3	6194.8	6197.7	5701.9
42.5°	2897.6	2938.8	3112.6	3500.5	4257.5	5050.9	5638.0	6459.9	6616.0	6638.6	6104.5
45°	2711.0	2724.8	2878.9	3265.8	4115.1	5096.0	5861.9	6872.3	7124.6	7106.0	6454.0
47.5°	2469.5	2523.5	2686.5	3043.9	3892.2	5103.9	6056.3	7351.5	7663.7	7620.5	6930.2
50°	1910.8	1970.7	2414.5	2843.6	3610.4	5014.5	6212.5	7921.0	8175.3	8129.1	7335.7
52.5°	1684.9	1714.4	1894.1	2609.9	3317.8	4801.5	6337.2	8461.0	8738.9	8596.5	7810.0
55°	1588.7	1602.5	1684.0	2134.6	3059.6	4451.9	6408.8	9066.8	9223.0	9011.8	8251.9
57.5°	1484.6	1517.0	1558.3	1798.8	2771.9	3967.8	6364.7	9569.6	9595.1	9385.0	8628.9
60°	1386.4	1400.2	1485.6	1612.3	2441.0	3468.1	6115.3	9882.8	9973.1	9714.9	9082.5
62.5°	1299.0	1323.6	1373.7	1492.5	2220.1	3079.2	5671.4	10003.6	10170.5	10002.6	9388.9
65°	1216.6	1224.4	1281.4	1389.4	1975.6	2887.8	5415.2	9813.1	10084.1	10057.6	9523.4
67.5°	1119.4	1128.2	1178.3	1252.9	1670.2	2674.7	4747.5	9544.0	9771.8	9862.2	9446.8
70°	992.7	999.6	1058.5	1102.7	1400.2	2360.5	3986.5	9131.6	9378.1	9294.6	8932.3
72.5°	847.4	858.2	905.3	960.3	1164.5	1990.3	3122.4	8268.6	8833.1	8778.2	8168.4
75°	684.4	701.1	739.4	805.2	946.5	1580.9	2210.2	6690.6	7896.4	7978.9	7049.0
77.5°	324.0	340.7	375.1	430.1	573.4	1102.7	1209.7	3771.5	6149.6	6660.2	5675.4
80°	106.0	108.0	254.3	290.6	364.3	679.5	493.9	1230.3	1821.4	3080.2	3052.7
82.5°	56.9	61.9	137.5	168.9	182.6	182.6	144.3	543.0	766.9	937.7	1086.0
85°	30.4	31.4	48.1	57.9	62.8	50.1	37.3	223.9	359.4	448.7	444.8
87.5°	12.8	13.7	14.7	12.8	10.8	6.9	4.9	3.9	3.9	3.9	3.9
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°	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5	2687.5
2.5°	2670.8	2657.0	2650.1	2621.7	2590.2	2556.9	2530.3	2531.3	2551.9	2567.7	2566.7
5°	2701.2	2666.8	2624.6	2557.8	2530.3	2505.8	2476.3	2437.1	2449.8	2465.5	2477.3
7.5°	2717.9	2673.7	2616.8	2517.6	2472.4	2419.4	2391.9	2340.8	2319.2	2334.9	2334.9
10°	2712.0	2666.8	2568.6	2496.0	2407.6	2324.1	2269.2	2256.4	2237.7	2234.8	2233.8
12.5°	2751.3	2684.5	2539.2	2432.2	2351.6	2244.6	2185.7	2173.9	2177.8	2153.3	2157.2
15°	2789.6	2714.0	2513.7	2402.7	2278.0	2152.3	2105.2	2062.0	2081.6	2061.0	2065.9
17.5°	2858.3	2767.0	2499.9	2343.8	2183.7	2074.7	1990.3	1941.2	1939.2	1936.3	1928.4
20°	2936.9	2810.2	2497.9	2292.7	2107.1	1977.5	1856.8	1802.8	1763.5	1777.2	1778.2
22.5°	3079.2	2891.7	2518.6	2245.6	2000.1	1854.8	1731.1	1648.6	1601.5	1609.3	1610.3
25°	3281.5	3062.5	2572.6	2205.3	1910.8	1712.4	1590.7	1486.6	1429.6	1430.6	1446.3
27.5°	3575.1	3266.8	2659.0	2171.0	1815.5	1577.9	1412.9	1310.8	1249.0	1248.0	1258.8
30°	3865.7	3522.1	2782.7	2121.9	1694.8	1397.2	1210.7	1129.2	1090.9	1065.4	1071.2
32.5°	4153.4	3796.0	2943.7	2096.3	1553.4	1184.2	1028.0	972.1	924.0	876.8	881.7
35°	4479.4	4053.3	3105.7	2045.3	1383.5	1007.4	898.4	821.8	760.0	735.4	730.5
37.5°	4862.4	4352.7	3217.7	2002.1	1182.2	888.6	756.1	699.1	658.9	632.3	628.4
40°	5200.1	4604.1	3341.4	1901.0	988.8	781.6	631.4	600.9	596.0	575.4	572.4
42.5°	5541.8	4912.4	3425.8	1768.4	856.2	645.1	540.0	557.7	585.2	572.4	572.4
45°	5890.4	5234.5	3442.5	1570.1	729.5	545.9	517.5	550.8	589.1	592.1	591.1
47.5°	6272.4	5520.2	3474.9	1286.3	639.2	520.4	513.5	541.0	590.1	607.8	603.9
50°	6705.4	5829.5	3384.6	980.9	585.2	523.4	517.5	530.2	583.2	602.9	596.0
52.5°	7126.6	6127.0	3235.3	748.2	550.8	526.3	538.1	528.3	566.6	586.2	594.0
55°	7517.4	6455.0	2919.2	665.7	527.3	522.4	554.8	537.1	550.8	556.7	567.5
57.5°	7913.1	6696.5	2583.4	624.5	514.5	517.5	545.0	537.1	545.9	539.1	530.2
60°	8284.3	6950.8	2150.4	586.2	500.8	514.5	525.3	523.4	529.2	516.5	510.6
62.5°	8599.4	7088.3	1697.7	552.8	489.0	500.8	498.8	508.6	509.6	494.9	490.9
65°	8743.8	7147.2	1296.1	522.4	471.3	483.1	473.3	475.2	476.2	456.6	455.6
67.5°	8597.5	6823.2	888.6	477.2	452.7	467.4	448.7	445.8	438.9	419.3	420.3
70°	8170.4	6282.2	593.1	412.4	412.4	437.9	427.1	420.3	403.6	384.9	390.8
72.5°	7216.0	5363.1	384.9	332.9	362.3	403.6	398.6	388.8	349.6	296.5	298.5
75°	6172.2	4256.5	256.3	242.5	276.9	349.6	331.9	308.3	292.6	309.3	329.9
77.5°	4806.4	2714.0	143.4	139.4	164.0	245.5	276.9	281.8	398.6	473.3	468.4
80°	2495.0	1378.6	83.5	68.7	97.2	165.0	218.0	296.5	494.9	373.1	361.3
82.5°	980.9	516.5	51.1	36.3	43.2	67.8	144.3	426.1	375.1	188.5	180.7
85°	335.8	116.8	20.6	18.7	20.6	28.5	56.9	382.0	194.4	119.8	113.9
87.5°	3.9	3.9	4.9	5.9	6.9	6.9	15.7	181.7	90.3	56.0	54.0
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)