

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: P509543

Luminaire Tested: **VERD-G-CA2-120-727-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-120-727-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1120mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14986 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

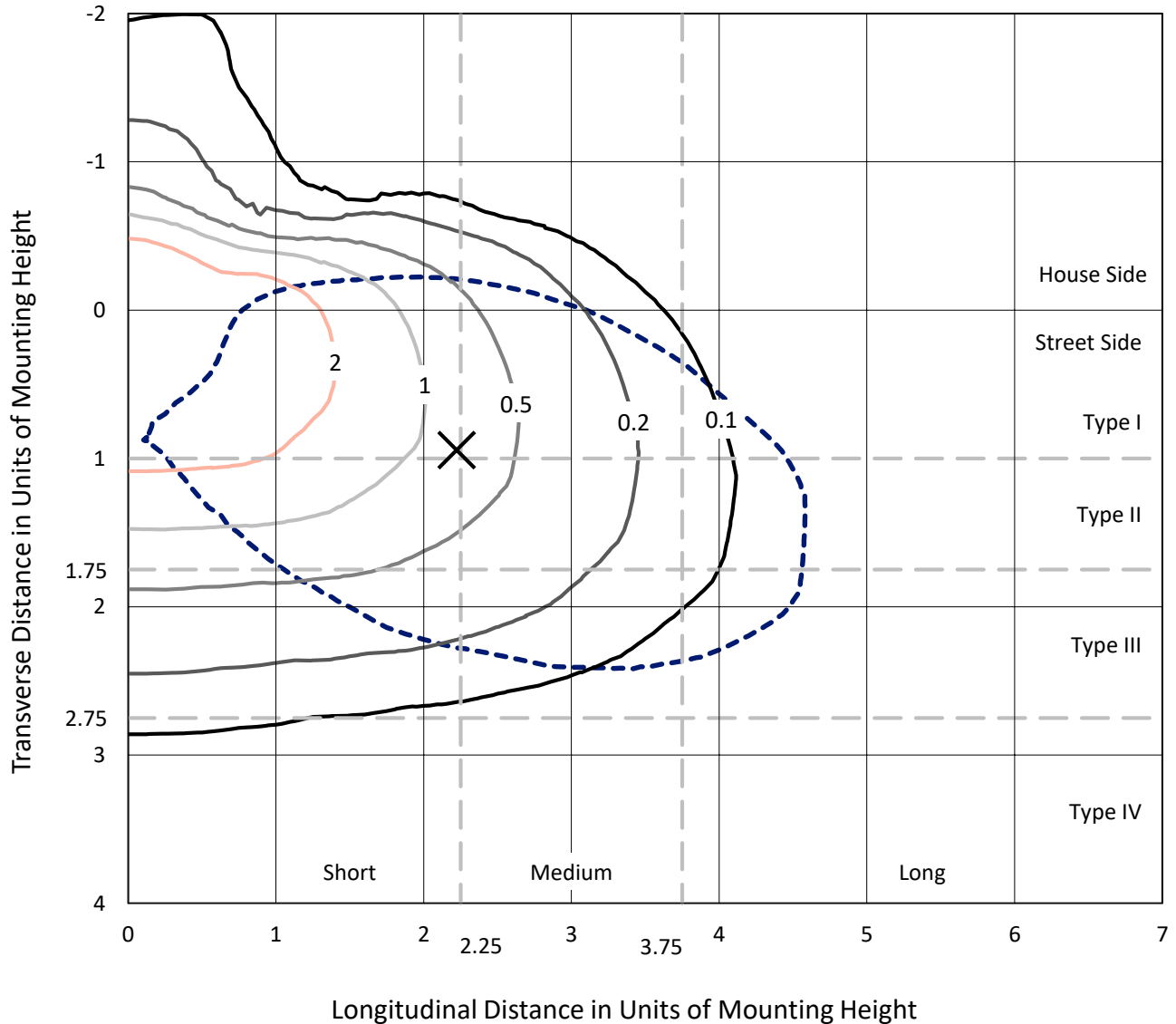
Input Watts (W): 124.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509543
 CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

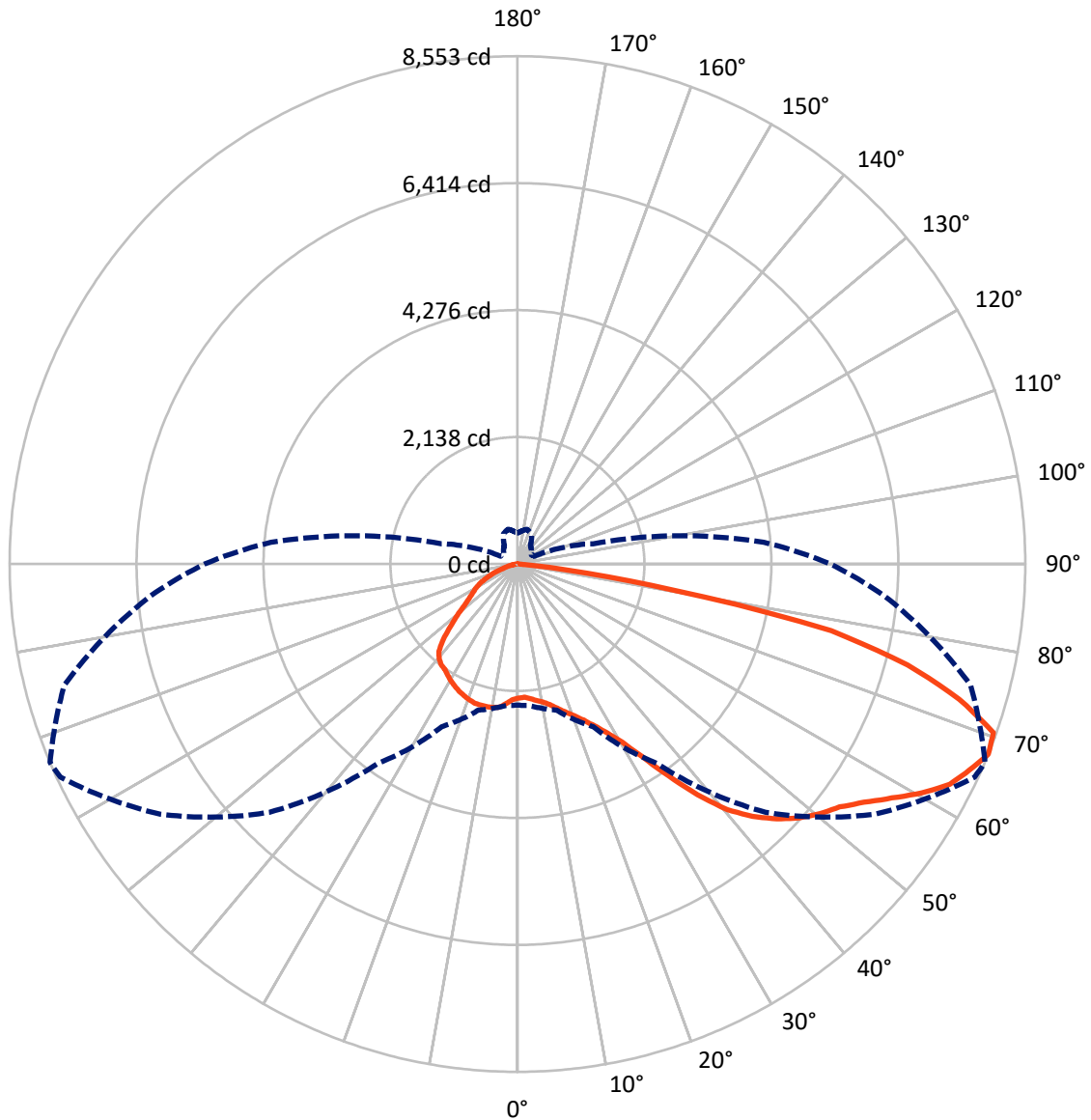
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

REPORT NUMBER: P509543
CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509543

CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

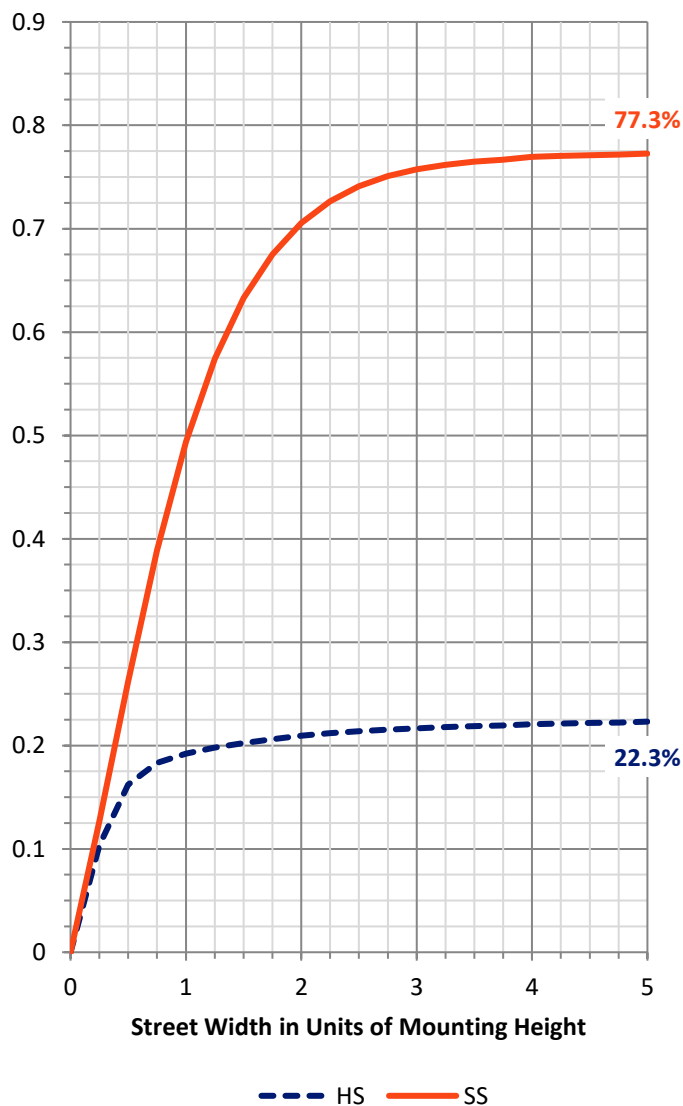
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3400.4	0.0	3400.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11585.6	0.0	11585.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	14986.0	0.0	14986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	1.5
10°-20°	724.3	4.8
20°-30°	1242.3	8.3
30°-40°	1848.9	12.3
40°-50°	2527.8	16.9
50°-60°	3036.4	20.3
60°-70°	3221.2	21.5
70°-80°	1967.8	13.1
80°-90°	188.4	1.3
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°	14986.0	100.0
0°-180°	14986.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509543

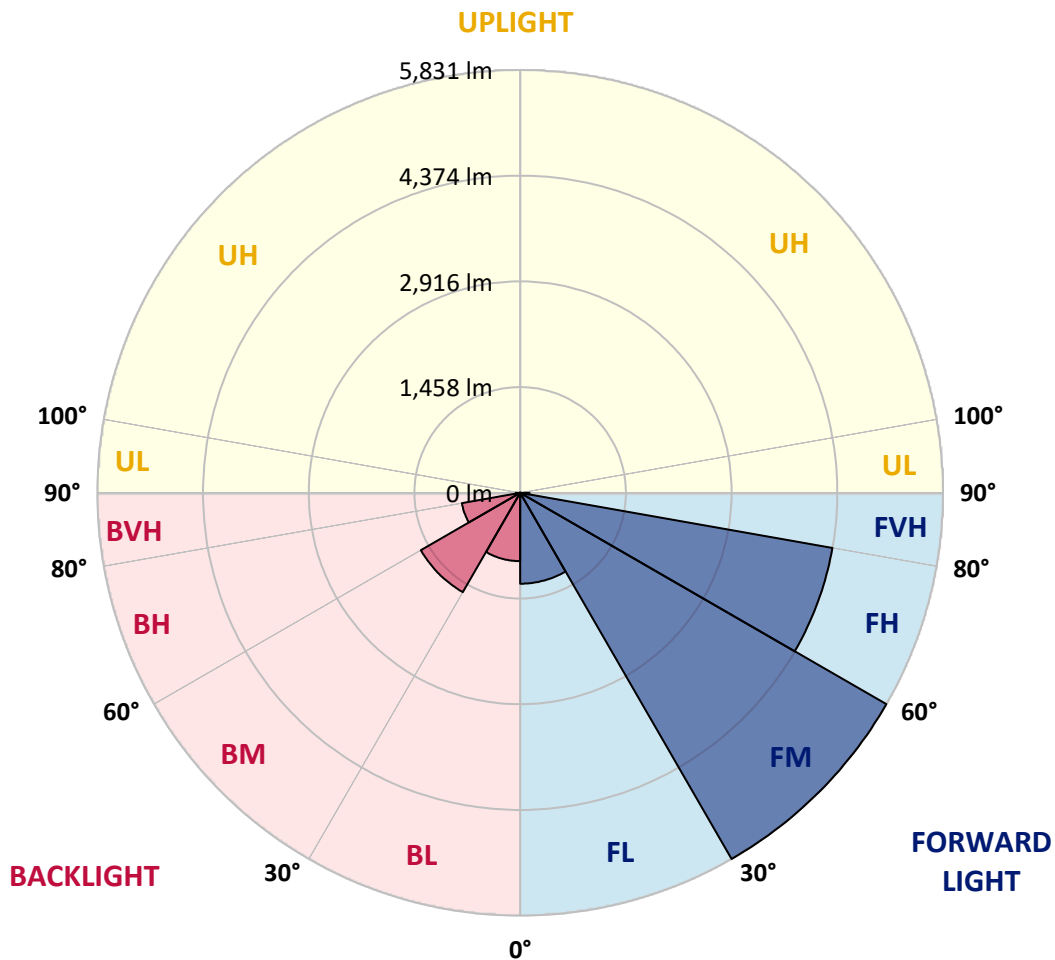
CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.4	8.4			
FM (30°-60°)	5831.4	38.9			
FH (60°-80°)	4372.5	29.2			G2/5000
FVH (80°-90°)	128.3	0.9			G2/225
BL (0°-30°)	942.1	6.3	B2/1000		
BM (30°-60°)	1581.7	10.6	B2/2500		
BH (60°-80°)	816.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	60.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P509543

CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2295.2	2306.1	2288.3	2276.4	2263.5	2270.4	2253.5	2253.5	2245.6	2258.5	2250.5
5°	2369.7	2379.6	2348.8	2324.0	2322.0	2301.2	2299.2	2289.3	2277.3	2288.3	2299.2
7.5°	2468.9	2465.0	2443.1	2414.3	2385.6	2373.6	2353.8	2338.9	2321.0	2331.0	2333.9
10°	2590.1	2583.1	2554.3	2508.7	2485.8	2453.1	2403.4	2375.6	2362.7	2372.7	2375.6
12.5°	2719.1	2710.2	2682.4	2631.8	2592.0	2540.4	2483.8	2439.2	2430.2	2420.3	2437.2
15°	2864.1	2848.2	2824.4	2783.6	2722.1	2654.6	2577.2	2534.5	2521.6	2504.7	2496.7
17.5°	3020.9	3018.9	2988.2	2943.5	2880.9	2787.6	2688.3	2621.8	2621.8	2614.9	2572.2
20°	3189.7	3181.7	3151.0	3126.1	3037.8	2939.5	2818.4	2734.0	2725.1	2711.2	2640.7
22.5°	3359.4	3360.4	3320.7	3301.9	3236.3	3110.3	2957.4	2873.0	2855.1	2836.3	2714.2
25°	3513.3	3515.3	3503.4	3468.6	3415.0	3298.9	3139.0	3026.9	3016.9	2991.1	2843.2
27.5°	3669.2	3694.0	3659.2	3663.2	3639.4	3506.4	3346.5	3210.5	3220.5	3163.9	2961.3
30°	3853.8	3862.8	3845.9	3850.8	3836.0	3748.6	3593.7	3483.5	3483.5	3419.0	3161.9
32.5°	4001.7	3993.8	3994.8	4046.4	4053.4	4005.7	3878.6	3842.9	3873.7	3865.7	3634.4
35°	4075.2	4089.1	4127.8	4246.0	4303.5	4274.7	4259.9	4307.5	4384.9	4434.6	4150.7
37.5°	4169.5	4212.2	4260.8	4392.9	4499.1	4578.5	4659.9	4816.8	4928.0	4992.5	4641.1
40°	4266.8	4270.8	4368.1	4531.9	4739.3	4865.4	5059.0	5329.0	5438.2	5389.6	4913.1
42.5°	4191.4	4201.3	4336.3	4628.2	4888.3	5210.9	5420.4	5732.1	5807.5	5659.6	5194.0
45°	4094.1	4112.9	4283.7	4628.2	5052.1	5527.6	5766.8	6114.3	6123.2	5923.7	5363.8
47.5°	4007.7	4023.6	4203.3	4592.4	5205.9	5805.6	6045.8	6328.7	6389.3	6139.1	5589.1
50°	3892.5	3932.3	4109.0	4560.7	5277.4	5999.1	6293.0	6586.8	6607.7	6342.6	5757.9
52.5°	3767.5	3802.2	4019.6	4501.1	5368.7	6159.0	6456.8	6835.0	6796.3	6614.6	5947.5
55°	3598.7	3629.5	3880.6	4405.8	5379.7	6245.3	6574.9	7065.3	7080.2	6841.0	6131.2
57.5°	3405.1	3456.7	3685.1	4229.1	5279.4	6271.1	6778.4	7377.1	7434.6	7120.9	6278.1
60°	3195.6	3236.3	3495.4	4041.5	5146.4	6368.4	7057.4	7781.1	7826.8	7365.2	6337.7
62.5°	2981.2	3015.0	3229.4	3759.5	4902.2	6387.3	7300.6	8187.1	8172.3	7582.6	6420.1
65°	2714.2	2717.1	2919.7	3419.0	4562.6	6252.3	7425.7	8351.9	8366.8	7780.1	6325.8
67.5°	2374.6	2393.5	2547.4	3021.9	4100.0	5912.8	7346.3	8493.9	8552.5	7902.2	6205.6
70°	1891.2	1902.1	2062.9	2504.7	3485.5	5387.6	7195.4	8515.7	8502.8	7744.4	5875.0
72.5°	1345.2	1386.9	1495.1	1761.1	2674.4	4409.8	6513.4	7841.7	7782.1	7134.8	5240.7
75°	864.7	868.6	976.9	1150.6	1565.6	3126.1	5429.3	6759.6	6784.4	6188.8	4266.8
77.5°	285.9	322.6	358.4	485.5	649.3	1301.5	3665.2	5328.0	5403.5	4875.4	2911.7
80°	126.1	126.1	213.4	275.0	350.4	557.9	1462.3	2411.4	2642.7	2273.4	1121.8
82.5°	92.3	94.3	143.0	163.8	138.0	232.3	525.2	772.4	819.0	735.6	445.7
85°	52.6	54.6	61.5	70.5	58.6	94.3	116.2	119.1	120.1	104.2	81.4
87.5°	23.8	23.8	21.8	18.9	10.9	6.9	6.9	5.0	6.0	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509543

CATALOG NUMBER: VERD-G-CA2-120-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5	2259.5
2.5°	2247.6	2257.5	2279.3	2283.3	2293.2	2308.1	2327.0	2335.9	2365.7	2379.6	2383.6
5°	2301.2	2306.1	2343.9	2356.8	2401.4	2424.3	2444.1	2458.0	2494.8	2503.7	2519.6
7.5°	2341.9	2358.8	2404.4	2433.2	2461.0	2484.8	2482.8	2515.6	2534.5	2549.4	2555.3
10°	2383.6	2392.5	2439.2	2452.1	2472.9	2490.8	2495.8	2504.7	2509.7	2530.5	2537.4
12.5°	2448.1	2442.1	2448.1	2459.0	2475.9	2471.9	2482.8	2469.9	2476.9	2503.7	2493.8
15°	2495.8	2481.9	2456.0	2457.0	2446.1	2441.2	2425.3	2414.3	2413.4	2419.3	2429.2
17.5°	2549.4	2508.7	2461.0	2448.1	2407.4	2367.7	2339.9	2310.1	2305.1	2311.1	2304.2
20°	2596.0	2541.4	2459.0	2418.3	2338.9	2267.4	2226.7	2182.0	2180.1	2176.1	2168.1
22.5°	2652.6	2584.1	2458.0	2375.6	2281.3	2166.2	2081.8	2048.0	2007.3	2023.2	2021.2
25°	2737.0	2651.6	2467.0	2330.0	2177.1	2040.1	1931.9	1857.4	1816.7	1807.8	1811.8
27.5°	2841.2	2728.1	2471.9	2272.4	2081.8	1886.2	1714.5	1602.3	1577.5	1544.7	1547.7
30°	2993.1	2832.3	2495.8	2208.9	1941.8	1689.6	1485.1	1339.2	1297.5	1304.5	1306.4
32.5°	3351.5	3046.7	2512.6	2135.4	1787.9	1472.2	1205.2	1059.3	1026.5	1038.4	1045.4
35°	3822.1	3457.7	2605.0	2041.1	1613.2	1218.1	924.2	841.8	848.8	871.6	877.6
37.5°	4288.6	3893.5	2808.5	1958.7	1389.8	932.2	737.6	689.0	729.7	751.5	758.5
40°	4575.5	4183.4	3032.8	1831.6	1105.9	685.0	561.9	534.1	580.8	631.4	656.2
42.5°	4865.4	4420.7	3178.8	1676.7	791.2	498.4	417.9	440.8	517.2	567.8	579.8
45°	5050.1	4542.8	3192.7	1430.5	527.1	386.2	381.2	429.9	508.3	549.0	555.9
47.5°	5229.8	4706.6	3134.1	1145.6	397.1	367.3	378.2	434.8	512.3	557.9	556.9
50°	5408.5	4867.4	3007.0	909.4	375.3	355.4	384.2	444.7	519.2	553.9	553.9
52.5°	5517.7	4946.8	2751.9	723.7	361.4	348.5	387.2	448.7	512.3	532.1	529.1
55°	5648.7	4965.7	2580.1	602.6	346.5	343.5	393.1	459.6	511.3	513.2	506.3
57.5°	5717.2	4919.0	2440.2	512.3	333.6	345.5	400.1	462.6	540.1	563.9	567.8
60°	5687.4	4862.4	2281.3	455.7	321.6	342.5	398.1	485.5	629.4	679.0	670.1
62.5°	5658.6	4756.2	2014.3	409.0	308.7	344.5	396.1	538.1	739.6	688.0	660.2
65°	5554.4	4535.8	1666.8	364.3	292.9	345.5	392.1	594.7	757.5	694.9	647.3
67.5°	5268.5	4168.5	1318.4	316.7	274.0	331.6	383.2	558.9	606.6	546.0	520.2
70°	4842.6	3636.4	904.4	274.0	251.2	314.7	377.2	529.1	569.8	527.1	494.4
72.5°	4155.6	2857.1	501.3	229.3	220.4	293.9	376.2	522.2	573.8	451.7	416.0
75°	3159.9	1895.1	325.6	179.7	180.7	262.1	358.4	498.4	555.9	424.9	376.2
77.5°	1861.4	798.2	227.3	128.1	141.0	203.5	318.7	477.5	526.2	416.0	376.2
80°	632.4	351.4	147.9	86.4	86.4	130.0	227.3	390.1	468.6	405.0	401.1
82.5°	328.6	223.4	94.3	53.6	49.6	62.5	140.0	268.0	376.2	343.5	391.1
85°	65.5	46.7	29.8	21.8	23.8	31.8	49.6	136.0	238.3	265.1	317.7
87.5°	5.0	4.0	6.0	6.0	6.0	6.0	6.9	33.8	95.3	117.1	144.9
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)